R - Practice 02

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Table called tibble $\ldots \ldots \ldots$

1

Contents

Data import (tibble & readr)

	data.frame VS t Subsetting Read files	o - From ibbles	data fra	me (conver	rsion) m your di	sk				267 269 534 539 540 541 543 544
Ta	ble called til	bble								
	ome build in lot2::economic		(insid	e ggplot2	?;)					
## ## ## ## ## ## ## ##	# A tibble: 57 date	pce <dbl> 507. 510. 516. 512. 517. 525. 531. 534. 544. 544 570ws</dbl>	<dbl> <dbl> <dbl> <dbl> 198712 198911 199113 199311 199498 199657 199808 199920 200056 200208</dbl></dbl></dbl></dbl>	psavert u <dbl> 12.6 12.6 11.9 12.8 11.8 11.7 12.3 11.7 12.3</dbl>	dbl> 4.5 4.7 4.6 4.9 4.7 4.8 5.1 4.5 4.1	contact and the state of the st				
cla	ss(ggplot2::e	conomic	s)							
	[1] "spec_tbl _.		bl_df"	"tbl	11	"data.fr	ame"			

```
## # A tibble: 53,940 x 10
##
      carat cut
                       color clarity depth table price
                                                              Х
      <dbl> <ord>
                       <ord> <ord>
##
                                      <dbl> <dbl> <dbl> <dbl> <dbl> <
    1 0.23 Ideal
                                       61.5
##
                       Ε
                              SI2
                                                55
                                                     326
                                                          3.95
                                                                 3.98
                                                                       2.43
##
    2 0.21 Premium
                       Ε
                              SI1
                                       59.8
                                                61
                                                     326
                                                          3.89
                                                                 3.84
                                                                       2.31
    3 0.23 Good
                                                          4.05
##
                       Ε
                              VS1
                                       56.9
                                                65
                                                     327
                                                                 4.07
                                                                       2.31
##
    4 0.29 Premium
                              VS2
                                       62.4
                                                58
                                                          4.2
                                                                 4.23
                                                                       2.63
                                                     334
    5 0.31 Good
                              SI2
                                       63.3
                                                          4.34
                                                                 4.35
                                                                       2.75
##
                       J
                                                58
                                                     335
##
    6 0.24 Very Good J
                              VVS2
                                       62.8
                                                57
                                                     336
                                                          3.94
                                                                 3.96
                                                                       2.48
##
    7 0.24 Very Good I
                              VVS1
                                                57
                                       62.3
                                                     336
                                                          3.95
                                                                 3.98
                                                                       2.47
    8 0.26 Very Good H
                              SI1
                                       61.9
                                                55
                                                     337
                                                          4.07
                                                                 4.11
                                                                       2.53
                              VS2
                                                                       2.49
##
    9 0.22 Fair
                       Ε
                                       65.1
                                                61
                                                     337
                                                          3.87
                                                                 3.78
## 10 0.23 Very Good H
                              VS1
                                       59.4
                                                                 4.05
                                                61
                                                     338
                                                          4
                                                                       2.39
## # i 53,930 more rows
class(ggplot2::diamonds)
## [1] "tbl_df"
                     "tbl"
                                   "data.frame"
ggplot2::faithfuld
## # A tibble: 5,625 x 3
##
      eruptions waiting density
##
          <dbl>
                   <dbl>
                            <dbl>
                      43 0.00322
##
           1.6
   1
##
    2
           1.65
                      43 0.00384
##
    3
           1.69
                      43 0.00444
##
           1.74
                      43 0.00498
   4
##
  5
           1.79
                      43 0.00542
                      43 0.00574
##
    6
           1.84
##
   7
           1.88
                      43 0.00592
##
   8
           1.93
                      43 0.00594
##
  9
           1.98
                      43 0.00581
## 10
           2.03
                      43 0.00554
## # i 5,615 more rows
class(ggplot2::faithfuld)
                     "tbl"
## [1] "tbl_df"
                                   "data.frame"
# hflights data set (not a tibble - can be converted, shown later)
hflights::hflights
         Year Month DayofMonth DayOfWeek DepTime ArrTime UniqueCarrier FlightNum
##
## 5424
                                                                                  428
         2011
                   1
                               1
                                         6
                                               1400
                                                       1500
                                                                         AA
## 5425
         2011
                   1
                               2
                                         7
                                               1401
                                                       1501
                                                                         AA
                                                                                  428
## 5426
         2011
                               3
                                               1352
                                                                                  428
                   1
                                         1
                                                       1502
                                                                         AA
## 5427
         2011
                                         2
                                               1403
                                                                                  428
                   1
                               4
                                                       1513
                                                                         AA
## 5428
         2011
                                         3
                                                                                  428
                               5
                                               1405
                   1
                                                       1507
                                                                        AA
## 5429
         2011
                   1
                               6
                                         4
                                               1359
                                                       1503
                                                                                  428
                                                                         AA
                                                                                  428
## 5430
        2011
                   1
                              7
                                         5
                                               1359
                                                       1509
                                                                        AA
## 5431
        2011
                                         6
                                                                                  428
                   1
                               8
                                               1355
                                                       1454
                                                                        AA
## 5432
         2011
                              9
                                         7
                                               1443
                                                                        AA
                                                                                  428
                   1
                                                       1554
## 5433
                                                                                  428
         2011
                   1
                              10
                                         1
                                               1443
                                                       1553
                                                                         AA
## 5434
                                         2
                                               1429
                                                                                  428
        2011
                   1
                              11
                                                       1539
                                                                        AA
## 5435
         2011
                   1
                              12
                                         3
                                               1419
                                                       1515
                                                                        AA
                                                                                  428
## 5436 2011
                              13
                                         4
                                               1358
                                                                                  428
                   1
                                                       1501
                                                                        AA
```

##	5437	2011	1	14	5	1357	1504	AA	428
##	5438	2011	1	15	6	1359	1459	AA	428
##	5439	2011	1	16	7	1359	1509	AA	428
##	5440	2011	1	17	1	1530	1634	AA	428
##	5441	2011	1	18	2	1408	1508	AA	428
	5442	2011	1	19	3	1356	1503	AA	428
	5443	2011	1	20	4	1507	1622	AA	428
	5444	2011	1	21	5	1357	1459	AA	428
	5445	2011	1	22	6	1355	1456	AA	428
	5446	2011	1	23	7	1356	1501	AA	428
	5447	2011	1	24	1	1356	1513	AA	428
	5448	2011	1	25	2	1352	1452	AA	428
	5449	2011	1	26	3	1353	1455	AA	428
	5450	2011	1	27	4	1356	1458	AA	428
	5451	2011	1	28	5	1359	1505	AA	428
##	5452	2011	1	29	6	1355	1455	AA	428
##	5453	2011	1	30	7	1359	1456	AA	428
##	5454	2011	1	31	1	1441	1553	AA	428
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##	6344	2011	1	2	7	719	821	AA	460
##	6345	2011	1	3	1	717	834	AA	460
##	6346	2011	1	4	2	714	821	AA	460
##	6347	2011	1	5	3	718	822	AA	460
	6348	2011	1	6	4	719	821	AA	460
	6349	2011	1	7	5	711	827	AA	460
	6350	2011	1	8	6	713	805	AA	460
	6351	2011	1	9	7	714	829	AA	460
	6352	2011	1	10	1	715	818	AA	460
	6353	2011	1	11	2	717	820	AA	460
	6354	2011	1	12	3	714	814	AA	460
	6355	2011	1	13	4	722	841	AA	460
	6356	2011	1	14	5	715	828	AA	460
##	6357	2011	1	15	6	719	833	AA	460
##	6358	2011	1	16	7	743	843	AA	460
##	6359	2011	1	17	1	724	842	AA	460
##	6360	2011	1	18	2	721	827	AA	460
##	6361	2011	1	19	3	714	833	AA	460
##	6362	2011	1	20	4	719	822	AA	460
##	6363	2011	1	21	5	712	811	AA	460
	6364	2011	1	22	6	717	829	AA	460
	6365	2011	1	23	7	710	814	AA	460
	6366	2011	1	24	1	731	904	AA	460
	6367	2011	1	25	2	719	818	AA	460
	6368	2011	1	26	3	716	824	AA	460
	6369	2011	1	27	4	715	825	AA	460
	6370	2011	1	28	5	741	846	AA	460
	6371	2011	1	29	6	720	825	AA	460
	6372	2011	1	30	7	716	820	AA	460
	6373	2011	1	31	1	718	816	AA	460
	8186	2011	1	2	7	1959	2106	AA	533
	8187	2011	1	3	1	1958	2107	AA	533
	8188	2011	1	4	2	2100	2207	AA	533
	8189	2011	1	5	3	1958	2106	AA	533
##	8190	2011	1	6	4	1955	2103	AA	533

##	8191	2011	1	7	5	1958	2055	AA	533
	8192	2011	1	9	7	2045	2155	AA	533
	8193	2011	1	10	1	2029	2133	AA	533
	8194	2011	1	11	2	1953	2051	AA	533
	8195				3				
		2011	1	12		2015	2113	AA	533
	8196	2011	1	13	4	2020	2116	AA	533
	8197	2011	1	14	5	2119	2229	AA	533
	8198	2011	1	16	7	1956	2119	AA	533
	8199	2011	1	17	1	2030	2131	AA	533
	8200	2011	1	18	2	1957	2106	AA	533
	8201	2011	1	19	3	2029	2123	AA	533
	8202	2011	1	20	4	2004	2121	AA	533
	8203	2011	1	21	5	2036	2134	AA	533
	8204	2011	1	23	7	2001	2057	AA	533
	8205	2011	1	24	1	2043	2139	AA	533
	8206	2011	1	25	2	2004	2107	AA	533
	8207	2011	1	26	3	2009	2103	AA	533
	8208	2011	1	27	4	2039	2130	AA	533
##	8209	2011	1	28	5	1959	2100	AA	533
	8210	2011	1	30	7	1959	2132	AA	533
	8211	2011	1	31	1	1954	2105	AA	533
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	19267		1	2	7	1636	1759	AA	1121
	19268		1	3	1	1623	1738	AA	1121
##	19269	2011	1	4	2	1629	1732	AA	1121
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##	19271	2011	1	6	4	1625	1732	AA	1121
##	19272	2011	1	7	5	1630	1733	AA	1121
##	19273	2011	1	8	6	1627	1736	AA	1121
##	19274	2011	1	9	7	1835	1951	AA	1121
##	19275	2011	1	10	1	1639	1740	AA	1121
##	19276	2011	1	11	2	1752	1855	AA	1121
##	19277	2011	1	12	3	1631	1739	AA	1121
##	19278	2011	1	13	4	1630	1733	AA	1121
##	19279	2011	1	14	5	1629	1734	AA	1121
##	19280	2011	1	15	6	1632	1736	AA	1121
##	19281	2011	1	16	7	1708	1819	AA	1121
##	19282	2011	1	17	1	1632	1744	AA	1121
	19283		1	18	2	1625	1740	AA	1121
	19284		1	19	3	1629	1731	AA	1121
	19285		1	20	4	1641	1752	AA	1121
	19286		1	21	5	1638	1746	AA	1121
	19287		1	22	6	1623	1742	AA	1121
	19288		1	23	7	1622	1738	AA	1121
	19289		1	24	1	1621	1749	AA	1121
	19290		1	25	2	1627	1733	AA	1121
	19291		1	26	3	1634	1745	AA	1121
	19292		1	27	4	1634	1740	AA	1121
	19293		1	28	5	1625	1730	AA	1121
	19294		1	29	6	1630	1730	AA	1121
	19295		1	30	7	1635	1731	AA	1121
	19295		1	31	1	1656	1753 1758	AA	1121
	23655		1	1	6	1756	2112	AA	1294
					7				
##	23656	ZUII	1	2	1	1823	2132	AA	1294

	00657	0044		0		4755	0400		4004
	23657		1	3	1	1755	2106	AA	1294
##	23658	2011	1	4	2	1757	2122	AA	1294
##	23659	2011	1	5	3	1751	2100	AA	1294
##	23660	2011	1	6	4	1746	2120	AA	1294
	23661		1	7	5	1757	2108	AA	1294
	23662		1	8	6	1749	2100	AA	1294
	23663		1	9	7	1810	2123	AA	1294
	23664		1	10	1	1934	2235	AA	1294
##	23665	2011	1	11	2	1848	2156	AA	1294
##	23666	2011	1	12	3	1748	2102	AA	1294
##	23667	2011	1	13	4	1748	2127	AA	1294
##	23668	2011	1	14	5	1754	2101	AA	1294
	23669		1	15	6	1749	2059	AA	1294
	23670		1	16	7	1807	2137	AA	1294
	23671		1	17	1	1803	2121	AA	1294
	23672		1	18	2	1839	2154	AA	1294
##	23673	2011	1	19	3	1751	2103	AA	1294
##	23674	2011	1	20	4	1750	2114	AA	1294
##	23675	2011	1	21	5	1818	2133	AA	1294
	23676		1	22	6	1750	2055	AA	1294
	23677		1	23	7	1753	2113	AA	1294
	23678		1	24	1	1828	2146	AA	1294
	23679		1	25	2	1750	2118	AA	1294
	23680		1	26	3	1905	2211	AA	1294
##	23681	2011	1	27	4	1812	2129	AA	1294
##	23682	2011	1	28	5	1750	2108	AA	1294
##	23683	2011	1	29	6	1753	2102	AA	1294
##	23684	2011	1	30	7	1856	2209	AA	1294
	23685		1	31	1	1757	2101	AA	1294
	27063		1	3	1	907	1013	AA	1436
	27064		1	4	2	930	1030	AA	1436
	27065		1	5	3	916	1019	AA	1436
##	27066	2011	1	6	4	907	1015	AA	1436
##	27067	2011	1	7	5	904	1012	AA	1436
##	27068	2011	1	10	1	941	1113	AA	1436
##	27069	2011	1	11	2	901	1005	AA	1436
##	27070	2011	1	12	3	909	1009	AA	1436
	27071		1	13	4	907	1022	AA	1436
	27072		1	14	5	903	1012	AA	1436
	27073		1	17	1	930	1040	AA	1436
	27074		1	18	2	923	1030	AA	1436
	27075		1	19	3	916	1028	AA	1436
##	27076	2011	1	20	4	907	1018	AA	1436
##	27077	2011	1	21	5	918	1037	AA	1436
##	27078	2011	1	24	1	912	1017	AA	1436
	27079		1	25	2	901	1007	AA	1436
	27080		1	26	3	910	1018	AA	1436
			1	27	4			AA	
	27081					908	1011		1436
	27082		1	28	5	907	1012	AA	1436
	27083		1	31	1	941	1054	AA	1436
	33051		1	1	6	1012	1347	AA	1700
##	33052	2011	1	2	7	1008	1321	AA	1700
##	33053	2011	1	3	1	1018	1323	AA	1700
	33054		1	4	2	1026	1333	AA	1700
	55551		-	-	_	1020	1000	1111	1.00

##	33055	2011	1	5	3	1021	1331	AA	1700
##	33056	2011	1	6	4	1020	1322	AA	1700
##	33057	2011	1	7	5	1010	1316	AA	1700
##	33058	2011	1	8	6	1019	1324	AA	1700
	33059		1	9	7	1029	1338	AA	1700
	33060		1	10	1	1038	1414	AA	1700
	33061		1	11	2	1134	1454	AA	1700
	33062		1	12	3	1019	1327	AA	1700
##	33063	2011	1	13	4	1018	1326	AA	1700
##	33064	2011	1	14	5	1024	1327	AA	1700
##	33065	2011	1	15	6	1022	1340	AA	1700
	33066		1	16	7	1021	1332	AA	1700
	33067		1	17	1	1019	1332	AA	1700
	33068		1	18	2	1017	1332	AA	1700
	33069		1	19	3	1016	1331	AA	1700
	33070		1	20	4	1015	1325	AA	1700
	33071		1	21	5	1017	1325	AA	1700
##	33072	2011	1	22	6	1026	1345	AA	1700
##	33073	2011	1	23	7	1012	1327	AA	1700
##	33074	2011	1	24	1	NA	NA	AA	1700
##	33075	2011	1	25	2	1040	1354	AA	1700
	33076		1	26	3	1015	1329	AA	1700
	33077		1	27	4	1017	1335	AA	1700
	33078		1	28	5	1020	1318	AA	1700
	33079		1	29	6	1015	1326	AA	1700
##	33080	2011	1	30	7	1019	1324	AA	1700
##	33081	2011	1	31	1	1013	1336	AA	1700
##	35256	2011	1	1	6	1211	1325	AA	1820
##	35257	2011	1	2	7	1200	1303	AA	1820
	35258		1	3	1	1204	1308	AA	1820
	35259		1	4	2	1206	1319	AA	1820
	35260		1	5	3	1205	1311	AA	1820
	35261		1	6	4	1204	1310	AA	1820
	35262		1	7	5	1204	1316	AA	1820
	35263		1	8	6	1202	1308	AA	1820
	35264		1	9	7	NA	NA	AA	1820
##	35265	2011	1	10	1	1217	1329	AA	1820
##	35266	2011	1	11	2	1205	1310	AA	1820
##	35267	2011	1	12	3	1206	1305	AA	1820
	35268		1	13	4	1205	1311	AA	1820
	35269		1	14	5	1205	1315	AA	1820
	35270		1	15	6	1222	1329	AA	1820
	35271		1	16	7	1205	1306	AA	1820
	35272		1	17	1	1205	1322	AA	1820
	35273		1	18	2	1235	1334	AA	1820
	35274		1	19	3	1204	1311	AA	1820
##	35275	2011	1	20	4	1214	1324	AA	1820
##	35276	2011	1	21	5	1206	1312	AA	1820
	35277		1	22	6	1200	1312	AA	1820
	35278		1	23	7	1217	1308	AA	1820
	35279		1	24	1	1217	1318	AA	1820
	35280		1	25	2	1159	1259	AA	1820
	35281		1	26	3	1159	1314	AA	1820
##	35282	2011	1	27	4	1159	1311	AA	1820

##	35283	2011	1	28	5	1255	1358	AA	1820
	35284		1	29	6	1156	1302	AA	1820
##	35285	2011	1	30	7	1159	1319	AA	1820
##	35286	2011	1	31	1	1205	1317	AA	1820
##			1	2	7	907	1018	AA	1824
##	35376	2011	1	8	6	902	1010	AA	1824
##	35377	2011	1	9	7	938	1050	AA	1824
##	35378	2011	1	15	6	905	1007	AA	1824
##	35379	2011	1	16	7	903	1012	AA	1824
##	35380	2011	1	22	6	930	1041	AA	1824
##	35381	2011	1	23	7	903	1023	AA	1824
##	35382	2011	1	29	6	903	1020	AA	1824
	35383		1	30	7	904	1013	AA	1824
##	39453	2011	1	1	6	557	906	AA	1994
##	39454	2011	1	2	7	554	912	AA	1994
##	39455	2011	1	3	1	555	905	AA	1994
##	39456	2011	1	4	2	558	923	AA	1994
##	39457	2011	1	5	3	555	914	AA	1994
##	39458	2011	1	6	4	600	908	AA	1994
##	39459	2011	1	7	5	556	905	AA	1994
##	39460	2011	1	8	6	558	910	AA	1994
##	39461	2011	1	9	7	558	911	AA	1994
##	39462	2011	1	10	1	605	920	AA	1994
##	39463	2011	1	11	2	553	1216	AA	1994
##	39464	2011	1	12	3	551	903	AA	1994
##	39465	2011	1	13	4	633	938	AA	1994
##	39466	2011	1	14	5	558	910	AA	1994
##	39467	2011	1	15	6	555	905	AA	1994
##	39468	2011	1	16	7	605	910	AA	1994
##	39469	2011	1	17	1	556	943	AA	1994
##	39470	2011	1	18	2	555	911	AA	1994
##	39471	2011	1	19	3	554	921	AA	1994
##	39472	2011	1	20	4	556	912	AA	1994
##	39473	2011	1	21	5	553	907	AA	1994
##	39474	2011	1	22	6	550	907	AA	1994
##	39475	2011	1	23	7	552	900	AA	1994
##	39476	2011	1	24	1	553	906	AA	1994
##	39477	2011	1	25	2	558	916	AA	1994
##	39478	2011	1	26	3	555	907	AA	1994
##	39479	2011	1	27	4	606	915	AA	1994
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## ## ## ## ##	65685 203 66204 203 66205 203 66785 203 66786 203 67336 203 67337 203	1 1 1 1 1 1 1 1 1 1 1 1	16 16 17 17 18 18	7 1 1 2 2	1551 730 1531 659 1647	2004 1135 1946 1102 2056	B6 B6 B6 B6	624 620 624 620 624
## ## ## ## ## ##	65685 203 66204 203 66205 203 66785 203 66786 203 67336 203	1 1 1 1 1 1 1 1 1 1 1 1 1 1	16 16 17 17 18 18	7 1 1 2	1551 730 1531 659	2004 1135 1946 1102	B6 B6 B6 B6	624 620 624 620

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##	77759 201	1 1	27	4	1802	1924	CO	1689
##	77760 201	1 1	27	4	1052	1409	CO	1690
##	77764 201		27	4	1318	1451	CO	1695
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##	77778 201	1 1	27	4	2206	2313	CO	1717
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##	77788 201		27	4	1256	1600	CO	1757
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##	77799 201		27	4	1751	1848	CO	1779
##	77800 201	1 1	27	4	856	1049	CO	1783
##	77803 201	1 1	27	4	1607	1717	CO	1787
##	77805 201	1 1	27	4	1322	1646	CO	1790
##	77808 201	1 1	27	4	1759	1925	CO	1795
##	77817 201		27	4	1543	1711	CO	1821
##	77818 201		27	4	1024	1127	CO	1823
	77821 201		27	4				1830
##					1930	2237	CO	
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##	77824 201		27	4	1302	1722	CO	1836
##	77825 201	1 1	27	4	1446	1815	CO	1844
##	77829 201	1 1	27	4	1257	1623	CO	1850
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	77862 201			3	1526	1627	CO	33
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	77880 201			3	1737	1923	CO	59
	77881 201			3	NA	NA	CO	60
	77883 201			3	1531	1944	CO	62
	77889 201			3	557	1032	CO	89
	77893 201			3	1325	1816	CO	106
	77899 201			3	732	844	CO	128
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##	77921 2		1	26	3	1918	2227	CO	190
##	77925 2		1	26	3	736	911	CO	199
##	77930 2		1	26	3	1300	1601	CO	206
##	77933 2		1	26	3	2122	2346	CO	209
##	77934 2		1	26	3	NA	NA	CO	210
##	77936 2		1	26	3	1012	1632	CO	212
##	77942 2		1	26	3	907	1109	CO	220
##	77951 2	2011	1	26	3	946	1406	CO	232
##	77958 2	2011	1	26	3	1303	1353	CO	241
##	77960 2	2011	1	26	3	1540	1921	CO	244
##	77963 2	2011	1	26	3	1848	2221	CO	250
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##	77978 2	2011	1	26	3	748	1225	CO	282
##	77984 2	2011	1	26	3	2047	2216	CO	299
##	77989 2	2011	1	26	3	846	1119	CO	309
##	77990 2	2011	1	26	3	1926	NA	CO	310
##	77994 2	2011	1	26	3	1451	1643	CO	320
##	77995 2	2011	1	26	3	1313	1416	CO	323
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##	78001 2	2011	1	26	3	753	1234	CO	332
##	78013 2		1	26	3	1031	1412	CO	358
##	78019 2		1	26	3	1427	1630	CO	370
##	78024 2		1	26	3	1321	1422	CO	379
##	78031 2		1	26	3	1824	1945	CO	397
##	78033 2		1	26	3	1315	1625	CO	400
##	78035 2		1	26	3	727	1117	CO	404
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##	78041 2		1	26	3	1703	NA 1040	CO	410
##	78044 2 78045 2		1	26 26	3	1743	1940 2031	CO	421
##	78046 2		1	26	3	1922 NA	NA	CO CO	423 426
	78049 2		1	26	3	1130	1550	CO	432
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	78056 2		1	26	3	600	834	CO	446
	78061 2		1	26	3	1253	1656	CO	458
	78065 2		1	26	3	2114	2345	CO	467
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	78072 2		1	26	3	1306	1755	CO	482
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##	78085 2	2011	1	26	3	2054	2205	CO	511
##	78091 2	2011	1	26	3	1736	1925	CO	520
##	78097 2	2011	1	26	3	1443	1909	CO	532
	78098 2		1	26	3	1302	1644	CO	534
	78103 2		1	26	3	933	1139	CO	542
	78104 2		1	26	3	740	1125	CO	544
##	78105 2	2011	1	26	3	1141	1412	CO	546

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	78115 201			3	NA	NA	CO	558
	78117 201			3	910	1051	CO	559
	78123 201			3	1754	1957	CO	570
	78128 201			3	1847	2319	CO	582
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##	78193 201	1 1	26	3	NA	NA	CO	732
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##	78198 201	1 1	26	3	1308	1647	CO	744
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##	78200 201	1 1	26	3	2151	2345	CO	752
##	78202 201	1 1	26	3	1923	2221	CO	755
##	78205 201	1 1	26	3	1652	1759	CO	763
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	78312 2		1	26	3	1807	1940	CO	1511
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##	78331 2	011	1	26	3	1328	1636	CO	1562
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	78340 2		1	26	3	857	944	CO	1583
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	78361 2		1	26	3	NA	NA	CO	1632
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	78400 2		1	26	3	912	1105	CO	1714
	78401 2		1	26	3	1732	1853	CO	1715
	78402 2		1	26	3	2101	2225	CO	1717
	78405 2		1	26	3	932	1059	CO	1723
	78409 2		1	26	3	726	1001	CO	1746
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##	78411 2	011	1	26	3	1248	1559	CO	1757
##	78415 2	011	1	26	3	937	1209	CO	1767
##	78417 2	011	1	26	3	NA	NA	CO	1776
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	78425 2		1	26	3	1751	1928	CO	1795
	78434 2		1	26	3	1440	1620	CO	1821
	78437 2		1	26	3	1933	2246	CO	1830
	78439 2		1	26	3	NA	NA	CO	1832
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##	78448 201	1 1	26	3	1734	1939	CO	1858
##	78453 201	1 1	26	3	917	1225	CO	1873
##	78455 201	1 1	26	3	1006	1206	CO	1882
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	78469 201		25	2	1553	1704	CO	6
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##	78480 201	1 1	25	2	1706	1802	CO	35
##	78490 201	1 1	25	2	745	940	CO	52
##	78495 201	1 1	25	2	1930	2058	CO	59
##	78496 201	1 1	25	2	1205	1612	CO	60
	78498 201		25	2	1429	1833	CO	62
	78504 201		25	2	600	1010	CO	89
	78504 201 78508 201		25	2				
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##	78525 201	1 1	25	2	1438	1815	CO	158
##	78530 201	1 1	25	2	851	1056	CO	170
	78536 201		25	2	1918	2234	CO	190
	78540 201		25	2	724	844	CO	199
	78545 201		25	2	1256			
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	78548 201		25	2	2122	2356	CO	209
	78549 201		25	2	1552	2010	CO	210
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##	78557 201	1 1	25	2	905	1052	CO	220
##	78566 201	1 1	25	2	916	1322	CO	232
##	78573 201	1 1	25	2	1259	1401	CO	241
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	78584 201		25	2	816	1138	CO	258
	78590 201		25	2	1551	1722	CO	275
	78593 201		25	2	732	1224	CO	282
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	78624 201		25	2	1130	1259	CO	352
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	78697 201		25	2	2052	2200	CO	511
	78703 201		25	2	1737	1925	CO	520
	78709 201		25	2	1318	1735	CO	532
	78710 201		25	2	1256	1635	CO	534
	78715 201		25	2	931	1141	CO	542
	78716 201		25	2	741	1129	CO	544
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	78802 201		25	2	1853	2249	CO	732
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	78807 201		25	2	1302	1634	CO	744
	78808 201		25	2	1419	1716	CO	746
	78809 201		25	2	2131	2338	CO	752
	78811 201		25	2	1926	2235	CO	755
	78812 201		25	2	912	1033	CO	756
	78815 201		25	2	1655	1811	CO	763
	78816 201		25	2	1455	1721	CO	767
	78819 201		25	2	2056	2302	CO	770
	78820 201		25	2	727	941	CO	771
	78821 201		25	2	722	1120	CO	776
	78826 201		25	2	1337	1714	CO	786
	78829 201		25	2	1543	1725	CO	795
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	78857 20			2	724	1036	CO	1048
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	78864 20			2	1558	1814	CO	1070
	78867 20			2	1447	1549	CO	1079
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##	78940 20	11 1	. 25	2	1846	2055	CO	1568
##	78947 20	11 1	. 25	2	925	1019	CO	1583
##	78949 20	11 1		2	1930	2238	CO	1586
##	78951 20	11 1		2	1444	1611	CO	1589
##	78952 20	11 1		2	728	1046	CO	1590
##	78958 20	11 1		2	1752	1846	CO	1603
##	78964 20	11 1	. 25	2	1419	1537	CO	1621
	78965 20			2	843	945	CO	1623
##	78967 20	11 1		2	1334	1507	CO	1629
	78968 20			2	1747	2148	CO	1632
	78971 20			2	2053	2247	CO	1644
	78973 20			2	1023	1239	CO	1646
	78974 20			2	1601	1924	CO	1648
	78978 20			2	1909	2212	CO	1662
	78982 20			2	1748	1908	CO	1674
	78983 20			2	1546	1952	CO	1676
	78986 20			2	924	1029	CO	1679
	78991 20			2	1553	1937	CO	1688
	78992 20			2	1804	1927	CO	1689
	78996 20			2	1315	1459	CO	1695
	79001 20			2	1730	1844	CO	1705
	79005 20			2	1846	2026	CO	1711
	79007 20			2	910	1109	CO	1714
		_	=-	_				· -

##	79008 20	011	1	25	2	1729	1858	CO	1715
##	79009 20	011	1	25	2	2058	2218	CO	1717
##	79012 20	011	1	25	2	1011	1139	CO	1723
##	79016 20	011	1	25	2	723	952	CO	1746
	79017 20		1	25	2	1934	2257	CO	1748
	79018 20		1	25	2	1251	1608	CO	1757
	79022 20		1	25	2	933	1211	CO	1767
	79024 20		1	25	2	1917	2322	CO	1776
	79026 20		1	25	2	1742	1842	CO	1779
##	79027 20	011	1	25	2	1553	1708	CO	1787
##	79029 20	011	1	25	2	1340	1704	CO	1790
##	79032 20	011	1	25	2	1823	1950	CO	1795
##	79041 20	011	1	25	2	1453	1623	CO	1821
##	79044 20	011	1	25	2	1923	2333	CO	1830
	79046 20		1	25	2	1139	1548	CO	1832
	79047 20		1	25	2	1230	1635	CO	1836
	79048 20		1	25	2	1432	1809	CO	1844
	79051 20		1	25	2	1252	1639	CO	1850
	79051 20				2	1732			
			1	25			1943	CO	1858
	79058 20		1	25	2	907	1228	CO	1873
	79060 20		1	25	2	1001	1147	CO	1882
	79063 20		1	25	2	1741	1950	CO	1889
##	79068 20	011	1	24	1	1144	1605	CO	1
##	79073 20	011	1	24	1	1826	1946	CO	5
##	79074 20	011	1	24	1	1555	1654	CO	6
##	79083 20	011	1	24	1	1539	1650	CO	33
##	79085 20	011	1	24	1	1536	1628	CO	35
##	79093 20	011	1	24	1	1925	2107	CO	47
##	79096 20	011	1	24	1	744	919	CO	52
##	79101 20	011	1	24	1	1744	1917	CO	59
##	79102 20	011	1	24	1	1206	1616	CO	60
	79104 20		1	24	1	1505	1915	CO	62
	79109 20		1	24	1	559	959	CO	89
	79113 20		1	24	1	1047	1503	CO	106
	79113 20								
			1	24	1	725	824	CO	128
	79123 20		1	24	1	1451	1628	CO	137
	79124 20		1	24	1	1303	1605	CO	146
	79127 20		1	24	1	1812	1947	CO	150
	79130 20		1	24	1	1446	1827	CO	158
	79135 20		1	24	1	854	1115	CO	170
##	79142 20	011	1	24	1	1920	2245	CO	190
##	79147 20	011	1	24	1	1157	1321	CO	197
##	79149 20	011	1	24	1	724	859	CO	199
##	79154 20	011	1	24	1	1309	1611	CO	206
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	79158 20		1	24	1	1548	2000	CO	210
	79160 20		1	24	1	1023	1622	CO	212
	79166 20		1	24	1	911	1115	CO	220
	79172 20		1	24	1	1015	1355	CO	226
	79176 20		1	24	1	919	1329	CO	232
	79170 20		1	24	1	1322	1428	CO	241
	79185 20		1	24	1	1542	1923	CO	244
	79188 20		1	24	1	1931	2325	CO	250
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##	79202	2011	1	24	1	1146	1349	CO	270
##	79203	2011	1	24	1	1558	1743	CO	275
##	79206	2011	1	24	1	1147	1259	CO	279
##	79207	2011	1	24	1	735	1223	CO	282
##	79214	2011	1	24	1	1036	1204	CO	297
##	79216	2011	1	24	1	2109	2226	CO	299
##	79221	2011	1	24	1	853	1123	CO	309
##	79222	2011	1	24	1	1907	2315	CO	310
##	79226	2011	1	24	1	1451	1642	CO	320
##	79228	2011	1	24	1	1312	1433	CO	323
##	79230	2011	1	24	1	1256	1631	CO	326
##	79234	2011	1	24	1	742	1202	CO	332
##	79246	2011	1	24	1	1042	1433	CO	358
##	79254	2011	1	24	1	1439	1653	CO	370
##	79260	2011	1	24	1	1317	1421	CO	379
##	79262	2011	1	24	1	1053	1530	CO	382
##	79268	2011	1	24	1	1833	1954	CO	397
	79270		1	24	1	1421	1720	CO	400
	79272		1	24	1	1029	1155	CO	403
	79273		1	24	1	725	1115	CO	404
	79275		1	24	1	1159	1541	CO	406
	79277		1	24	1	750	1224	CO	408
	79279		1	24	1	1702	2039	CO	410
	79282		1	24	1	1748	2005	CO	421
	79284		1	24	1	1924	2050	CO	423
	79285		1	24	1	1940	2347	CO	426
	79288		1	24	1	1050	1511	CO	432
	79292		1	24	1	1854	2016	CO	442
	79293		1	24	1	1930	2159	CO	444
##	79295		1	24	1	628	903	CO	446
##	79300		1	24	1	1257	1636	CO	458
##	79304		1	24	1	2121	2344	CO	467
##	79310		1	24	1	1919	2021	CO	479
	79313		1	24	1	1309	1740	CO	482
##	79318		1	24	1	904	1024	CO	497
	79320		1	24	1	1149	1313	CO	499
	79321		1	24	1	1937	2322	CO	500
	79327		1	24	1	855	1316	CO	510
	79328		1	24	1	2057	2210	CO	511
	79334		1	24	1	1748	1933	CO	520
	79341		1	24	1	1318	1801	CO	532
	79342		1	24	1	1304	1640	CO	534
	79347		1	24	1	936	1151	CO	542
	79348		1	24	1	641	1008	CO	544
	79349		1	24	1	1152	1422	CO	546
	79359		1	24	1	1615	2009	CO	558
	79361		1	24	1	936	1128	CO	559
	79367		1	24	1	1837	2103	CO	570
	79372		1	24	1	1856	2320	CO	582
	79374		1	24	1	822	1128	CO	586
	79380		1	24	1	2128	2233	CO	597
	79382		1	24	1	1429	1555	CO	599
	79384		1	24	1	1307	1454	CO	601
##	1 3304	2011	1	24	т	1301	1404	ΟU	001

##	79386 201	1 1	24	1	1556	1906	CO	606
##	79389 201	1 1	24	1	1930	2214	CO	616
##	79393 201	1 1	24	1	1430	1542	CO	623
##	79396 201	1 1	24	1	716	1103	CO	626
	79399 201		24	1	1550	2020	CO	632
	79403 201		24	1	1900	2226	CO	644
	79408 201		24	1	1943	2345	CO	658
	79411 201		24	1	1121	1305	CO	663
	79412 201		24	1	1807	2051	CO	667
##	79419 201	1 1	24	1	1546	2042	CO	682
##	79422 201	1 1	24	1	1040	1404	CO	686
##	79428 201	1 1	24	1	1524	1636	CO	697
##	79432 201	1 1	24	1	746	1107	CO	706
##	79433 201	1 1	24	1	1911	2157	CO	709
	79436 201		24	1	1137	1236	CO	723
	79443 201		24	1	1927	2342	CO	732
	79447 201		24	1	1247	1403	CO	738
	79448 201		24	1	917	1051	CO	739
	79449 201		24	1	1153	1253	CO	741
	79450 201		24	1	1309	1703	CO	744
	79451 201		24	1	1417	1650	CO	746
##	79452 201	1 1	24	1	2142	2340	CO	752
##	79454 201	1 1	24	1	1926	2230	CO	755
##	79457 201	1 1	24	1	1657	1805	CO	763
##	79458 201	1 1	24	1	1445	1714	CO	767
##	79461 201	1 1	24	1	2111	2310	CO	770
##	79462 201	1 1	24	1	727	950	CO	771
##	79463 201	1 1	24	1	728	1147	CO	776
##	79468 201	1 1	24	1	1333	1652	CO	786
	79470 201		24	1	1013	1354	CO	788
	79472 201		24	1	1602	1748	CO	795
	79475 201		24	1	847	1008	CO	799
	79480 201		24					
				1	1313	1759	CO	810
	79485 201		24	1	2106	2250	CO	820
	79491 201		24	1	1047	1357	CO	1006
	79492 201		24	1	1807	2224	CO	1010
	79501 201		24	1	2100	2305	CO	1046
	79502 201		24	1	720	1035	CO	1048
##	79506 201	1 1	24	1	936	1316	CO	1058
##	79509 201	1 1	24	1	1627	1856	CO	1070
##	79512 201	1 1	24	1	1448	1546	CO	1079
##	79514 201	1 1	24	1	1620	1941	CO	1086
##	79516 201	1 1	24	1	1301	1657	CO	1088
##	79518 201	1 1	24	1	2105	2242	CO	1095
##	79519 201	1 1	24	1	730	916	CO	1097
	79521 201		24	1	1903	2038	CO	1099
	79530 201		24	1	1939	2059	CO	1411
	79532 201		24	1	915	1137	CO	1416
	79533 201		24	1	1902	2247	CO	1417
	79537 201		24	1	2109	2247	CO	1423
	79537 201			1	1227		CO	1423
			24			1533		
	79545 201		24	1	1038	1412	CO	1448
	79549 201		24	1	2100	2226	CO	1459
##	79551 201	1 1	24	1	1105	1417	CO	1462

##	79558 20	11 1	. 24	1	1024	1415	CO	1476
##	79560 20	11 1	. 24	1	2106	2202	CO	1479
##	79562 20	11 1	. 24	1	1936	2335	CO	1488
##	79565 20	11 1	. 24	1	927	1117	CO	1495
##	79567 20	11 1	. 24	1	1606	1752	CO	1497
	79568 20			1	1805	2218	CO	1499
	79572 20			1	1912	2206	CO	1506
	79574 20			1	1802	1938	CO	1511
	79579 20			1	2107	2200	CO	1533
	79581 20			1	1429	1531	CO	1541
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##	79584 20	11 1	. 24	1	1753	2028	CO	1546
##	79586 20	11 1	. 24	1	1314	1630	CO	1548
##	79593 20	11 1	. 24	1	1333	1653	CO	1562
	79595 20			1	1912	2117	CO	1568
	79602 20			1	930	1044	CO	1583
	79604 20			1	1858	2205	CO	1586
	79606 20					1630	CO	1589
				1	1512			
	79607 20			1	729	1056	CO	1590
	79614 20			1	1759	1857	CO	1603
	79615 20			1	1154	1333	CO	1605
	79622 20			1	1137	1342	CO	1620
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##	79631 20	11 1	. 24	1	2102	2256	CO	1644
##	79633 20	11 1	. 24	1	1102	1352	CO	1646
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##	79638 20			1	1931	2246	CO	1662
	79641 20			1	1813	1933	CO	1674
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	79645 20			1	921	1044	CO	1679
	79650 20			1	1600	2009	CO	1688
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##	79656 20	11 1	. 24	1	1318	1456	CO	1695
##	79661 20	11 1	. 24	1	1835	1952	CO	1705
##	79666 20	11 1	. 24	1	1858	2018	CO	1711
##	79668 20	11 1	. 24	1	916	1124	CO	1714
##	79669 20	11 1	. 24	1	1734	1845	CO	1715
##	79670 20	11 1	. 24	1	2115	2228	CO	1717
##	79672 20	11 1	. 24	1	1010	1131	CO	1723
	79677 20			1	734	1024	CO	1746
	79678 20			1	1923	2303	CO	1748
	79680 20			1	1252	1554	CO	1757
	79685 20			1	928	1227	CO	1767
	79688 20			1	1923	2337	CO	1776
	79691 20			1	1750	1854	CO	1779
	79692 20			1	915	1111	CO	1783
	79695 20			1	1557	1714	CO	1787
	79697 20			1	1318	1646	CO	1790
##	79700 20	11 1	. 24	1	1808	1945	CO	1795

##	79709 2	2011	1	24	1	1438	1615	CO	1821
##	79710 2	2011	1	24	1	1027	1138	CO	1823
##	79713 2	2011	1	24	1	1926	2251	CO	1830
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##	79716 2	2011	1	24	1	1244	1647	CO	1836
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##	79721 2	2011	1	24	1	1320	1704	CO	1850
##	79724 2	2011	1	24	1	1742	1957	CO	1858
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##	79733 2	2011	1	24	1	1803	2006	CO	1889
##	79738 2	2011	1	23	7	926	1335	CO	1
##	79743 2	2011	1	23	7	1925	2025	CO	5
##	79744 2	2011	1	23	7	1550	1656	CO	6
##	79754 2	2011	1	23	7	1522	1620	CO	33
##	79756 2	2011	1	23	7	1530	1619	CO	35
##	79762 2	2011	1	23	7	1916	2105	CO	47
	79765 2		1	23	7	743	937	CO	52
	79770 2		1	23	7	1743	1906	CO	59
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	79777 2		1	23	7	601	1015	CO	89
	79781 2		1	23	7	1046	1454	CO	106
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	79792 2		1	23	7	1304	1521	CO	146
	79795 2		1	23	7	2056	2210	CO	150
	79798 2		1	23	7	1452	1826	CO	158
	79803 2		1	23	7	850	1047	CO	170
	79810 2		1	23	7	1926	2244	CO	190
	79815 2		1	23	7	1158	1311	CO	197
	79817 2		1	23	7	552	712	CO	199
##	79820 2		1	23	7	1256	1556	CO	206
##	79822 2		1	23	7	2142	28	CO	209
##	79823 2		1	23	7	1551	2002	CO	210
##	79825 2		1	23	7	1036	1633	CO	212
	79830 2		1	23	7	903	1053	CO	220
	79835 2		1	23	7	1017	1404	CO	226
	79839 2		1	23	7	917	1321	CO	232
	79845 2		1	23	7	1301	1409	CO	241
	79847 2		1	23	7	1543	1919	CO	244
	79850 2		1	23	7	1853	2215	CO	250
	79859 2		1	23	7	1246	1522	CO	267
	79862 2		1	23	7	1126	1350	CO	270
	79863 2		1	23	7	1551	1723	CO	275
				23	7			CO	
	79864 2		1			1144	1246		279
	79869 2		1	23	7 7	1101	1217	CO	297
	79870 2		1	23	7 7	2108	2230	CO	299
	79874 2		1	23	7	848	1121	CO	309
	79875 2		1	23	7	1903	2300	CO	310
	79880 2		1	23	7	1429	1617	CO	320
	79882 2		1	23	7	1309	1417	CO	323
	79884 2		1	23	7	1255	1631	CO	326
##	79895 2	2011	1	23	7	1129	1310	CO	352

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	79905 2		1	23	7	1432	1646	CO	370
	79910 2		1	23	7	1314	1429	CO	379
	79912 2		1	23	7	1052	1509	CO	382
	79918 2		1	23	7	1805	1930	CO	397
##	79920 2	2011	1	23	7	1314	1624	CO	400
##	79922 2	2011	1	23	7	1034	1158	CO	403
##	79923 2	2011	1	23	7	731	1106	CO	404
##	79925 2	2011	1	23	7	1202	1543	CO	406
##	79927 2	2011	1	23	7	805	1209	CO	408
	79929 2		1	23	7	1702	2044	CO	410
	79931 2		1	23	7	1749	2000	CO	421
	79933 2		1	23	7	1923	2042	CO	423
	79934 2		1	23	7	1921	2303	CO	426
	79937 2		1	23	7	1041	1439	CO	432
	79941 2		1	23	7	1904	2034	CO	442
	79941 2		1	23	7	1904	2150	CO	444
	79948 2								
			1	23	7	1305	1640	CO	458
	79952 2		1	23	7	2126	2357	CO	467
	79958 2		1	23	7	1911	2005	CO	479
	79961 2		1	23	7	1304	1735	CO	482
	79966 2		1	23	7	912	1022	CO	497
	79968 2		1	23	7	1152	1314	CO	499
	79969 2		1	23	7	1921	2235	CO	500
	79973 2		1	23	7	856	1301	CO	510
	79974 2		1	23	7	2109	2225	CO	511
	79977 2		1	23	7	1743	1940	CO	520
	79983 2		1	23	7	1324	1738	CO	532
	79984 2		1	23	7	1310	1643	CO	534
	79988 2		1	23	7	930	1142	CO	542
##	79989 2	2011	1	23	7	738	1104	CO	544
##	79990 2	2011	1	23	7	1145	1411	CO	546
##	79999 2	2011	1	23	7	1612	1959	CO	558
##	80004 2	2011	1	23	7	1754	1958	CO	570
##	80009 2	2011	1	23	7	1855	2314	CO	582
##	80010 2	2011	1	23	7	748	1051	CO	586
##	80016 2	2011	1	23	7	2120	2231	CO	597
##	80018 2	2011	1	23	7	1421	1548	CO	599
	80020 2		1	23	7	1303	1429	CO	601
	80022 2		1	23	7	1536	1834	CO	606
	80025 2		1	23	7	1927	2209	CO	616
	80029 2		1	23	7	1431	1536	CO	623
	80033 2		1	23	7	1545	2004	CO	632
	80036 2		1	23	7	1854	2208	CO	644
	80040 2		1	23	7	1922	2306	CO	658
	80043 2		1	23	7	1123	1308	CO	663
	80044 2		1	23	7	1733	2006	CO	667
	80047 2		1	23	7	1914	2123	CO	670
	80052 2		1	23	7	1555	2026	CO	682
	80055 2		1	23	7	1031	1339	CO	686
	80060 2		1	23	7	1441	1556	CO	697
	80064 2		1	23	7	1812	2057	CO	709
	80067 2		1	23	7	1135	1233	CO	723
	80074 2		1	23	7	1854	2255	CO	732
11	JUJ 7		-		•	1001		55	. 02

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	80077		1	23	7	1257	1424	CO	738
##	80078	2011	1	23	7	917	1039	CO	739
##	80079	2011	1	23	7	1141	1231	CO	741
##	80080	2011	1	23	7	1309	1637	CO	744
##	80081	2011	1	23	7	1433	1649	CO	746
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	80084		1	23	7	1924	2224	CO	755
	80085		1	23	7	937	1105	CO	756
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##	80094		1	23	7	727	938	CO	771
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##	80107	2011	1	23	7	844	1012	CO	799
	80109		1	23	7	1310	1720	CO	810
	80112		1	23	7	2102	2247	CO	820
	80119		1	23	7	1048	1349	CO	1006
	80120			23	7			CO	1010
			1			1804	2206		
	80128		1	23	7	2057	2314	CO	1046
	80129		1	23	7	726	1046	CO	1048
	80133		1	23	7	847	1213	CO	1058
	80136		1	23	7	1601	1825	CO	1070
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##	80141	2011	1	23	7	1557	1910	CO	1086
##	80143	2011	1	23	7	1301	1636	CO	1088
##	80145	2011	1	23	7	2055	2225	CO	1095
##	80146	2011	1	23	7	731	910	CO	1097
##	80148	2011	1	23	7	1907	2042	CO	1099
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	80160		1	23	7	913	1128	CO	1416
	80161		1	23	7	1916	2245	CO	1417
	80165		1	23	7	2104	2206	CO	1423
	80172		1	23	7	1127	1440	CO	1448
	80176		1	23	7			CO	
						2049	2212		1459
	80184		1	23	7	1023	1416	CO	1476
	80186		1	23	7	2128	2226	CO	1479
	80188		1	23	7	1919	2256	CO	1488
	80191		1	23	7	921	1102	CO	1495
	80193		1	23	7	1602	1738	CO	1497
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	80216		1	23	7	1358	1654	CO	1562
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	80225		1	23	7	855	945	CO	1583
	80227		1	23	7	1920	2228	CO	1586
	80229		1	23					
					7 7	1442	1557	CO	1589
##	80230	2011	1	23	7	723	1043	CO	1590

4444								
	80237 20			7	1755	2145	CO	1603
##	80238 20	011 1	1 23	7	1248	1424	CO	1605
##	80245 20	011 1	1 23	7	1136	1331	CO	1620
##	80246 20	011 1	L 23	7	1418	1546	CO	1621
##	80247 20	011 1	L 23	7	842	945	CO	1623
##	80249 20	011 1	1 23	7	1224	1345	CO	1629
##	80250 20	011 1	L 23	7	1751	2159	CO	1632
##	80254 20	011 1	1 23	7	2055	2327	CO	1644
##	80256 20	011 1	L 23	7	1034	1250	CO	1646
	80257 20	011 1		7	1618	1937	CO	1648
	80261 20			7	1914	2213	CO	1662
	80264 20			7	1750	1850	CO	1674
	80265 20			7	1555	1958	CO	1676
	80267 20			7	924	1022	CO	1679
	80272 20			7	1556	1944	CO	1688
	80273 20			7	1813	1927	CO	1689
	80274 20			7	1046	1354	CO	1690
	80278 20			7	1330	1521	CO	1695
	80283 20			7	1756	1918	CO	1705
	80287 20			7	1916	2103	CO	1711
	80289 20			7	1735	1853	CO	1715
	80291 20			7	2106	2227	CO	1717
	80293 20			7	931	1045	CO	1723
	80296 20			7	2101	2156	CO	1728
	80298 20			7		952	CO	1746
	80299 20			7	724 1902		CO	1748
	80301 20			7	1247	2209 1555	CO	1740
				7	938		CO	1767
	80306 20 80309 20			7	1923	1212 2321	CO	1776
	80312 20			7		1900	CO	1779
					1803			
	80313 20			7	859	1050	CO	1783
	80316 20			7	1551	1725	CO	1787
	80318 20			7	1322	1642	CO	1790
	80321 20			7	1751	1935	CO CO	1795
	80330 20		L 23	7	1437	1609	(:11	1821
	80331 20				4000			4000
			L 23	7	1029	1136	CO	1823
	80334 20	011 1	1 23	7	1920	1136 2231	CO CO	1830
##	80334 20 80336 20	011 1 011 1	L 23 L 23	7 7	1920 1145	1136 2231 1554	CO CO	1830 1832
## ##	80334 20 80336 20 80337 20	011 1 011 1 011 1	23 1 23 1 23	7 7 7	1920 1145 1236	1136 2231 1554 1630	CO CO CO	1830 1832 1836
## ## ##	80334 20 80336 20 80337 20 80338 20	011 1 011 1 011 1 011 1	1 23 1 23 1 23 1 23	7 7 7 7	1920 1145 1236 1437	1136 2231 1554 1630 1800	C0 C0 C0 C0	1830 1832 1836 1844
## ## ## ##	80334 20 80336 20 80337 20 80338 20 80342 20	011 1 011 1 011 1 011 1	23 23 23 23 23 24 23	7 7 7 7	1920 1145 1236 1437 1315	1136 2231 1554 1630 1800 1645	CO CO CO CO	1830 1832 1836 1844 1850
## ## ## ##	80334 20 80336 20 80337 20 80338 20 80342 20 80345 20	011 1 011 1 011 1 011 1 011 1	23 23 23 23 23 23 24 23	7 7 7 7 7	1920 1145 1236 1437 1315 1739	1136 2231 1554 1630 1800 1645 1948	CO CO CO CO CO	1830 1832 1836 1844 1850 1858
## ## ## ## ##	80334 20 80336 20 80337 20 80338 20 80342 20 80345 20 80350 20	011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23 23 23 23 23 23 24 23 24 23	7 7 7 7 7 7	1920 1145 1236 1437 1315 1739 904	1136 2231 1554 1630 1800 1645 1948 1228	CO CO CO CO CO CO	1830 1832 1836 1844 1850 1858 1873
## ## ## ## ## ##	80334 20 80336 20 80337 20 80338 20 80342 20 80345 20 80350 20 80352 20	011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23 23 23 23 23 23 23 24 23 24 23	7 7 7 7 7 7 7	1920 1145 1236 1437 1315 1739 904 1129	1136 2231 1554 1630 1800 1645 1948 1228 1313	CO CO CO CO CO CO CO	1830 1832 1836 1844 1850 1858 1873
## ## ## ## ## ##	80334 20 80336 20 80337 20 80338 20 80342 20 80345 20 80350 20 80352 20 80355 20	011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23 23 23 23 23 23 23 23 24 23 24 23	7 7 7 7 7 7 7	1920 1145 1236 1437 1315 1739 904 1129 1741	1136 2231 1554 1630 1800 1645 1948 1228 1313 1953	CO CO CO CO CO CO CO	1830 1832 1836 1844 1850 1858 1873 1882 1889
## ## ## ## ## ##	80334 20 80336 20 80337 20 80338 20 80342 20 80345 20 80350 20 80355 20 80360 20	011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23 23 23 23 23 23 23 23 23 24 23 24 25	7 7 7 7 7 7 7 7	1920 1145 1236 1437 1315 1739 904 1129 1741 942	1136 2231 1554 1630 1800 1645 1948 1228 1313 1953 1340	CO CO CO CO CO CO CO CO	1830 1832 1836 1844 1850 1858 1873 1882 1889
## ## ## ## ## ## ##	80334 20 80336 20 80337 20 80338 20 80342 20 80345 20 80350 20 80355 20 80360 20 80365 20	011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23 23 23 23 23 23 23 23 23 23 24 22 24	7 7 7 7 7 7 7 7 6 6	1920 1145 1236 1437 1315 1739 904 1129 1741 942 1824	1136 2231 1554 1630 1800 1645 1948 1228 1313 1953 1340 1926	CO CO CO CO CO CO CO CO	1830 1832 1836 1844 1850 1858 1873 1882 1889 1
## ## ## ## ## ## ##	80334 20 80336 20 80337 20 80338 20 80342 20 80345 20 80350 20 80355 20 80365 20 80374 20	011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23 23 23 23 23 23 23 23 23 23 24 22 24 22	7 7 7 7 7 7 7 6 6	1920 1145 1236 1437 1315 1739 904 1129 1741 942 1824 1428	1136 2231 1554 1630 1800 1645 1948 1228 1313 1953 1340 1926 1530	CO CO CO CO CO CO CO CO CO	1830 1832 1836 1844 1850 1858 1873 1882 1889 1 5
## ## ## ## ## ## ##	80334 20 80336 20 80337 20 80338 20 80342 20 80345 20 80350 20 80352 20 80365 20 80365 20 80374 20 80376 20	011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23 23 23 23 23 23 23 23 23 23 23 23 24 22 22 22	7 7 7 7 7 7 7 6 6 6	1920 1145 1236 1437 1315 1739 904 1129 1741 942 1824 1428 1536	1136 2231 1554 1630 1800 1645 1948 1228 1313 1953 1340 1926 1530 1626	CO CO CO CO CO CO CO CO CO	1830 1832 1836 1844 1850 1858 1873 1882 1889 1 5 33
## ## ## ## ## ## ## ##	80334 20 80336 20 80337 20 80342 20 80345 20 80350 20 80352 20 80355 20 80365 20 80374 20 80376 20 80384 20	011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 23 1 23 2 23 1 23 2 23 1 23 2 23 1 23 2 22 1 22 2 22 1 22 2 22 1 22 2 22 1 22 2 22	7 7 7 7 7 7 7 6 6 6 6	1920 1145 1236 1437 1315 1739 904 1129 1741 942 1824 1428 1536 744	1136 2231 1554 1630 1800 1645 1948 1228 1313 1953 1340 1926 1530 1626 913	CO CO CO CO CO CO CO CO CO CO	1830 1832 1836 1844 1850 1858 1873 1882 1889 1 5 33 35 52
## ## ## ## ## ## ## ## ## ## ## ## ##	80334 20 80336 20 80337 20 80342 20 80345 20 80350 20 80352 20 80365 20 80365 20 80374 20 80376 20 80384 20 80389 20	011	1 23 1 23 1 23 1 23 1 23 1 23 1 23 1 23 1 22 1 22 1 22 1 22 1 22 1 22 1 22 2 22 1 22 2 22 1 22 2 22 1 22 2 22 1 22 2 22 1 22 2 <th>7 7 7 7 7 7 7 6 6 6 6 6</th> <th>1920 1145 1236 1437 1315 1739 904 1129 1741 942 1824 1428 1536 744</th> <th>1136 2231 1554 1630 1800 1645 1948 1228 1313 1953 1340 1926 1530 1626 913 1933</th> <th>CO CO CO CO CO CO CO CO CO CO CO</th> <th>1830 1832 1836 1844 1850 1858 1873 1882 1889 1 5 33 35 52</th>	7 7 7 7 7 7 7 6 6 6 6 6	1920 1145 1236 1437 1315 1739 904 1129 1741 942 1824 1428 1536 744	1136 2231 1554 1630 1800 1645 1948 1228 1313 1953 1340 1926 1530 1626 913 1933	CO CO CO CO CO CO CO CO CO CO CO	1830 1832 1836 1844 1850 1858 1873 1882 1889 1 5 33 35 52
## ## ## ## ## ## ## ## ## ## ## ## ##	80334 20 80336 20 80337 20 80338 20 80342 20 80350 20 80352 20 80355 20 80365 20 80365 20 80374 20 80376 20 80384 20 80389 20 80390 20	011	23 23 23 23 23 23 23 23 23 23 23 23 23 2	7 7 7 7 7 7 7 6 6 6 6 6 6	1920 1145 1236 1437 1315 1739 904 1129 1741 942 1824 1428 1536 744	1136 2231 1554 1630 1800 1645 1948 1228 1313 1953 1340 1926 1530 1626 913	CO CO CO CO CO CO CO CO CO CO	1830 1832 1836 1844 1850 1858 1873 1882 1889 1 5 33 35 52
## ## ## ## ## ## ## ## ## ## ## ## ##	80334 20 80336 20 80337 20 80342 20 80345 20 80350 20 80352 20 80365 20 80365 20 80374 20 80376 20 80384 20 80389 20	011	23 23 23 23 23 23 23 23 23 23 23 24 22 22 22 22 22 22 22 22 22 22 22 22	7 7 7 7 7 7 7 6 6 6 6 6 6 6	1920 1145 1236 1437 1315 1739 904 1129 1741 942 1824 1428 1536 744	1136 2231 1554 1630 1800 1645 1948 1228 1313 1953 1340 1926 1530 1626 913 1933	CO CO CO CO CO CO CO CO CO CO CO	1830 1832 1836 1844 1850 1858 1873 1882 1889 1 5 33 35 52

	00400	0011		00	_	1010	1504	~ 0	400
	80400		1	22	6	1048	1524	CO	106
	80406		1	22	6	1510	1648	CO	137
##	80408	2011	1	22	6	1308	1543	CO	146
##	80411	2011	1	22	6	1747	1931	CO	150
##	80417	2011	1	22	6	851	1116	CO	170
##	80423	2011	1	22	6	1931	2241	CO	190
##	80429	2011	1	22	6	1319	1448	CO	197
	80431		1	22	6	551	728	CO	199
	80434		1	22	6	1255	1555	CO	206
	80436		1	22	6	2121	2352	CO	209
	80437		1	22	6	1551	2000	CO	210
	80439		1	22	6	1014	1603	CO	212
	80441		1	22	6	928	1112	CO	220
	80445		1	22	6	1026	1429	CO	226
	80451		1	22	6	1408	1456	CO	241
	80452		1	22	6	1540	1925	CO	244
##	80455	2011	1	22	6	1856	2220	CO	250
##	80457	2011	1	22	6	727	1106	CO	258
##	80461	2011	1	22	6	1240	1526	CO	267
##	80464	2011	1	22	6	1126	1351	CO	270
##	80465	2011	1	22	6	1532	1708	CO	275
##	80468	2011	1	22	6	1140	1246	CO	279
##	80469	2011	1	22	6	734	1204	CO	282
##	80475	2011	1	22	6	1034	1149	CO	297
	80476		1	22	6	2054	2218	CO	299
	80480		1	22	6	858	1137	CO	309
	80481		1	22	6	1928	2333	CO	310
	80486		1	22	6	1445	1636	CO	320
	80488		1	22	6	1319	1421	CO	323
	80490		1	22	6	1318	1706	CO	326
	80494		1	22	6	743	1143	CO	332
##	80499	2011	1	22	6	1227	1713	CO	352
##	80502	2011	1	22	6	1109	1443	CO	358
##	80509	2011	1	22	6	1431	1644	CO	370
##	80513	2011	1	22	6	1314	1414	CO	379
##	80514	2011	1	22	6	1051	1528	CO	382
##	80519	2011	1	22	6	1807	1936	CO	397
##	80522	2011	1	22	6	1204	1545	CO	406
	80523		1	22	6	749	1152	CO	408
	80525		1	22	6	1702	2047	CO	410
	80528		1	22	6	1742	1945	CO	421
	80530		1	22	6	1918	2026	CO	423
	80531		1	22	6	1912	2301	CO	426
	80533		1	22	6	1101	1513	CO	432
	80537		1	22	6	1940	2201	CO	444
	80539		1	22	6	608	844	CO	446
	80543		1	22	6	1252	1639	CO	458
	80546		1	22	6	2120	2358	CO	467
	80552		1	22	6	1913	2020	CO	479
	80553		1	22	6	1306	1733	CO	482
	80557		1	22	6	916	1034	CO	497
	80559		1	22	6	1158	1338	CO	499
	80560		1	22	6	1919	2239	CO	500
##	80564	2011	1	22	6	855	1304	CO	510

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	80565		1	22	6	2052	2207	CO	511
	80568		1	22	6	1743	1927	CO	520
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##	80576	2011	1	22	6	1302	1644	CO	534
##	80579	2011	1	22	6	932	1150	CO	542
##	80580	2011	1	22	6	745	1132	CO	544
##	80581	2011	1	22	6	1152	1436	CO	546
##	80589	2011	1	22	6	1612	1954	CO	558
	80591		1	22	6	913	1054	CO	559
	80595		1	22	6	1804	2024	CO	570
	80598		1	22	6	1855	2318	CO	582
	80599		1	22	6	747	1046	CO	586
	80604		1	22	6	2050	2210	CO	597
	80606		1	22	6	1426	1557	CO	599
##	80608		1	22	6	1310	1504	CO	601
##	80610		1	22	6	1539	1830	CO	606
##	80613		1	22	6	1912	2156	CO	616
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	80618		1	22	6	1543	1947	CO	632
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##	80627	2011	1	22	6	1910	2241	CO	658
##	80630	2011	1	22	6	1129	1320	CO	663
##	80631	2011	1	22	6	1745	2040	CO	667
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##	80638	2011	1	22	6	1034	1341	CO	686
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	80648		1	22	6	722	1023	CO	706
	80649		1	22	6	1834	2054	CO	709
	80654		1	22	6	1135	1247	CO	723
	80661		1	22	6	1845	2301	CO	732
	80665		1	22	6	1231	1351	CO	738
	80666		1	22	6	907	1032	CO	739
	80667		1	22	6	1144	1234	CO ~~	741
	80668		1	22	6	1308	1651	CO	744
	80669		1	22	6	1419	1652	CO	746
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	80672		1	22	6	1920	2207	CO	755
	80675		1	22	6	1654	1752	CO	763
	80676		1	22	6	1453	1726	CO	767
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##	80680	2011	1	22	6	752	1015	CO	771
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##	80686	2011	1	22	6	1116	1512	CO	788
##	80687	2011	1	22	6	1537	1700	CO	795
##	80689	2011	1	22	6	904	1031	CO	799
##	80691	2011	1	22	6	1309	1714	CO	810
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	80714		1	22	6	1603	1811	CO	1070
	80716		1	22	6	1447	1543	CO	1070
	80718		1	22	6	1737	2040	CO	1079
	80720		1	22	6	1302	1657	CO	1088
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	80731		1	22	6	1905	2003	CO	1411
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##	80734	2011	1	22	6	1908	2255	CO	1417
##	80738	2011	1	22	6	2101	2203	CO	1423
##	80740	2011	1	22	6	1226	1541	CO	1427
##	80745	2011	1	22	6	1043	1409	CO	1448
	80748		1	22	6	1056	1411	CO	1462
	80754		1	22	6	1027	1430	CO	1476
	80756		1	22	6	2107	2203	CD	1479
##	80760		1	22	6	923	1107	CO	1495
##	80763		1	22	6	1900	2153	CO	1506
##	80768		1	22	6	1427	1518	CO	1541
##	80769		1	22	6	1012	1349	CO	1544
##	80771		1	22	6	1728	1942	CO	1546
##	80773	2011	1	22	6	1317	1638	CO	1548
##	80777	2011	1	22	6	1320	1623	CO	1562
##	80779	2011	1	22	6	1850	2050	CO	1568
##	80786	2011	1	22	6	854	958	CO	1583
##	80788	2011	1	22	6	1855	2202	CO	1586
##	80790	2011	1	22	6	1441	1555	CO	1589
##	80791	2011	1	22	6	727	1100	CO	1590
##	80799	2011	1	22	6	1750	1837	CO	1603
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	80807		1	22	6	1135	1321	CO	1620
	80808		1	22	6	1415	1525	CO	1621
	80809		1	22	6	838	937	CD	1623
	80812		1	22	6	2048	2257	CO	1644
	80814		1	22	6	1028	1306	CO	1646
	80815		1	22	6	2101	2155	CO	1647
	80816		1	22	6	1603	1922	CO	1648
	80819		1	22	6	1922	2218	CO	1662
##	80821	2011	1	22	6	1747	1900	CO	1674
##	80824	2011	1	22	6	920	1022	CO	1679
##	80827	2011	1	22	6	1757	1923	CO	1689
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##	80835	2011	1	22	6	1735	1848	CO	1705
	80839		1	22	6	1852	2016	CO	1711
	80841		1	22	6	912	1127	CO	1714
	80842		1	22	6	1733	1843	CO	1715
	80844		1	22	6	2053	2207	CO	1717
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	80846		1	22	6	1201	1348	CD	1719
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	80852		1	22	6	724	1010	CO	1746
	80853		1	22	6	1911	2232	CO	1748
	80857		1	22	6	929	1238	CO	1767
	80860		1	22	6	1913	2310	CO	1776
	80863		1	22	6	1741	1836	CO	1779
	80864		1	22	6	856	1053	CO	1783
	80866		1	22	6	1554	1705	CO	1787
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	80909		1	21	5	1552	1657	CO	6
	80919		1	21	5	1533	1631	CO	33
	80921		1	21	5	1534	1629	CO	35
	80929		1	21	5	1910	2052	CO	47
	80932				5		922	CO	52
	80937		1	21		742			
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	80938		1	21	5	1306	1750	CO	60
	80940		1	21	5	1510	1902	CO	62
	80946		1	21	5	559	1004	CO	89
	80949		1	21	5	1051	1520	CO	106
	80958		1	21	5	1429	1559	CO	137
	80960		1	21	5	1304	1538	CO	146
	80963		1	21	5	2057	2239	CO	150
	80966		1	21	5	1445	1824	CO	158
	80971		1	21	5	855	1109	CO	170
	80978		1	21	5	1920	2246	CO	190
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##	80991	2011	1	21	5	1302	1609	CO	206
##	80994	2011	1	21	5	2119	11	CO	209
##	80995	2011	1	21	5	1554	2024	CO	210
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##	81003	2011	1	21	5	907	1109	CO	220
##	81009	2011	1	21	5	1033	1426	CO	226
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	81036		1	21	5	1236	1528	CO	267
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	81040		1	21	5	1556	1737	CO	275
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	81059		1	21	5	1902	2325	CO	310
	81064		1	21	5	1439	1631	CO	320
	81066		1	21	5	1311	1416	CO	323
	81068		1	21	5	1254	1640	CO	326
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	81072		1	21	5	1031	1405	CO	352 358
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	81111 201		21	5	724	1114	CO	404
	81113 201		21	5			CO	406
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	81115 201		21	5	747	1148	CO	408
	81117 201		21	5	1700	2043	CO	410
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	81133 201		21	5	555	822	CO	446
	81138 201							
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	81142 201		21	5	2113	2359	CO	467
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	81179 201		21	5	1416	1835	CO	532
	81180 201		21	5	1300	1638	CO	534
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	81223 201		21	5	1615	1918	CO	606
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	81271 201		21	5	1805	2116	CO	709

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πĦ	01-400 ZU	1	21	3	1000	2144	CU	1000

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	81468 20			5	1231	1346	CO	1629
	81469 20			5	1911	2352	CO	1632
	81472 20			5	847	1025	CO	1639
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	81511 20			5	1728	1900	CO	1715
	81512 20			5	2101	2220	CO	1717
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	81519 20			5	810	1028	CO	1746
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	81563 20			5	1251	1616	CO	1850
	81566 20			5	1732	1951	CO	1858
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	81723 20			4	1141	1250	CO	279
	81724 20			4	736	1154	CO	282
	81731 20			4	1047	1158	CO	297
	81733 20			4	2106	2238	CO	299
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	81744 20			4	1509	1716	CO	320
	81746 20			4	NA	NA	CO	323
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	81752 20 81763 20			4	741	1139	CO CO	332
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	81820		1	20	4	1249	1635	CO	458
	81824		1	20	4	2127	53	CO	467
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	81833		1	20	4	1315	1751	CO	482
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	81854		1	20	4	1747	1941	CO	520
	81860		1	20	4	1322	1814	CO	532
	81861		1	20	4	1259	1631	CO	534
	81866		1	20	4	938	1147	CO	542
	81867		1	20	4	639	1013	CO	544
	81868								
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	81878		1	20	4	1612	2008	CO	558
	81885		1	20	4	1803	2035	CO	570
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##	81902	2011	1	20	4	1305	1451	CO	601
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	81917		1	20	4	1606	2039	CO	632
	81921		1	20	4	1924	2307	CO	644
	81926		1	20	4	1915	2313	CO	658
	81929		1	20	4	1126	1314	CO	663
	81930		1	20	4	1807	2132	CO	667
	81933		1	20	4	1854	2115	CO	670
	81938		1	20	4	1551	2038	CO	682
	81941		1	20	4	1038	1351	CO	686
	81947		1	20	4	1444	1635	CO	697
	81951		1	20	4	750	1042	CO	706
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	81969		1	20	4	1308	1723	CO	744
	81970		1	20	4	1436	1721	CO	746
	81971		1	20	4	2145	21	CO	752
	81973		1	20	4	1952	2301	CO	755
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	81974 20			20	4	911	1044	CO	756
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##	81983 20	011	1	20	4	727	943	CO	771
##	81984 20	011	1	20	4	726	1118	CO	776
##	81989 20	011	1	20	4	1336	1730	CO	786
##	81991 20	011	1	20	4	1011	1345	CO	788
	81994 20			20	4	1628	1836	CO	795
	81997 20			20	4	842	1011	CO	799
	82003 20			20	4	1319	1749	CO	810
	82008 20			20	4	2118	2307	CO	820
	82014 20			20	4	1124	1413	CO	1006
	82015 20			20	4	1804	2210	CO	1010
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##	82053 20	011	1	20	4	1911	2024	CO	1411
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	82068 20			20	4	1039	1349	CO	1448
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	82074 20			20	4	1056	1402	CO	1462
	82081 20			20	4	1020	1405	CO	1476
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	82104 20			20	4	1429	1538	CO	1541
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	82107 20			20	4	1750	2027	CO	1546
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##	82341	2011	1	19	3	1019	1150	CO	199
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	82469		1	19	3	1852	2022	CO	442
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	82684		1	19	3	1901	2031	CO	1099
	82692		1	19	3	1906	2003	CO	1411
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	82732 2		1	19	3	2116	2206	CO	1533
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	83302 2		1	18	2	913	1132	CO	1416
	83303 2			18	2	1859	2253	CO	1417
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##	83407 2	011	1	18	2	1542	1936	CO	1688
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	83417 2			18	2	1733	1848	CO	1705
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	83543 2			17	1	1734	1857	CO	150
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	83622 2		1	17	1	1143	1242	CO	279
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	83632 2			17					299
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	83637 2		1	17	1	844	1136	CO	309
	83638 2		1	17	1	1952	1	CO	310
	83642 2		1	17	1	1445	1635	CO	320
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##	83662 2	2011	1	17	1	1033	1425	CO	358
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	83844		1	17	1	1439	1607	CO	697
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	83864		1	17	1	906	1038	CO	739
	83865		1	17	1	1143	1236	CO	741
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	84347 2		1	16	7	1910	2107	CO	421
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	84427 2		1	16	7	1925	2352	CO	582
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	84436 2		1	16	7	1429	1556	CO	599
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	84462 2		1	16	7	1757	2100	CO	667
	84465 2		1	16	7	1901	2107	CO	670
	84470 2		1	16	7	1558	2031	CO	682
	84473 2		1	16	7	1033	1341	CO	686
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##	84478 20	011 1	16	7	1448	1558	CO	697
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	84492 20		16	7	1914	2340	CO	732
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	84568 20			7	1859	2035	CO	1099
	84577 20			7	1923	2015	CO	1411
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	84796 20		15	6	1537	1636	CO	35
	84804 20		15	6	742	905	CO	52

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	84812		1	15	6	1512	1917	CO	62
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	84831		1	15	6	1741	1853	CO	150
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	84914		1	15	6	745	1212	CO	332
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	86574		1	13	4	847	1015	CO	1639
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	86613		1	13	4	1730	1854	CO	1715
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	86659		1	13	4	1140	1558	CO	1832
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	86661		1	13	4	1435	1828	CO	1844
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	86678		1	13	4	1958	2155	CO	1889
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	86711		1	12	3	747	918	CO	52

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	86717		1	12	3	NA	NA	CO	60
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	86739		1	12	3	1441	1615	CO	137
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	86757		1	12	3	1924	2240	CO	190
	86761		1	12	3	731	914	CO	199
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	86769		1	12	3	2123	5	CO	209
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##	86826	2011	1	12	3	1914	2323	CO	310
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##	86831	2011	1	12	3	1312	1416	CO	323
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##	86849	2011	1	12	3	1032	1409	CO	358
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##	86875	2011	1	12	3	757	1219	CO	408
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	86882		1	12	3	1926	2317	CO	426
	86885		1	12	3	1040	1448	CO	432
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	86890		1	12	3	1927	2157	CO	444
	86892		1	12	3	709	937	CO	446
	86897		1	12	3	1256	1634	CO	458
	86901		1	12	3	2117	2	CO	467
	86907		1	12	3	1917	2025	CO	479
	86908		1	12	3	NA	NA	CO	482
	86912		1	12	3	905	1028	CO	497
	86914		1	12	3	1923	2258	CO	500
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	86920 2		1	12	3	NA	NA	CO	510
	86921 2		1	12	3	2123	2237	CO	511
	86927 2		1	12	3	1746	1941	CO	520
	86933 2		1	12	3	NA	NA	CO	532
	86934 2		1	12	3	1306	1648	CO	534
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	86941 2		1	12	3	1142	1409	CO	546
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##	86959 2	2011	1	12	3	1745	2001	CO	570
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##	87000 2	2011	1	12	3	1006	1154	CO	663
##	87002 2	2011	1	12	3	1735	2020	CO	667
##	87005 2	2011	1	12	3	1858	2100	CO	670
##	87009 2	2011	1	12	3	NA	NA	CO	682
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##	87020 2	2011	1	12	3	1917	2213	CO	709
##	87029 2	2011	1	12	3	1921	2329	CO	732
##	87033 2	2011	1	12	3	904	1035	CO	739
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	87045 2		1	12	3	2105	2306	CO	770
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##	87101 201	1 1	12	3	2109	2233	CO	1095
##	87102 2013	1 1	12	3	730	904	CO	1097
##	87104 2013	1 1	12	3	1926	2058	CO	1099
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	87140 2013		12	3	1921	2312	CO	1488
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	87155 201:		12	3	1422	1517	CO	1541
	87156 2013		12	3	1006	1350	CD	1544
	87158 201							
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	87160 201:		12	3	1314	1630	CO	1548
	87164 201:		12	3	1754	1851	CO	1558
	87168 2013		12	3	1328	1630	CO	1562
	87170 2013		12	3	1848	2049	CO	1568
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	87198 201:		12	3	1734	2144	CO	1632
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	87203 2013		12	3	1030	1255	CO	1646
	87204 201							
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	87208 2013		12	3	1910	2213	CO	1662
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	87238 2013		12	3	1735	1854	CO	1715
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	87276 20							
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	87292 20			3	1006	1206	CO	1882
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##	87317 20	1 1	11	2	1538	1631	CO	35
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	87332 20			2	1743	1935	CO	59
	87333 20			2	1234	1704	CO	60
	87335 20			2				62
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	87345 20			2	1045	1501	CO	106
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##	87355 20)11 1	11	2	1459	1643	CO	137
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	87373 20			2	2001	2315	CO	190
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	87382 20			2	1258	1610	CO	206
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	87410 20			2	1303	1355	CO	241
	87412 20			2	1547	1927	CO	244
	87415 20			2			CO	250
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	87452 20			2	742	1156	CO	332
	87461 20			2	1153	1322	CO	352
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	87588		1	11	2	1316	1452	CO	601
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	87597		1	11	2	1436	1553	CO	623
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	87606		1	11	2	1854	2234	CO	644
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	87612		1	11	2	1000	1200	CO	663
	87614		1	11	2	1738	2043	CO	667
	87620		1	11	2	1551	2008	CO	682
	87626		1	11	2	1441	1612	CO	697
	87630		1	11	2	745	1049	CO	706
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	87640		1	11	2	NA	NA	CO	732
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	87712 201		11		728		CO	
	87714 201		11	2	1859	2030	CO	1099
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	87866 201		11	2	934	1231	CD	1767
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	87921 201		10	1	1559	1659	CO	6
	87930 201		10	1	1542	1650	CD	33
	87932 201		10	1	1534	1621	CO	35
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	87948 201		10	1	1737	1929	CO	59
	87949 201		10	1	1210	1643	CO	60
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	87975 201		10	1	1741	1923	CO	150
	87978 201		10	1	1444	1826	CO	158
	87983 201		10	1	850	1126	CO	170
	87990 201		10	1	2009	2318	CO	190
	87995 201		10	1	1154	1333	CO	197
	87997 201		10	1	729	912	CO	199
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	88014		1	10	1	909	1116	CO	220
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	88024		1	10	1	938	1407	CO	232
	88032		1	10	1	1304	1404	CO	241
	88034		1	10	1	1550	1921	CO	244
	88037		1	10	1	NA	NA	CO	250
	88044		1	10	1	749	1128	CO	258
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	88055		1	10	1	1151	1258	CO	279
	88056		1	10	1	736	1206	CO	282
	88064		1	10	1	1037	1234	CO	297
	88066		1	10	1	2057	2222	CO	299
	88071		1	10	1	902	1153	CO	309
	88072		1	10	1	1936	2349	CO	310
	88076		1	10	1	1432	1628	CO	320
	88078		1	10	1	1315	1418	CO	323
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	88084		1	10	1	753	1208	CO	332
	88096		1	10	1	1033	1425	CO	358
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	88120		1	10	1	1317	1637	CO	400
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	88123		1	10	1	730	1125	CO	404
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	88145		1	10	1	555	815	CO	446
	88150		1	10	1	1257	1645	CO	458
	88154		1	10	1	2138	22	CO	467
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	88170		1	10	1	1159	1351	CO	499
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	88191		1	10	1	1319	1754	CO	532
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	88197		1	10	1	937	1205	CO	542
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	88243		1	10	1	1430	1539	CO	623
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	88249		1	10	1	1555	2008	CO	632
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	88261		1	10	1	1124	1317	CO	663
	88262		1	10	1	1732	2023	CO	667
	88269		1	10	1	1727	2153	CO	682
	88272		1	10	1	1036	1357	CO	686
	88278		1	10	1	1440	1629	CO	697
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	88283		1	10	1	1816	2124	CO	709
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	88293		1	10	1	1902	2302	CO	732
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	88410		1	10	1	1042	1456	CO	1476
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	88420		1	10	1	1754	2142	CO	1499
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	88487		1	10	1	1604	1913	CO	1648
	88491		1	10	1	1907	2207	CO	1662
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	88495		1	10	1	1556	1956	CO	1676
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	88625		1	9	7	1211	1622	CO	60
	88627		1	9	7	1451	1901	CO	62
	88631		1	9	7	601	1004	CO	89
	88635		1	9	7	1129	1534	CO	106
	88640		1	9	7	730	828	CO	128
	88644		1	9	7	1444	1633	CO	137
	88646		1	9	7	1318	1532	CO	146
	88649		1	9	7	2100	2246	CO	150
	88652		1	9	7	1459	1841	CO	158
	88657		1	9	7	909	1128	CO	170
	88668		1	9	7	2000	2313	CO	190
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	88680		1	9	7	2220	47	CO	209
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	88683		1	9	7	1115	1710	CO	212
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	88697		1	9	7	920	1344	CO	232
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	88757		1	9	7	1048	1427	CO	358
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	88779		1	9	7	1321	1618	CO	400
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	88832		1	9	7	907	1325	CO	510
	88833		1	_	7				511
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	88882		1	9	7	1612	1912	CO	606
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##	88889	2011	1	9	7	1531	1635	CO	623

##	88893	2011	1	9	7	1603	2018		CO	632
##	88896	2011	1	9	7	2019	2349		CO	644
##	88900	2011	1	9	7	1919	2309		CO	658
##	88903	2011	1	9	7	1126	1302		CO	663
##	88904	2011	1	9	7	1744	2021		CO	667
##	88907	2011	1	9	7	1938	2228		CO	670
##	88912	2011	1	9	7	1625	2059		CO	682
##	88915	2011	1	9	7	1041	1352		CO	686
##	88920	2011	1	9	7	1444	1616		CO	697
##	88924	2011	1	9	7	1811	2101		CO	709
##	88927	2011	1	9	7	1149	1245		CO	723
##	88934	2011	1	9	7	1949	13		CO	732
	88937		1	9	7	1248	1410		CO	738
	88938		1	9	7	908	1026		CO	739
	88939		1	9	7	1154	1248		CO	741
	88940		1	9	7	1307	1624		CO	744
	88941		1	9	7	1446	1700		CO	746
	88942		1	9	7	2201	9		CO	752
	88944		1	9	7	NA	NA		CO	755
	88945		1	9	7	918	1055		CO	756
	88949		1	9	7	1658	2045		CO	763
	88950		1	9	7	1509	1746		CO	767
	88953		1	9	7	2110	2353		CO	770
	88954		1	9	7	727	943		CO	771
	88959		1	9	7	1349	1656		CO	786
	88961		1	9	7	1108	1439		CO	788
	88964		1	9	7	1558	1757		CO	795
	88967		1	9	7	852	1014		CO	799
	88970		1	9	7	1321	1758		CO	810
	88974		1	9	7	2114	2319		CO	820
	88981		1	9	7	1100	1400		CO	1006
	88982		1	9	7	1804	2211		CO	1010
	88990		1	9	7	2109	2319		CO	1046
	88991		1	9	7	723	1031		CO	1048
	88995		1	9	7	852	1233		CO	1058
##	88998		1	9	7	1606	1852		CO	1070
##	89001		1	9	7	1522	1623		CO	1079
	89003		1	9	7	1654	2000		CO	1086
	89005		1	9	7	1310	1644		CO	1088
	89007		1	9	7	2110	2306		CO	1095
	89008		1	9	7	731	830		CO	1097
	89010		1	9	7	1924	2112		CO	1099
	89019		1	9	7	1921	2015		CO	1411
	89022		1	9	7	927	1142		CO	1416
	89023		1	9	7	1927	2311		CO	1417
	89027		1	9	7	2113	2217		CO	1423
	89034		1	9	7	1047	1404		CO	1448
	89038		1	9	7	2100	2255		CO	1459
	89046		1	9	7	1047	1443		CO	1476
	89048		1	9	7	2106	2202		CO	1479
##			ActualEla					Origin		
	5424	N576AA		60	40	-10	0	IAH		224
	5425	N557AA		60	45	-9	1	IAH	DFW	224
	5426	N541AA		70	48	-8	-8	IAH	DFW	224
	-	·				•	J	·		-

##	5427	N403AA	70	39	3	3	IAH	DFW	224
##	5428	N492AA	62	44	-3	5	IAH	DFW	224
##	5429	N262AA	64	45	-7	-1	IAH	DFW	224
##	5430	N493AA	70	43	-1	-1	IAH	DFW	224
##	5431	N477AA	59	40	-16	-5	IAH	DFW	224
##	5432	N476AA	71	41	44	43	IAH	DFW	224
##	5433	N504AA	70	45	43	43	IAH	DFW	224
##	5434	N565AA	70	42	29	29	IAH	DFW	224
##	5435	N577AA	56	41	5	19	IAH	DFW	224
##	5436	N476AA	63	44	-9	-2	IAH	DFW	224
##	5437	N552AA	67	47	-6	-3	IAH	DFW	224
##	5438	N462AA	60	44	-11	-1	IAH	DFW	224
##	5439	N555AA	70	41	-1	-1	IAH	DFW	224
##	5440	N518AA	64	48	84	90	IAH	DFW	224
##	5441	N507AA	60	42	-2	8	IAH	DFW	224
##	5442	N523AA	67	46	-7	-4	IAH	DFW	224
##	5443	N425AA	75	42	72	67	IAH	DFW	224
##	5444	N251AA	62	47	-11	-3	IAH	DFW	224
##	5445	N551AA	61	44	-14	-5	IAH	DFW	224
##	5446	N479AA	65	40	-9	-4	IAH	DFW	224
##	5447	N531AA	77	43	3	-4	IAH	DFW	224
##	5448	N561AA	60	40	-18	-8	IAH	DFW	224
##	5449	N541AA	62	40	-15	-7	IAH	DFW	224
##	5450	N512AA	62	40	-12	-4	IAH	DFW	224
##	5451	N4UBAA	66	46	-5	-1	IAH	DFW	224
	5452	N491AA	60		-15	-5	IAH	DFW	224
##	5453	N561AA	57		-14	-1	IAH	DFW	224
##	5454	N505AA	72	39	43	41	IAH	DFW	224
##	6343	N520AA	72	41	5	8	IAH	DFW	224
##	6344	N537AA	62	43	-14	-1	IAH	DFW	224
##	6345	N512AA	77	46	-1	-3	IAH	DFW	224
##	6346	N478AA	67	46	-14	-6	IAH	DFW	224
##	6347	N551AA	64	44	-13	-2	IAH	DFW	224
##	6348	N251AA	62	44	-14	-1	IAH	DFW	224
##	6349	N478AA	76	42	-8	-9	IAH	DFW	224
##	6350	N550AA	52	40	-30	-7	IAH	DFW	224
##	6351	N586AA	75	51	-6	-6	IAH	DFW	224
##	6352	N587AA	63	44	-17	-5	IAH	DFW	224
##	6353	N574AA	63	44	-15	-3	IAH	DFW	224
##	6354	N580AA	60	42	-21	-6	IAH	DFW	224
##	6355	N586AA	79	49	6	2	IAH	DFW	224
##	6356	N468AA	73	47	-7	-5	IAH	DFW	224
##	6357	N251AA	74	49	-2	-1	IAH	DFW	224
##	6358	N546AA	60	45	8	23	IAH	DFW	224
##	6359	N559AA	78	54	7	4	IAH	DFW	224
##	6360	N558AA	66	46	-8	1	IAH	DFW	224
##	6361	N574AA	79	51	-2	-6	IAH	DFW	224
##	6362	N471AA	63	44	-13	-1	IAH	DFW	224
	6363	N278AA	59		-24	-8	IAH	DFW	224
	6364	N499AA	72		-6	-3	IAH	DFW	224
	6365	N556AA	64		-21	-10	IAH	DFW	224
	6366	N545AA	93		29	11	IAH	DFW	224
	6367	N541AA	59		-17	-1	IAH	DFW	224
	6368	N512AA	68		-11	-4	IAH	DFW	224

##	6369	N4UCAA	70	44	-10	-5	IAH	DFW	224
##	6370	N403AA	65	44	11	21	IAH	DFW	224
##	6371	N557AA	65	43	-10	0	IAH	DFW	224
##	6372	N498AA	64	44	-15	-4	IAH	DFW	224
##	6373	N493AA	58	40	-19	-2	IAH	DFW	224
##	8186	N461AA	67	44	-14	-6	IAH	DFW	224
##	8187	N4XGAA	69	48	-13	-7	IAH	DFW	224
##	8188	N4XGAA	67	42	47	55	IAH	DFW	224
##	8189	N546AA	68	44	-14	-7	IAH	DFW	224
##	8190	N485AA	68	41	-17	-10	IAH	DFW	224
##	8191	N555AA	57	44	-25	-7	IAH	DFW	224
	8192	N4WYAA	70	44	35	40	IAH	DFW	224
	8193	N577AA	64	43	13	24	IAH	DFW	224
	8194	N505AA	58	44	-29	-12	IAH	DFW	224
	8195	N555AA	58	39	- 7	10	IAH	DFW	224
	8196	N4XCAA	56	44	-4	15	IAH	DFW	224
	8197	N549AA	70	45	69	74	IAH	DFW	224
	8198	N478AA	83	42	-1	-9	IAH	DFW	224
	8199	N492AA	61	44	11	25	IAH	DFW	224
	8200	N514AA	69	44	-14	-8	IAH	DFW	224
	8201	N550AA	54	44	3	24	IAH	DFW	224
	8202	N512AA	77	45	1	-1	IAH	DFW	224
	8203	N505AA	58	45	14	31	IAH	DFW	224
	8204	N530AA	56	39	-23	-4	IAH	DFW	224
	8205	N4XJAA	56	41	19	38	IAH	DFW	224
	8206	N585AA	63	44	-13	-1	IAH	DFW	224
	8207	N403AA	54	39	-17	4	IAH	DFW	224
	8208	N506AA	51	40	10	34	IAH	DFW	224
	8209	N466AA	61	42	-20	-6	IAH	DFW	224
	8210	N455AA	93	43	12	-6	IAH	DFW	224
	8211	N477AA	71	38	-15	-11	IAH	DFW	224
	19266	N4WVAA	65	37	-9	1	IAH	DFW	224
	19267	N579AA	83	46	14	6	IAH	DFW	224
	19268	N468AA	75	47	- 7	-7	IAH	DFW	224
	19269	N4WYAA	63	43	-13	-1	IAH	DFW	224
	19270	N481AA	71	43	- 5	-1	IAH	DFW	224
	19271	N498AA	67	43	-13	-5	IAH	DFW	224
	19272	N525AA	63	43	-12	0	IAH	DFW	224
	19273	N583AA	69	45	-9	-3	IAH	DFW	224
	19274	N574AA	76	50	126	125	IAH	DFW	224
	19275	N531AA	61	41	-5	9	IAH	DFW	224
	19276	N586AA	63	41	70	82	IAH	DFW	224
	19277	N468AA	68	44	-6	1	IAH	DFW	224
	19278	N583AA	63	45	-12	0	IAH	DFW	224
	19279	N551AA	65	47	-11	-1	IAH	DFW	224
	19280	N274AA	64	48	-9	2	IAH	DFW	224
	19281	N558AA	71	42	34	38	IAH	DFW	224
	19282	N580AA	71 72	51	-1	2	IAH	DFW DFW	224
	19282	N515AA	7 <i>2</i> 75	45	-1 -5	-5	IAH	DFW DFW	224
	19283		75 62	45 46			IAH		
	19284	N538AA			-14 7	-1 11		DFW	224
		N586AA	71 69	41 47	, 1	11 8	IAH	DFW	224
	19286	N558AA	68 70				IAH	DFW	224
	19287	N504AA	79 76	47 44	-3 -7	-7 -0	IAH	DFW	224
##	19288	N489AA	76	44	- 7	-8	IAH	DFW	224

##	19289	N484AA	88	43	4	-9	IAH	DFW	224
##	19290	N4UCAA	66	41	-12	-3	IAH	DFW	224
##	19291	N556AA	71	41	0	4	IAH	DFW	224
##	19292	N557AA	66	43	-5	4	IAH	DFW	224
##	19293	N553AA	65	44	-15	-5	IAH	DFW	224
##	19294	N584AA	61	47	-14	0	IAH	DFW	224
##	19295	N403AA	58	39	-12	5	IAH	DFW	224
##	19296	N455AA	62	41	13	26	IAH	DFW	224
##	23655	N3DGAA	136	113	-3	1	IAH	MIA	964
##	23656	N3CCAA	129	112	17	28	IAH	MIA	964
##	23657	N3ARAA	131	112	-9	0	IAH	MIA	964
##	23658	N3DFAA	145	108	7	2	IAH	MIA	964
##	23659	N3BDAA	129	107	-15	-4	IAH	MIA	964
##	23660	N3CMAA	154	106	5	-9	IAH	MIA	964
##	23661	N3CYAA	131	107	-7	2	IAH	MIA	964
##	23662	NSAXAA	131	107	-15	-6	IAH	MIA	964
##	23663	NSAUAA	133	110	8	15	IAH	MIA	964
##	23664	N3BXAA	121	107	80	99	IAH	MIA	964
##	23665	N3CWAA	128	111	41	53	IAH	MIA	964
	23666	N3DFAA	134	117	-13	-7	IAH	MIA	964
	23667	N3DLAA	159	110	12	-7	IAH	MIA	964
	23668	N3CUAA	127	110	-14	-1	IAH	MIA	964
	23669	N3AXAA	130	111	-16	-6	IAH	MIA	964
	23670	N3CXAA	150	113	22	12	IAH	MIA	964
	23671	N3CEAA	138	117	6	8	IAH	MIA	964
	23672	N3BLAA	135	114	39	44	IAH	MIA	964
	23673	N3CWAA	132	110	-12	-4	IAH	MIA	964
	23674	N3CWAA	144	111	-1	-5	IAH	MIA	964
	23675	N3BCAA	135	110	18	23	IAH	MIA	964
	23676	N3BYAA	125	109	-20	- 5	IAH	MIA	964
	23677	N3DCAA	140	107	-2	-2	IAH	MIA	964
	23678	N3GJAA	138	113	31	33	IAH	MIA	964
	23679	N3BFAA	148	129	3	- 5	IAH	MIA	964
	23680	N3BXAA	126	111	56	70	IAH	MIA	964
	23681	N3CFAA	137	106	14	17	IAH	MIA	964
	23682	N3BLAA	138	108	-7	- 5	IAH	MIA	964
	23683	N3BXAA	129	105	-13	-2	IAH	MIA	964
	23684	N3CPAA	133	108	54	61	IAH	MIA	964
	23685	NSDJAA	124	104	-14	2	IAH	MIA	964
	27063	N480AA	66	44	-12	-3	IAH	DFW	224
	27064	N497AA	60	43	5	20	IAH	DFW	224
	27065	N548AA	63	40	-6	6	IAH	DFW	224
	27066	N4WUAA	68	42	-10	-3	IAH	DFW	224
	27067	N531AA	68	40	-13	-6	IAH	DFW	224
	27068	N591AA	92	45	48	31	IAH	DFW	224
	27069	N425AA	64	43	-20	-9	IAH	DFW	224
			60		-20 -16		IAH		
	27070 27071	N499AA N251AA	75	41 45	-16	-1 -3	IAH	DFW DFW	224 224
	27072	N552AA	69	45	-13	-7	IAH	DFW	224
	27073	N545AA	70	49	15	20	IAH	DFW	224
	27074	N262AA	67	42	5	13	IAH	DFW	224
	27075	N474AA	72	45	3	6	IAH	DFW	224
	27076	N4XJAA	71	42	-7	-3	IAH	DFW	224
##	27077	N538AA	79	50	12	8	IAH	DFW	224

	27078	N567AA	65	42	-8	2	IAH	DFW	224
	27079	N485AA	66	38	-18	-9	IAH	DFW	224
	27080	N486AA	68	44	-7	0	IAH	DFW	224
	27081	N499AA	63	46	-14	-2	IAH	DFW	224
	27082	N425AA	65	44	-13	-3	IAH	DFW	224
	27083	N517AA	73	44	29	31	IAH	DFW	224
	33051	N3DAAA	155	117	7	-8	IAH	MIA	964
	33052	N3ASAA	133	112	-19	-12	IAH	MIA	964
	33053	N3CBAA	125	111	-17	-2	IAH	MIA	964
	33054	N3BAAA	127	109	-7	6	IAH	MIA	964
	33055	N3CDAA	130	108	-9	1	IAH	MIA	964
	33056	N3CUAA	122	105	-18	0	IAH	MIA	964
	33057	N3BCAA	126	107	-24	-10	IAH	MIA	964
	33058	NSAHAA	125	106	-16	-1	IAH	MIA	964
	33059	N3CPAA	129	110	-2	9	IAH	MIA	964
	33060	N3AKAA	156	132	34	18	IAH	MIA	964
	33061	N3ALAA	140	115	74	74	IAH	MIA	964
	33062	N3BJAA	128	113	-13	-1	IAH	MIA	964
##	33063	N3BCAA	128	108	-14	-2	IAH	MIA	964
##	33064	NSAUAA	123	110	-13	4	IAH	MIA	964
##	33065	N3DEAA	138	114	0	2	IAH	MIA	964
##	33066	N3BJAA	131	118	-8	1	IAH	MIA	964
##	33067	N3BUAA	133	113	-8	-1	IAH	MIA	964
##	33068	N3ARAA	135	118	-8	-3	IAH	MIA	964
##	33069	N3BXAA	135	114	-9	-4	IAH	MIA	964
##	33070	N3CKAA	130	107	-15	-5	IAH	MIA	964
##	33071	N3APAA	128	110	-15	-3	IAH	MIA	964
##	33072	N3CPAA	139	112	5	6	IAH	MIA	964
##	33073	N3CNAA	135	108	-13	-8	IAH	MIA	964
##	33074	N3BGAA	NA	NA	NA	NA	IAH	MIA	964
##	33075	N3BFAA	134	112	14	20	IAH	MIA	964
##	33076	N3BLAA	134	110	-11	-5	IAH	MIA	964
##	33077	N3AJAA	138	108	-5	-3	IAH	MIA	964
##	33078	N3DDAA	118	104	-22	0	IAH	MIA	964
##	33079	N3FYAA	131	108	-14	-5	IAH	MIA	964
##	33080	N3DCAA	125	106	-16	-1	IAH	MIA	964
##	33081	N3FRAA	143	100	-4	-7	IAH	MIA	964
##	35256	N593AA	74	39	15	6	IAH	DFW	224
##	35257	N589AA	63	47	-7	-5	IAH	DFW	224
##	35258	N4XPAA	64	46	-2	-1	IAH	DFW	224
##	35259	N565AA	73	41	9	1	IAH	DFW	224
##	35260	N560AA	66	44	1	0	IAH	DFW	224
##	35261	N563AA	66	41	0	-1	IAH	DFW	224
##	35262	N4YRAA	72	43	6	-1	IAH	DFW	224
##	35263	N4YTAA	66	39	-2	-3	IAH	DFW	224
##	35264	N4XCAA	NA	NA	NA	NA	IAH	DFW	224
##	35265	N598AA	72	43	19	12	IAH	DFW	224
##	35266	N563AA	65	42	0	0	IAH	DFW	224
##	35267	N593AA	59	41	-5	1	IAH	DFW	224
##	35268	N4WAAA	66	46	1	0	IAH	DFW	224
##	35269	N566AA	70	49	5	0	IAH	DFW	224
##	35270	N476AA	67	52	19	17	IAH	DFW	224
##	35271	N599AA	61	42	-4	0	IAH	DFW	224
##	35272	N4WXAA	77	49	12	0	IAH	DFW	224

##	35273	N4WRAA	59	43	24	30	IAH	DFW	224
##	35274	N4YDAA	67	44	1	-1	IAH	DFW	224
##	35275	N202AA	70	44	14	9	IAH	DFW	224
##	35276	N433AA	66	44	2	1	IAH	DFW	224
##	35277	N546AA	72	50	2	-5	IAH	DFW	224
##	35278	N436AA	51	39	-2	12	IAH	DFW	224
##	35279	N434AA	66	43	8	7	IAH	DFW	224
##	35280	N4WDAA	60	40	-11	-6	IAH	DFW	224
##	35281	N594AA	75	46	4	-6	IAH	DFW	224
##	35282	N569AA	72	43	1	-6	IAH	DFW	224
##	35283	N435AA	63	47	48	50	IAH	DFW	224
##	35284	N592AA	66	44	-8	-9	IAH	DFW	224
##	35285	N589AA	80	41	9	-6	IAH	DFW	224
##	35286	N511AA	72	42	7	0	IAH	DFW	224
##	35375	N569AA	71	45	-7	-3	IAH	DFW	224
##	35376	N4YUAA	68	43	-15	-8	IAH	DFW	224
	35377	N568AA	72	41	25	28	IAH	DFW	224
	35378	N4YAAA	62	41	-18	-5	IAH	DFW	224
	35379	N568AA	69	44	-13	-7	IAH	DFW	224
	35380	N459AA	71	47	16	20	IAH	DFW	224
	35381	N4YDAA	80	45	-2	-7	IAH	DFW	224
	35382	N599AA	77	44	-5	-7	IAH	DFW	224
	35383	N588AA	69	46	-12	-6	IAH	DFW	224
	39453	N3BBAA	129	113	-9	-3	IAH	MIA	964
	39454	N3DCAA	138	115	-3	-6	IAH	MIA	964
	39455	N3CMAA	130	111	-10	- 5	IAH	MIA	964
	39456	N3CWAA	145	115	8	-2	IAH	MIA	964
	39457	N3DFAA	139	111	-1	-5	IAH	MIA	964
	39458	NSAJAA	128	107	-7	0	IAH	MIA	964
	39459	N3DDAA	129	108	-10	-4	IAH	MIA	964
	39460	N3DAAA	132	105	- 5	-2	IAH	MIA	964
	39461	N3CYAA	133	111	-4	-2	IAH	MIA	964
	39462	NSAUAA	135	111	5	5	IAH	MIA	964
	39463	N3DLAA	NA	NA	NA	- 7	IAH	MIA	964
	39464	N3BDAA	132	112	-12	-9	IAH	MIA	964
	39465	N3AGAA	125	109	23	33	IAH	MIA	964
	39466	N3DLAA	132	112	- 5	-2	IAH	MIA	964
	39467	N3DJAA	130	114	-10	-5	IAH	MIA	964
	39468	NSAHAA	125	112	- 5	5	IAH	MIA	964
	39469	NSAXAA	167	143	28	-4	IAH		964
	39470	N3DFAA	136	112	-4	-5	IAH		964
	39471	N3BVAA	147	124	6	-6	IAH	MIA	964
	39472	NSFTAA	136	110	-3	-4	IAH	MIA	964
	39473	NSCJAA	134	114	-8	-7	IAH	MIA	964
	39474	N3BFAA	137	118	-8	-10	IAH	MIA	964
	39475	N3BCAA	128	110	- 15	-8	IAH	MIA	964
	39476	NSCCAA	133	111	-9	-7	IAH	MIA	964
	39477	NSAMAA	138	111	1	-2	IAH	MIA	964
	39478	NSDJAA	132	112	-8	-5	IAH	MIA	964
	39479	NSDSAA	129	112	0	6	IAH	MIA	964
	39480	N3FYAA	131	111	-10	-6	IAH	MIA	964
	39481	N3FIAA N3AKAA	132	107	-10 -11	-8	IAH	MIA	964
	39482	NSARAA	137	111	-11 -5	-7	IAH	MIA	964
			121	106					
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##	47191	N627AS	280	260	-3	2	IAH	SEA	1874
##	47585	N618AS	287	268	22	20	IAH	SEA	1874
##	47933	N607AS	288	273	-1	-4	IAH	SEA	1874
##	48343	N624AS	299	278	23	9	IAH	SEA	1874
##	48672	N611AS	295	274	8	-2	IAH	SEA	1874
##	49014	N607AS	290	269	2	-3	IAH	SEA	1874
##	49394	N609AS	290	253	78	73	IAH	SEA	1874
##	49788	N626AS	339	315	49	-5	IAH	SEA	1874
##	50174	N626AS	NA	NA	NA	-5	IAH	SEA	1874
##	50499	N619AS	307	284	19	-3	IAH	SEA	1874
##	50905	N627AS	293	273	3	-5	IAH	SEA	1874
##	51270	N627AS	296	270	4	-7	IAH	SEA	1874
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##	51976	N627AS	316	291	28	-3	IAH	SEA	1874
##	52351	N612AS	331	310	39	-7	IAH	SEA	1874
##	52723	N617AS	294	276	20	11	IAH	SEA	1874
##	53076	N622AS	282	265	-8	-5	IAH	SEA	1874
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##	53832	N622AS	309	288	26	2	IAH	SEA	1874
##	54167	N644AS	284	269	-10	-9	IAH	SEA	1874
##	54534	N624AS	286	269	-6	-7	IAH	SEA	1874
##	54947	N644AS	285	251	-1	-1	IAH	SEA	1874
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##	56057	N627AS	278	262	0	7	IAH	SEA	1874
##	56410	N627AS	271	256	-18	-4	IAH	SEA	1874
##	56750	N627AS	261	246	-28	-4	IAH	SEA	1874
##	57125	N627AS	307	264	18	-4	IAH	SEA	1874
##	57472	N607AS	284	259	1	2	IAH	SEA	1874
##	57719	N324JB	210	181	5	-6	HOU	JFK	1428
##	57720	N324JB	211	188	61	54	HOU	JFK	1428
##	58343	N324JB	190	172	-6	3	HOU	JFK	1428
##	58344	N324JB	216	176	31	19	HOU	JFK	1428
##	58983	N229JB	181	166	-19	-1	HOU	JFK	1428
##	58984	N206JB	179	165	111	136	HOU	JFK	1428
##	59614	N267JB	189	168	-16	-6	HOU	JFK	1428
##	59615	N267JB	206	175	25	23	HOU	JFK	1428
##	60195	N708JB	183	167	-14	0	HOU	JFK	1428
##	60196	N644JB	190	166	-6	9	HOU	JFK	1428
##	60734	N641JB	191	175	-17	-3	HOU	JFK	1428
##	61317	N641JB	203	172	0	-6	HOU	JFK	1428
##	61318	N564JB	194	175	-4	7	HOU	JFK	1428
##	61875	N630JB	184	162	-19	-6	HOU	JFK	1428
##	62403	N599JB	186	163	-18	-7	HOU	JFK	1428
##	62404	N625JB	219	196	57	43	HOU	JFK	1428
##	62989	N625JB	186	166	-15	-4	HOU	JFK	1428
##	62990	N504JB	187	170	1	19	HOU	JFK	1428
	63545	N504JB	180	161	-24	-7	HOU	JFK	1428
	63546	N537JB	NA	NA	NA	NA	HOU	JFK	1428
##	64043	N504JB	201	177	-7	-3	HOU	JFK	1428
##	64557	N597JB	196	178	-22	-13	HOU	JFK	1428
##	65133	N597JB	201	185	72	68	HOU	JFK	1428

##	65134	N729JB	221	189	15	-1	HOU	JFK	1428
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##	66204	N706JB	183	166	-22	-8	HOU	JFK	1428
##	66205	N565JB	193	176	4	16	HOU	JFK	1428
##	66785	N523JB	185	168	18	30	HOU	JFK	1428
##	66786	N779JB	195	173	-14	-4	HOU	JFK	1428
##	67336	N779JB	183	162	-15	-1	HOU	JFK	1428
##	67337	N729JB	189	164	56	72	HOU	JFK	1428
##	67826	N504JB	NA	NA	NA	NA	HOU	JFK	1428
##	68334	N760JB	194	161	-8	3	HOU	JFK	1428
##	68906	N760JB	188	164	-13	-4	HOU	JFK	1428
##	68907	N598JB	190	173	95	110	HOU	JFK	1428
##	69454	N527JB	185	161	-11	1	HOU	JFK	1428
##	69966	N580JB	180	162	-19	-2	HOU	JFK	1428
	69967	N599JB	178	164	-27	0	HOU	JFK	1428
	70541	N605JB	172	156	-18	7	HOU	JFK	1428
	70542	N536JB	171	156	-37	-3	HOU	JFK	1428
	71084	N589JB	184	162	-15	-2	HOU	JFK	1428
	71085	N621JB	186	167	29	48	HOU	JFK	1428
	71571	N659JB	186	165	-19	0	HOU	JFK	1428
	72078	N569JB	NA	NA	NA	NA	HOU	JFK	1428
	72650	N594JB	192	172	-10	-5	HOU	JFK	1428
	72651	N655JB	215	196	13	3	HOU	JFK	1428
	73198	N508JB	211	180	11	-3	HOU	JFK	1428
	73710	N606JB	195	175	-11	-9	HOU	JFK	1428
	73711	N606JB	199	176	78	84	HOU	JFK	1428
	74284	N661JB	192	172	-6	-1	HOU	JFK	1428
	74285	N629JB	190	169	-18	-3	HOU	JFK	1428
	74650	N69063	529	492	23	-1	IAH	HNL	3904
	74655	N17245	60	42	-9	0	IAH	MSY	305
	74656	N77520	56	40	- 5	-1	IAH	SAT	191
	74665	N16647	70	42	-2	-3	IAH	MSY	305
	74667	N35204	59	32	7	1	IAH	AUS	140
	74675	N76522	227	199	2	6	IAH	LAX	1379
	74678	N67134	229	201	5	2	IAH	LAX	1379
	74683	N57870	144	116	15	28	IAH	DEN	862
	74684	N68159	205	165	-2	1	IAH	EWR	1400
	74686	N17126	203	163	-9	0	IAH	EWR	1400
	74691	N76529	195	175	2	7	IAH	EWR	1400
	74695	N66051	188	162	-26	-4	IAH	EWR	1400
	74701	N75436	88	49	18	-2	IAH	MSY	305
	74705	N73283	236	199	14	5	IAH	LAX	1379
	74706	N57862	145	114	64	77	IAH	ORD	925
	74709	N34282	211	189	6	15	IAH	ONT	1334
	74712	N13750	180	142	7	-3	IAH	DCA	1208
	74717	N35407	241	225	-27	1	IAH	SFO	1635
	74724	N35260	132	107	-12	-1	IAH	MIA	964
	74729	N75853	209	172	3	0	IAH	LAS	1222
	74731	N14228	169	128	8	1	IAH	DEN	862
	74736	N39418	115	91 256	-10 -15	-1 -7	IAH IAH	TPA PDX	787 1825
	74739	N24715	268	256 166					1825 1400
	74740	N37408	198	166	-15 -4	1	IAH	EWR	
	74742	N53441	237	215	-4 20	9	IAH	SJU	2007
##	74748	N33132	206	161	32	7	IAH	PHX	1009

	74754	N19621	181	161	2	0	IAH	BWI	1235
	74758	N33266	200	165	-15	-4	IAH	LGA	1416
	74765	N14629	55	27	-2	-4	IAH	AUS	140
	74767	N37274	144	121	-16	9	IAH	CLE	1091
	74770	N59630	141	121	-18	0	IAH	RDU	1043
	74777	N77520	173	145	-1	-3	IAH	DCA	1208
	74781	N45440	286	263	7	5	IAH	SEA	1874
	74784	N37420	262	228	1	4	IAH	SF0	1635
	74785	N14242	146	122	16	25	IAH	DEN	862
	74788	N37274	70	45	4	0	IAH	SAT	191
	74789	N79279	225	195	4	0	IAH	BOS	1597
	74796	N27421	215	190	13	11	IAH	LAS	1222
	74798	N17244	134	119	-10	8	IAH	DEN	862
	74803	N33294	283	254	8	4	IAH	PDX	1825
	74804	N77867	193	164	33	49	IAH	EWR	1400
	74808	N39416	192	159	12	1	IAH	PHX	1009
##	74810	N36207	61	44	-10	-3	IAH	MSY	305
	74812	N38257	160	143	-16	-2	IAH	BWI	1235
##	74816	N73276	215	177	4	-3	IAH	LGA	1416
##	74828	N39728	167	146	-5	-2	IAH	DCA	1208
##	74836	N27213	264	229	5	7	IAH	SFO	1635
	74842	N19638	60	39	-2	0	IAH	SAT	191
##	74844	N36272	219	188	-5	-3	IAH	BOS	1597
	74850	N33286	200	182	20	28	IAH	LAS	1222
##	74852	N39415	147	109	6	1	IAH	IND	845
##	74854	N35271	212	194	-1	1	IAH	SAN	1303
##	74855	N78501	172	146	-5	-5	IAH	IAD	1190
##	74857	N73270	179	143	3	-4	IAH	IAD	1190
##	74859	N66056	207	170	1	-1	IAH	EWR	1400
##	74861	N73299	155	138	-19	-2	IAH	IAD	1190
##	74864	N37298	247	231	80	91	IAH	SJC	1609
##	74866	N33266	62	41	-8	-1	IAH	MSY	305
##	74867	N78506	165	143	-12	-1	IAH	BWI	1235
##	74870	N16713	198	169	1	4	IAH	LGA	1416
##	74874		NA	NA	NA	NA	IAH	TUL	429
##	74875	N76514	157	117	3	5	IAH	ORD	925
##	74877	N26208	144	117	-16	-6	IAH	ORD	925
##	74882	N17233	168	149	-7	-5	IAH	DCA	1208
##	74886	N78285	296	276	58	42	IAH	SEA	1874
##	74892	N16217	60	43	-8	-2	IAH	SAT	191
##	74895	N78509	221	190	-3	0	IAH	BOS	1597
##	74900	N74856	230	187	23	1	IAH	LAS	1222
##	74902	N37267	159	127	2	-2	IAH	DEN	862
##	74903		NA	NA	NA	NA	IAH	IND	845
##	74909	N38268	207	183	2	0	IAH	EWR	1400
##	74910	N77520	81	60	5	1	IAH	MFE	316
##	74916	N75432	181	161	-2	-2	IAH	PHX	1009
##	74923	N76269	225	178	22	2	IAH	LGA	1416
##	74924	N79402	150	125	-16	-3	IAH	PIT	1117
##	74929	N75436	195	174	2	4	IAH	SLC	1195
	74930	N13624	163	136	-8	-7	IAH	CLE	1091
	74931	N77518	155	116	-1	1	IAH	ORD	925
	74941	N16709	164	143	-11	-4	IAH	DCA	1208
	74943	N76515	243	202	15	2	IAH	SNA	1347

	74949	N75436	253	236	-4	3	IAH	SF0	1635
	74954	N19621	211	188	-1	6	IAH	BOS	1597
##	74956	N17126	132	102	-7	-5	IAH	MCO	853
	74962	N33203	200	179	-10	0	IAH	LAS	1222
##	74964	N57864	159	124	6	3	IAH	DEN	862
##	74966	N26208	183	131	36	9	IAH	DEN	862
##	74968	N77510	113	90	-11	0	IAH	TPA	787
##	74971	N33294	175	139	24	20	IAH	MSP	1034
##	74975	N77261	73	44	5	-1	IAH	MSY	305
##	74978	N16647	169	154	-17	-6	IAH	BWI	1235
##	74981	N12238	185	166	-25	-2	IAH	LGA	1416
##	74985	N37267	137	116	-3	22	IAH	CLE	1091
##	74990	N37273	153	128	-6	10	IAH	DCA	1208
##	74993	N14115	215	195	33	-5	IAH	EGE	935
##	74994	N57869	266	249	0	12	IAH	SEA	1874
##	75001	N78501	202	180	-25	0	IAH	BOS	1597
##	75004	N56859	134	105	0	-1	IAH	MCO	853
##	75010	N37293	230	191	20	0	IAH	LAS	1222
##	75014	N23708	115	92	-11	-1	IAH	TPA	787
##	75015	N37409	263	245	-13	2	IAH	PDX	1825
##	75018	N77510	63	44	-8	-5	IAH	MSY	305
##	75025	N33262	189	157	44	50	IAH	LGA	1416
##	75029	N38403	210	194	-3	-1	IAH	SAN	1303
##	75030	N75432	232	193	16	1	IAH	SAN	1303
##	75031	N37290	57	32	0	-1	IAH	AUS	140
	75032	N76254	158	125	-7	-2	IAH	CLE	1091
	75033	N78524	149	114	-8	3	IAH	ORD	925
##	75034	N73278	212	189	10	-2	IAH	SLC	1195
##	75036	N11641	114	89	-10	-1	IAH	ATL	689
	75039	N73291	55	42	-15	-2	IAH	MSY	305
	75040	N37422	291	255	12	5	IAH	SEA	1874
##	75043	N37281	235	224	24	50	IAH	SF0	1635
	75044	N26226	273	237	2	-1	IAH	SFO	1635
	75045	N37252	183	155	-11	-3	IAH	PHL	1324
	75050	N75851	127	105	6	12	IAH	MCO	853
	75052	N46625	159	132	-12	-4	IAH	DTW	1076
##	75054	N76502	226	198	8	10	IAH	LAX	1379
##	75057	N57855	165	133	0	-3	IAH	DEN	862
	75062	N78003	200	168	-4	1	IAH	EWR	1400
	75067	N37255	186	158	19	10	IAH	PHX	1009
	75073	N18220	105	89	-2	17	IAH	TPA	787
	75074	N73259	186	161	-9	15	IAH	EWR	1400
	75083	N79402	123	106	-4	25	IAH	ORD	925
	75084	N73283	135	107	-8	0	IAH	FLL	965
	75088	N24702	170	149	-7	-2	IAH	DCA	1208
	75091	N73406	254	231	-8	-2	IAH	SFO	1635
	75094	N14230	71	40	10	1	IAH	SAT	191
	75096	N57855	122	100	97	114	IAH	MCO	853
	75098	N14219	167	127	3	4	IAH	DTW	1076
	75100	N73270	220	201	7	12	IAH	LAX	1379
	75101	N14231	224	192	14	-3	IAH	LAS	1222
	75101	N75858	144	121	-9	-1	IAH	DEN	862
	75112	N14604	53	31	-9	-5	IAH	AUS	140
	75112	N33262	255	238	15	19	IAH	SJC	1609
π#	10114	1100202	200	200	13	19	TWII	530	1009

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	75115	N46625	145	126	-32	-2	IAH	PIT	1117
	75119	N62631	74	42	4	-4	IAH	MSY	305
	75121	N11641	131	113	-15	0	IAH	CLT	913
	75127	N75429	136	108	-16	- 5	IAH	FLL	965
	75131	N87513	222	201	2	3	IAH	SNA	1347
	75133	N16617	126	98	-25	-8	IAH	RSW	861
	75140	N76503	191	158	-1	0	IAH	PHL	1324
	75142	N33264	52	37	-7	1	IAH	SAT	191
	75144	N16701	149	121	-24	-2	IAH	DTW	1076
	75147	N77867	236	195	5	-5	IAH	LAX	1379
	75149	N75425	203	181	-10	-1	IAH	LAS	1222
	75150	N77295	157	138	-13	0	IAH	DCA	1208
	75154	N35407	102	89	-24	0	IAH	TPA	787
	75156	N14704	226	203	-9	-3	IAH	SNA	1347
	75161	N72405	62	30	20	13	IAH	AUS	140
	75163	N16646	65	30	15	4	IAH	AUS	140
	75164	N14613	147	128	5	24	IAH	CLE	1091
	75166	N37253	137	114	-17	3	IAH	ORD	925
##	75168	N32404	123	106	-24	-3	IAH	FLL	965
##	75175	N76516	124	101	27	33	IAH	RSW	861
	75177	N17627	113	87	-16	-3	IAH	MCI	643
	75184	N36207	66	32	10	0	IAH	AUS	140
	75186	N75428	122	103	-9	6	IAH	MCO	853
	75188	N34222	224	189	21	12	IAH	SAN	1303
	75189	N27213	133	106	-12	-2	IAH	MIA	964
##	75196	N77525	50	29	-8	-2	IAH	AUS	140
##	75197	N37255	240	207	18	3	IAH	LAX	1379
##	75204	N75433	191	163	11	4	IAH	PHX	1009
##	75205	N16701	78	58	1	3	IAH	MFE	316
##	75206	N38727	59	42	-9	0	IAH	MSY	305
##	75208	N39726	220	198	-11	-4	IAH	SNA	1347
##	75209	N24702	178	161	-19	0	IAH	LGA	1416
##	75212	N18622	74	55	-4	0	IAH	MFE	316
##	75213	N76504	232	217	-13	10	IAH	SMF	1609
##	75215	N37409	142	116	-12	-1	IAH	ORD	925
	75216	N37252	126	106	-21	-1	IAH	FLL	965
##	75220	N17229	122	97	-9	0	IAH	RSW	861
	75223	N16646	137	109	12	8	IAH	ELP	667
##	75224	N36280	188	159	-1	3	IAH	PHL	1324
##	75227	N14219	75	39	-2	-12	IAH	SAT	191
##	75232	N27610	158	128	-17	-2	IAH	DTW	1076
##	75233	N12225	214	192	6	12	IAH	SAN	1303
##	75234	N77295	131	105	-22	-5	IAH	MIA	964
##	75238	N26210	253	212	32	10	IAH	LAX	1379
##	75243	N16649	81	56	-1	-3	IAH	MFE	316
##	75248		NA	NA	NA	NA	IAH	OKC	395
##	75250	N37273	273	235	8	-4	IAH	SMF	1609
##	75251	N19638	148	120	-4	-2	IAH	ABQ	744
##	75252	N77296	220	194	20	13	IAH	SAN	1303
##	75254	N77296	217	202	-3	-2	IAH	ONT	1334
	75259	N35204	159	117	32	28	IAH	ORD	925
	75260	N75433	129	108	-11	6	IAH	FLL	965
	75262	N18622	127	85	0	2	IAH	ATL	689
##	75267	N87513	293	266	19	10	IAH	SEA	1874

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	75270	N76503	172	142	-10	11	IAH	PHL	1324
	75273	N37277	53	35	-5	3	IAH	SAT	191
	75274	N18223	185	154	11	2	IAH	TUS	936
	75277	N18223	61	41	2	13	IAH	DFW	224
	75279	N37281	126	105	-17	-3	IAH	MIA	964
	75282	N73860	229	200	6	4	IAH	LAX	1379
	75291	N14731	237	199	14	7	IAH	SNA	1347
	75292	N16646	69	42	-3	-3	IAH	MSY	305
	75295	N39423	127	103	-18	-3	IAH	PBI	956
	75297	N78285	192	172	-13	0	IAH	LGA	1416
	75298	N73278	185	153	-9	2	IAH	PHL	1324
	75299	N24706	165	128	-4	-3	IAH	CLE	1091
	75303	N19623	143	121	-4	10	IAH	RDU	1043
	75306	N26226	130	104	-6	-1	IAH	OMA	781
	75310	N14242	133	101	-11	-6	IAH	MCO	853
	75312	N17620	160	140	-13	9	IAH	HDN	986
	75315	N21723	250	228	6	17	IAH	SMF	1609
	75320	N76064	525	493	20	0	IAH	HNL	3904
	75325	N35271	61	43	-4	4	IAH	MSY	305
	75326	N17627	61	38	-4	-5	IAH	SAT	191
	75336	N17620	61	43	-8	0	IAH	MSY	305
##	75338	N16649	61	32	5	-3	IAH	AUS	140
##	75344	N77520	251	203	23	3	IAH	LAX	1379
##	75347	N13113	239	201	22	9	IAH	LAX	1379
##	75352	N57862	157	120	21	21	IAH	DEN	862
##	75353	N76156	197	171	-11	0	IAH	EWR	1400
##	75355	N19130	188	164	-6	18	IAH	EWR	1400
##	75359	N26215	194	171	2	0	IAH	EWR	1400
##	75363	N67058	209	167	13	6	IAH	EWR	1400
##	75368	N54711	67	40	5	6	IAH	MSY	305
##	75372	N18223	209	185	-5	13	IAH	LAX	1379
##	75374	N57855	172	119	7	-7	IAH	ORD	925
##	75377	N37281	204	188	15	31	IAH	ONT	1334
##	75380	N33714	168	147	-1	1	IAH	DCA	1208
##	75385	N57439	268	230	49	45	IAH	SF0	1635
##	75392	N37267	136	107	-7	0	IAH	MIA	964
##	75397	N57863	206	162	10	5	IAH	LAS	1222
##	75399	N14250	138	119	-20	-1	IAH	DEN	862
##	75402	N37434	121	93	2	5	IAH	TPA	787
##	75404	N15710	259	244	20	37	IAH	PDX	1825
##	75405	N79402	206	169	9	17	IAH	EWR	1400
##	75407	N53441	233	212	-5	7	IAH	SJU	2007
##	75412	N29124	181	153	0	-5	IAH	PHX	1009
##	75417	N14613	185	153	15	4	IAH	BWI	1235
##	75421	N77510	196	172	-7	3	IAH	LGA	1416
##	75427	N14645	64	31	10	-1	IAH	AUS	140
##	75429	N16647	168	136	9	10	IAH	CLE	1091
##	75432	N73259	156	126	-1	-2	IAH	RDU	1043
##	75441	N27205	264	241	-19	1	IAH	SEA	1874
##	75444	N75428	256	227	14	18	IAH	SF0	1635
##	75445	N37252	142	121	-13	0	IAH	DEN	862
##	75446	N38257	64	39	2	-1	IAH	SAT	191
	75451	N75426	193	175	-15	0	IAH	LAS	1222
	75452	N12225	169	119	35	18	IAH	DEN	862

	75456	N77520	256	239	-20	-2	IAH	PDX	1825
##	75457	N57869	220	161	36	25	IAH	EWR	1400
##	75462	N78438	169	152	-9	3	IAH	PHX	1009
##	75464	N33262	70	43	2	0	IAH	MSY	305
##	75466	N12225	177	144	18	15	IAH	BWI	1235
##	75477	N23721	176	127	14	-5	IAH	GUC	886
##	75480	N37274	175	139	6	-4	IAH	DCA	1208
##	75487	N14231	256	233	24	34	IAH	SF0	1635
##	75492	N14604	69	36	3	-4	IAH	SAT	191
##	75494	N76269	212	190	-8	-4	IAH	BOS	1597
##	75500	N37287	219	179	10	-1	IAH	LAS	1222
##	75502	N19638	144	103	-1	0	IAH	IND	845
##	75504	N14230	212	190	-1	-4	IAH	SAN	1303
	75505	N37252	152	135	-28	-8	IAH	IAD	1190
	75507	N18243	190	144	15	-3	IAH	IAD	1190
	75509	N76062	204	180	2	-5	IAH	EWR	1400
	75511	N73270	164	145	-5	3	IAH	IAD	1190
	75513	N36280	273	231	48	33	IAH	SJC	1609
	75515	N16632	84	40	54	39	IAH	MSY	305
	75516	N17245	196	151	29	9	IAH	BWI	1235
	75519	N13750	206	171	8	-2	IAH	LGA	1416
	75523	N16646	109	64	22	0	IAH	TUL	429
	75524	N27421	180	142	31	10	IAH	ORD	925
	75530	N33284	169	144	-1	0	IAH	DCA	1208
	75534	N75428	269	249	15	26	IAH	SEA	1874
	75540	N73276	80	37	16	2	IAH	SAT	191
	75543	N77525	232	185	22	14	IAH	BOS	1597
	75548	N75858	196	170	-1	6	IAH	LAS	1222
	75550	N12221	160	114	11	1	IAH	DEN	862
	75551	N79521	164	113	28	9	IAH	IND	845
	75555	N75425	204	172	7	0	IAH	EWR	1400
	75556	N54711	66	53	0	11	IAH	MFE	316
	75559	N47414	186	159	13	8	IAH	PHX	1009
	75565	N35260	179	163	4	30	IAH	LGA	1416
	75566	N37409	175	143	14	2	IAH	PIT	1117
	75570	N79279	179	155	-17	-4	IAH	SLC	1195
	75571	N18622	159	135	-10	-10	IAH	CLE	1091
	75572	N11206	182	127	27	-3	IAH	ORD	925
	75581	N21723	172	146	-5	-6	IAH	DCA	1208
	75586	N35407	262	232	6	4	IAH	SFO	1635
	75591	N16642	254	198	50	14	IAH	BOS	1597
	75592	N19130	119	99	5	15	IAH	MCO	853
	75598	N36444	209	178	1	2	IAH	LAS	1222
	75600	N74856	140	118	-20	-4	IAH	DEN	862
	75602	N76529	159	118	11	8	IAH	DEN	862
	75604	N76523	113	93	-12	-1	IAH	TPA	787
	75607 75611	N18220 N36272	185 65	145 42	14 -4	0 -2	IAH IAH	MSP MSY	1034 305
	75615	N76522	190	169	-15	3	IAH	LGA	1416
	75618	N12221	180	131	44	26	IAH	CLE	1091
	75622	N37274	172	144	6	3	IAH	DCA	1208
	75625	N13110	172	147	-1	-1 10	IAH	EGE	935
	75626	N75851	264	239	5	19	IAH	SEA	1874
##	75629	N76504	268	228	41	41	IAH	SF0	1635

	75634	N26215	217	194	-7	3	IAH	BOS	1597
##	75637	N75851	142	101	13	-1	IAH	MCO	853
##	75642	N38403	198	177	0	12	IAH	LAS	1222
##	75646	N32404	303	255	26	1	IAH	PDX	1825
##	75649	N78524	61	43	-3	-3	IAH	MSY	305
##	75656	N36272	200	170	19	14	IAH	LGA	1416
##	75659	N76515	209	190	-4	-1	IAH	SAN	1303
##	75660	N47414	207	185	-5	0	IAH	SAN	1303
##	75661	N76523	70	30	15	-4	IAH	AUS	140
##	75662	N16709	172	128	19	10	IAH	CLE	1091
	75663	N87527	152	120	22	30	IAH	ORD	925
	75664	N37298	191	167	-13	-4	IAH	SLC	1195
	75666	N17620	129	90	61	55	IAH	ATL	689
	75667	N76519	220	197	-14	-9	IAH	SNA	1347
	75671	N37281	64	43	-6	-2	IAH	MSY	305
	75672	N75432	265	247	2	21	IAH	SEA	1874
	75675	N37293	260	231	9	10	IAH	SFO	1635
	75676	N32404	247	229	-22	-1	IAH	SF0	1635
	75681	N75853	126	107	0	7	IAH	MCO	853
	75683	N39728	161	138	0	-3	IAH	DTW	1076
	75686	N26226	228	204	0	0	IAH	LAX	1379
	75689		150	121					862
	75691	N77867			-7	0 9	IAH	DEN	1400
		N74007	213	175	17		IAH	EWR	
	75694	N37409	173	150	7	11	IAH	PHX	1009
	75701	N73299	138	93	22	3	IAH	TPA	787
	75702	N14653	202	171	8	22	IAH	EWR	1400
	75710	N75853	157	126	18	13	IAH	ORD	925
	75711	N87527	133	111	-3	2	IAH	FLL	965
	75715	N39726	159	145	-13	-2	IAH	DCA	1208
	75718	N73406	257	224	0	3	IAH	SFO	1635
	75721	N79521	53	39	-13	-4	IAH	SAT	191
	75723	N77867	122	100	43	60	IAH	MCO	853
	75725	N54711	158	128	-11	-1	IAH	DTW	1076
	75727	N18243	237	203	22	10	IAH	LAX	1379
	75728	N76522	194	176	-13	- 5	IAH	LAS	1222
	75730	N77510	158	122	37	31	IAH	DEN	862
	75739	N38268	70	30	30	17	IAH	AUS	140
	75742	N73276	253	234	-1	0	IAH	SJC	1609
	75743	N59630	181	138	5	-1	IAH	PIT	1117
	75747	N53441	60	43	12	18	IAH	MSY	305
	75754	N17719	149	111	4	-3	IAH	FLL	965
	75758	N76516	217	201	-6	0	IAH	SNA	1347
	75766	N16632	212	187	82	63	IAH	PHL	1324
	75768	N33284	56	34	-4	0	IAH	SAT	191
	75770	N23721	213	141	46	4	IAH	DTW	1076
##	75773	N39418	226	194	7	2	IAH	LAX	1379
##	75775	N78501	195	174	-1	16	IAH	LAS	1222
##	75779	N77430	120	89	9	15	IAH	TPA	787
##	75781	N14731	254	204	27	5	IAH	SNA	1347
##	75787	N14653	52	31	12	14	IAH	AUS	140
##	75788	N32626	157	134	-6	-4	IAH	CLE	1091
##	75790	N79279	159	125	29	27	IAH	ORD	925
##	75792	N37408	136	109	0	8	IAH	FLL	965
##	75795	N77295	61	30	23	18	IAH	AUS	140

##	75798	N76516	125	106	7	12	IAH	RSW	861
	75800	N14613	152	96	36	10	IAH	MCI	643
	75807	N38417	52	31	-1	-2	IAH	AUS	140
	75809	N37420	143	101	30	24	IAH	MCO	853
	75811	N76254	217	195	11	9	IAH	SAN	1303
	75812	N70254 N21723	124	193	-20	-1	IAH	MIA	964
	75819	N73299	189	151	21	2	IAH	DCA	1208
	75820	N73299 N38417	236	198	51	40	IAH	LAX	1379
	75827	N37420	194	153	17	2	IAH	PHX	1009
	75828	N37420 N16646	80	55	-2	-2	IAH	MFE	316
	75829	N37409	61	42	-8	-6	IAH	MSY	305
	75831	N15710	236	218	19	10	IAH	SNA	1347
	75832	N39726	193	172	3	7	IAH	LGA	1416
	75836	N73283	241	220	-7	7	IAH	SMF	1609
	75838	N75265 N35407	142	115	-7 -7	-1	IAH	ORD	925
	75839	N38257	129	112	-15	2	IAH	FLL	965
	75843	N34222	152	99	29	8	IAH	RSW	861
	75846	N11641	137	108	-2	-6	IAH	ELP	667
	75847	N75433	181	154	9	20	IAH	PHL	1324
	75849	N76288	63	40	1	-2	IAH	SAT	191
	75854	N16617	183	155	5	-5	IAH	DTW	1076
	75855	N14237	233	201	18	5	IAH	SAN	1303
	75856	N37255	142	109	-4	-3	IAH	MIA	964
	75860	N76505	242	211	26	15	IAH	LAX	1379
	75865	N76503	75	55	-5	-1	IAH	MFE	316
	75869	N16649	108	59	28	8	IAH	OKC	395
	75871	N10043 N19621	143	124	8	15	IAH	ABQ	744
	75873	N38417	208	195	89	94	IAH	SAN	1303
	75875	N35271	210	193	-8	-1	IAH	ONT	1334
	75878	N37408	43	27	-15	-3	IAH	AUS	140
	75880	N38403	141	115	-12	-3	IAH	ORD	925
	75881	N57439	160	107	53	39	IAH	FLL	965
	75883	N16642	121	88	-9	-1	IAH	ATL	689
	75888	N37293	259	237	-20	0	IAH	SEA	1874
	75891	N14219	216	156	45	22	IAH	PHL	1324
	75894	N33262	53	34	2	10	IAH	SAT	191
	75895	N17229	163	138	-11	-3	IAH	TUS	936
	75898	N17614	61	38	58	69	IAH	DFW	224
	75900	N73283	132	109	4	12	IAH	MIA	964
	75903	N57852	231	203	22	18	IAH	LAX	1379
	75912	N24715	219	200	2	13	IAH	SNA	1347
	75913	N14653	96	44	35	3	IAH	MSY	305
	75916	N30401	166	105	23	-1	IAH	PBI	956
	75918	N33266	223	173	24	1	IAH	LGA	1416
	75919	N37298	191	167	-2	3	IAH	PHL	1324
	75920	N16732	143	127	-16	7	IAH	CLE	1091
	75924	N46625	152	123	-7	-2	IAH	RDU	1043
	75927	N26210	145	108	33	23	IAH	OMA	781
	75932	N16647	137	108	-4	-5	IAH	MCO	853
	75934	N17245	170	137	-3	1	IAH	HDN	986
	75937	N25705	246	228	-16	-1	IAH	SMF	1609
	75942	N69063	480	459	55	80	IAH	HNL	3904
	75947	N27239	54	40	-9	1	IAH	MSY	305
	75956	N38257	66	45	11	7	IAH	MSY	305

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	75958 75966	N14219 N29129	53	29 197	5 -5	0 -1	IAH IAH	AUS LAX	140 1379
	75971		217 143	121	-6	3	IAH	DEN	862
	75971	N75435 N38424	198	177	4	6	IAH	EWR	1400
	75974	N26123	193	170	-3	8	IAH	EWR	1400
	75974	N57870	198	171	-3 5	-1	IAH	EWR	1400
	75982	N78060	206	174	9	5	IAH	EWR	1400
	75988	N14250	229	196	17	15	IAH	LAX	1379
	75990	N77867	150	125	-6	-3	IAH	ORD	925
	75993	N33284	217	196	-6	-3	IAH	ONT	1334
	75999	N72405	274	241	12	2	IAH	SF0	1635
	76005	N27213	127	105	-11	0	IAH	MIA	964
	76011	N75432	192	168	-12	-2	IAH	LAS	1222
	76013	N76288	141	119	-20	-4	IAH	DEN	862
	76016	N78506	108	89	-4	10	IAH	TPA	787
	76018	N13718	266	249	-6	-1	IAH	PDX	1825
	76019	N79402	218	180	8	-4	IAH	EWR	1400
	76021	N39415	236	210	-2	7	IAH	SJU	2007
	76023	N57868	172	149	61	65	IAH	PHX	1009
	76027	N14645	178	151	2	-2	IAH	BWI	1235
##	76033	N77525	49	34	14	13	IAH	AUS	140
##	76034	N24706	155	130	-7	-4	IAH	CLE	1091
##	76037	N77510	146	124	-2	2	IAH	RDU	1043
##	76039	N87527	175	156	5	-4	IAH	DCA	1208
##	76043	N14214	261	242	5	23	IAH	SEA	1874
##	76046	N37252	262	237	5	3	IAH	SF0	1635
##	76047	N54241	155	123	4	0	IAH	DEN	862
	76050	N59630	68	43	2	-5	IAH	SAT	191
	76051	N35260	227	203	16	5	IAH	BOS	1597
	76057	N37290	186	164	-20	2	IAH	LAS	1222
	76058	N76269	143	120	-6	-2	IAH	DEN	862
	76062	N34222	255	240	33	52	IAH	PDX	1825
	76063	N57869	189	159	12	24	IAH	EWR	1400
	76068	N35407	169	146	21	28	IAH	PHX	1009
	76070	N71411	63	46	-6	-6	IAH	MSY	305
	76072	N17627	182	156	3	-6	IAH	BWI	1235
	76076	N54711	190	173	-11	2	IAH	LGA	1416
	76081 76084	N39728	143	125	-16	-2	IAH	GUC DCA	886
		N23721	156	138 231	-13 9	-7 17	IAH IAH	SF0	1208 1635
	76091 76095	N79521 N14613	253 64	231 37	4	-3	IAH	SAT	191
	76095	N14013 N37267	220	195	5	-3 1	IAH	BOS	1597
	76101	N71411	203	174	11	14	IAH	LAS	1222
	76101	N71411 N26208	173	154	-1	-2	IAH	IAD	1190
	76105	NZOZOO	NA	NA	NA	NA	IAH	EWR	1400
	76107	N18243	165	146	-8	-1	IAH	IAD	1190
	76110	N77525	256	233	7	4	IAH	SJC	1609
	76112	N78524	62	40	-9	-7	IAH	MSY	305
	76113	N34222	156	136	45	60	IAH	BWI	1235
	76115	N29717	191	171	- 5	4	IAH	LGA	1416
	76119	N57855	130	111	-3	21	IAH	ORD	925
	76121	N73256	141	125	-3	6	IAH	ORD	925
	76125	N78509	170	150	0	- 5	IAH	DCA	1208
	76128	N39415	261	243	-2	12	IAH	SEA	1874

##	76134	N35271	53	39	-11	-3	IAH	SAT	191
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	76133	N57862	184	163	-22	-3	IAH	LAS	1222
	76141	N77510	136	119	0	14	IAH	DEN	862
	76142	N16649	143	106	-3	-6	IAH	IND	845
	76146	N12238	199	170	5	3	IAH	EWR	1400
	76147	N12236 N14237	78	58	7	1	IAH	MFE	316
	76150	N39416	175	148	4	5	IAH	PHX	1009
	76157	N37277	198	175	2	4	IAH	LGA	1416
	76158	N75426	155	132	5	8	IAH	PIT	1117
	76161	N30401	179	160	-10	3	IAH	SLC	1195
	76162	N13248	155	138	-12	-4	IAH	CLE	1091
	76163	N78501	148	121	-8	-4	IAH	ORD	925
	76171	N25705	152	135	-18	-4	IAH	DCA	1208
	76173	N39726	208	187	-12	5	IAH	SNA	1347
	76177	N73406	252	217	11	14	IAH	SFO	1635
	76180	N16703	200	177	12	25	IAH	BOS	1597
	76181	N26123	119	98	-15	- 5	IAH	MCO	853
	76186	N37281	198	166	-10	-3	IAH	LAS	1222
	76188	N57863	137	117	-12	2	IAH	DEN	862
	76190	N87513	138	118	-7	7	IAH	DEN	862
	76192	N75433	116	88	11	14	IAH	TPA	787
	76195	N14230	165	139	5	6	IAH	MSP	1034
	76197	N16647	178	153	-6	-9	IAH	BWI	1235
	76200	N19623	198	172	-9	-4	IAH	LGA	1416
##	76205	N73270	153	130	10	12	IAH	CLE	1091
##	76209	N14228	168	147	20	16	IAH	DCA	1208
##	76212	N29124	162	139	-11	-1	IAH	EGE	935
##	76213	N75853	262	237	7	18	IAH	SEA	1874
##	76219	N76504	208	182	-20	-6	IAH	BOS	1597
##	76221	N74856	122	97	6	12	IAH	MCO	853
##	76227	N37298	190	172	-18	-3	IAH	LAS	1222
##	76231	N16709	109	95	-13	-2	IAH	TPA	787
	76232	N30401	258	233	73	88	IAH	PDX	1825
##	76237	N76504	62	43	-2	-3	IAH	MSY	305
##	76244	N11641	198	168	14	6	IAH	LGA	1416
##	76248	N18223	199	178	24	32	IAH	SAN	1303
	76249	N37434	199	177	-7	6	IAH	SAN	1303
	76250	N37263	51	33	-1	-1	IAH	AUS	140
	76251	N75429	161	133	4	-1	IAH	CLE	1091
	76252	N37437	142	125	-11	2	IAH	ORD	925
	76253	N29717	186	167	-7	2	IAH	SLC	1195
	76255	N11206	107	85	-13	-3	IAH	ATL	689
	76258	N14242	69	45	7	1	IAH	MSY	305
	76259	N47414	270	251	-4	5	IAH	SEA	1874
	76262	N14242	251	228	6	11	IAH	SF0	1635
	76263	N12221	251	228	-13	4	IAH	SF0	1635
	76267	N75851	122	98	-6	0	IAH	MCO	853
	76269	N14653	158	132	9	13	IAH	DTW	1076
	76270	N37263	216	192	1	8	IAH	LAX	1379
	76272	N75858	156	120	- 5	-4	IAH	DEN	862
	76274	N79011	192	164	1	6	IAH	EWR	1400
	76281	N13750	105	88	-4	10	IAH	TPA	787
##	76282	N36280	203	170	11	10	IAH	EWR	1400

шш	76001	N140E0	120	115	4	1	IAH	DI I	065
	76291 76297	N14250 N32404	138	115 230	1 4	1 5	IAH	FLL SFO	965 1635
	76297		254 54	230 37	-7	-4	IAH	SAT	191
	76301	N11206 N75858	127	101	-7 -6	1	IAH	MCO	853
	76301	N16632	166	138	-9	-8	IAH	DTW	1076
	76305	N37287	217	188	- <i>9</i> 8	12	IAH	LAX	1379
	76306	N76505	183	165	-25	-6	IAH	LAS	1222
	76314	N70303 N37274	52	29	0	0	IAH	AUS	140
	76314	N76269	254	234	2	2	IAH	SJC	1609
	76317	N59630	156	131	-19	-5	IAH	PIT	1117
	76321	N76288	64	41	-1	-4	IAH	MSY	305
	76323	N17620	136	113	-8	-3	IAH	CLT	913
	76328	N76502	132	109	-11	-1	IAH	FLL	965
	76331	N14604	123	96	-23	-8	IAH	RSW	861
	76337	N16703	185	162	21	23	IAH	PHL	1324
	76339	N75426	67	42	14	2	IAH	SAT	191
	76343	N78866	214	189	-4	3	IAH	LAX	1379
	76346	N72405	112	90	-6	3	IAH	TPA	787
	76351	N19638	NA	NA	NA	4	IAH	AUS	140
	76352	N46625	151	135	-16	-8	IAH	CLE	1091
	76354	N73299	135	118	-15	3	IAH	ORD	925
	76356	N37409	129	107	-4	6	IAH	FLL	965
	76360	N19621	133	103	1	-4	IAH	RSW	861
	76362	N38257	112	89	-3	6	IAH	MCI	643
	76369	N17620	51	32	-5	-5	IAH	AUS	140
##	76371	N37420	120	97	6	18	IAH	MCO	853
##	76373	N26226	205	186	-4	1	IAH	SAN	1303
##	76374	N26226	127	106	-12	4	IAH	MIA	964
##	76382	N13750	60	33	16	7	IAH	AUS	140
##	76383	N39418	212	194	-2	6	IAH	LAX	1379
##	76390	N87512	153	139	19	45	IAH	PHX	1009
##	76391	N14639	86	57	11	0	IAH	MFE	316
##	76392	N14237	65	48	1	-1	IAH	MSY	305
##	76395	N78501	234	217	-20	-4	IAH	SMF	1609
	76397	N39416	146	125	0	2	IAH	ORD	925
	76398	N17245	58	32	12	4	IAH	AUS	140
##	76399	N73259	126	107	-18	-3	IAH	FLL	965
	76402	N78511	124	100	-1	1	IAH	RSW	861
	76404	N16642	133	102	1	-4	IAH	ELP	667
	76407	N17619	62	39	-4	-6	IAH	SAT	191
	76410	N24211	208	185	-3	4	IAH	SAN	1303
	76411	N24211	140	105	-4	-1	IAH	MIA	964
	76414	N73256	218	196	-6	2	IAH	LAX	1379
	76418	N14731	72	55	-1	1	IAH	MFE	316
	76422	N39726	71	55	-8	4	IAH	OKC	395
	76424	N38268	242	222	-14	0	IAH	SMF	1609
	76425	N14613	125	109	-23	-3	IAH	ABQ	744
	76427	N78509	203	183	-9	-4	IAH	SAN	1303
	76428	N37293	60	40	4	-1	IAH	SAT	191
	76429	N27213	142	125	-2 -10	25	IAH	MTJ	926
	76432	N35271	205	187	-18	-6 7	IAH	ONT	1334
	76435	N35407	156	123	13	7	IAH	ORD	925
	76436	N57439	126	107	-2	13	IAH	FLL	965 1974
##	76440	N17229	258	242	11	32	IAH	SEA	1874

шш	76444	NOTAGA	176	15/	12	4	T A 11	חוות	1204
	76444	N37434	176 63	154 41	-13 28	-1 21	IAH IAH	PHL SAT	1324 191
	76447	N54711	156	137	-18	-3	IAH	TUS	936
	76448 76450	N27610 N27610	72	46	-16 5	-3	IAH	DFW	224
	76451	N77518	130	104	-13	-3	IAH	MIA	964
	76454	N74856	219	190	-13 5	-3 8	IAH	LAX	1379
	76461	N24715	210	189	-3	12	IAH	SNA	1347
	76462	N19638	78	45	7	-7	IAH	MSY	305
	76465	N36444	123	103	-19	-5	IAH	PBI	956
	76467	N76254	188	164	-7	-4	IAH	PHL	1324
	76470	N21723	140	123	-5	3	IAH	RDU	1043
	76473	N37255	133	102	8	8	IAH	OMA	781
	76478	N14731	116	99	5	22	IAH	MCO	853
	76480	N17245	157	138	-16	1	IAH	HDN	986
	76483	N15710	239	222	-17	0	IAH	SMF	1609
	76487	N77066	480	463	326	351	IAH	HNL	3904
	76492	N76504	63	46	0	6	IAH	MSY	305
	76493	N36280	57	37	-3	0	IAH	SAT	191
	76503	N19623	65	50	-7	-3	IAH	MSY	305
	76505	N14228	57	29	13	9	IAH	AUS	140
##	76513	N76515	238	194	16	9	IAH	LAX	1379
##	76516	N12114	210	190	-6	5	IAH	LAX	1379
##	76521	N75432	142	119	3	18	IAH	DEN	862
##	76522	N57857	216	183	10	2	IAH	EWR	1400
##	76524	N14120	200	179	97	109	IAH	EWR	1400
	76530	N33286	208	180	8	0	IAH	EWR	1400
	76533	N66051	212	185	6	4	IAH	EWR	1400
	76542	N73299	201	178	0	26	IAH	LAX	1379
##	76544	N75858	160	128	1	-1	IAH	ORD	925
	76547	N38257	206	180	-13	1	IAH	ONT	1334
	76550		NA	NA	NA	NA	IAH	DCA	1208
	76555	N37408	253	230	-14	2	IAH	SF0	1635
	76562	N73270	141	109	0	2	IAH	MIA	964
	76568	N57870	186	163	-22	-2	IAH	LAS	1222
	76570	N33714	147	122	-16	-1	IAH	DEN	862
	76575	N75429	111	94	4	17	IAH	TPA	787
	76578	N38727	267	250	-15	-6 7	IAH	PDX	1825
	76579	N37419	239	192	32	7	IAH	EWR	1400
	76581	N39416	243 162	222 138	-3 13	4 32	IAH IAH	SJU PHX	2007 1009
	76587 76593	N14102 N19638	185	161	2	-4	IAH	BWI	1235
	76593	N37273	206	182	-9	-4 -4	IAH	LGA	1416
	76604	N58606	53	30	-9 -7	-4 -7	IAH	AUS	1410
	76606	N14639	180	154	10	-1	IAH	CLE	1091
	76609	N27610	156	132	3	6	IAH	RDU	1043
	76616	N87527	174	145	1	-2	IAH	DCA	1208
	76620	N37420	267	247	15	32	IAH	SEA	1874
	76623	N53441	250	225	-10	5	IAH	SFO	1635
	76624	N27213	143	122	-9	3	IAH	DEN	862
	76627	N73275	58	35	-8	0	IAH	SAT	191
	76628	N14653	226	201	-1	-6	IAH	BOS	1597
	76635	N36444	188	163	-29	-4	IAH	LAS	1222
	76637	N33266	135	115	-18	-1	IAH	DEN	862
	76642	N14242	278	251	-1	0	IAH	PDX	1825

	70010	WE7050	000	4 77 4	4.0	4.0	T 4 **		4.400
	76643	N57852	209	174	12	12	IAH	EWR	1400
	76648	N75436	163	138	5	23	IAH	PHX	1009
	76650	N33264	65	47	-6	-3	IAH	MSY	305
	76652	N77296	173	153	5	6	IAH	BWI	1235
	76656	N35271	204	177	-8	-4	IAH	LGA	1416
	76668	N14731	176	152	4	-2	IAH	DCA	1208
	76676	N12238	251	212	-11	4	IAH	SF0	1635
	76682	N78524	49	35	0	13	IAH	SAT	191
	76684	N33266	224	202	-1	-4	IAH	BOS	1597
	76690	N33209	195	168	-4	12	IAH	LAS	1222
	76692	N38727	139	119	-1	2	IAH	IND	845
	76694	N36272	195	174	-16	3	IAH	SAN	1303
	76695	N37281	175	153	0	-3	IAH	IAD	1190
	76697	N73259	183	161	10	-1	IAH	IAD	1190
	76699	N67052	211	174	6	0	IAH	EWR	1400
	76701	N26208	177	158	6	1	IAH	IAD	1190
	76704	N78509	243	221	-9	6	IAH	SJC	1609
	76706	N37274	82	43	10	-3	IAH	MSY	305
	76707	N78501	168	148	64	72	IAH	BWI	1235
	76710	N16701	212	187	12	1	IAH	LGA	1416
	76714	N17620	84	69	-6	-3	IAH	TUL	429
	76715	N77867	152	125	-8	-1	IAH	ORD	925
	76717	N36247	160	137	7	1	IAH	ORD	925
##	76722	N38257	170	153	0	0	IAH	DCA	1208
##	76726	N75433	274	254	-6	0	IAH	SEA	1874
##	76732	N17233	54	35	-12	0	IAH	SAT	191
	76735	N76517	244	212	19	-1	IAH	BOS	1597
	76740	N77871	191	163	-16	1	IAH	LAS	1222
##	76742	N76515	144	123	-9	2	IAH	DEN	862
##	76743	N17619	137	113	61	69	IAH	IND	845
##	76749	N53442	214	183	17	8	IAH	EWR	1400
##	76750	N37290	77	55	-6	-6	IAH	MFE	316
##	76756	N77431	166	144	-12	3	IAH	PHX	1009
##	76763	N37277	203	182	-1	1	IAH	LGA	1416
##	76764	N30401	182	157	19	0	IAH	PIT	1117
##	76769	N38403	168	150	-15	14	IAH	SLC	1195
##	76770	N54711	169	151	2	-3	IAH	CLE	1091
##	76771	N27239	149	125	-10	-2	IAH	ORD	925
##	76781		NA	NA	NA	NA	IAH	DCA	1208
##	76788	N32404	280	224	17	-3	IAH	SF0	1635
##	76793	N14629	234	204	18	2	IAH	BOS	1597
##	76795	N29124	114	98	-5	15	IAH	MCO	853
##	76801	N36280	198	164	-9	3	IAH	LAS	1222
##	76803	N76156	135	115	9	30	IAH	DEN	862
##	76805	N36247	146	120	-5	5	IAH	DEN	862
##	76807	N37281	118	93	0	6	IAH	TPA	787
##	76810	N76502	164	142	-4	3	IAH	MSP	1034
##	76814	N33262	63	45	-7	-3	IAH	MSY	305
	76817	N23721	168	154	-13	-6	IAH	BWI	1235
	76820	N17245	213	192	3	-2	IAH	LGA	1416
	76824	N33292	159	142	-2	1	IAH	CLE	1091
	76829	N78285	168	147	1	2	IAH	DCA	1208
	76832	N26123	156	137	-23	-2	IAH	EGE	935
	76833	N75851	271	250	4	11	IAH	SEA	1874

	76836	N39418	241	220	102	129	IAH	SF0	1635
##	76841	N13750	222	201	-2	3	IAH	BOS	1597
##	76844	N77431	121	102	-10	2	IAH	MCO	853
##	76850	N38417	182	161	-31	-3	IAH	LAS	1222
##	76854	N39728	110	92	-12	3	IAH	TPA	787
##	76855	N38403	270	245	-7	1	IAH	PDX	1825
##	76858	N23708	68	51	0	-2	IAH	MSY	305
##	76865	N37273	214	192	32	13	IAH	LGA	1416
##	76869	N26215	182	167	15	45	IAH	SAN	1303
##	76870	N75432	192	169	-25	0	IAH	SAN	1303
##	76871	N14228	49	28	25	32	IAH	AUS	140
##	76872	N24212	174	148	9	-2	IAH	CLE	1091
##	76873	N76526	147	126	29	42	IAH	ORD	925
##	76874	N39728	175	160	-32	-7	IAH	SLC	1195
##	76876	N59630	124	90	18	17	IAH	ATL	689
##	76877	N76523	199	175	-27	4	IAH	SNA	1347
##	76881	N76254	63	45	-1	4	IAH	MSY	305
##	76882	N75435	281	260	13	16	IAH	SEA	1874
##	76885	N73259	277	252	77	61	IAH	SF0	1635
##	76886	N37252	249	225	-17	4	IAH	SF0	1635
##	76887	N14230	195	164	4	0	IAH	PHL	1324
	76892	N57868	123	103	-13	-3	IAH	MCO	853
	76894	N16649	203	156	30	-6	IAH	DTW	1076
	76897	N76505	204	181	65	89	IAH	LAX	1379
	76900	N57862	142	118	-19	1	IAH	DEN	862
	76906	N78013	245	170	45	5	IAH	EWR	1400
	76910	N73406	168	143	-9	0	IAH	PHX	1009
	76916	N73256	125	97	1	0	IAH	TPA	787
	76917	N24729	230	182	25	5	IAH	EWR	1400
	76926	N30401	148	127	-5	-1	IAH	ORD	925
	76927	N73299	130	110	-16	-3	IAH	FLL	965
	76931	N17719	156	142	35	54	IAH	DCA	1208
	76934	N35407	266	217	10	4	IAH	SF0	1635
	76937	N17620	66	38	1	-3	IAH	SAT	191
	76939	N57862	128	105	-14	-3	IAH	MCO	853
	76941	N76288	175	154	6	-1	IAH	DTW	1076
	76943	N33289	240	181	18	3	IAH	LAX	1379
	76944	N17245	174	158	-32	1	IAH	LAS	1222
	76946	N77258	156	125	5	1	IAH	DEN	862
	76955	N27239	47	30	-13	-3	IAH	AUS	140
	76957	N39297	241	220	-13	5	IAH	SJC	1609
	76958	N16632	183	150	2	-6	IAH	PIT	1117
	76962	N77296	58	42	-12	-4	IAH	MSY	305
	76964	N16642	141	114	-7	-2	IAH	CLT	913
	76970	N79521	142	113	-6	-1	IAH	FLL	965
	76974	N77518	200	178	-4	19	IAH	SNA	1347
	76976	N16647	132	102	-18	-7	IAH	RSW	861
	76983	N17619	203	172	48	37	IAH	PHL	1324
	76985	N36247	65	42	6	1	IAH	SAT	191
	76987	N14731	178	146	15	8	IAH	DTW	1076
	76990	N77867	201	178	-16	9	IAH	LAX	1379
	76990	N73275	184	162	-16 -29	-1	IAH	LAX	1222
	76996	N73273 N37408	113	90	-2 <i>9</i> 5	18	IAH	TPA	787
					-2				
##	76998	N17730	204	179	-2	26	IAH	SNA	1347

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	77005	N16646	54	27	-2	- 2	IAH	AUS	140
	77006	N18243	174	152	16	8	IAH	CLE	1091
	77008	N73256	161	140	11	7	IAH	ORD	925
	77010	N72405	130	112	31	45	IAH	FLL	965
	77014	N76523	177	151	9	2	IAH	DCA	1208
	77018	N77518	124	104	-9	-3	IAH	RSW	861
	77020	N19638	117	96	-6	3	IAH	MCI	643
	77027	N39726	51	28	-3	2	IAH	AUS	140
	77029	N14228	128	107	7	16	IAH	MCO	853
	77031	N54241	198	177	12	29	IAH	SAN	1303
	77032	N26226	136	113	-6	1	IAH	MIA	964
	77040	N37252	50	30	1	7	IAH	AUS	140
	77041	N33294	205	184	-9	11	IAH	LAX	1379
##	77048	N77430	168	143	-16	0	IAH	PHX	1009
##	77049	N39726	74	54	-5	1	IAH	MFE	316
##	77050	N77261	70	52	0	-2	IAH	MSY	305
##	77052	N15710	199	177	-30	-2	IAH	SNA	1347
##	77053	N46625	229	206	22	-4	IAH	LGA	1416
##	77056	N59630	75	53	-10	-7	IAH	MFE	316
##	77057	N21723	243	219	-5	7	IAH	SMF	1609
##	77059	N32404	153	131	-3	-3	IAH	ORD	925
	77060	N14230	136	115	5	15	IAH	FLL	965
##	77064	N14242	134	105	17	14	IAH	RSW	861
	77067	N19621	133	101	-5	-5	IAH	ELP	667
	77068	N75428	194	167	54	52	IAH	PHL	1324
	77071	N16632	60	33	-10	-5	IAH	SAT	191
	77076	N14604	175	145	2	0	IAH	DTW	1076
	77077	N37298	196	174	-16	8	IAH	SAN	1303
	77078	N33209	136	107	-8	4	IAH	MIA	964
	77082	N73278	198	180	76	109	IAH	LAX	1379
	77087	N17719	73	56	-6	0	IAH	MFE	316
	77092	N19623	95	62	33	26	IAH	OKC	395
	77094	N17233	239	217	-23	-1	IAH	SMF	1609
	77095	N14653	135	105	-17	-2	IAH	ABQ	744
	77096	N14214	190	172	6	29	IAH	SAN	1303
	77098	N76504	191	175	-11	20	IAH	ONT	1334
	77103	N38417	157	135	-2	-4	IAH	ORD	925
	77104	N39297	147	110	21	20	IAH	FLL	965
	77106 77111	N16632	123 279	95 254	-6 -4	0	IAH IAH	ATL SEA	689 1874
	77111	N14237 N39415	200	254 171	-4 25	18	IAH	PHL	1324
	77114	N35271	56	34	-6	-1	IAH	SAT	191
	77118	N33271 N14639	156	130	-22	-1 -2	IAH	TUS	936
	77121	N62631	76	43	1	-3	IAH	DFW	224
	77123	N12221	133	112	19	26	IAH	MIA	964
	77126	N57863	218	183	-2	7	IAH	LAX	1379
	77135	N24715	211	187	-20	-1	IAH	SNA	1347
	77136	N17620	63	46	-9	-3	IAH	MSY	305
	77139	N77430	143	109	1	0	IAH	PBI	956
	77141	N76269	202	179	-8	-5	IAH	LGA	1416
	77142	N13248	217	195	20	-1	IAH	PHL	1324
	77143	N25705	171	152	10	5	IAH	CLE	1091
	77147	N59630	160	137	-1	-4	IAH	RDU	1043
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	77450	N70504	400	444	0	4	T A 11	0344	704
	77150	N78524	126	111	-8	1	IAH	AMO	781
	77155	N37255	129	99	-14	-5	IAH	MCO	853
	77157	N14629	162	141	-24	-4	IAH	HDN	986
	77160	N34222	234	209	-29	-2	IAH	SMF	1609
	77165	N76055	474	455	-6	25	IAH	HNL	3904
	77170	N12216	63	45	23	29	IAH	MSY	305
	77171	N37298	53	38	98	105	IAH	SAT	191
	77181	N16646	71	46	-1	-3	IAH	MSY	305
	77183	N76503	47	29	6	12	IAH	AUS	140
	77191	N73270	216	180	-11	4	IAH	LAX	1379
	77194	N34137	209	184	-16	1	IAH	LAX	1379
	77199	N75858	138	118	143	162	IAH	DEN	862
	77200	N76153	184	158	2	26	IAH	EWR	1400
	77202	N21108	203	167	24	33	IAH	EWR	1400
	77208		NA	NA	NA	NA	IAH	EWR	1400
	77212	N66056	283	161	95	22	IAH	EWR	1400
	77218	N37287	76	47	7	-1	IAH	MSY	305
	77222	N77295	203	180	210	234	IAH	LAX	1379
	77224	N77867	162	137	4	0	IAH	ORD	925
	77227	N73278	197	179	219	242	IAH	ONT	1334
	77230	N39726	159	142	-13	-2	IAH	DCA	1208
	77235	N71411	236	212	-26	7	IAH	SF0	1635
	77242	N76269	129	109	-7	7	IAH	MIA	964
	77248	N75861	202	157	-3	1	IAH	LAS	1222
	77250	N17229	146	125	-18	-2	IAH	DEN	862
	77255	N38424	112	92	16	28	IAH	TPA	787
	77258	N17730	245	234	137	168	IAH	PDX	1825
	77259	N37420	195	168	24	43	IAH	EWR	1400
	77261	N77431	240	218	0	10	IAH	SJU	2007
	77267	N12109	192	151	16	5	IAH	PHX	1009
	77273	N27610	171	148	-11	-3	IAH	BWI	1235
	77277	N37274	199	162	-13	-1	IAH	LGA	1416
	77284	N13624	55	30	0	-2	IAH	AUS	140
	77286	N14653	191	141	14	-8	IAH	CLE	1091
##	77289	N39726	136	113	208	227	IAH	RDU	1043
##	77296		NA	NA	NA	NA	IAH	DCA	1208
	77300	N36444	268	253	45	61	IAH	SEA	1874
	77303	N75432	237	214	-15	13	IAH	SF0	1635
	77304	N26226	155	126	7	7	IAH	DEN	862
	77307	N38268	57	35	-9	0	IAH	SAT	191
	77308	N33264	217	188	-2	2	IAH	BOS	1597
	77315	N75433	212	163	-2	-1	IAH	LAS	1222
	77317	N77431	148	126	42	46	IAH	DEN	862
	77322	N37290	259	244	-18	2	IAH	PDX	1825
	77323	N57869	206	180	51	54	IAH	EWR	1400
	77328	N75425	169	150	-12	0	IAH	PHX	1009
	77330	N73275	61	45	61	68	IAH	MSY	305
	77332	N14237	168	144	-5	1	IAH	BWI	1235
	77336	N14230	192	163	-15	1	IAH	LGA	1416
	77347	N24729	146	129	-18	-7	IAH	GUC	886
	77350	N14704	165	141	-8	-3	IAH	DCA	1208
##	77358	N33284	225	208	-6	35	IAH	SF0	1635
##	77364	N58606	63	36	-2	-3	IAH	SAT	191
##	77366	N77261	203	182	-24	-6	IAH	BOS	1597

	77372	N73251	190	158	-7	14	IAH	LAS	1222
	77374	N37419	138	111	-9	-5	IAH	IND	845
	77376	N37267	192	174	-12	10	IAH	SAN	1303
	77377	N17719	209	148	34	-3	IAH	IAD	1190
	77379	N36280	162	141	35	45	IAH	IAD	1190
	77381		NA	NA	NA	NA	IAH	EWR	1400
	77383	N33289	157	135	-15	0	IAH	IAD	1190
	77386	N77518	224	203	-12	22	IAH	SJC	1609
	77388	N33266	60	41	-11	-2	IAH	MSY	305
	77389	N37290	165	144	-1	10	IAH	BWI	1235
	77392	N24715	181	162	-17	3	IAH	LGA	1416
	77396	N19621	96	69	2	-7	IAH	TUL	429
	77397	N57857	152	128	11	18	IAH	ORD	925
	77399	N37252	152	131	8	10	IAH	ORD	925
	77404	N18243	157	139	-13	0	IAH	DCA	1208
	77408	N37419	281	257	2	1	IAH	SEA	1874
##	77414	N77258	61	36	-8	-3	IAH	SAT	191
	77417	N77520	218	188	2	8	IAH	BOS	1597
##	77422	N75854	200	163	-6	2	IAH	LAS	1222
##	77424	N36272	151	124	-4	0	IAH	DEN	862
	77425	N16646	150	124	1	-4	IAH	IND	845
##	77431	N47414	259	182	181	127	IAH	EWR	1400
	77432	N18243	68	52	-5	4	IAH	MFE	316
##	77438	N75426	170	145	114	125	IAH	PHX	1009
##	77444	N37263	203	175	57	59	IAH	LGA	1416
##	77445	N32404	157	135	104	110	IAH	PIT	1117
##	77450	N30401	191	166	-8	-2	IAH	SLC	1195
##	77451	N16234	160	137	-7	-3	IAH	CLE	1091
	77452	N77258	157	128	1	1	IAH	ORD	925
##	77462	N23708	164	143	-8	-1	IAH	DCA	1208
##	77469	N38417	227	210	31	64	IAH	SF0	1635
##	77474	N33292	209	187	-8	1	IAH	BOS	1597
	77476	N21108	124	100	-14	-4	IAH	MCO	853
##	77482	N14237	176	153	-27	7	IAH	LAS	1222
##	77484	N57862	143	119	-2	11	IAH	DEN	862
##	77486	N37252	150	122	-2	4	IAH	DEN	862
##	77488	N39297	112	89	25	37	IAH	TPA	787
	77491	N14731	180	158	18	9	IAH	MSP	1034
##	77495	N14214	68	50	1	0	IAH	MSY	305
	77498	N13750	166	150	-11	3	IAH	BWI	1235
	77501	N15710	213	175	110	105	IAH	LGA	1416
	77505	N76502	169	142	16	9	IAH	CLE	1091
	77510	N24729	155	140	-14	0	IAH	DCA	1208
	77513	N38727	167	143	-10	0	IAH	EGE	935
##	77514	N57868	276	251	7	9	IAH	SEA	1874
##	77517	N37434	225	205	35	78	IAH	SF0	1635
##	77522	N38268	212	189	-11	4	IAH	BOS	1597
##	77525	N78866	130	101	-5	-2	IAH	MCO	853
##	77531	N35407	189	161	27	48	IAH	LAS	1222
	77535	N16703	119	94	-9	-3	IAH	TPA	787
	77536	N30401	262	237	-15	1	IAH	PDX	1825
##	77539	N26226	68	46	0	-2	IAH	MSY	305
##	77546	N36272	180	160	94	109	IAH	LGA	1416
##	77550	N39416	182	167	-30	0	IAH	SAN	1303

	77551	N75426	196	175	-19	2	IAH	SAN	1303
	77552	N33286	54	30	-4	-2	IAH	AUS	140
##	77553	N87513	167	138	5	1	IAH	CLE	1091
	77554	N27239	158	134	13	15	IAH	ORD	925
	77555	N14250	181	162	-16	3	IAH	SLC	1195
	77557	N14629	121	84	-1	1	IAH	ATL	689
	77558	N77518	221	183	-10	-1	IAH	SNA	1347
	77562	N26215	68	46	-5	-5	IAH	MSY	305
	77563	N11206	268	251	-14	2	IAH	SEA	1874
##	77566	N26215	231	212	-27	3	IAH	SFO	1635
##	77567	N73278	242	215	-28	0	IAH	SFO	1635
##	77568	N23708	171	147	-18	2	IAH	PHL	1324
##	77573	N75851	120	98	0	13	IAH	MCO	853
##	77575	N17627	168	143	-2	-3	IAH	DTW	1076
##	77578	N39415	203	182	-3	22	IAH	LAX	1379
##	77581	N77871	146	121	-17	-1	IAH	DEN	862
##	77587	N78009	335	176	267	137	IAH	EWR	1400
##	77592	N37413	164	145	-4	9	IAH	PHX	1009
##	77598	N12225	114	94	21	31	IAH	TPA	787
##	77599	N12225	203	171	65	72	IAH	EWR	1400
##	77608	N38403	158	140	8	2	IAH	ORD	925
##	77609	N77295	135	111	-9	-1	IAH	FLL	965
##	77613	N54711	162	140	-2	11	IAH	DCA	1208
##	77616	N37409	230	210	-28	2	IAH	SF0	1635
##	77619	N76254	55	36	13	20	IAH	SAT	191
##	77621	N77871	114	93	-13	12	IAH	MCO	853
##	77623	N24202	175	144	7	0	IAH	DTW	1076
##	77625	N24202	199	179	13	39	IAH	LAX	1379
##	77626	N24212	193	168	-19	-5	IAH	LAS	1222
##	77628	N78511	150	121	19	21	IAH	DEN	862
##	77637	N37274	43	26	134	148	IAH	AUS	140
##	77639	N33266	246	211	-15	-2	IAH	SJC	1609
##	77640	N27610	167	144	-11	-3	IAH	PIT	1117
##	77644	N34222	62	45	2	6	IAH	MSY	305
##	77646	N14629	128	108	-23	-5	IAH	CLT	913
##	77652	N76505	139	115	-8	0	IAH	FLL	965
##	77656	N76522	198	180	-26	-1	IAH	SNA	1347
##	77658	N16632	123	100	-23	-3	IAH	RSW	861
##	77665	N14242	184	151	93	101	IAH	PHL	1324
##	77667	N39416	57	39	4	7	IAH	SAT	191
##	77669	N79521	176	143	3	-2	IAH	DTW	1076
##	77672	N57857	218	183	-1	7	IAH	LAX	1379
##	77674	N37422	193	168	-17	2	IAH	LAS	1222
##	77675	N16217	160	139	-9	1	IAH	DCA	1208
##	77679	N71411	111	87	-7	8	IAH	TPA	787
##	77681	N16732	209	186	-12	11	IAH	SNA	1347
##	77686	N53442	53	31	0	2	IAH	AUS	140
	77688	N14613	55	31	0	-1	IAH	AUS	140
	77689	N16648	158	134	-11	-3	IAH	CLE	1091
	77691	N36247	180	136	29	6	IAH	ORD	925
	77693	N38403	153	113	10	1	IAH	FLL	965
	77700	N76522	127	106	-4	-1	IAH	RSW	861
	77702	N19638	130	102	3	-1	IAH	MCI	643
	77709	N39416	50	32	-11	-5	IAH	AUS	140

	77711	N76503	116	94	-1	20	IAH	MCO	853
	77713	N35204	197	178	-15	3	IAH	SAN	1303
	77714	N77296	135	114	-8	0	IAH	MIA	964
		N76504	54	30	2	4	IAH	AUS	140
		N37413	211	183	11	25	IAH	LAX	1379
		N73406	176	147	-3	5	IAH	PHX	1009
		N16642	76	56	-6	-2	IAH	MFE	316
##	77732	N18243	61	43	-6	1	IAH	MSY	305
##	77734	N23721	203	184	-7	17	IAH	SNA	1347
		N16632	188	166	216	231	IAH	LGA	1416
		N58606	79	57	-2	-3	IAH	MFE	316
		N73299	230	212	-25	0	IAH	SMF	1609
		N79402	157	131	31	27	IAH	ORD	925
		N73259	136	114	-6	4	IAH	FLL	965
		N27213	118	94	-13	0	IAH	RSW	861
		N14613	118	100	-19	-4	IAH	ELP	667
		N53441	216	170	42	18	IAH	PHL	1324
		N62631	65	38	-3	-3	IAH	SAT	191
##	77758	N16647	176	148	45	42	IAH	DTW	1076
##	77759	N24212	202	179	-13	5	IAH	SAN	1303
##	77760	N12221	137	109	6	17	IAH	MIA	964
##	77764	N18220	213	186	-15	3	IAH	LAX	1379
##	77769	N87512	76	56	10	13	IAH	MFE	316
##	77774	N14639	86	61	-6	-4	IAH	OKC	395
##	77776	N76269	254	233	-11	-4	IAH	SMF	1609
##	77777	N17620	133	109	-11	6	IAH	ABQ	744
##	77778	N75436	187	171	40	66	IAH	SAN	1303
##	77780	N33292	209	182	-13	0	IAH	ONT	1334
##	77785	N35407	156	124	9	8	IAH	ORD	925
##	77786	N76254	138	108	0	8	IAH	FLL	965
##	77788	N62631	124	85	1	6	IAH	ATL	689
##	77793	N39418	283	253	2	3	IAH	SEA	1874
##	77796	N14214	180	160	8	21	IAH	PHL	1324
##	77799	N14230	57	35	8	12	IAH	SAT	191
##	77800	N17620	173	142	-7	-4	IAH	TUS	936
##	77803	N17719	70	48	10	12	IAH	DFW	224
##	77805	N54241	144	113	6	2	IAH	MIA	964
##	77808	N78866	206	176	-7	14	IAH	LAX	1379
##	77817	N13750	208	179	41	63	IAH	SNA	1347
	77818	N14613	63	42	-12	-6	IAH	MSY	305
	77821	N36207	127	109	-10	5	IAH	PBI	956
	77823	N35271	176	156	-22	7	IAH	LGA	1416
	77824	N17233	200	164	36	32	IAH	PHL	1324
	77825	N17730	149	131	-6	11	IAH	CLE	1091
##	77829	N46625	146	117	-9	2	IAH	RDU	1043
##	77832	N33209	138	113	4	1	IAH	OMA	781
	77837	N39297	122	97	-21	-5	IAH	MCO	853
	77839	N19621	176	140	-9	-3	IAH	HDN	986
	77842	N38727	227	210	14	48	IAH	SMF	1609
	77847	N76065	486	471	0	19	IAH	HNL	3904
	77852	N24212	56	41	-1	12	IAH	MSY	305
	77853	N13248	63	37	2	-1	IAH	SAT	191
##	77862	N75428	61	43	-9	-1	IAH	MSY	305
##	77864	N19638	56	27	1	-2	IAH	AUS	140

	77872	N78509	216	190	-17	-2	IAH	LAX	1379
	77875	N41135	211	189	-16	-1	IAH	LAX	1379
##	77880	N77867	166	137	11	2	IAH	DEN	862
##	77881		NA	NA	NA	NA	IAH	EWR	1400
##	77883	N13113	193	161	47	66	IAH	EWR	1400
##	77889	N36280	215	184	12	-3	IAH	EWR	1400
##	77893	N69059	231	176	181	160	IAH	EWR	1400
##	77899	N26226	72	47	6	2	IAH	MSY	305
##	77903	N33209	218	194	-7	2	IAH	LAX	1379
##	77904	N75854	164	128	14	8	IAH	ORD	925
##	77907	N24202	223	196	7	4	IAH	ONT	1334
##	77910		NA	NA	NA	NA	IAH	DCA	1208
##	77915	N39297	244	221	-24	1	IAH	SFO	1635
##	77921	N38268	129	105	-16	-2	IAH	MIA	964
##	77925	N14228	155	124	4	11	IAH	DEN	862
##	77930	N77430	121	96	-3	0	IAH	TPA	787
##	77933	N17719	264	243	-13	-1	IAH	PDX	1825
	77934		NA	NA	NA	NA	IAH	EWR	1400
##	77936	N47414	260	239	7	-3	IAH	SJU	2007
##	77942	N12114	182	153	3	2	IAH	PHX	1009
	77951	N14242	200	165	15	26	IAH	LGA	1416
##	77958	N19623	50	27	-5	-2	IAH	AUS	140
	77960	N16647	161	132	-13	-5	IAH	CLE	1091
	77963	N16646	153	127	-8	-2	IAH	RDU	1043
	77969	N87513	162	140	1	10	IAH	DCA	1208
	77975	N16234	144	118	1	12	IAH	DEN	862
	77978	N32404	217	185	9	13	IAH	BOS	1597
	77984	N13248	149	123	-10	-7	IAH	DEN	862
	77989	N37290	273	259	-10	-4	IAH	PDX	1825
	77990	N77865	NA	NA	NA	26	IAH	EWR	1400
	77994	N75433	172	149	12	21	IAH	PHX	1009
	77995	N73276	63	43	-7	-2	IAH	MSY	305
	77997	N76526	176	157	3	1	IAH	BWI	1235
	78001	N77261	221	184	21	8	IAH	LGA	1416
	78013	N76503	161	147	-13	-4	IAH	DCA	1208
	78019	N37252	243	215	-21	2	IAH	SF0	1635
	78024	N76505	61	40	0	1	IAH	SAT	191
	78031	N73259	201	178	-8	-1	IAH	LAS	1222
	78033	N12216	130	104	-12	0	IAH	IND	845
	78035	N33292	170	143	- 5	-3	IAH	IAD	1190
	78037	N37298	194	176	20	-2	IAH	IAD	1190
	78039	N76523	221	188	10	-6	IAH	EWR	1400
	78041	N77296	NA	NA	NA	0	IAH	IAD	1190
	78044	N87513	237	216	-18	3	IAH	SJC	1609
	78045	N37267	69	42	-3	-3	IAH	MSY	305
	78046	¥00004	NA	NA	NA	NA	IAH	BWI	1235
	78049	N33284	200	177	44	45	IAH	LGA	1416
	78053	N17620	78	61	-18	-9	IAH	TUL	429
	78054	N75861	161	124	-7	-9	IAH	ORD	925
	78056	N79279	154	134	0	0	IAH	ORD	925
	78061	N17233	183	158	11	-2	IAH	DCA	1208
	78065	N38417	271	249	-10	-1	IAH	SEA	1874
	78071	N33264	62	40	-3	1	IAH	SAT	191
##	78072	N76516	229	200	6	1	IAH	BOS	1597

	78076	N57869	206	182	-1	1	IAH	LAS	1222
	78078	N14653	142	105	-15	-12	IAH	IND	845
	78084	N37419	227	190	193	171	IAH	EWR	1400
	78085	N24729	71	55	-7	-1	IAH	MFE	316
	78091	N37434	169	151	-16	-4	IAH	PHX	1009
	78097	N35271	206	180	84	83	IAH	LGA	1416
	78098	N76254	162	137	1	2	IAH	PIT	1117
	78103	N35407	186	164	-8	3	IAH	SLC	1195
	78104	N19638	165	136	-15	-10	IAH	CLE	1091
	78105	N78509	151	130	-10	-4	IAH	ORD	925
	78115		NA	NA	NA	NA	IAH	DCA	1208
	78117	N76519	221	198	-14	-5	IAH	SNA	1347
	78123	N35407	243	214	-8	9	IAH	SF0	1635
	78128	N12238	212	185	-14	-8	IAH	BOS	1597
	78130	N13113	173	102	38	-1	IAH	MCO	853
	78136	N33292	204	173	-6	0	IAH	LAS	1222
	78138	N57868	152	124	7	11	IAH	DEN	862
##	78140	N27213	144	122	-9	3	IAH	DEN	862
##	78142	N73299	114	92	-10	0	IAH	TPA	787
##	78145	N12225	176	140	11	6	IAH	MSP	1034
##	78149	N33264	72	49	4	-1	IAH	MSY	305
##	78152	N27610	177	159	-6	-3	IAH	BWI	1235
##	78154		NA	NA	NA	NA	IAH	LGA	1416
	78158	N73276	164	138	-3	-5	IAH	CLE	1091
	78161		NA	NA	NA	NA	IAH	DCA	1208
##	78164	N24729	161	143	-22	-6	IAH	EGE	935
##	78166	N75851	283	262	5	0	IAH	SEA	1874
##	78169	N26208	251	223	-10	7	IAH	SFO	1635
##	78173	N77258	224	188	-6	-3	IAH	BOS	1597
##	78179	N79402	208	180	-1	1	IAH	LAS	1222
##	78183	N23707	123	93	-7	-5	IAH	TPA	787
##	78184	N32404	273	246	-8	-3	IAH	PDX	1825
	78193		NA	NA	NA	NA	IAH	LGA	1416
##	78197	N39418	204	183	-12	1	IAH	SAN	1303
##	78198	N75429	159	128	-6	-2	IAH	CLE	1091
##	78199	N77510	164	135	11	7	IAH	ORD	925
##	78200	N36280	174	156	-14	12	IAH	SLC	1195
	78202	N14639	118	86	-13	-8	IAH	ATL	689
	78205	N26215	67	46	-4	-3	IAH	MSY	305
	78206	N87507	280	256	5	9	IAH	SEA	1874
	78209	N34222	248	212	-17	-4	IAH	SF0	1635
	78210	N37255	247	221	-20	3	IAH	SF0	1635
	78211	N14230	227	156	180	144	IAH	PHL	1324
	78216	N77871	122	103	-10	1	IAH	MCO	853
	78219	N77295	222	195	4	10	IAH	LAX	1379
	78222	N57857	152	123	-6	4	IAH	DEN	862
	78228	N77014	219	185	45	31	IAH	EWR	1400
	78233	N37408	174	148	13	16	IAH	PHX	1009
	78240		NA	NA	NA	NA	IAH	EWR	1400
	78248	N30401	135	117	3	20	IAH	ORD	925
	78249	N33209	133	112	-12	-2	IAH	FLL	965
	78253		NA	NA	NA	NA	IAH	DCA	1208
	78256	N37409	249	216	-4	7	IAH	SF0	1635
##	78259	N12221	58	40	1	5	IAH	SAT	191

	78261	N57857	131	102	-2	6	IAH	MCO	853
	78263	N33289	163	134	-6	-1	IAH	DTW	1076
	78265	N33289	201	182	-30	-6	IAH	LAX	1379
	78266	N13248	202	176	-7	-2	IAH	LAS	1222
	78268	N79521	162	124	9	-1	IAH	DEN	862
	78276	N33266	62	29	10	5	IAH	AUS	140
	78278	N33266	233	220	-28	-2	IAH	SJC	1609
	78279	N76502	167	138	-9	-5	IAH	PIT	1117
	78283	N73270	62	43	-6	-2	IAH	MSY	305
	78285	N16642	137	118	-12	-3	IAH	CLT	913
	78294	N76522	222	195	4	5	IAH	SNA	1347
	78301	N14242	54	38	88	94	IAH	SAT	191
	78303	N39297	164	130	-15	-8	IAH	DTW	1076
	78305	N75861	221	195	-5	0	IAH	LAX	1379
	78307	N24224	208	176	-3	1	IAH	LAS	1222
	78311	N75410	113	91	-10	3	IAH	TPA	787
	78312	N39726	213	190	-12	7	IAH	SNA	1347
	78316	N73278	56	29	1	0	IAH	AUS	140
##	78318	N14629	53	31	0	1	IAH	AUS	140
##	78319	N16649	154	135	-22	-10	IAH	CLE	1091
##	78321	N17245	155	136	-3	-1	IAH	ORD	925
##	78323	N30401	135	118	67	76	IAH	FLL	965
##	78327	N76519	57	30	3	2	IAH	AUS	140
##	78331	N76522	128	109	1	3	IAH	RSW	861
##	78333	N16648	121	95	-5	0	IAH	MCI	643
##	78340	N37408	47	30	-12	-3	IAH	AUS	140
##	78342	N75432	120	99	-17	0	IAH	MCO	853
##	78344	N27239	211	185	-6	-2	IAH	SAN	1303
##	78345	N33286	137	115	-3	3	IAH	MIA	964
##	78351		NA	NA	NA	NA	IAH	DCA	1208
##	78357	N58606	81	56	-3	-4	IAH	MFE	316
##	78358	N75429	63	44	-7	-2	IAH	MSY	305
##	78360	N17719	201	188	-25	1	IAH	SNA	1347
##	78361		NA	NA	NA	NA	IAH	LGA	1416
##	78364	N26226	249	228	-8	-2	IAH	SMF	1609
##	78366	N34222	144	126	-16	- 7	IAH	ORD	925
##	78367	N33286	140	117	-8	-2	IAH	FLL	965
##	78371	N37290	119	97	8	20	IAH	RSW	861
##	78375	N14629	131	107	-1	1	IAH	ELP	667
##	78376	N36444	190	162	-1	1	IAH	PHL	1324
##	78379	N12216	53	37	-15	-3	IAH	SAT	191
##	78384	N16632	174	135	-5	-6	IAH	DTW	1076
##	78385	N37281	204	181	-16	0	IAH	SAN	1303
##	78389	N79279	220	194	-7	4	IAH	LAX	1379
##	78394	N17229	78	56	-4	-3	IAH	MFE	316
##	78398	N58606	86	64	-5	-3	IAH	OKC	395
##	78400	N53442	233	217	-31	-3	IAH	SMF	1609
##	78401	N14613	141	122	-12	-3	IAH	ABQ	744
##	78402	N75428	204	181	-8	1	IAH	SAN	1303
##	78405	N73259	207	188	-18	-3	IAH	ONT	1334
##	78409	N77865	155	125	1	1	IAH	ORD	925
##	78410	N53442	144	116	10	12	IAH	FLL	965
##	78411	N14653	131	99	0	-2	IAH	ATL	689
##	78415	N53441	272	255	-5	7	IAH	SEA	1874

##	78417		NA	NA	NA	NA	IAH	PHL	1324
	78419	N37274	59	37	- 5	-3	IAH	SAT	191
	78420	N16617	74	41	-3	-5	IAH	DFW	224
	78422	N26226	138	114	8	10	IAH	MIA	964
##	78425	N57864	217	186	-4	6	IAH	LAX	1379
##	78434	N14731	220	201	-10	0	IAH	SNA	1347
##	78437	N57439	133	110	-9	0	IAH	PBI	956
##	78439		NA	NA	NA	NA	IAH	LGA	1416
	78440	N78501	184	160	140	152	IAH	PHL	1324
##	78441	N25705	146	127	-19	1	IAH	CLE	1091
##	78445	N17619	155	124	-8	-6	IAH	RDU	1043
##	78448	N76505	125	105	-11	-1	IAH	OMA	781
	78453	N37409	128	102	-3	7	IAH	MCO	853
	78455	N17620	180	153	-6	-4	IAH	HDN	986
	78458	N23707	236	217	-25	0	IAH	SMF	1609
	78463	N68061	493	473	-13	-1	IAH	HNL	3904
	78468	N14230	67	44	-4	-2	IAH	MSY	305
	78469	N33286	71	41	9	-2	IAH	SAT	191
	78478	N16632	73	46	-2	-6	IAH	MSY	305
	78480	N24224	56	32	94	91	IAH	AUS	140
	78490 78495	N17133	235	192	9	0	IAH	LAX	1379
	78495 78496	N57868	148 187	125 165	106 -21	115	IAH	DEN	862 1400
	78498	N18119 N58101	184	158	-21 -24	0 4	IAH IAH	EWR EWR	1400
	78504	N12218	190	164	-10	0	IAH	EWR	1400
	78508	N66051	190	163	-20	0	IAH	EWR	1400
	78514	N36444	64	44	-4	0	IAH	MSY	305
	78518	N33284	225	194	1	3	IAH	LAX	1379
	78519	N57857	160	124	4	2	IAH	ORD	925
	78522	N76254	210	182	-2	8	IAH	ONT	1334
	78525	N23707	157	136	-20	-7	IAH	DCA	1208
##	78530	N38403	245	224	-23	1	IAH	SF0	1635
##	78536	N38268	136	114	-9	-2	IAH	MIA	964
##	78540	N77296	140	117	-23	-1	IAH	DEN	862
##	78545	N39415	130	106	2	-4	IAH	TPA	787
##	78548	N15712	274	255	-3	-1	IAH	PDX	1825
	78549	N29129	198	162	-14	2	IAH	EWR	1400
##	78551	N53442	271	248	17	-4	IAH	SJU	2007
	78557	N13138	167	147	-14	0	IAH	PHX	1009
	78566	N17719	186	161	-29	-4	IAH	LGA	1416
	78573	N32626	62	29	3	-6	IAH	AUS	140
	78575	N17640	161	131	-16	-8	IAH	CLE	1091
	78578	N17620	145	123	-17	-3	IAH	RDU	1043
	78584	N76526	142	125	17	46	IAH	DCA	1208
	78590	N33209	151	126	-3	1	IAH	DEN	862
	78593	N71411	232	193	8	-3	IAH	BOS	1597
	78599	N36247	142	122	-14	-4	IAH	DEN	862
	78604	N14228	259	239	28	48	IAH	PDX	1825
	78605 78608	N57855 N34282	189 169	156 146	-11 12	9 24	IAH IAH	EWR PHX	1400 1009
	78609	N34202 N37274	79	48	11	0	IAH	MSY	305
	78611	N87513	156	136	-18	0	IAH	BWI	1235
	78615	N73276	210	177	-1	-3	IAH	LGA	1416
	78624	N39726	149	135	-13	-5	IAH	GUC	886
11	. 5024		1-13	100	10	3	THI	400	300

	78632	N38443	264	227	-1	1	IAH	SF0	1635
	78637	N14704	67	41	0	- 5	IAH	SAT	191
	78644	N78501	203	176	-8	0	IAH	LAS	1222
	78646	N36247	125	97	-25	-8	IAH	IND	845
	78648	N33209	163	129	-5	4	IAH	IAD	1190
	78650	N37255	157	132	-16	-1	IAH	IAD	1190
	78652	N21723	202	173	1	4	IAH	EWR	1400
	78654	N37298	159	136	-13	0	IAH	IAD	1190
	78657	N77510	247	224	17	28	IAH	SJC	1609
	78658	N73275	69	47	-3	-3	IAH	MSY	305
	78659	N77295	164	142	-13	-1	IAH	BWI	1235
	78665	N19623	94	74	0	-7	IAH	TUL	429
	78666	N78509	146	119	-11	2	IAH	ORD	925
	78668	N27213	146	125	-5	3	IAH	ORD	925
	78673	N33292	152	134	-26	-8	IAH	DCA	1208
	78677	N75428	275	256	-5	0	IAH	SEA	1874
	78683	N33266	60	39	-7	-1	IAH	SAT	191
	78684	N76529	213	181	-12	-1	IAH	BOS	1597
	78688	N57855	204	181	-7	-3	IAH	LAS	1222
	78690	N16632	131	104	-19	-5	IAH	IND	845
	78696	N37434	210	182	4	-1	IAH	EWR	1400
##	78697	N37255	68	52	-12	-3	IAH	MFE	316
##	78703	N39416	168	145	-16	-3	IAH	PHX	1009
##	78709	N36272	197	167	-10	-2	IAH	LGA	1416
	78710	N47414	159	124	-8	-4	IAH	PIT	1117
	78715	N35407	190	164	-6	1	IAH	SLC	1195
##	78716	N14613	168	131	-11	-9	IAH	CLE	1091
##	78717	N37287	152	129	-4	1	IAH	ORD	925
##	78726	N12221	152	133	-21	-2	IAH	DCA	1208
##	78733	N73406	253	226	-15	0	IAH	SF0	1635
##	78738	N73283	198	172	-15	5	IAH	BOS	1597
##	78740	N58101	131	106	-4	-1	IAH	MCO	853
##	78746	N39297	211	180	2	1	IAH	LAS	1222
##	78748	N77865	153	120	12	15	IAH	DEN	862
##	78750	N73299	152	118	-3	1	IAH	DEN	862
##	78752	N24202	147	118	19	-4	IAH	TPA	787
##	78755	N27213	162	143	43	52	IAH	MSP	1034
##	78759	N33266	72	48	5	0	IAH	MSY	305
##	78762	N19621	167	143	-20	-7	IAH	BWI	1235
##	78764	N12225	202	172	-9	-3	IAH	LGA	1416
##	78768	N76265	144	126	-17	1	IAH	CLE	1091
##	78772	N37263	157	139	-20	-8	IAH	DCA	1208
##	78774	N24729	170	145	-16	-9	IAH	EGE	935
##	78776	N57862	275	254	0	3	IAH	SEA	1874
##	78782	N13750	197	172	52	82	IAH	BOS	1597
##	78788	N38417	202	177	-8	0	IAH	LAS	1222
##	78792	N16709	121	100	-6	-2	IAH	TPA	787
##	78793	N76505	260	240	32	50	IAH	PDX	1825
	78802	N39726	176	160	-16	3	IAH	LGA	1416
	78806	N37419	198	181	-15	4	IAH	SAN	1303
	78807	N39297	152	121	-19	-8	IAH	CLE	1091
	78808	N76514	177	123	16	-1	IAH	ORD	925
	78809	N17233	187	169	-21	-8	IAH	SLC	1195
	78811	N16649	129	87	1	-5	IAH	ATL	689

	78812	N76517	201	180	-32	-3	IAH	SNA	1347
	78815	N76523	76	47	8	0	IAH	MSY	305
	78816	N33203	266	251	2	20	IAH	SEA	1874
	78819	N38257	246	228	-12	3	IAH	SF0	1635
	78820	N34222	254	226	-19	-3	IAH	SF0	1635
	78821	N18220	178	152	-16	-3	IAH	PHL	1324
	78826	N77871	157	124	26	2	IAH	MCO	853
	78829	N36280	222	189	-3	3	IAH	LAX	1379
	78831	N57862	132	114	-32	-2	IAH	DEN	862
	78837	N78005	202	157	4	7	IAH	EWR	1400
	78842	N75410	165	146	-11	1	IAH	PHX	1009
	78848	N36207	188	160	-18	4	IAH	EWR	1400
	78856	N35407	140	119	-12	0	IAH	ORD	925
	78857	N38417	132	116	-12	-1	IAH	FLL	965
	78861	N16703	150	129	-30	-5	IAH	DCA	1208
	78864	N79402	256	228	-6	-2	IAH	SF0	1635
	78867	N76515	62	38	2	2	IAH	SAT	191
	78869	N75861	149	112	14	4	IAH	MCO	853
	78871	N26208	169	135	1	0	IAH	DTW	1076
	78873	N76515	215	189	-1	9	IAH	LAX	1379
	78874	N36280	205	172	-6	-4	IAH	LAS	1222
	78876	N75854	157	130	19	14	IAH	DEN	862
	78884	N37267	51	32	-5	1	IAH	AUS	140
	78886	N37267	238	222	-25	-4	IAH	SJC	1609
	78887	N14639	156	133	-27	-8	IAH	PIT	1117
##	78891	N14629	76	48	7	-3	IAH	MSY	305
##	78893	N16649	139	111	-5	2	IAH	CLT	913
	78902	N76516	196	181	-29	-2	IAH	SNA	1347
	78908	N26208	59	35	-2	-1	IAH	SAT	191
	78910	N16648	151	128	92	112	IAH	DTW	1076
	78912	N75854	221	193	-8	-3	IAH	LAX	1379
	78917	N38403	126	100	1	1	IAH	TPA	787
##	78918	N14704	214	190	-16	2	IAH	SNA	1347
##	78922	N32404	57	28	3	1	IAH	AUS	140
	78924	N16617	63	29	6	-3	IAH	AUS	140
##	78925	N58606	147	126	-24	-5	IAH	CLE	1091
##	78927	N34222	170	135	25	12	IAH	ORD	925
##	78929	N37409	159	128	17	2	IAH	FLL	965
##	78933	N76517	224	194	-8	-1	IAH	LAX	1379
	78936	N77525	162	140	-10	-2	IAH	DCA	1208
	78938	N76516	144	117	9	-5	IAH	RSW	861
	78940	N62631	129	101	-1	-4	IAH	MCI	643
##	78947	N37427	54	29	23	25	IAH	AUS	140
	78949	N57439	128	107	26	35	IAH	MCO	853
##	78951	N16234	207	183	-6	2	IAH	SAN	1303
##	78952	N33203	138	116	-7	-2	IAH	MIA	964
##	78958	N14250	54	31	-5	-3	IAH	AUS	140
##	78964	N27213	78	58	-3	-1	IAH	MFE	316
##	78965	N62631	62	41	-8	-2	IAH	MSY	305
	78967	N15712	213	186	60	74	IAH	SNA	1347
	78968	N15710	181	156	-12	4	IAH	LGA	1416
	78971	N33286	234	218	-18	3	IAH	SMF	1609
##	78973	N76254	136	118	-24	-7	IAH	ORD	925
##	78974	N14231	143	117	-7	-4	IAH	FLL	965

	78978	N37287	123	104	-9	-1	IAH	RSW	861
	78982	N16642	140	102	2	-5	IAH	ELP	667
	78983	N12238	186	156	-5	1	IAH	PHL	1324
	78986	N39297	65	41	-1	-1	IAH	SAT	191
	78991	N19621	164	129	-16	-7	IAH	DTW	1076
	78992	N37273	203	178	-10	7	IAH	SAN	1303
	78996	N76504	224	194	-7	0	IAH	LAX	1379
	79001	N16647	74	53	-10	-5	IAH	MFE	316
	79005	N16617	100	62	8	-4	IAH	OKC	395
	79007	N13248	239	220	-27	-5	IAH	SMF	1609
	79008	N14613	149	120	-7	-6	IAH	ABQ	744
	79009	N35260	200	183	-15	-2	IAH	SAN	1303
	79012	N76265	208	186	-9	1	IAH	ONT	1334
	79016	N75861	149	119	-8	-2	IAH	ORD	925
	79017	N75436	143	122	26	29	IAH	FLL	965
	79018	N62631	137	99	9	1	IAH	ATL	689
	79022	N75432	278	261	-3	3	IAH	SEA	1874
	79024	N37281	185	154	-6	2	IAH	PHL	1324
	79026	N37274	60	36	2	3	IAH	SAT	191
	79027	N17614	75	42	1	-2	IAH	DFW	224
	79029	N73256	144	115	24	20	IAH	MIA	964
	79032	N77867	207	185	18	38	IAH	LAX	1379
	79041	N14731	210	187	-7	13	IAH	SNA	1347
	79044	N78438	190	165	46	-2	IAH	PBI	956
	79046	N35260	189	164	-22	-6	IAH	LGA	1416
	79047	N17233	185	159	-11	0	IAH	PHL	1324
	79048	N78506	157	126	-12	-3	IAH	CLE	1091
	79051	N19638	167	124	7	-3	IAH	RDU	1043
	79054	N87527	131	110	-7	-3	IAH	OMA	781
##	79058	N14231	141	112	0	-3	IAH	MCO	853
	79060	N19623	166	146	-25	-9	IAH	HDN	986
	79063	N16703	249	227	-11	1	IAH	SMF	1609
##	79068	N76064	501	464	135	139	IAH	HNL	3904
	79073	N76505	80	47	12	1	IAH	MSY	305
##	79074	N27213	59	35	-1	0	IAH	SAT	191
##	79083	N14629	71	47	16	14	IAH	MSY	305
##	79085	N36207	52	30	0	1	IAH	AUS	140
	79093	N33209	222	187	6	15		LAX	1379
	79096	N19141	215	188	-12	-1	IAH	LAX	1379
	79101	N75851	153	114	5	9	IAH	DEN	862
##	79102	N76156	190	154	-17	1	IAH	EWR	1400
##	79104	N19117	190	166	18	40	IAH	EWR	1400
	79109	N12216	180	159	-21	-1	IAH	EWR	1400
	79113	N76054	196	164	-12	2	IAH	EWR	1400
##	79119	N39416	59	41	-14	-5	IAH	MSY	305
##	79123	N14228	217	186	13	23	IAH	LAX	1379
##	79124	N75861	182	124	22	-2	IAH	ORD	925
##	79127	N26208	215	177	32	37	IAH	ONT	1334
##	79130	N24702	161	134	-8	1	IAH	DCA	1208
##	79135	N37408	261	228	-4	4	IAH	SF0	1635
##	79142	N35271	145	112	2	0	IAH	MIA	964
##	79147	N57864	204	174	0	2	IAH	LAS	1222
##	79149	N26226	155	121	-8	-1	IAH	DEN	862
##	79154	N53441	122	98	7	9	IAH	TPA	787

##	79157	N13718	271	250	-6	-1	IAH	PDX	1825
	79158	N30401	192	161	-24	-2	IAH	EWR	1400
	79160	N39416	239	210	-3	8	IAH	SJU	2007
	79166	N57111	184	150	9	6	IAH	PHX	1009
	79172	N17620	160	138	-24	-5	IAH	BWI	1235
	79176	N73275	190	161	-22	-1	IAH	LGA	1416
	79183	N24633	66	28	30	17	IAH	AUS	140
	79185	N14613	161	129	-11	-3	IAH	CLE	1091
	79188	N19623	174	118	56	41	IAH	RDU	1043
##	79195	N76515	174	134	4	1	IAH	DCA	1208
##	79199	N14242	277	259	-2	5	IAH	SEA	1874
##	79202	N38417	243	219	-1	21	IAH	SF0	1635
##	79203	N33203	165	119	18	8	IAH	DEN	862
##	79206	N33264	72	44	8	2	IAH	SAT	191
##	79207	N16701	228	178	7	0	IAH	BOS	1597
##	79214	N77430	208	171	-4	1	IAH	LAS	1222
##	79216	N73251	137	115	0	15	IAH	DEN	862
	79221	N17244	270	251	-6	3	IAH	PDX	1825
	79222	N56859	188	152	-14	7	IAH	EWR	1400
##	79226	N37413	171	144	11	21	IAH	PHX	1009
##	79228	N37274	81	47	10	-3	IAH	MSY	305
	79230	N78509	155	139	-13	6	IAH	BWI	1235
	79234	N77261	200	156	-11	-3	IAH	LGA	1416
	79246	N37290	171	130	8	7	IAH	DCA	1208
	79254	N37422	254	229	2	14	IAH	SF0	1635
	79260	N73256	64	43	-1	-3	IAH	SAT	191
	79262	N37277	217	178	-1	3	IAH	BOS	1597
	79268	N77258	201	167	-8	-1	IAH	LAS	1222
	79270	N18220	119	99	43	66	IAH	IND	845
	79272	N73270	206	179	-9	-1	IAH	SAN	1303
	79273	N37255	170	137	-7	-5	IAH	IAD	1190
	79275	N33284	162	132	-11	-1	IAH	IAD	1190
	79277	N67058	214	165	9	0	IAH	EWR	1400
	79279	N73256	157	130	-16	-1	IAH	IAD	1190
##	79282	N87513	257	227	7	8	IAH	SJC	1609
##	79284	N37267	86	46	16	-1	IAH	MSY	305
##	79285	N36207	187	133	41	30	IAH	BWI	1235
	79288	N25705	201	161	5	5	IAH	LGA	1416
	79292	N58606	82	58	-6	-1	IAH	TUL	429
	79293	N37287	149	112	0	10	IAH	ORD	925
	79295	N14228	155	121	29	28	IAH	ORD	925
	79300	N13248	159	138	-9	2	IAH	DCA	1208
	79304	N75429	263	246	-11	6	IAH	SEA	1874
	79310	N14214	62	35	5	9	IAH	SAT	191
	79313	N76522	211	180	-9	4	IAH	BOS	1597
	79318	N75858	200	169	-9	-1	IAH	LAS	1222
	79320	N33262	144	117	-12	-1	IAH	DEN	862
	79321	N14629	165	103	32	12	IAH	IND	845
	79327	N75426	201	175	-4	0	IAH	EWR	1400
	79328	N24202	73	58	-2	2	IAH	MFE	316
	79334	N37420	165	146	-8	8	IAH	PHX	1009
##	79341	N36272	223	176	16	-2	IAH	LGA	1416
	79342	N38403	156	124	-3	4	IAH	PIT	1117
##	79347	N71411	195	161	4	6	IAH	SLC	1195

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	79348	N16642	147	127	-21	-4	IAH	CLE	1091
	79349	N76514	150	121	0	7	IAH	ORD	925
	79359	N39728	174	130	3	0	IAH	DCA	1208
	79361	N33209	232	190	23	21	IAH	SNA	1347
	79367	N71411	266	228	58	52	IAH	SF0	1635
	79372	N73259	204	176	-13	1	IAH	BOS	1597
	79374	N19117	126	101	29	37	IAH	MCO	853
	79380	N76265	185	159	1	26	IAH	LAS	1222
	79382	N75854	146	115	-7	3	IAH	DEN	862
	79384	N77295	167	120	14	3	IAH	DEN	862
	79386	N14250	130	97	22	16	IAH	TPA	787
	79389	N36247	164	131	13	20	IAH	MSP	1034
	79393	N37287	72	45	5	0	IAH	MSY	305
	79396	N14629	167	142	-17	-4	IAH	BWI	1235
	79399	N37255	210	171	7	5	IAH	LGA	1416
	79403	N33262	146	120	-11	5	IAH	CLE	1091
	79408	N37263	182	130	51	38	IAH	DCA	1208
	79411	N24729	164	137	-17	-4	IAH	EGE	935
	79412	N77871	284	245	48	42	IAH	SEA	1874
	79419	N14604	236	184	5	-4	IAH	BOS	1597
##	79422	N57868	144	107	16	5	IAH	MCO	853
##	79428	N79402	192	169	26	44	IAH	LAS	1222
##	79432	N23707	141	95	12	-4	IAH	TPA	787
##	79433	N37409	286	248	74	66	IAH	PDX	1825
##	79436	N14250	59	42	-5	2	IAH	MSY	305
##	79443	N24729	195	162	37	37	IAH	LGA	1416
##	79447	N75428	196	178	-9	7	IAH	SAN	1303
##	79448	N37420	214	174	9	12	IAH	SAN	1303
##	79449	N36207	60	29	12	8	IAH	AUS	140
##	79450	N27205	174	128	10	-1	IAH	CLE	1091
##	79451	N77510	153	123	-10	-3	IAH	ORD	925
##	79452	N76504	178	158	-19	3	IAH	SLC	1195
##	79454	N19638	124	82	-4	-5	IAH	ATL	689
##	79457	N77296	68	43	2	2	IAH	MSY	305
##	79458	N78438	269	251	-5	10	IAH	SEA	1874
##	79461	N33284	239	223	-4	18	IAH	SF0	1635
##	79462	N78506	263	225	-10	-3	IAH	SF0	1635
##	79463	N11206	199	156	11	3	IAH	PHL	1324
##	79468	N57869	139	106	4	-2	IAH	MCO	853
##	79470	N17614	161	136	-9	-3	IAH	DTW	1076
##	79472	N12218	226	186	20	22	IAH	LAX	1379
##	79475	N78866	141	119	-19	2	IAH	DEN	862
##	79480	N77014	226	161	24	3	IAH	EWR	1400
##	79485	N77295	164	142	-2	11	IAH	PHX	1009
##	79491	N17245	130	91	3	-3	IAH	TPA	787
##	79492	N17245	197	157	4	17	IAH	EWR	1400
##	79501	N35407	125	110	-22	5	IAH	ORD	925
##	79502	N37287	135	112	-13	-5	IAH	FLL	965
##	79506	N39726	160	134	28	43	IAH	DCA	1208
	79509	N73406	269	225	36	27	IAH	SF0	1635
	79512	N14214	58	37	-1	3	IAH	SAT	191
	79514	N57855	141	102	22	20	IAH	MCO	853
	79516	N76502	176	135	4	-4	IAH	DTW	1076
	79518	N76502	217	189	2	10	IAH	LAX	1379

	79519	N76529	226	178	19	0	IAH	LAS	1222
	79521	N57857	155	121	6	3	IAH	DEN	862
	79530	N73275	80	28	57	34	IAH	AUS	140
	79532	N37263	262	232	3	0	IAH	SJC	1609
	79533	N14639	165	126	-13	-3	IAH	PIT	1117
	79537	N16617	68	45	6	4	IAH	MSY	305
	79539	N19638	126	107	-22	-2	IAH	CLT	913
	79545	N37281	154	112	5	-2	IAH	FLL	965
	79549	N76516	206	185	-7	10	IAH	SNA	1347
	79551	N16647	132	102	-2	9	IAH	RSW	861
	79558	N73299	171	148	-19	2	IAH	PHL	1324
	79560	N73276	56	34	-2	2	IAH	SAT	191
	79562	N76517	179	126	24	16	IAH	DTW	1076
	79565	N56859	230	182	6	2	IAH	LAX	1379
	79567	N36444	226	171	20	6	IAH	LAS	1222
	79568	N18243	193	130	32	9	IAH	DCA	1208
	79572	N37408	114	93	0	12	IAH	TPA	787
	79574	N16701	216	190	-14	2	IAH	SNA	1347
##	79579	N38403	53	27	5	7	IAH	AUS	140
##	79581	N32626	62	28	7	-1	IAH	AUS	140
##	79582	N17640	153	131	-16	-3	IAH	CLE	1091
##	79584	N36280	155	119	23	25	IAH	ORD	925
##	79586	N35407	136	109	-9	-1	IAH	FLL	965
##	79593	N76516	140	106	18	8	IAH	RSW	861
##	79595	N16632	125	86	21	22	IAH	MCI	643
##	79602	N53441	74	28	48	30	IAH	AUS	140
##	79604	N75436	127	108	-7	3	IAH	MCO	853
##	79606	N26215	198	176	13	30	IAH	SAN	1303
##	79607	N24202	147	108	8	4	IAH	MIA	964
##	79614	N24224	58	29	6	4	IAH	AUS	140
##	79615	N37427	219	184	-2	4	IAH	LAX	1379
##	79622	N75425	185	149	3	2	IAH	PHX	1009
##	79623	N15712	80	61	6	6	IAH	MFE	316
##	79624	N17719	57	40	-11	0	IAH	MSY	305
##	79626	N13718	205	183	-19	3	IAH	SNA	1347
##	79627	N14731	185	168	-12	0	IAH	LGA	1416
##	79630	N24633	107	58	54	25	IAH	MFE	316
##	79631	N18220	234	219	-9	12	IAH	SMF	1609
##	79633	N37409	170	133	49	32	IAH	ORD	925
##	79634	N11206	138	112	12	20	IAH	FLL	965
	79638	N17244	135	98	25	21	IAH	RSW	861
##	79641	N16649	140	102	27	20	IAH	ELP	667
##	79642	N33289	186	149	9	15	IAH	PHL	1324
##	79645	N39728	83	43	14	-4	IAH	SAT	191
##	79650	N46625	189	129	16	0	IAH	DTW	1076
##	79651	N76503	226	194	13	7	IAH	SAN	1303
##	79652	N29717	145	112	-4	-1	IAH	MIA	964
##	79656	N35204	218	188	-10	3	IAH	LAX	1379
##	79661	N34222	77	54	58	60	IAH	MFE	316
##	79666	N17620	80	56	0	8	IAH	OKC	395
	79668	N35271	248	221	-12	1	IAH	\mathtt{SMF}	1609
	79669	N16647	131	113	-20	-1	IAH	ABQ	744
##	79670	N37277	193	175	-5	15	IAH	SAN	1303
##	79672	N36247	201	185	-17	0	IAH	ONT	1334

##	79677	N79402	170	117	24	9	IAH	ORD	925
	79678	N75425	160	115	32	18	IAH	FLL	965
	79680	N16632	122	83	- 5	2	IAH	ATL	689
	79685	N73251	299	265	13	-2	IAH	SEA	1874
	79688	N78501	194	158	9	8	IAH	PHL	1324
	79691	N37273	64	40	14	11	IAH	SAT	191
	79692	N14613	176	139	15	15	IAH	TUS	936
	79695	N38727	77	41	7	2	IAH	DFW	224
	79697	N76504	148	112	6	-2	IAH	MIA	964
	79700	N57868	217	182	13	23	IAH	LAX	1379
	79709	N54711	217	191	-15	-2	IAH	SNA	1347
	79710	N19621	71	43	-1	-3	IAH	MSY	305
	79713	N45440	145	111	4	1	IAH	PBI	956
	79715	N76265	187	161	-21	-3	IAH	LGA	1416
	79716	N14230	183	161	1	14	IAH	PHL	1324
	79717	N27724	150	129	-7	9	IAH	CLE	1091
	79721	N62631	164	118	32	25	IAH	RDU	1043
##	79724	N78506	135	105	4	4	IAH	OMA	781
##	79728	N27213	129	104	-2	7	IAH	MCO	853
##	79730	N58606	164	139	-20	-2	IAH	HDN	986
##	79733	N29717	243	214	5	23	IAH	SMF	1609
##	79738	N76065	489	466	-15	1	IAH	HNL	3904
##	79743	N12221	60	38	51	60	IAH	MSY	305
##	79744	N58606	66	43	1	-5	IAH	SAT	191
##	79754	N14653	58	42	-14	-3	IAH	MSY	305
##	79756	N14613	49	33	-9	-5	IAH	AUS	140
##	79762	N77518	229	190	3	5	IAH	LAX	1379
##	79765	N13113	234	188	6	-2	IAH	LAX	1379
##	79770	N57869	143	124	-6	8	IAH	DEN	862
	79771	N76153	183	159	-24	1	IAH	EWR	1400
	79773	N34131	197	155	4	19	IAH	EWR	1400
	79777	N73278	194	165	3	1	IAH	EWR	1400
	79781	N66051	188	164	-13	1	IAH	EWR	1400
	79786	N13718	75	41	7	0	IAH	MSY	305
	79790	N79279	213	189	2	16	IAH	LAX	1379
	79792	N57864	137	111	-22	-1	IAH	ORD	925
	79795	N13248	194	178	-27	-1	IAH	ONT	1334
	79798	N16701	154	138	-9	7	IAH	DCA	1208
	79803	N75410	237	215	-27	0	IAH	SFO	1635
	79810	N33264	138	108	1	6	IAH	MIA	964
	79815	N57863	193	169	- 5	3	IAH	LAS	1222
	79817	N14237	140	118	-25	-8	IAH	DEN	862
	79820 79822	N38424	120 286	95 266	-8	-4 10	IAH IAH	TPA PDX	787
		N21723	191	266 157	29	19 1	IAH	EWR	1825 1400
	79823 79825	N72405 N53441	237	213	-22 13	21	IAH	SJU	2007
	79830	N48127	170	145	-8	-2	IAH	PHX	1009
	79835	N40127 N19638	167	139	-10	-2 -3	IAH	BWI	1235
	79839	N76517	184	161	-10 -25	-3 -3	IAH	LGA	1416
	79845	N46625	68	30	11	-3 -4	IAH	AUS	1410
	79847	N40025 N27610	156	126	-15	- 4 -2	IAH	CLE	1091
	79850	N76503	142	115	-13 -10	3	IAH	RDU	1043
	79859	N73291	276	259	3	11	IAH	SEA	1874
	79862	N73291 N36444	264	229	5	1	IAH	SF0	1635
ir m	. 0002	1100111	204	223	3	1	IAII	510	1000

шш	70062	N27007	150	101	0	1	IAH	DEM	960
	79863 79864	N37287 N76529	152 62	121 41	-2	1 -1	IAH	DEN SAT	862 191
	79869		196	174	0 2		IAH	LAS	1222
	79870	N75435 N76505	142	122	4	14 14	IAH	DEN	862
	79874	N12221	273	255	-3	-2	IAH	PDX	1825
	79875	N12221 N57870	177	154	-29	3	IAH	EWR	1400
	79880	N57670	168	146	-14	-1	IAH	PHX	1009
	79882	N33442 N33266	68	43	-6	-6	IAH	MSY	305
	79884	N76522	156	136	-13	5	IAH	BWI	1235
	79895	N15712	161	132	-2	-6	IAH	GUC	886
	79898	N77261	156	137	-14	-5	IAH	DCA	1208
	79905	N12216	254	231	- 5	7	IAH	SF0	1635
	79910	N19621	75	40	7	-6	IAH	SAT	191
	79912	N73275	197	172	-17	2	IAH	BOS	1597
	79918	N76504	205	178	0	3	IAH	LAS	1222
	79920	N17619	130	99	-16	-1	IAH	IND	845
	79922	N34282	204	181	-1	4	IAH	SAN	1303
	79923	N37287	155	136	-16	1	IAH	IAD	1190
	79925	N33209	161	142	-9	2	IAH	IAD	1190
	79927	N69059	184	164	2	15	IAH	EWR	1400
##	79929	N76514	162	136	-11	-1	IAH	IAD	1190
##	79931	N78509	251	230	2	9	IAH	SJC	1609
##	79933	N11641	79	42	8	-2	IAH	MSY	305
##	79934	N14250	162	137	-3	11	IAH	BWI	1235
##	79937	N24702	178	158	-22	-4	IAH	LGA	1416
##	79941	N16732	90	64	12	9	IAH	TUL	429
##	79942	N39416	148	117	-9	2	IAH	ORD	925
##	79948	N76505	155	132	-5	10	IAH	DCA	1208
##	79952	N36444	271	255	2	11	IAH	SEA	1874
##	79958	N77261	54	33	-14	-2	IAH	SAT	191
##	79961	N87512	211	182	-14	-1	IAH	BOS	1597
	79966	N77871	190	163	-11	2	IAH	LAS	1222
	79968	N24202	142	120	-6	2	IAH	DEN	862
	79969	N14653	134	101	-15	-4	IAH	IND	845
	79973	N37422	185	164	-11	1	IAH	EWR	1400
	79974	N23707	76	54	13	14	IAH	MFE	316
	79977	N47414	177	149	-1	3	IAH	PHX	1009
	79983	N37274	194	163	-7	4	IAH	LGA	1416
	79984	N37408	153	127	0	10	IAH	PIT	1117
	79988	N17245	192	168	0	0	IAH	SLC	1195
	79989	N37253	146	128	-20	-7	IAH	CLE	1091
	79990	N14231	146	115	-6	0	IAH	ORD	925
	79999	N14731	167	130	-7 7	-3	IAH	DCA	1208
	80004	N79402	244	223	-7	9	IAH	SFO	1635
	80009	N24212	199	174	-19	0	IAH	BOS	1597
	80010	N34131	123	100	-3	3	IAH	MCO	853
	80016	N11206	191	166	-1	18	IAH	LAS	1222
	80018 80020	N57868	147 146	122 122	-12 -11	-3 -1	IAH IAH	DEN DEN	862 862
	80020	N78506		91		-1 -4	IAH	TPA	787
	80025	N76519 N37281	118 162	133	-10 8	-4 17	IAH	MSP	1034
	80025	N37261 N37263	65	43	-1	1	IAH	MSY	305
	80033	N77258	199	166	-1 -9	0	IAH	LGA	1416
	80036	N76508	134	118	-29	-1	IAH	CLE	1091
π#	55050	11 1 0000	104	110	23	1	TWII	خلتاب	1031

##	80040	N33262	164	134	12	17	IAH	DCA	1208
##	80043	N17133	165	142	-9	-2	IAH	EGE	935
	80044	N57855	273	255	3	8	IAH	SEA	1874
	80047	N33203	249	226	5	24	IAH	SF0	1635
##	80052	N77295	211	175	-11	5	IAH	BOS	1597
##	80055	N77865	128	100	-4	-4	IAH	MCO	853
##	80060	N71411	195	173	-14	1	IAH	LAS	1222
##	80064	N35407	285	262	14	7	IAH	PDX	1825
##	80067	N77510	58	41	-3	0	IAH	MSY	305
##	80074	N37277	181	162	-10	4	IAH	LGA	1416
##	80077	N26226	207	181	12	17	IAH	SAN	1303
##	80078	N37427	202	181	2	12	IAH	SAN	1303
##	80079	N76519	50	28	-5	-4	IAH	AUS	140
##	80080	N23707	148	123	-16	-1	IAH	CLE	1091
##	80081	N37293	136	110	-16	8	IAH	ORD	925
##	80082	N12238	196	174	-7	-3	IAH	SLC	1195
##	80084	N16649	120	84	-10	-7	IAH	ATL	689
##	80085	N77520	208	193	5	22	IAH	SNA	1347
##	80089	N11206	56	41	-1	11	IAH	MSY	305
##	80090	N45440	291	269	16	9	IAH	SEA	1874
##	80093	N73256	246	228	-2	13	IAH	SF0	1635
##	80094	N35407	251	226	-20	-3	IAH	SF0	1635
##	80099	N75861	131	104	-3	-1	IAH	MCO	853
##	80101	N29717	151	128	-10	-3	IAH	DTW	1076
##	80104	N14228	216	191	-10	2	IAH	LAX	1379
##	80107	N56859	148	123	-10	-1	IAH	DEN	862
##	80109	N78004	190	162	-15	0	IAH	EWR	1400
##	80112	N37409	165	141	-5	7	IAH	PHX	1009
##	80119	N12225	121	94	0	-2	IAH	TPA	787
##	80120	N16648	182	153	-20	14	IAH	EWR	1400
##	80128	N75861	137	116	-13	2	IAH	ORD	925
##	80129	N37293	140	116	3	1	IAH	FLL	965
##	80133	N16709	146	134	-30	-6	IAH	DCA	1208
##	80136	N73406	264	227	5	1	IAH	SF0	1635
##	80139	N14250	64	42	10	8	IAH	SAT	191
##	80141	N56859	133	104	-9	-3	IAH	MCO	853
##	80143	N14214	155	131	-17	-4	IAH	DTW	1076
##	80145	N78285	210	188	-15	0	IAH	LAX	1379
##	80146	N14228	219	184	18	1	IAH	LAS	1222
##	80148	N76517	155	129	10	7	IAH	DEN	862
##	80157	N73270	51	31	-2	4	IAH	AUS	140
##	80160	N33264	255	233	-1	-2	IAH	SJC	1609
##	80161	N15712	149	125	-15	11	IAH	PIT	1117
##	80165	N37408	62	43	-5	-1	IAH	MSY	305
##	80172	N16703	133	110	38	47	IAH	FLL	965
##	80176	N76522	203	182	-21	-1	IAH	SNA	1347
##	80184	N19623	173	150	-21	-1	IAH	PHL	1324
##	80186	N73299	58	38	22	24	IAH	SAT	191
	80188	N25705	157	129	-15	-1	IAH	DTW	1076
	80191	N39416	221	189	-4	-4	IAH	LAX	1379
	80193	N73278	216	178	6	2	IAH	LAS	1222
	80197	N75410	114	90	-8	4	IAH	TPA	787
	80199	N54711	222	194	-3	7	IAH	SNA	1347
	80205	N16648	54	29	-2	-2	IAH	AUS	140

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	80206 80208	N17627 N12225	147 130	126	-12 -20	0 -2	IAH	CLE ORD	1091 925
	80210	N12225 N30401	134	113 108	-29 -8	2	IAH	FLL	925
	80213	N77520	49	30	-8 -7	0	IAH	AUS	140
	80216	N77520 N79521	116	98	-7 -6	8	IAH	RSW	861
	80218	N17620	127	96	-3	-4	IAH	MCI	643
	80225	N75426	50	30	-6	-5	IAH	AUS	140
	80227	N75425	128	98	16	25	IAH	MCO	853
	80229	N75432	195	178	-17	3	IAH	SAN	1303
	80230	N79279	140	119	-5	-2	IAH	MIA	964
	80237	N33292	170	139	0	0	IAH	DCA	1208
	80238	N75426	216	193	0	9	IAH	LAX	1379
	80245	N39415	175	149	-3	1	IAH	PHX	1009
	80246	N11641	88	56	6	-2	IAH	MFE	316
	80247	N37408	63	42	-3	-3	IAH	MSY	305
	80249	N39728	201	188	-27	-1	IAH	SNA	1347
	80250	N24729	188	165	-1	8	IAH	LGA	1416
	80254	N24202	272	240	22	5	IAH	SMF	1609
	80256	N79402	136	118	-8	4	IAH	ORD	925
	80257	N73259	139	110	6	13	IAH	FLL	965
	80261	N14231	119	97	-8	4	IAH	RSW	861
	80264	N14242	120	98	-16	-3	IAH	ELP	667
	80265	N38417	183	156	1	10	IAH	PHL	1324
	80267	N16642	58	41	-8	-6	IAH	SAT	191
	80272	N16647	168	131	-9	-4	IAH	DTW	1076
##	80273	N27421	194	174	-10	16	IAH	SAN	1303
##	80274	N54241	128	109	-4	11	IAH	MIA	964
##	80278	N26210	231	198	0	0	IAH	LAX	1379
##	80283	N17245	82	57	6	3	IAH	MFE	316
##	80287	N14613	107	62	34	15	IAH	OKC	395
##	80289	N19621	138	115	-12	0	IAH	ABQ	744
##	80291	N37419	201	178	-6	6	IAH	SAN	1303
##	80293	N37277	194	181	-28	- 5	IAH	ONT	1334
##	80296	N30401	55	29	1	1	IAH	AUS	140
	80298	N53442	148	118	-3	-1	IAH	ORD	925
	80299	N75429	127	112	-22	-3	IAH	FLL	965
	80301	N16649	128	94	-4	-3	IAH	ATL	689
	80306	N13248	274	255	3	8	IAH	SEA	1874
	80309	N26208	178	150	-7	8	IAH	PHL	1324
	80312	N37267	57	36	20	24	IAH	SAT	191
	80313	N16647	171	139	-1	-1	IAH	TUS	936
	80316	N59630	94	42	18	-4	IAH	DFW	224
	80318	N12238	140	107	2	2	IAH	MIA	964
	80321	N77865	224	190	3	6	IAH	LAX	1379
	80330	N23708	212	193	-21	-3	IAH	SNA	1347
	80331	N16648	67	43	-3	-6	IAH	MSY	305
	80334	N39415	131	106	-16	-5	IAH	PBI	956
	80336	N35271	189	165	-11	0	IAH	LGA	1416
	80337	N73299	174	155	-16	6	IAH	PHL	1324
	80338	N37437	143	120	-21	2	IAH	CLE	1091
	80342	N32626	150	119	13	20	IAH	RDU	1043
	80345	N37427	129	108	-2	4	IAH	OMA	781
	80350	N27610	144	108	2	-6 -1	IAH	MCO	853
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	80355	N16709	252	229	-8	1	IAH	SMF	1609
	80360	N69063	478	465	-10	17	IAH	HNL	3904
	80365	N17627	62	41	-3	-1	IAH	MSY	305
	80374	N77261	62	43	-2	-2	IAH	MSY	305
##	80376	N37274	50	30	3	1	IAH	AUS	140
##	80384	N17139	209	186	-13	-1	IAH	LAX	1379
##	80389	N75432	160	129	26	18	IAH	DEN	862
	80390	N68159	183	165	-10	7	IAH	EWR	1400
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##	80397	N78866	194	159	4	2	IAH	EWR	1400
##	80400	N67052	216	181	17	3	IAH	EWR	1400
##	80406	N12221	218	196	33	42	IAH	LAX	1379
##	80408	N57862	155	132	5	3	IAH	ORD	925
##	80411	N26210	224	192	16	12	IAH	ONT	1334
##	80417	N32404	265	240	2	1	IAH	SF0	1635
##	80423	N37281	130	107	3	11	IAH	MIA	964
##	80429	N37427	209	186	49	42	IAH	LAS	1222
	80431	N37298	157	134	-9	-9	IAH	DEN	862
	80434	N14629	120	91	-7	-5	IAH	TPA	787
##	80436	N27733	271	255	-2	-2	IAH	PDX	1825
	80437	N72405	189	163	-16	1	IAH	EWR	1400
##	80439	N53441	229	211	-17	-1	IAH	SJU	2007
##	80441	N19136	164	143	11	23	IAH	PHX	1009
##	80445	N14653	183	164	15	6	IAH	BWI	1235
##	80451	N87512	48	28	18	18	IAH	AUS	140
	80452	N19621	165	136	2	-5	IAH	CLE	1091
	80455	N73259	144	124	0	6	IAH	RDU	1043
	80457	N79521	159	140	-10	-3	IAH	DCA	1208
	80461	N33289	286	270	12	5	IAH	SEA	1874
##	80464	N18243	265	244	1	-4	IAH	SF0	1635
	80465	N37298	156	128	7	2	IAH	DEN	862
	80468	N16617	66	40	0	-5	IAH	SAT	191
	80469	N73276	210	187	-7	-1	IAH	BOS	1597
	80475	N24224	195	177	-14	-1	IAH	LAS	1222
##	80476	N77261	144	121	-3	0	IAH	DEN	862
##	80480	N37281	279	263	13	8	IAH	PDX	1825
##	80481	N74856	185	158	12	28	IAH	EWR	1400
	80486	N77431	171	150	10	15	IAH	PHX	1009
	80488	N33266	62	42	3	4	IAH	MSY	305
	80490	N14613	168	146	-7	-2	IAH	BWI	1235
	80494	N17244	180	160	-25	-2	IAH	LGA	1416
	80499	N25705	NA	NA	NA	10	IAH	GUC	886
	80502	N15710	154	138	-10	-2	IAH	DCA	1208
	80509	N17233	253	234	-2	6	IAH	SF0	1635
	80513	N17640	60	40	-3	-6	IAH	SAT	191
	80514	N37267	217	188	2	1	IAH	BOS	1597
	80519	N33203	209	182	15	12	IAH	LAS	1222
	80522	N78506	161	142	-7	4	IAH	IAD	1190
	80523	N68061	183	159	-15	-1	IAH	EWR	1400
	80525	N33209	165	146	-8	-1	IAH	IAD	1190
	80528	N87512	243	226	-8	2	IAH	SJC	1609
##	80530	N77510	68	43	-3	-7	IAH	MSY	305
	80531	N76508	169	147	0	2	IAH	BWI	1235
##	80533	N27733	192	170	-7	1	IAH	LGA	1416

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	80537	N57863	141	118	7	20	IAH	ORD	925
	80539	N77296	156	133	14	8	IAH	ORD	925
	80543	N76517	167	143	-1	-3	IAH	DCA	1208
	80546	N47414	278	261	8	5	IAH	SEA	1874
	80552	N37277	67	39	9	3	IAH	SAT	191
	80553	N76515	207	186	-11	1	IAH	BOS	1597
	80557	N57852	198	173	-4	1	IAH	LAS	1222
	80559	N76508	160	132	18	8	IAH	DEN	862
	80560	N16642	140	110	-6	-6	IAH	IND	845
	80564	N76505	189	162	-8	0	IAH	EWR	1400
	80565	N27239	75	52	0	-3	IAH	MFE	316
	80568	N79402	164	147	-9	3	IAH	PHX	1009
	80575	N36272	189	163	-14	-3	IAH	LGA	1416
	80576	N75435	162	139	6	2	IAH	PIT	1117
	80579	N79402	198	179	8	2	IAH	SLC	1195
	80580	N24729	167	144	4	0	IAH	CLE	1091
	80581	N78524	164	144	19	7	IAH	ORD	925
	80589	N15712	162	146	-7	-3	IAH	DCA	1208
##	80591	N29717	221	196	-6	-2	IAH	SNA	1347
##	80595	N73406	260	230	14	9	IAH	SF0	1635
##	80598	N26208	203	183	-10	0	IAH	BOS	1597
##	80599	N17126	119	96	-8	2	IAH	MCO	853
##	80604	N37293	200	181	-13	-8	IAH	LAS	1222
##	80606	N56859	151	133	2	2	IAH	DEN	862
##	80608	N77296	174	142	33	11	IAH	DEN	862
##	80610	N37434	111	91	-9	-1	IAH	TPA	787
##	80613	N12225	164	141	0	2	IAH	MSP	1034
##	80615	N19623	171	139	-4	0	IAH	BWI	1235
##	80618	N16703	184	164	-21	-2	IAH	LGA	1416
##	80623	N27724	149	129	10	16	IAH	CLE	1091
##	80627	N16732	151	134	-8	5	IAH	DCA	1208
##	80630	N17133	171	147	3	4	IAH	EGE	935
##	80631	N75861	295	267	42	20	IAH	SEA	1874
##	80636	N14250	211	188	-15	-4	IAH	BOS	1597
##	80638	N77430	127	95	-2	-1	IAH	MCO	853
##	80644	N33286	199	178	0	6	IAH	LAS	1222
##	80648	N27724	121	93	-2	-3	IAH	TPA	787
##	80649	N30401	260	242	16	29	IAH	PDX	1825
	80654	N14250	72	45	11	0	IAH	MSY	305
##	80661	N73275	196	181	1	-5	IAH	LGA	1416
##	80665	N78285	200	185	-6	1	IAH	SAN	1303
	80666	N36444	205	183	-5	2	IAH	SAN	1303
	80667	N37274	50	30	-2	-1	IAH	AUS	140
	80668	N33714	163	136	5	-2	IAH	CLE	1091
	80669	N37419	153	131	-3	-1	IAH	ORD	925
	80670	N21723	183	166	-15	-3	IAH	SLC	1195
	80672	N14231	107	84	-15	-5	IAH	ATL	689
	80675	N35204	58	44	-6	-1	IAH	MSY	305
	80676	N75426	273	258	-8	-2	IAH	SEA	1874
	80679	N78506	264	237	8	0	IAH	SFO	1635
	80680	N54241	263	228	17	22	IAH	SFO	1635
	80684	N57864	125	98	- 5	-2	IAH	MCO	853
	80686	N16642	176	148	74	60	IAH	DTW	1076
	80687	N37273	203	186	-23	-3	IAH	LAX	1379
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	80689	N57868	147	120	9	19	IAH	DEN	862
	80691	N37018	185	159	-13	-1	IAH	EWR	1400
	80698	N24702	107	89	-16	-4	IAH	TPA	787
	80699	N13750	189	161	-15	-2	IAH	EWR	1400
	80708	N12216	134	115	-4	0	IAH	FLL	965
	80714	N53442	248	231	-4	3	IAH	SFO	1635
	80716	N14604	56	37	-4	-3	IAH	SAT	191
	80718	N77871	123	96	86	97	IAH	MCO	853
	80720	N16648	175	152	5	-3	IAH	DTW	1076
	80722	N35204	228	195	17	10	IAH	LAX	1379
	80723	N38727	208	185	4	-2	IAH	LAS	1222
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	80733	N33264	253	229	-2	-1	IAH	SJC	1609
	80734	N14604	167	138	0	3	IAH	PIT	1117
	80738	N77258	62	42	-3	-4	IAH	MSY	305
	80740	N16647	135	113	-9	-3	IAH	CLT	913
	80745	N76502	146	118	7	3	IAH	FLL	965
	80748	N16649	135	108	-7	-4	IAH	RSW	861
	80754	N16732	183	161	3	7	IAH	PHL	1324
	80756	N75435	56	37	0	-1	IAH	SAT	191
	80760	N74856	224	196	1	-2	IAH	LAX	1379
	80763	N32404	113	87	-8	0	IAH	TPA	787
	80768	N17614	51	29	-1	-3	IAH	AUS	140
	80769	N19638	157	139	- 5	-3	IAH	CLE	1091
	80771	N54241	134	120	-19	0	IAH	ORD	925
	80773	N75410	141	115	4	2	IAH	FLL	965
	80777	N14242	123	102	-10	- 5	IAH	RSW	861
	80779	N19638	120	97	-1	0	IAH	MCI	643
	80786	N14242	64	29	7	-6	IAH	AUS	140
	80788	N39415	127	101	-5	0	IAH	MCO	853
	80790	N12216	194	177	-14	2	IAH	SAN	1303
	80791	N12221	153	118	7	-3	IAH	MIA	964
	80799	N24702	47	29	-9	-5	IAH	AUS	140
	80800	N47414	220	194	18	18	IAH	LAX	1379
	80807	N37437	166	146	-13	0	IAH	PHX	1009
##	80808	N27610	70	50	-10	- 5	IAH	MFE	316
	80809	N76515	59	45	-11	-7	IAH	MSY	305
	80812	N39728	249	233	-3	-2	IAH	SMF	1609
	80814	N75432	158	137	8	-2	IAH	ORD	925
	80815	N76503	54	30	5	1	IAH	AUS	140
	80816	N76529	139	112	-4	-2	IAH	FLL	965
	80819	N78524	116	98	2	12	IAH	RSW	861
	80821	N16649	133	100	-1	-6	IAH	ELP	667
	80824	N16648	62	35	-3	-5	IAH	SAT	191
	80827	N78501	206	184	-9	0	IAH	SAN	1303
	80828	N26210	150	116	8	1	IAH	MIA	964
	80831	N76265	212	188	30	44	IAH	LAX	1379
	80835	N17245	73	54	-1	0	IAH	MFE	316
	80839	N27610	84	63	3	2	IAH	OKC	395
	80841	N33262	255	235	-4	-3	IAH	SMF	1609
	80842	N19623	130	112	-17	-2	IAH	ABQ	744
	80844	N14219	194	178	-21	-7	IAH	SAN	1303
##	80845	N33284	55	40	-4	-4	IAH	SAT	191
##	80846	N14219	167	144	-6	-4	IAH	MTJ	926

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	80849 80852	N73275	206	190 148	-10 15	1 -1	IAH IAH	ONT ORD	1334 925
	80853	N77431	166 141	112	6	6	IAH	FLL	965
	80857	N77430 N76504	309	274	29	-1	IAH	SEA	1874
	80860	N24212	177	154	-13	-1 -2	IAH	PHL	1324
	80863	N24212 N23721	55	39	1	2	IAH	SAT	191
	80864	N17620	177	138	2	-4	IAH	TUS	936
	80866	N17620 N16617	71	49	3	-1	IAH	DFW	224
	80867	N37293	131	109	-13	-4	IAH	MIA	964
	80870	N57255 N57869	227	196	14	9	IAH	LAX	1379
	80877	N23708	208	190	-23	-6	IAH	SNA	1347
	80878	N17614	75	45	6	- 5	IAH	MSY	305
	80881	N37437	129	109	-10	-2	IAH	PBI	956
	80883	N77295	184	167	4	11	IAH	PHL	1324
	80886	N39728	143	120	-12	-7	IAH	RDU	1043
	80889	N34282	138	109	3	-2	IAH	OMA	781
	80894	N23721	127	98	-9	-3	IAH	MCO	853
	80896	N26208	174	155	3	3	IAH	HDN	986
	80899	N79279	249	225	-5	2	IAH	SMF	1609
	80903	N76065	486	461	-16	3	IAH	HNL	3904
	80908	N26208	55	40	-10	4	IAH	MSY	305
##	80909	N12221	65	39	2	-3	IAH	SAT	191
##	80919	N17640	58	40	-3	8	IAH	MSY	305
##	80921	N73299	55	32	1	-1	IAH	AUS	140
##	80929	N77520	222	188	-9	0	IAH	LAX	1379
##	80932	N29124	220	196	-4	-3	IAH	LAX	1379
##	80937	N37427	165	133	23	15	IAH	DEN	862
##	80938	N58101	224	199	77	61	IAH	EWR	1400
##	80940	N17139	172	152	5	45	IAH	EWR	1400
	80946	N76254	185	161	-16	-1	IAH	EWR	1400
	80949	N69059	209	166	5	6	IAH	EWR	1400
	80958	N17244	210	191	-16	1	IAH	LAX	1379
	80960	N75861	154	129	-5	-1	IAH	ORD	925
	80963	N78285	222	191	2	0	IAH	ONT	1334
	80966	N16713	159	140	-11	0	IAH	DCA	1208
	80971	N30401	254	230	-10	5	IAH	SF0	1635
	80978	N37274	146	108	3	0	IAH	MIA	964
	80984	N75851	203	174	1	4	IAH	LAS	1222
	80986	N39297	162	129	-1	-1	IAH	DEN	862
	80991	N36444	127	97	5	2	IAH	TPA	787
	80994	N24715	292	273	12	-4	IAH	PDX	1825
	80995	N33203	210	154	0	4	IAH	EWR	1400
	80997	N45440 N13113	242	218	-6	2 2	IAH IAH	SJU	2007
	81003 81009		182 173	148 148	3 7	13	IAH	PHX BWI	1009 1235
	81013	N14613 N37277	189	164	-22	0	IAH	LGA	1416
	81020	N37277 N14639	61	28	-22 4	-4	IAH	AUS	1410
	81020	N14639 N17620	168	133	-3	-4 -2	IAH	CLE	1091
	81025	N17620 N17619	146	120	-3 -6	-2 7	IAH	RDU	1043
	81032	N17619 N87512	155	137	-10	6	IAH	DCA	1208
	81036	N39415	292	268	9	1	IAH	SEA	1874
	81039	N37434	256	241	-6	3	IAH	SFO	1635
	81040	N33289	161	128	12	6	IAH	DEN	862
	81043	N37273	62	38	-2	2	IAH	SAT	191
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	81044	N33266	232	205	10	-1	IAH	BOS	1597
	81051	N78438	214	184	-1	-2	IAH	LAS	1222
	81053	N37255	147	128	-1	4	IAH	DEN	862
	81058	N76508	293	263	19	5	IAH	PDX	1825
	81059	N77867	203	156	-4	2	IAH	EWR	1400
	81064	N39418	172	151	0	9	IAH	PHX	1009
	81066	N76503	65	44	-7	-4	IAH	MSY	305
	81068	N76515	166	142	-4	4	IAH	BWI	1235
	81072	N76269	188	169	-21	-1	IAH	LGA	1416
	81084	N15710	154	138	-20	-4	IAH	DCA	1208
	81092	N17233	244	226	-14	8	IAH	SF0	1635
	81098	N11641	65	38	6	3	IAH	SAT	191
	81100	N35271	212	189	-8	1	IAH	BOS	1597
	81106	N26226	202	176	-1	8	IAH	LAS	1222
	81108	N36247	134	108	-10	-2	IAH	IND	845
	81110	N33264	208	188	-5	1	IAH	SAN	1303
	81111	N14629	170	142	-8	-6	IAH	IAD	1190
	81113	N54241	172	141	-1	-1	IAH	IAD	1190
##	81115	N67058	181	159	-27	-3	IAH	EWR	1400
	81117	N14237	163	142	-12	-3	IAH	IAD	1190
	81120	N37293	248	224	7	17	IAH	SJC	1609
	81122	N37267	60	40	-8	1	IAH	MSY	305
	81123	N77258	172	136	4	8	IAH	BWI	1235
##	81126	N14731	198	174	3	6	IAH	LGA	1416
##	81130	N24633	93	68	2	-4	IAH	TUL	429
	81131	N57862	139	118	28	48	IAH	ORD	925
##	81133	N37252	147	125	-12	-5	IAH	ORD	925
##	81138	N77296	163	144	-9	-2	IAH	DCA	1208
##	81142	N37434	286	270	4	-2	IAH	SEA	1874
##	81148	N73276	62	38	-3	1	IAH	SAT	191
##	81151	N77525	222	198	3	5	IAH	BOS	1597
##	81156	N75853	208	175	2	2	IAH	LAS	1222
##	81158	N37274	156	126	4	3	IAH	DEN	862
##	81159	N73299	132	99	-15	-2	IAH	IND	845
##	81165	N75429	178	158	-29	-2	IAH	EWR	1400
##	81166	N76502	74	51	1	4	IAH	MFE	316
##	81172	N75428	173	149	-8	0	IAH	PHX	1009
##	81179	N73270	199	172	50	56	IAH	LGA	1416
##	81180	N77430	158	130	-5	0	IAH	PIT	1117
##	81185	N53442	199	182	12	10	IAH	SLC	1195
##	81186	N16632	171	140	1	-6	IAH	CLE	1091
##	81187	N38257	143	118	-10	4	IAH	ORD	925
##	81197	N29717	158	141	-14	-1	IAH	DCA	1208
##	81204	N53442	245	231	-16	-1	IAH	SF0	1635
##	81209	N38257	199	178	-16	3	IAH	BOS	1597
##	81211	N17139	124	96	-3	7	IAH	MCO	853
##	81217	N78506	215	179	13	8	IAH	LAS	1222
##	81219	N78866	148	126	2	10	IAH	DEN	862
##	81221	N37252	153	128	-4	-1	IAH	DEN	862
	81223	N24224	123	95	34	35	IAH	TPA	787
	81226	N14219	165	140	27	33	IAH	MSP	1034
	81230	N37267	57	41	2	12	IAH	MSY	305
	81233	N33714	169	144	-8	-2	IAH	BWI	1235
	81236	N37273	212	193	140	136	IAH	LGA	1416

	81240	N76516	148	125	-6	8	IAH	CLE	1091
	81245	N15710	158	136	-10	1	IAH	DCA	1208
	81248	N33132	171	150	-4	2	IAH	EGE	935
	81249	N75854	315	288	48	11	IAH	SEA	1874
	81252	N47414	249	222	2	21	IAH	SF0	1635
	81257	N24212	223	200	-3	1	IAH	BOS	1597
	81260	N37427	132	98	0	1	IAH	MCO	853
	81266	N37409	202	178	86	94	IAH	LAS	1222
	81270	N24702	117	92	-7	1	IAH	TPA	787
	81271	N75410	311	281	33	0	IAH	PDX	1825
	81274	N29717	60	42	-6	0	IAH	MSY	305
	81281	N37277	217	186	49	27	IAH	LGA	1416
	81285	N34282	189	172	-14	9	IAH	SAN	1303
	81286	N47414	197	175	-16	4	IAH	SAN	1303
	81287	N12221	56	28	4	4	IAH	AUS	140
	81288	N26210	167	136	2	-2	IAH	CLE	1091
	81289	N87527	148	122	-4	8	IAH	ORD	925
	81290	N25705	192	179	6	14	IAH	SLC	1195
	81292	N17640	137	88	5	-9	IAH	ATL	689
	81293	N76516	203	184	-16	11	IAH	SNA	1347
	81297	N78285	55	40	-11	2	IAH	MSY	305
	81298	N39416	306	282	25	3	IAH	SEA	1874
	81301	N33286	252	234	-11	-2	IAH	SF0	1635
	81302	N14219	257	227	-15	-2	IAH	SF0	1635
	81303	N24212	173	152	-22	-4	IAH	PHL	1324
	81308	N74856	127	101	-9	-3	IAH	MCO	853
	81310	N16649	159	136	-11	-3	IAH	DTW	1076
	81313	N76504	220	195	22	30	IAH	LAX	1379
	81316	N57852	152	125	-6	4	IAH	DEN	862
	81322	N78009	216	186	32	21	IAH	EWR	1400
	81326	N73406	173	151	17	21	IAH	PHX	1009
	81332	N37298	119	91	-10	-5	IAH	TPA	787
	81333	N16709	193	165	-10	7	IAH	EWR	1400
	81342	N77430	141	121	-14	-3	IAH	ORD	925
	81343	N17244	136	114	-8	-1	IAH	FLL	965
	81347	N24729	165	144	-4	6	IAH	DCA	1208
	81350	N72405	262	233	5	3	IAH	SFO	1635
	81353	N17619	55	42	30	37	IAH	SAT	191
	81355	N57852	128	99	-12	-1	IAH	MCO	853
	81357	N79279	170	137	-3	-5 7	IAH	DTW	1076
	81359	N37252	218	194	0	7	IAH	LAX	1379
	81360	N78285	191	171	6	22	IAH	LAS	1222
	81362 81371	N73283	157	133	5	0 7	IAH IAH	DEN AUS	862 140
		N73275	61 248	32	11	0	IAH	SJC	
	81373	N77520		224 137	-11	2	IAH	PIT	1609
	81374	N17627	192		19				1117
	81378 81380	N37281 N17627	52 132	40 111	53 -15	67 -1	IAH IAH	MSY CLT	305 913
	81386	N35204	201 210	173	54 -7	0	IAH IAH	FLL SNA	965 1247
	81390 81392	N76517		189	-7 -22	6 -5	IAH	RSW	1347
	81392	N16642 N73259	126 178	104 163	-22 -4	-5 10	IAH	PHL	861 1324
	81401		61	38		9		SAT	1324
		N36247			10		IAH		
##	81403	N15712	165	128	-8	-2	IAH	DTW	1076

##	81406	N77867	226	183	-1	-1	IAH	LAX	1379
	81408	N79402	201	174	-13	-2	IAH	LAS	1222
##	81412	N38403	123	89	37	40	IAH	TPA	787
##	81414	N39726	218	193	-7	7	IAH	SNA	1347
	81419	N77431	59	32	5	1	IAH	AUS	140
##	81421	N16647	53	29	-6	-5	IAH	AUS	140
##	81422	N62631	170	140	5	1	IAH	CLE	1091
##	81424	N37298	147	117	5	15	IAH	ORD	925
##	81426	N73406	135	115	-3	6	IAH	FLL	965
##	81430	N76519	159	140	-2	9	IAH	DCA	1208
##	81434	N76517	122	105	-12	-4	IAH	RSW	861
	81436	N17614	130	100	17	13	IAH	MCI	643
##	81443	N24715	59	31	-1	-4	IAH	AUS	140
##	81445	N78524	123	97	-4	10	IAH	MCO	853
##	81447	N33209	193	175	-14	8	IAH	SAN	1303
##	81448	N17233	138	111	-2	3	IAH	MIA	964
##	81456	N14250	54	31	4	6	IAH	AUS	140
##	81457	N34222	226	191	3	2	IAH	LAX	1379
##	81464	N75436	164	144	-20	0	IAH	PHX	1009
##	81465	N24633	85	58	4	-1	IAH	MFE	316
##	81466	N26215	60	43	-10	-2	IAH	MSY	305
##	81468	N24715	195	180	-21	11	IAH	SNA	1347
##	81469	N19638	221	190	112	94	IAH	LGA	1416
##	81472	N17614	98	58	17	-3	IAH	MFE	316
##	81473	N12216	249	231	-4	2	IAH	SMF	1609
##	81475	N75410	144	121	-10	-1	IAH	ORD	925
##	81476	N12225	141	115	-6	-1	IAH	FLL	965
##	81480	N73259	128	94	-4	-1	IAH	RSW	861
##	81483	N11641	140	114	-1	-8	IAH	ELP	667
##	81484	N37437	179	154	-7	6	IAH	PHL	1324
##	81487	N11641	48	35	2	19	IAH	SAT	191
##	81492	N16617	177	135	-3	-7	IAH	DTW	1076
##	81493	N14230	190	175	15	45	IAH	SAN	1303
##	81494	N14230	147	117	6	7	IAH	MIA	964
##	81498	N26215	216	192	-13	2	IAH	LAX	1379
##	81503	N24729	69	53	-11	-1	IAH	MFE	316
##	81508	N16648	89	66	-3	-4	IAH	OKC	395
##	81510	N38417	256	230	-8	-3	IAH	SMF	1609
##	81511	N16642	152	122	-5	-7	IAH	ABQ	744
##	81512	N34222	199	183	-13	1	IAH	SAN	1303
##	81514	N77510	198	177	-21	3	IAH	ONT	1334
##	81519	N79402	138	122	28	45	IAH	ORD	925
##	81520	N12218	141	108	0	5	IAH	FLL	965
##	81522	N17614	118	84	-4	7	IAH	ATL	689
##	81527	N37281	318	290	32	-2	IAH	SEA	1874
##	81530	N38417	178	147	-16	-1	IAH	PHL	1324
##	81533	N33262	58	39	13	16	IAH	SAT	191
	81534	N12225	158	131	-18	0	IAH	TUS	936
	81537	N14645	73	46	2	1	IAH	DFW	224
	81539	N33286	133	112	-2	5	IAH	MIA	964
	81542	N75858	217	186	0	10	IAH	LAX	1379
	81551	N23708	225	193	0	5	IAH	SNA	1347
	81552	N14645	60	41	-15	-6	IAH	MSY	305
	81555	N75436	145	108	2	-1	IAH	PBI	956

##	81557	N36272	215	182	7	-3	IAH	LGA	1416
##	81558	N14242	181	163	-11	4	IAH	PHL	1324
##	81559	N27722	164	137	0	2	IAH	CLE	1091
##	81563	N19623	145	118	-16	-4	IAH	RDU	1043
	81566	N73291	139	114	1	-3	IAH	OMA	781
##	81571	N76504	122	98	-12	4	IAH	MCO	853
##	81573	N19638	182	158	-7	-7	IAH	HDN	986
	81576	N33266	254	229	6	13	IAH	SMF	1609
	81581	N77066	485	469	-7	13	IAH	HNL	3904
	81586	N24212	92	44	33	10	IAH	MSY	305
	81587	N78285	96	38	41	5	IAH	SAT	191
	81597	N14613	77	44	49	41	IAH	MSY	305
	81599	N76529	58	31	4	-1	IAH	AUS	140
	81607	N36207	222	182	34	43	IAH	LAX	1379
	81610	N19130	213	186	-13	0	IAH	LAX	1379
	81615	N74856	152	126	775	780	IAH	DEN	862
	81616	N14115	199	163	4	13	IAH	EWR	1400
	81618	N18119	188	158	50	74	IAH	EWR	1400
	81624	N27239	178	152	-22	0	IAH	EWR	1400
	81628	N76062	199	167	-14	-3	IAH	EWR	1400
	81634	N34222	67	47	6	7	IAH	MSY	305
	81638	N77258	239	181	23	11	IAH	LAX	1379
	81640	N75861	190	118	38	6	IAH	ORD	925
	81643	N34282	212	188	-7	1	IAH	ONT	1334
	81646 81651	N16709	173	127	2	-1	IAH	DCA	1208
		N37408	242 155	222	-31 15	-4 3	IAH	SFO MTA	1635 964
	81658	N37273	203	109	8		IAH	MIA LAS	1222
	81664	N77871		167		11 -2	IAH		862
	81666 81671	N37298 N75432	150 142	120 95	-14 24	6	IAH IAH	DEN TPA	787
	81674	N73432 N24706	296	269	19	-1	IAH	PDX	1825
	81675	N38424	191	160	-14	9	IAH	EWR	1400
	81677	N75429	235	212	-9	6	IAH	SJU	2007
	81683	N12109	165	145	47	63	IAH	PHX	1009
	81689	N17614	157	137	-28	-6	IAH	BWI	1235
##		N73275	180	161	-35	-4	IAH	LGA	1416
	81700	N27610	77	29	23	-1	IAH	AUS	140
	81702	N14604	187	128	19	1	IAH	CLE	1091
	81705	N24729	151	116	11	15	IAH	RDU	1043
	81712	N76529	158	138	-14	-1	IAH	DCA	1208
	81716	N14231	300	280	15	-1	IAH	SEA	1874
	81719	N78438	243	220	-23	-1	IAH	SFO	1635
	81720	N26215	174	128	55	36	IAH	DEN	862
##	81723	N35260	69	40	-1	-4	IAH	SAT	191
##	81724	N77261	198	177	-22	1	IAH	BOS	1597
##	81731	N38417	191	170	-10	12	IAH	LAS	1222
##	81733	N37427	152	122	12	12	IAH	DEN	862
##	81738	N14250	291	272	11	-1	IAH	PDX	1825
##	81739	N57863	208	156	37	38	IAH	EWR	1400
##	81744	N75425	187	141	45	39	IAH	PHX	1009
##	81746		NA	NA	NA	NA	IAH	MSY	305
	81748	N77525	155	133	-18	1	IAH	BWI	1235
	81752	N37274	178	158	-34	-4	IAH	LGA	1416
##	81763	N14731	168	137	8	-3	IAH	GUC	886

	0.4700	374 5 574 0	4.40	404	0.5		T 4 **	D.G.4	4000
	81766	N15710	149	131	-25	-4	IAH	DCA	1208
	81774	N76254	270	226	19	15	IAH	SFO	1635
	81780	N33266	75	43	43	30	IAH	SAT	191
	81782	N76265	203	183	-16	2	IAH	BOS	1597
##	81788	N17229	213	178	7	5	IAH	LAS	1222
##	81790	N37277	145	102	2	-1	IAH	IND	845
##	81792	N33284	195	175	-13	6	IAH	SAN	1303
##	81793	N25705	155	129	-19	-2	IAH	IAD	1190
##	81795	N12216	171	128	-3	-2	IAH	IAD	1190
##	81797	N17233	185	158	-20	0	IAH	EWR	1400
##	81799	N54241	149	127	-23	0	IAH	IAD	1190
##	81802	N76517	273	216	49	34	IAH	SJC	1609
##	81804	N35271	101	44	35	3	IAH	MSY	305
##	81805	N78506	172	142	8	12	IAH	BWI	1235
##	81808	N27722	179	157	-19	3	IAH	LGA	1416
##	81812	N17640	91	62	-2	-6	IAH	TUL	429
##	81813	N75851	160	115	10	9	IAH	ORD	925
##	81815	N33203	148	123	-9	-3	IAH	ORD	925
##	81820	N35204	166	146	-10	-6	IAH	DCA	1208
##	81824	N24211	326	295	58	12	IAH	SEA	1874
##	81830	N76504	87	35	45	24	IAH	SAT	191
##	81833	N76522	216	182	2	10	IAH	BOS	1597
##	81838	N57862	202	174	-7	-1	IAH	LAS	1222
##	81840	N37273	166	130	11	0	IAH	DEN	862
	81841	N17620	153	107	7	-1	IAH	IND	845
	81847	N45440	191	160	-12	2	IAH	EWR	1400
	81848	N35204	89	60	16	4	IAH	MFE	316
	81854	N35407	174	144	0	7	IAH	PHX	1009
	81860	N73276	232	154	29	2	IAH	LGA	1416
	81861	N53441	152	119	-12	-1	IAH	PIT	1117
	81866	N72405	189	168	0	8	IAH	SLC	1195
	81867	N17619	154	131	-16	-6	IAH	CLE	1091
	81868	N76515	149	115	-9	-1	IAH	ORD	925
	81878	N25705	176	146	2	-3	IAH	DCA	1208
	81885	N72405	272	219	30	18	IAH	SF0	1635
	81890	N29717	204	178	-6	8	IAH	BOS	1597
	81892	N18119	123	103	-11	0	IAH	MCO	853
	81898	N33203	195	168	-1	14	IAH	LAS	1222
	81900	N77867	150	123	63	69	IAH	DEN	862
	81902	N77296	166	126	11	1	IAH	DEN	862
	81904	N12218	136	97	33	21	IAH	TPA	787
	81907	N39728	173	142	4	2	IAH	MSP	1034
	81911	N75851	93	44	30	4	IAH	MSY	305
	81914	N14613	164	138	-21	- 5	IAH	BWI	1235
	81917	N11641	213	173	26	21	IAH	LGA	1416
	81921	N14250	163	128	30	29	IAH	CLE	1091
	81926	N15710	178	136	19	10	IAH	DCA	1208
	81929	N17139	168	145	-8	1	IAH	EGE	935
	81930	N57864	325	270	89	42	IAH	SEA	1874
	81933	N37422	261	220	-3	42	IAH	SFO	1635
	81938	N14653	227	177	1	1	IAH	BOS	1597
	81941	N57864	133	106	3	3	IAH	MCO	853
	81947	N79402	231	174	25	4	IAH	LAS	1222
	81951	N16713	112	92	-13	0	IAH	TPA	787
##	01901	MIOLIO	112	52	-13	U	THU	11'H	101

##	81952	N73406	283	250	5	0	IAH	PDX	1825
	81955	N14219	67	43	2	1	IAH	MSY	305
	81962	NITZIO	NA	NA	NA	NA	IAH	LGA	1416
	81966	N37434	194	172	-2	16	IAH	SAN	1303
	81967	N39415	201	181	-17	-1	IAH	SAN	1303
	81968	N26215	66	30	23	13	IAH	AUS	140
	81969	N13248	195	124	30	-2	IAH	CLE	1091
	81970	N78524	165	120	21	16	IAH	ORD	925
	81971	N77296	216	187	22	6	IAH	SLC	1195
	81973	N16648	129	84	27	21	IAH	ATL	689
	81974	N87513	213	191	-21	-4	IAH	SNA	1347
	81978	N24211	84	46	20	4	IAH	MSY	305
	81979	N37437	315	280	55	24	IAH	SEA	1874
	81982	N33286	254	222	-1	6	IAH	SFO	1635
	81983	N34222	256	232	-17	-3	IAH	SFO	1635
	81984	N24729	172	151	-18	1	IAH	PHL	1324
	81989	N57852	174	101	42	1	IAH	MCO	853
##	81991	N14639	154	128	-18	-5	IAH	DTW	1076
##	81994	N17244	248	182	68	48	IAH	LAX	1379
##	81997	N75853	149	119	-16	-3	IAH	DEN	862
##	82003	N77022	210	158	14	9	IAH	EWR	1400
##	82008	N75410	169	141	15	23	IAH	PHX	1009
##	82014	N73291	109	92	19	34	IAH	TPA	787
##	82015	N73251	186	154	-10	14	IAH	EWR	1400
##	82024	N78438	143	118	-3	6	IAH	ORD	925
	82025	N77258	127	110	-20	-4	IAH	FLL	965
##	82029	N27724	156	137	-26	-7	IAH	DCA	1208
	82032	N32404	275	224	26	11	IAH	SF0	1635
	82035	N73259	82	37	44	24	IAH	SAT	191
	82037	N75853	147	101	18	10	IAH	MCO	853
	82039	N12225	161	126	-9	-2	IAH	DTW	1076
	82041	N12238	211	180	-14	0	IAH	LAX	1379
	82042	N76503	202	177	-4	1	IAH	LAS	1222
	82044	N73275	162	127	22	12	IAH	DEN	862
	82053	N76516	73	31	22	6	IAH	AUS	140
	82055	N33264	250	226	-11	-2	IAH	SJC	1609
	82056	N19621	171	126	8	12	IAH	PIT	1117
	82060	N37277	74	43	6	-2	IAH	MSY	305
	82062	N16648	130	104	-21	-5 1	IAH	CLT	913
	82068 82072	N33289	130 211	112 183	-18 9	-1 21	IAH IAH	FLL SNA	965
	82074	N77525 N14645	126	100	-17	0	IAH	RSW	1347 861
	82081	N36207	165	146	-17 -29	-2	IAH	PHL	1324
	82083	N37434	68	36	-2 <i>9</i> 25	-2 17	IAH	SAT	191
	82085	N73291	165	131	-7	-1	IAH	DTW	1076
	82088	N57863	231	184	2	-3	IAH	LAX	1379
	82090	N35260	207	166	7	12	IAH	LAS	1222
	82091	N14230	173	141	4	1	IAH	DCA	1208
	82095	N37408	135	94	16	7	IAH	TPA	787
	82097	N16701	222	177	-11	-1	IAH	SNA	1347
	82102	N30401	58	29	27	24	IAH	AUS	140
	82104	N17627	69	31	14	-1	IAH	AUS	140
	82105	N13624	135	119	-18	13	IAH	CLE	1091
	82107	N34222	157	128	22	22	IAH	ORD	925
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	82109	N75410	188	110	49	5	IAH	FLL	965
	82116	N12238	173	97	45	2	IAH	RSW	861
	82118	N62631	133	95	32	25	IAH	MCI	643
	82125	N37434	54	31	26	28	IAH	AUS	140
	82127	N75436	136	104	10	11	IAH	MCO	853
	82129	N73299	213	167	9	11	IAH	SAN	1303
	82130	N73299	126	104	-19	-2	IAH	MIA	964
	82138	N87513	56	30	0	0	IAH	AUS	140
	82139	N36280	222	188	0	3	IAH	LAX	1379
	82146	N47414	183	151	-2	-1	IAH	PHX	1009
##	82147	N17620	126	62	43	-3	IAH	MFE	316
##	82148	N16234	55	42	-6	7	IAH	MSY	305
##	82150	N16703	220	188	-10	-3	IAH	SNA	1347
##	82151	N27724	199	169	0	4	IAH	LGA	1416
##	82154	N18622	82	58	13	9	IAH	MFE	316
##	82155	N78285	229	203	-3	23	IAH	SMF	1609
##	82157	N35407	127	111	-14	12	IAH	ORD	925
##	82158	N38257	157	107	41	30	IAH	FLL	965
##	82162	N33209	162	102	40	9	IAH	RSW	861
##	82165	N17627	145	94	45	33	IAH	ELP	667
##	82166	N39418	190	146	6	8	IAH	PHL	1324
##	82169	N27610	61	39	-15	-11	IAH	SAT	191
##	82174	N16642	179	126	2	-4	IAH	DTW	1076
##	82175	N24224	212	175	-5	3	IAH	SAN	1303
##	82176	N17229	131	109	-19	-2	IAH	MIA	964
##	82180	N37287	225	189	38	44	IAH	LAX	1379
##	82185	N33714	82	61	1	-2	IAH	MFE	316
##	82190	N17614	94	60	3	-3	IAH	OKC	395
##	82192	N38443	251	228	-15	-5	IAH	SMF	1609
##	82193	N14645	147	115	3	6	IAH	ABQ	744
##	82194	N75428	194	168	-5	14	IAH	SAN	1303
##	82196	N24212	205	186	-20	-3	IAH	ONT	1334
##	82201	N79402	134	112	-22	-1	IAH	ORD	925
##	82202	N14237	151	109	10	5	IAH	FLL	965
##	82204	N62631	122	93	-8	-1	IAH	ATL	689
##	82209	N37252	300	276	14	-2	IAH	SEA	1874
##	82212	N27239	195	143	12	10	IAH	PHL	1324
##	82215	N33266	58	36	9	12	IAH	SAT	191
##	82216	N14604	161	137	3	18	IAH	TUS	936
##	82219	N32626	86	46	13	-1	IAH	DFW	224
##	82221	N33203	193	109	52	-1	IAH	MIA	964
##	82224	N56859	241	197	21	7	IAH	LAX	1379
##	82233	N23708	235	182	15	10	IAH	SNA	1347
##	82234	N17627	59	40	17	27	IAH	MSY	305
##	82237	N38443	146	106	0	-4	IAH	PBI	956
	82239	N76269	188	163	-21	-4	IAH	LGA	1416
	82240	N77520	176	156	-1	19	IAH	PHL	1324
	82241	N15712	157	126	-8	1	IAH	CLE	1091
	82245	N18622	179	122	22	0	IAH	RDU	1043
	82248	N37293	125	108	-12	-2	IAH	OMA	781
	82253	N54241	133	103	-7	-2	IAH	MCO	853
	82255	N17640	174	150	-9	-1	IAH	HDN	986
	82258	N37255	252	220	-5	4	IAH	SMF	1609
	82263	N76064	495	475	-9	1	IAH	HNL	3904

##	82268	N17229	57	41	-13	-1	IAH	MSY	305
	82269	N35204	59	38	-6	-5	IAH	SAT	191
	82278	N37434	66	44	-3	0	IAH	MSY	305
	82280	N18622	62	32	4	-5	IAH	AUS	140
	82288	N87512	231	197	0	0	IAH	LAX	1379
	82291	N19141	211	184	-12	3	IAH	LAX	1379
	82296	N75861	163	124	38	32	IAH	DEN	862
	82297	N26123	192	170	4	20	IAH	EWR	1400
	82299	N33103	213	180	1	0	IAH	EWR	1400
	82305	N73256	197	169	- 5	-2	IAH	EWR	1400
	82309	N66051	199	173	-11	0	IAH	EWR	1400
	82315	N18223	64	41	-5	-1	IAH	MSY	305
	82319	N14250	218	191	9	18	IAH	LAX	1379
	82320	N57862	141	118	11	28	IAH	ORD	925
	82323	N13248	205	182	-11	4	IAH	ONT	1334
	82326	N39726	166	140	-9	-5	IAH	DCA	1208
	82331	N34222	258	239	-11	0	IAH	SFO	1635
##	82337	N76269	138	106	-9	-4	IAH	MIA	964
##	82341	N14230	151	126	163	174	IAH	DEN	862
##	82346	N39423	112	96	2	14	IAH	TPA	787
##	82349	N38727	273	253	-6	-3	IAH	PDX	1825
##	82350	N37409	199	171	-16	-1	IAH	EWR	1400
##	82352	N45440	238	220	-13	-1	IAH	SJU	2007
##	82358	N67134	173	150	-11	-3	IAH	PHX	1009
	82367	N76265	206	175	-9	-4	IAH	LGA	1416
	82374	N16646	51	28	-5	-3	IAH	AUS	140
	82376	N17619	164	132	-7	-2	IAH	CLE	1091
	82379	N14653	146	124	-9	4	IAH	RDU	1043
	82385	N78524	164	144	-11	-4	IAH	DCA	1208
	82391	N27239	159	130	5	1	IAH	DEN	862
	82394	N38417	212	187	-13	-4	IAH	BOS	1597
	82400	N17245	143	121	-14	-5	IAH	DEN	862
	82405	N36247	272	255	-9	-2	IAH	PDX	1825
	82406	N75858	189	160	-17	3	IAH	EWR	1400
	82410	N37413	173	151	-8	0	IAH	PHX	1009
	82411	N37277	65	42	5	8	IAH	MSY	305
	82413	N87513	159	144	-10	5	IAH	BWI	1235
	82417	N37255	185	166	38	61	IAH	LGA	1416
	82429 82435	N34282	164 256	150 230	-14 -5	-8 5	IAH IAH	DCA SFO	1208 1635
	82440	N38257 N77258	56	230 37	-5 -7	-1	IAH	SAT	191
	82447	N112238	199	179	-7 -8	1	IAH	LAS	1222
	82449	N17245	137	112	-8 -7	-2	IAH	IND	845
	82451	N17243 N13248	168	144	-7 -9	-2 -5	IAH	IAD	1190
	82453	N13246 N12225	167	144	-6	-1	IAH	IAD	1190
	82455	N73278	206	184	-2	-3	IAH	EWR	1400
	82457	N12216	157	138	-17	-2	IAH	IAD	1190
	82460	N37287	248	227	-2	8	IAH	SJC	1609
	82461	N37255	72	42	2	-1	IAH	MSY	305
	82462	N76508	177	143	0	-1	IAH	BWI	1235
	82465	N15712	187	169	-18	-4	IAH	LGA	1416
	82469	N14639	90	60	0	-3	IAH	TUL	429
	82470	N77871	159	116	-1	-1	IAH	ORD	925
	82472	N27724	157	133	-2	-5	IAH	ORD	925
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	82477	N76503	173	143	36	33	IAH	DCA	1208
	82481	N39418	275	259	-7	-2	IAH	SEA	1874
	82487	N77261	62	37	-2	2	IAH	SAT	191
	82488	N78501	220	193	-2	2	IAH	BOS	1597
	82492	N57868	200	179	-6	2	IAH	LAS	1222
##	82494	N18622	148	108	-5	-8	IAH	IND	845
##	82500	N38424	203	180	1	3	IAH	EWR	1400
##	82501	N27722	77	58	4	4	IAH	MFE	316
	82507	N30401	179	151	-3	-1	IAH	PHX	1009
##	82513	N73276	206	180	0	-1	IAH	LGA	1416
##	82514	N14219	159	133	4	8	IAH	PIT	1117
##	82519	N30401	198	174	1	0	IAH	SLC	1195
##	82520	N14645	158	137	-19	-7	IAH	CLE	1091
##	82521	N18223	144	120	-18	-5	IAH	ORD	925
##	82531	N14731	177	151	0	-6	IAH	DCA	1208
##	82533	N76526	221	193	-10	-1	IAH	SNA	1347
##	82539	N38417	247	223	-5	8	IAH	SF0	1635
##	82544	N33294	202	181	-19	-3	IAH	BOS	1597
##	82546	N18119	125	102	5	14	IAH	MCO	853
##	82552	N37298	198	179	-9	3	IAH	LAS	1222
##	82554	N75851	156	131	0	0	IAH	DEN	862
##	82556	N24211	160	131	19	15	IAH	DEN	862
##	82558	N14237	131	92	24	17	IAH	TPA	787
##	82561	N34282	164	134	-8	-1	IAH	MSP	1034
##	82565	N33264	62	41	-5	0	IAH	MSY	305
##	82568	N62631	185	152	0	-5	IAH	BWI	1235
##	82570	N78506	208	186	-1	-1	IAH	LGA	1416
##	82574	N39416	146	126	-9	7	IAH	CLE	1091
##	82577	N33714	167	139	-3	-1	IAH	DCA	1208
##	82580	N13718	174	156	0	3	IAH	EGE	935
##	82582	N57852	284	266	7	1	IAH	SEA	1874
##	82585	N33286	249	227	-16	3	IAH	SF0	1635
##	82589	N76504	229	197	3	1	IAH	BOS	1597
##	82595	N37408	200	177	43	53	IAH	LAS	1222
##	82599	N39726	116	98	-8	1	IAH	TPA	787
##	82600	N75410	289	261	9	-2	IAH	PDX	1825
##	82609	N76265	189	164	-6	0	IAH	LGA	1416
##	82613	N39415	212	190	-7	-2	IAH	SAN	1303
##	82614	N36272	164	127	-2	-3	IAH	CLE	1091
##	82615	N76517	138	119	-22	0	IAH	ORD	925
##	82616	N35204	187	170	-18	-5	IAH	SLC	1195
##	82618	N17640	132	88	2	-7	IAH	ATL	689
##	82621	N24224	59	43	-13	-4	IAH	MSY	305
##	82622	N37290	288	263	16	12	IAH	SEA	1874
##	82625	N12225	245	226	-16	0	IAH	SF0	1635
	82626	N33289	263	238	-7	0	IAH	SF0	1635
	82627	N33209	187	167	-2	2	IAH	PHL	1324
	82632	N57864	131	105	-9	-7	IAH	MCO	853
	82635	N17233	217	196	-13	-2	IAH	LAX	1379
	82638	N57863	161	125	-5	-4	IAH	DEN	862
	82644	N76010	199	174	0	6	IAH	EWR	1400
	82649	N35407	169	145	-1	7	IAH	PHX	1009
	82656	N18220	184	156	-12	14	IAH	EWR	1400
	82664	N72405	137	114	-18	-3	IAH	ORD	925

	82665	N14250	135	117	-11	-3	IAH	FLL	965
	82669	N24715	149	134	-15	11	IAH	DCA	1208
	82672	N73406	260	222	3	3	IAH	SF0	1635
	82675	N24212	65	34	0	-3	IAH	SAT	191
	82677	N57863	134	100	12	17	IAH	MCO	853
	82679	N39297	157	139	-8	3	IAH	DTW	1076
	82681	N39297	209	181	-16	0	IAH	LAX	1379
	82682	N14237	205	181	-4	-2	IAH	LAS	1222
	82684	N78509	150	126	-1	1	IAH	DEN	862
	82692	N33264	57	28	1	1	IAH	AUS	140
	82694	N77261	255	236	-1	3	IAH	SJC	1609
	82695	N24212	156	132	-19	-4	IAH	PIT	1117
	82699	N35271	57	44	-8	1	IAH	MSY	305
	82701	N24633	136	115	-16	-6	IAH	CLT	913
	82710	N76522	203	183	-20	0	IAH	SNA	1347
	82717	N73291	52	39	32	40	IAH	SAT	191
	82719	N37252	158	128	-17	-4	IAH	DTW	1076
	82721	N77871	223	197	-1	2	IAH	LAX	1379
	82723	N76502	223	183	13	2	IAH	LAS	1222
	82727	N38403	171	139	51	6	IAH	TPA	787
	82728	N23708	232	199	5	5	IAH	SNA	1347
	82732	N76503	50	29	11	16	IAH	AUS	140
	82734	N16648	45	28	5	14	IAH	AUS	140
	82735	N11641	145	129	-26	-5	IAH	CLE	1091
	82737	N12218	135	116	-18	4	IAH	ORD	925
	82739	N72405	142	121	0	2	IAH	FLL	965
##	82743	N76526	47	30	-8	1	IAH	AUS	140
##	82747	N76522	132	106	1	-1	IAH	RSW	861
##	82749	N13624	144	91	13	-5	IAH	MCI	643
##	82756	N37413	48	29	-12	-4	IAH	AUS	140
	82758	N12221	119	97	-18	0	IAH	MCO	853
##	82760	N53442	215	186	11	11	IAH	SAN	1303
##	82761	N37290	140	118	0	3	IAH	MIA	964
##	82767	N73251	166	140	-1	3	IAH	DCA	1208
##	82773	N14604	81	56	-4	-5	IAH	MFE	316
##	82774	N37408	57	43	-12	-1	IAH	MSY	305
##	82776	N39728	224	204	-3	0	IAH	SNA	1347
##	82777	N27610	186	160	1	18	IAH	LGA	1416
	82780	N18223	237	223	-17	1	IAH	SMF	1609
##	82782	N37267	136	119	-17	0	IAH	ORD	925
##	82783	N33209	152	119	10	4	IAH	FLL	965
	82787	N77295	128	98	-1	2	IAH	RSW	861
	82791	N16648	131	107	-6	-4	IAH	ELP	667
	82792	N78438	184	157	0	8	IAH	PHL	1324
	82795	N76517	55	39	-10	0	IAH	SAT	191
	82800	N14645	181	136	3	-5	IAH	DTW	1076
	82801	N76288	201	183	-23	-4	IAH	SAN	1303
	82805	N27213	218	197	-8	5	IAH	LAX	1379
	82810	N77258	72	53	-10	-3	IAH	MFE	316
	82814	N14604	87	61	-5	-4	IAH	OKC	395
	82816	N75428	253	233	-14	-6	IAH	SMF	1609
	82817	N17627	146	120	-10	-6	IAH	ABQ	744
##	82818	N75432	198	181	-9	6	IAH	SAN	1303
##	82821	N33286	208	189	-16	-2	IAH	ONT	1334

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	82825 82826	N57852	152 139	129	-9 -8	-6 -1	IAH	ORD FLL	925
	82827	N75428	117	119 95			IAH	ATL	965 689
	82831	N14653 N37422	284	266	-16 -1	-4 -1	IAH	SEA	1874
	82833	N36247	192	161	-1 -2	-1 -1	IAH	PHL	1324
	82835	N73275	59	42	3	-1 5	IAH	SAT	191
	82836	N16647	80	42	13	5	IAH	DFW	224
	82838	N36207	143	116	4	1	IAH	MIA	964
	82841	N78866	221	193	-2	4	IAH	LAX	1379
	82850	N29717	222	193	-11	-3	IAH	SNA	1347
	82853	N37420	152	117	6	-4	IAH	PBI	956
	82855	N37274	197	179	-10	-2	IAH	LGA	1416
	82856	N73291	190	171	-6	0	IAH	PHL	1324
	82857	N24706	158	130	-8	0	IAH	CLE	1091
	82861	N19638	149	128	-13	-5	IAH	RDU	1043
	82864	N33289	126	107	-13	-4	IAH	OMA	781
	82869	N73406	127	105	-14	-3	IAH	MCO	853
	82871	N14639	173	153	-4	5	IAH	HDN	986
	82874	N24715	251	232	-12	-2	IAH	SMF	1609
	82879	N66057	NA	NA	NA	2	IAH	HNL	3904
	82884	N37290	54	39	-17	-2	IAH	MSY	305
	82885	N16217	63	39	26	23	IAH	SAT	191
	82894	N16647	74	52	0	-5	IAH	MSY	305
	82896	N38257	62	30	18	9	IAH	AUS	140
	82906	N33132	216	193	-14	-4	IAH	LAX	1379
##	82911	N57862	161	135	90	86	IAH	DEN	862
##	82912	N17126	222	175	16	2	IAH	EWR	1400
##	82914	N19136	198	164	-4	10	IAH	EWR	1400
##	82920	N76254	186	159	123	137	IAH	EWR	1400
##	82924		NA	NA	NA	NA	IAH	EWR	1400
##	82930	N47414	58	41	7	17	IAH	MSY	305
##	82934	N33289	229	195	4	2	IAH	LAX	1379
##	82935	N75853	189	125	32	1	IAH	ORD	925
##	82938	N36207	197	180	-5	18	IAH	ONT	1334
##	82941	N27724	176	144	7	1	IAH	DCA	1208
##	82946	N31412	259	237	-10	0	IAH	SF0	1635
	82952	N73275	134	114	-11	-2	IAH	MIA	964
##	82956	N73278	175	138	15	2	IAH	DEN	862
	82961	N39416	113	95	24	35	IAH	TPA	787
	82964	N23721	273	257	-2	1	IAH	PDX	1825
	82965	N71411	222	163	19	11	IAH	EWR	1400
	82967	N38424	236	215	-13	1	IAH	SJU	2007
	82973	N41135	182	153	1	0	IAH	PHX	1009
	82982	N38727	195	176	41	57	IAH	LGA	1416
	82989	N14629	56	30	0	-3	IAH	AUS	140
	82991	N59630	173	139	1	-3	IAH	CLE	1091
	82994	N19623	155	122	-6	-2	IAH	RDU	1043
	83000	N14230	161	141	-13	-3	IAH	DCA	1208
	83006	N13248	180	138	23	-2	IAH	DEN	862
	83009	N78438	220	183	4	5	IAH	BOS	1597
	83015	N16217	156	134	1	-3	IAH	DEN	862
	83020	N18223	305	287	29	3	IAH	PDX	1825
	83021	N57870	183	155	23	49	IAH	EWR	1400
##	83024	N27205	182	149	2	1	IAH	PHX	1009

	83025	N36272	64	39	-3	1	IAH	MSY	305
	83027	N76514	160	144	-10	4	IAH	BWI	1235
	83031	N18220	231	203	20	-3	IAH	LGA	1416
	83040	N13718	170	149	8	-5	IAH	GUC	886
	83048	N73283	262	232	14	18	IAH	SF0	1635
	83053	N39728	69	41	8	1	IAH	SAT	191
	83060	N17245	205	177	1	7	IAH	LAS	1222
	83062	N12218	128	99	-18	-4	IAH	IND	845
	83064	N15712	181	139	7	-2	IAH	IAD	1190
	83066	N37298	160	143	-14	-2	IAH	IAD	1190
	83068	N76522	219	195	70	56	IAH	EWR	1400
	83070	N12225	169	141	-4	-1	IAH	IAD	1190
	83073	N87513	248	229	-4	6	IAH	SJC	1609
	83074	N37274	65	43	-6	-2	IAH	MSY	305
	83075	N38257	165	143	-9	2	IAH	BWI	1235
	83081	N13624	99	69	6	-6	IAH	TUL	429
	83082	N18223	159	133	44	44	IAH	ORD	925
	83084	N12216	156	131	-3	-5	IAH	ORD	925
	83089	N14214	157	140	-14	-1	IAH	DCA	1208
##	83093	N37434	298	275	15	-3	IAH	SEA	1874
##	83099	N76269	60	35	-6	0	IAH	SAT	191
##	83100	N77525	214	179	28	38	IAH	BOS	1597
##	83104	N57855	204	174	-5	-1	IAH	LAS	1222
##	83106	N16647	145	113	-7	-7	IAH	IND	845
##	83112	N37420	224	193	24	5	IAH	EWR	1400
##	83113	N37255	70	51	-11	-4	IAH	MFE	316
##	83119	N75426	164	146	-17	0	IAH	PHX	1009
##	83125	N16732	215	183	157	147	IAH	LGA	1416
##	83126	N37409	152	131	-12	-1	IAH	PIT	1117
##	83131	N79402	222	190	22	-3	IAH	SLC	1195
##	83132	N16617	168	138	-9	-7	IAH	CLE	1091
##	83133	N87512	162	130	18	13	IAH	ORD	925
##	83142	N25705	179	139	6	-2	IAH	DCA	1208
##	83149	N38417	253	234	-14	1	IAH	SF0	1635
##	83154	N38727	208	178	10	20	IAH	BOS	1597
##	83156	N33132	131	106	4	7	IAH	MCO	853
##	83162	N73278	194	173	-16	0	IAH	LAS	1222
##	83164	N57852	159	138	2	-1	IAH	DEN	862
##	83166	N77258	164	142	5	-3	IAH	DEN	862
##	83168	N76288	128	94	24	20	IAH	TPA	787
##	83171	N24211	174	153	3	0	IAH	MSP	1034
##	83175	N76269	80	46	13	0	IAH	MSY	305
##	83178	N16647	167	147	-18	-5	IAH	BWI	1235
##	83180	N33203	243	185	213	178	IAH	LGA	1416
##	83184	N37273	157	133	-4	1	IAH	CLE	1091
##	83188	N37267	158	135	-10	1	IAH	DCA	1208
##	83190	N24706	181	158	3	-1	IAH	EGE	935
##	83192	N57864	311	291	40	7	IAH	SEA	1874
##	83198	N26226	248	204	65	44	IAH	BOS	1597
##	83204	N38443	215	180	6	1	IAH	LAS	1222
##	83208	N27724	126	99	-2	-3	IAH	TPA	787
##	83209	N27213	290	270	20	8	IAH	PDX	1825
##	83218	N13718	198	161	84	81	IAH	LGA	1416
##	83222	N75428	206	186	-11	0	IAH	SAN	1303

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	83223	N16649	168	137	3	-2	IAH	CLE	1091
	83224	N79521	166	139	68	62	IAH	ORD	925
	83225	N76503	198	177	0	2	IAH	SLC	1195
	83227	N11641	114	82	28	37	IAH	ATL	689
	83228	N87507	236	205	1	-5	IAH	SNA	1347
	83231	N76517	92	67	22	-2	IAH	MSY	305
	83232	N26210	316	292	50	18	IAH	SEA	1874
	83235	N77258	261	237	10	10	IAH	SF0	1635
	83236	N14219	260	239	-9	1	IAH	SF0	1635
	83237	N73256	222	155	29	-2	IAH	PHL	1324
	83242	N75854	127	101	-13	-7	IAH	MCO	853
##	83245	N14230	216	191	-11	1	IAH	LAX	1379
##	83247	N57864	163	140	0	-1	IAH	DEN	862
##	83253	N78004	228	201	27	4	IAH	EWR	1400
##	83258	N38403	167	142	-11	-1	IAH	PHX	1009
##	83264	N37287	177	150	-4	29	IAH	EWR	1400
##	83272	N30401	153	129	-1	-2	IAH	ORD	925
##	83273	N38443	146	120	-1	-4	IAH	FLL	965
##	83277	N16709	162	146	-3	10	IAH	DCA	1208
##	83280	N75410	251	226	51	60	IAH	SF0	1635
##	83283	N37273	69	38	6	-1	IAH	SAT	191
##	83285	N57868	143	105	0	-4	IAH	MCO	853
##	83287	N76503	159	137	-12	-3	IAH	DTW	1076
##	83289	N14242	224	193	10	11	IAH	LAX	1379
##	83290	N76288	200	176	-5	2	IAH	LAS	1222
##	83292	N77867	156	135	116	112	IAH	DEN	862
##	83300	N35260	44	30	32	45	IAH	AUS	140
##	83302	N76265	259	236	-2	-2	IAH	SJC	1609
##	83303	N19621	174	146	-7	-6	IAH	PIT	1117
##	83307	N16648	65	42	79	80	IAH	MSY	305
##	83309	N11641	132	110	-18	-4	IAH	CLT	913
##	83318	N39297	215	191	-10	-2	IAH	SNA	1347
##	83324	N33209	58	36	0	2	IAH	SAT	191
##	83326	N14731	165	129	-11	-5	IAH	DTW	1076
##	83328	N57862	233	192	13	6	IAH	LAX	1379
##	83333	N75433	110	90	-11	5	IAH	TPA	787
##	83334	N16709	219	194	-11	2	IAH	SNA	1347
##	83338	N37409	48	31	-6	1	IAH	AUS	140
	83340	N16646	67	29	13	0	IAH	AUS	140
##	83341	N14645	157	136	-19	-10	IAH	CLE	1091
##	83343	N73256	225	138	105	37	IAH	ORD	925
##	83345	N47414	140	125	-2	2	IAH	FLL	965
##	83349	N87507	221	194	-9	1	IAH	LAX	1379
	83352	N76526	163	143	-5	2	IAH	DCA	1208
##	83354	N14242	125	104	-5	0	IAH	RSW	861
	83356	N14639	121	96	1	6	IAH	MCI	643
	83363	N39416	75	32	19	0	IAH	AUS	140
	83365	N31412	127	104	3	13	IAH	MCO	853
	83367	N37281	210	181	-2	3	IAH	SAN	1303
	83368	N73283	150	110	8	1	IAH	MIA	964
	83374	N78506	52	29	- 5	-1	IAH	AUS	140
	83380	N37274	89	55	35	26	IAH	MFE	316
	83381	N17619	61	41	-9	-2	IAH	MSY	305
	83383	N23708	229	197	3	1	IAH	SNA	1347
	30000		220	-01	J	_		~1111	1011

	83384	N15712	201	161	141	137	IAH	LGA	1416
	83387	N14214	241	220	1	15	IAH	SMF	1609
	83389	N36207	152	127	3	4	IAH	ORD	925
	83390	N76505	155	118	5	-4	IAH	FLL	965
	83394	N78285	130	101	1	2	IAH	RSW	861
	83398	N19638	117	99	-19	-3	IAH	ELP	667
	83399	N87512	191	156	222	223	IAH	PHL	1324
	83402	N16732	85	41	25	5	IAH	SAT	191
	83407	N27610	174	139	-17	-18	IAH	DTW	1076
	83408	N76502	200	173	61	81	IAH	SAN	1303
	83412	N11206	218	195	-12	1	IAH	LAX	1379
	83417	N18622	75	53	-6	-2	IAH	MFE	316
	83421	N17619	86	65	-1	1	IAH	OKC	395
	83423	N37267	252	228	-5	4	IAH	SMF	1609
	83424	N32626	145	119	-3	2	IAH	ABQ	744
	83425	N33262	198	179	-11	4	IAH	SAN	1303
	83428	N35260	214	191	-6	-2	IAH	ONT	1334
	83432	N26210	162	125	7	0	IAH	ORD	925
	83433	N75428	140	120	2	8	IAH	FLL	965
	83434	N17619	107	84	-22	0	IAH	ATL	689
	83438	N53441	333	295	49	0	IAH	SEA	1874
	83440	N12218	188	163	42	47	IAH	PHL	1324
	83442	N26215	53	36	-9	-1	IAH	SAT	191
##	83443	N16617	85	43	10	-3	IAH	DFW	224
##	83445	N33209	142	112	0	-2	IAH	MIA	964
##	83448	N75861	212	183	21	36	IAH	LAX	1379
##	83457	N16701	225	197	-8	-3	IAH	SNA	1347
##	83460	N27421	132	110	-10	0	IAH	PBI	956
	83462	N73276	196	162	125	134	IAH	LGA	1416
	83463	N34222	185	159	134	145	IAH	PHL	1324
##	83464	N12216	158	135	-11	-3	IAH	CLE	1091
##	83467	N24633	139	117	-19	-1	IAH	RDU	1043
##	83470	N35204	138	115	4	1	IAH	AMO	781
##	83474	N26226	136	105	16	18	IAH	MCO	853
##	83476	N13624	195	172	7	-6	IAH	HDN	986
##	83479	N16713	257	235	2	6	IAH	SMF	1609
##	83484	N76065	505	478	-1	-1	IAH	HNL	3904
##	83489	N62631	64	46	-2	3	IAH	MSY	305
##	83490	N76505	57	39	-2	1	IAH	SAT	191
	83499	N19621	71	44	-3	-5	IAH	MSY	305
	83501	N35204	51	28	10	12	IAH	AUS	140
	83509	N76517	225	198	-3	3	IAH	LAX	1379
	83512	N29124	216	197	193	203	IAH	LAX	1379
	83517	N75853	177	141	21	1	IAH	DEN	862
##	83518	N68155	198	182	-9	1	IAH	EWR	1400
##	83520	N12109	191	165	65	86	IAH	EWR	1400
##	83525	N24202	194	169	-6	0	IAH	EWR	1400
	83529	N76055	194	165	-15	1	IAH	EWR	1400
##	83535	N75426	72	44	3	-1	IAH	MSY	305
	83539	N14219	211	190	-9	7	IAH	LAX	1379
	83540	N57864	164	129	225	219	IAH	ORD	925
	83543	N12218	203	184	-18	-1	IAH	ONT	1334
##	83546	N23721	164	148	-1	5	IAH	DCA	1208
##	83551	N35407	247	221	-19	3	IAH	SF0	1635

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	83558	N33262	134	112	-12	-3	IAH	MIA	964
	83563	N57857	182	164	6	30	IAH	LAS	1222
	83565	N73251	170	136	9	1	IAH	DEN	862
	83570	N77431	118	98	-1	5	IAH	TPA	787
	83573	N17719	301	286	34	9	IAH	PDX	1825
	83574	N75410	201	173	3	16	IAH	EWR	1400
	83576	N75428	252	234	6	4	IAH	SJU	2007
	83582	N57111	168	146	-16	-3	IAH	PHX	1009
	83588	N13624	175	160	-3	1	IAH	BWI	1235
	83592	N37273	193	173	-19	-1	IAH	LGA	1416
	83599	N14604	63	28	14	4	IAH	AUS	140
	83601	N16647	171	141	2	0	IAH	CLE	1091
	83604	N13624	149	127	-7	3	IAH	RDU	1043
	83611	N79521	171	142	1	1	IAH	DCA	1208
	83615	N75433	306	291	21	-1	IAH	SEA	1874
	83618	N38443	267	242	18	16	IAH	SF0	1635
	83619	N18223	166	141	20	9	IAH	DEN	862
	83622	N36272	59	40	-9	-2	IAH	SAT	191
	83623	N37298	220	185	2	3	IAH	BOS	1597
	83630	N39423	200	178	-15	-2	IAH	LAS	1222
	83632	N17233	160	139	9	1	IAH	DEN	862
##	83637	N33289	292	275	7	-6	IAH	PDX	1825
	83638	N74856	189	158	32	52	IAH	EWR	1400
##	83642	N37427	170	146	4	15	IAH	PHX	1009
	83644	N73275	64	45	-9	-5	IAH	MSY	305
##	83646	N77525	172	154	0	2	IAH	BWI	1235
##	83650	N33264	199	168	-12	-3	IAH	LGA	1416
##	83662	N24706	172	154	0	-2	IAH	DCA	1208
##	83670	N37255	252	228	4	18	IAH	SF0	1635
##	83676	N16646	57	38	-5	0	IAH	SAT	191
##	83678	N37267	214	186	-4	3	IAH	BOS	1597
##	83684	N36280	202	183	-5	1	IAH	LAS	1222
##	83686	N27213	137	116	26	31	IAH	IND	845
##	83688	N73270	206	185	-7	1	IAH	SAN	1303
##	83689	N38727	186	151	16	2	IAH	IAD	1190
##	83691	N18220	164	154	20	28	IAH	IAD	1190
##	83693	N66051	204	168	-3	-2	IAH	EWR	1400
##	83695	N37281	175	156	1	-2	IAH	IAD	1190
##	83698	N76514	256	230	17	19	IAH	SJC	1609
##	83700	N37274	57	41	-2	10	IAH	MSY	305
##	83701	N35204	174	156	3	5	IAH	BWI	1235
##	83704	N25705	200	170	0	1	IAH	LGA	1416
##	83708	N59630	90	73	2	-1	IAH	TUL	429
##	83709	N37293	154	121	82	87	IAH	ORD	925
##	83711	N54241	189	166	29	-6	IAH	ORD	925
##	83716	N77258	169	148	1	2	IAH	DCA	1208
##	83720	N75436	301	283	21	0	IAH	SEA	1874
##	83726	N73291	61	39	9	14	IAH	SAT	191
##	83729	N76516	221	185	2	5	IAH	BOS	1597
	83734	N77867	202	170	-1	5	IAH	LAS	1222
	83736	N24212	158	138	8	5	IAH	DEN	862
	83737	N19621	150	117	0	-5	IAH	IND	845
	83743	N75432	196	173	-9	0	IAH	EWR	1400
	83744	N24211	66	49	20	31	IAH	MFE	316

	83750	N37419	168	150	-12	1	IAH	PHX	1009
	83757	N76508	220	187	14	-1	IAH	LGA	1416
	83758	N79402	150	131	-9	4	IAH	PIT	1117
	83763	N37408	222	199	24	-1	IAH	SLC	1195
##	83764	N78501	163	145	6	7	IAH	CLE	1091
##	83765	N76522	165	132	204	196	IAH	ORD	925
##	83775	N38727	200	175	23	-6	IAH	DCA	1208
##	83777	N78524	209	180	-21	0	IAH	SNA	1347
	83783	N37408	250	230	-6	4	IAH	SF0	1635
	83788	N24212	212	185	-5	1	IAH	BOS	1597
	83790	N12109	162	140	58	30	IAH	MCO	853
	83796	N18220	200	176	-10	0	IAH	LAS	1222
	83798	N75851	164	136	17	9	IAH	DEN	862
	83800	N26215	185	152	30	1	IAH	DEN	862
	83802	N33294	113	97	-2	9	IAH	TPA	787
	83805	N33289	161	143	40	50	IAH	MSP	1034
	83809	N33262	66	46	-2	-1	IAH	MSY	305
	83812	N19623	183	160	-4	-7	IAH	BWI	1235
	83815	N36247	204	178	6	10	IAH	LGA	1416
##	83819	N37277	146	125	-12	4	IAH	CLE	1091
	83824	N37273	171	146	6	4	IAH	DCA	1208
	83827	N17126	179	158	-1	-3	IAH	EGE	935
	83828	N57863	310	292	115	83	IAH	SEA	1874
	83835	N27239	219	189	19	27	IAH	BOS	1597
	83838	N75854	125	108	116	124	IAH	MCO	853
	83844	N78438	208	182	-3	-1	IAH	LAS	1222
	83848	N27733	145	110	11	-9	IAH	TPA	787
##	83849	N37409	302	283	33	9	IAH	PDX	1825
	83852	N76502	62	44	-6	-2	IAH	MSY	305
	83859	N24706	212	190	21	4	IAH	LGA	1416
	83863	N37420	198	181	-10	4	IAH	SAN	1303
	83864	N37419	212	178	-4	1	IAH	SAN	1303
	83865	N16617	53	28	-5	-2	IAH	AUS	140
	83866	N36207	171	135	10	2	IAH	CLE	1091
	83867	N78511	151	134	249	258	IAH	ORD	925
	83868	N30401	215	199	10	-5	IAH	SLC	1195
	83870	N11641	120	93	-9	-6	IAH	ATL	689
	83873	N87513	61	47	-8	-1	IAH	MSY	305
	83874	N53441	306	285	27	5	IAH	SEA	1874
	83877	N33209	253	232	-7	1	IAH	SF0	1635
	83878	N34282	270	239	-2	-2	IAH	SFO	1635
	83879	N26208	193	158	13	11	IAH	PHL	1324
	83884	N57855	132	112	1	2	IAH	MCO	853
	83886	N14629	174	143	6	-1	IAH	DTW	1076
	83888	N12216	214	192	-13	1	IAH	LAX	1379
	83891	N57862	156	139	-8	-2	IAH	DEN	862
	83896	N74007	182	158	12	35	IAH	EWR	1400
	83901	N76505	176	155	9	10	IAH	PHX	1009
	83907	N78285	127	101	0	-3	IAH	TPA	787
	83908	N37253	187	163	-12	11	IAH	EWR	1400
	83917	N79402	152	123	36	36	IAH	ORD	925
	83918	N14219	137	117	-10	-4	IAH	FLL	965
	83922	N13716	172	149	-2	1	IAH	DCA	1208
##	83925	N31412	261	235	15	14	IAH	SF0	1635

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	83928	N37290	64	42	14	12	IAH	SAT	191
	83930	N57862	135	110	-4	0	IAH	MCO	853
	83932	N37293	172	136	11	7	IAH	DTW	1076
	83934	N12225	226	195	20	19	IAH	LAX	1379
	83935	N33294	210	172	1	-2	IAH	LAS	1222
	83937	N57868	166	135	35	21	IAH	DEN	862
	83946	N76265	51	30	-1	5	IAH	AUS	140
	83948	N76265	260	230	0	-1	IAH	SJC	1609
	83949	N17627	170	139	-10	-5	IAH	PIT	1117
	83953	N19638	73	43	4	-3	IAH	MSY	305
	83955	N11641	140	119	-11	-5	IAH	CLT	913
	83961	N77296	136	117	-15	-4	IAH	FLL	965
	83965	N77525	214	194	-8	1	IAH	SNA	1347
	83967	N16649	165	139	22	0	IAH	RSW	861
	83974	N17245	193	166	8	7	IAH	PHL	1324
	83976	N37267	66	40	18	12	IAH	SAT	191
	83978	N16713	168	138	-2	1	IAH	DTW	1076
	83981	N74856	208	186	-1	17	IAH	LAX	1379
	83983	N77865	212	180	3	3	IAH	LAS	1222
	83984	N78285	173	147	16	13	IAH	DCA	1208
##	83988	N35407	118	95	-9	-1	IAH	TPA	787
##	83990	N16701	223	197	-8	1	IAH	SNA	1347
##	83995	N71411	57	32	10	8	IAH	AUS	140
##	83997	N24633	67	30	15	2	IAH	AUS	140
##	83998	N17619	166	143	-2	-2	IAH	CLE	1091
	84000	N37298	174	128	141	124	IAH	ORD	925
##	84002	N71411	165	147	19	-2	IAH	FLL	965
##	84009	N33203	128	110	-8	-6	IAH	RSW	861
##	84011	N14639	123	102	-3	0	IAH	MCI	643
##	84018	N37420	56	31	0	0	IAH	AUS	140
##	84020	N27421	127	101	-13	-3	IAH	MCO	853
##	84022	N38257	203	181	-8	4	IAH	SAN	1303
##	84023	N37290	143	116	0	0	IAH	MIA	964
##	84030	N87527	49	30	0	7	IAH	AUS	140
##	84031	N24211	213	194	-9	3	IAH	LAX	1379
##	84038	N45440	170	147	-12	2	IAH	PHX	1009
##	84039	N23708	74	55	-5	1	IAH	MFE	316
##	84040	N76288	63	45	2	7	IAH	MSY	305
##	84042	N14731	216	195	-9	2	IAH	SNA	1347
##	84043	N73275	199	174	18	16	IAH	LGA	1416
##	84046	N14604	78	57	-4	-4	IAH	MFE	316
##	84047	N33203	255	236	3	3	IAH	SMF	1609
##	84049	N30401	159	129	159	153	IAH	ORD	925
##	84050	N26208	150	117	10	6	IAH	FLL	965
##	84054	N17245	119	98	5	17	IAH	RSW	861
##	84057	N16649	119	98	-16	-2	IAH	ELP	667
##	84058	N76502	216	179	24	0	IAH	PHL	1324
##	84061	N27213	58	39	-10	-3	IAH	SAT	191
##	84066	N14653	171	139	21	23	IAH	DTW	1076
	84067	N34282	211	187	-4	5	IAH	SAN	1303
	84068	N11206	139	114	0	9	IAH	MIA	964
	84072	N54241	213	194	24	42	IAH	LAX	1379
	84077	N16646	77	52	-4	-2	IAH	MFE	316
	84082	N14645	85	61	1	4	IAH	OKC	395
					_	-	-		

	84084	N37277	255	231	-10	-4	IAH	SMF	1609
	84085	N18622	143	122	-11	-4	IAH	ABQ	744
	84086	N77258	211	186	1	3	IAH	SAN	1303
	84088	N36280	205	187	-12	1	IAH	ONT	1334
	84093	N37409	206	182	51	0	IAH	ORD	925
##	84094	N37413	136	114	-12	-2	IAH	FLL	965
##	84096	N14645	124	92	-5	0	IAH	ATL	689
##	84101	N75426	316	295	37	5	IAH	SEA	1874
	84104	N37290	189	163	7	11	IAH	PHL	1324
	84107	N33266	54	39	12	19	IAH	SAT	191
	84108	N17620	172	137	-8	-4	IAH	TUS	936
##	84111	N17620	94	58	18	-4	IAH	DFW	224
	84113	N33209	133	116	-8	-1	IAH	MIA	964
##	84116	N57870	218	192	5	14	IAH	LAX	1379
##	84125	N15710	225	196	6	11	IAH	SNA	1347
##	84126	N24633	64	44	-12	-7	IAH	MSY	305
##	84129	N45440	131	111	-13	-2	IAH	PBI	956
##	84131	N35260	184	164	-19	2	IAH	LGA	1416
##	84132	N87507	195	170	9	10	IAH	PHL	1324
##	84133	N14704	161	137	15	20	IAH	CLE	1091
##	84137	N32626	150	128	-10	-3	IAH	RDU	1043
##	84140	N27205	137	118	1	-1	IAH	OMA	781
##	84144	N27239	142	112	-2	-6	IAH	MCO	853
##	84146	N59630	190	174	-2	-10	IAH	HDN	986
##	84149	N24702	255	235	-2	4	IAH	SMF	1609
##	84154	N69063	501	481	-7	-3	IAH	HNL	3904
##	84159	N37267	73	46	10	6	IAH	MSY	305
##	84160	N14653	62	36	-1	-3	IAH	SAT	191
##	84170	N17614	60	44	-10	-1	IAH	MSY	305
##	84172	N17620	59	37	6	0	IAH	AUS	140
##	84178	N76515	207	184	-22	2	IAH	LAX	1379
##	84181	N17104	225	192	-3	-2	IAH	LAX	1379
##	84186	N57864	156	120	0	1	IAH	DEN	862
##	84187	N67158	184	164	-21	3	IAH	EWR	1400
##	84189	N34137	182	159	-4	26	IAH	EWR	1400
##	84193	N15712	196	171	3	-1	IAH	EWR	1400
##	84197	N67058	184	165	-18	0	IAH	EWR	1400
##	84202	N15712	70	45	5	3	IAH	MSY	305
##	84206	N37290	200	176	-20	7	IAH	LAX	1379
##	84208	N57862	143	114	-3	12	IAH	ORD	925
##	84211	N73283	188	172	-27	5	IAH	ONT	1334
##	84214	N29717	173	151	3	0	IAH	DCA	1208
##	84219	N38403	265	222	39	38	IAH	SF0	1635
##	84226	N76522	141	115	-4	-2	IAH	MIA	964
##	84231	N75861	183	163	-4	14	IAH	LAS	1222
	84233	N79279	146	123	-15	-4	IAH	DEN	862
##	84236	N75436	119	99	-6	-1	IAH	TPA	787
	84238	N39297	292	277	17	1	IAH	PDX	1825
	84239	N72405	193	166	-16	5	IAH	EWR	1400
	84241	N38417	246	217	20	19	IAH	SJU	2007
	84246	N17139	161	143	-17	-2	IAH	PHX	1009
	84251	N32626	161	138	-14	-1	IAH	BWI	1235
	84255	N24706	187	168	-18	1	IAH	LGA	1416
	84261	N27610	53	32	-4	-4	IAH	AUS	140

	84263	N19621	149	129	-23	-3	IAH	CLE	1091
	84266	N12218	139	119	-5	11	IAH	RDU	1043
	84275	N14250	298	280	30	16	IAH	SEA	1874
	84278	N53442	246	216	24	38	IAH	SF0	1635
	84279	N34282	143	125	-11	1	IAH	DEN	862
	84280	N24202	52	39	-2	7	IAH	SAT	191
	84285	N37437	184	167	0	24	IAH	LAS	1222
	84286	N39423	141	127	-10	1	IAH	DEN	862
	84290	N77510	288	275	12	-2	IAH	PDX	1825
	84291	N73860	185	162	-19	5	IAH	EWR	1400
	84296	N47414	171	143	-9	1	IAH	PHX	1009
	84298	N76269	64	46	-5	-1	IAH	MSY	305
	84300	N79521	171	146	8	11	IAH	BWI	1235
	84311	N16701	147	136	-18	-8	IAH	GUC	886
	84314	N76522	156	143	-14	-5	IAH	DCA	1208
	84321	N37298	238	217	-23	5	IAH	SF0	1635
	84326	N11641	61	40	-5	-4	IAH	SAT	191
	84328	N37273	204	185	-1	11	IAH	BOS	1597
	84334	N33294	201	170	2	9	IAH	LAS	1222
	84336	N19623	119	100	-29	-3	IAH	IND	845
	84338	N16234	189	170	-18	2	IAH	SAN	1303
	84339	N54241	171	149	-4	-3	IAH	IAD	1190
	84341	N39297	161	142	-12	-1	IAH	IAD	1190
	84343	N66057	184	158	-19	-6	IAH	EWR	1400
	84345	N73291	164	142	-7	1	IAH	IAD	1190
	84347	N37293	237	219	69	90	IAH	SJC	1609
	84349	N17614	81	48	9	-3	IAH	MSY	305
	84350	N73256	173	148	2	5	IAH	BWI	1235
	84353	N23721	191	164	-5	0	IAH	LGA	1416
	84357	N17620	92	65	9	4	IAH	TUL	429
	84358	N37419	169	120	12	2	IAH	ORD	925
	84364	N73283	157	145	-10	3	IAH	DCA	1208
	84368	N38417	308	293	44	16	IAH	SEA	1874
	84374	N37277	58	38	-7	1	IAH	SAT	191
	84377	N17229	204	183	-19	1	IAH	BOS	1597
	84382	N75858	188	171	-18	-3	IAH	LAS	1222
	84384	N77525	143	122	-8	-1	IAH	DEN	862
	84385	N14629	151	102	6	0	IAH	IND	845
	84389	N36444	183	163	-6	8	IAH	EWR	1400
	84390	N16713	70	48	5	12	IAH	MFE	316
	84394	N75425	162	139	0	19	IAH	PHX	1009
	84400	N33264	187	163	-16	2	IAH	LGA	1416
	84401	N30401	142	124	9	30	IAH	PIT	1117
	84405	N37253	191	177	-2	-1	IAH	SLC	1195
	84406	N54711	148	130	-19	-8	IAH	CLE	1091
	84407	N37293	150	114	-1	1	IAH	ORD	925
	84417	N16732	156	142	-21	-6	IAH	DCA	1208
	84422	N37409	235	210	6	31	IAH	SFO	1635
	84427	N33286	207	176	19	30	IAH	BOS	1597
	84428	N34137	125	106	3	7	IAH	MCO	853
	84434	N73275	189	162	1	22	IAH	LAS	1222
	84436	N57855	147	125	-4	5	IAH	DEN	862
	84438	N78501	151	127	-6	-1	IAH	DEN	862
##	84440	N78509	120	101	-4	0	IAH	TPA	787

##	84443	N77296	179	154	14	6	IAH	MSP	1034
##	84447	N12218	61	46	32	38	IAH	MSY	305
##	84451	N24212	197	171	0	11	IAH	LGA	1416
##	84454	N77510	146	127	-1	15	IAH	CLE	1091
##	84458	N35260	164	142	-4	1	IAH	DCA	1208
##	84461	N17126	158	144	8	22	IAH	EGE	935
	84462	N57852	303	285	57	32	IAH	SEA	1874
##	84465	N12225	246	221	-11	11	IAH	SF0	1635
	84470	N17233	213	190	-6	8	IAH	BOS	1597
##	84473	N77865	128	106	-2	-2	IAH	MCO	853
##	84478	N35407	190	165	-12	8	IAH	LAS	1222
##	84482	N73406	296	272	31	13	IAH	PDX	1825
	84485	N73291	64	46	1	-2	IAH	MSY	305
	84492	N73270	206	181	35	24	IAH	LGA	1416
	84495	N36207	184	168	-27	1	IAH	SAN	1303
	84496	N75425	188	169	-13	11	IAH	SAN	1303
	84497	N78509	50	31	-2	-1	IAH	AUS	140
	84498	N38727	147	126	-10	6	IAH	CLE	1091
	84499	N76254	152	121	22	30	IAH	ORD	925
	84500	N36207	191	176	-12	-3	IAH	SLC	1195
	84502	N16617	108	86	44	59	IAH	ATL	689
	84503	N76519	206	183	-17	2	IAH	SNA	1347
	84507	N18223	58	46	-2	8	IAH	MSY	305
	84508	N27421	292	278	21	13	IAH	SEA	1874
	84511	N26210	233	212	-26	2	IAH	SFO	1635
	84512	N73406	255	236	-14	-1	IAH	SFO	1635
	84517	N57857	130	107	7	10	IAH	MCO	853
	84519	N24702	153	128	-4	1	IAH	DTW	1076
	84522	N24202	200	178	-27	1	IAH	LAX	1379
	84525	N74856	151	125	-4	2	IAH	DEN	862
	84528	N77019	174	155	-23	8	IAH	EWR	1400
	84532	N30401	158	138	17	36	IAH	PHX	1009
	84539	N33209	127	102	9	1	IAH	TPA	787
	84540	N16648	206	168	2	12	IAH	EWR	1400
	84548 84549	N57857 N76254	139 130	125 115	-2 -7	11 1	IAH IAH	ORD FLL	925 965
	84553	N15710	160	146	-7 -3	7	IAH	DCA	1208
	84556	N31412	249	223	-3 -8	3	IAH	SFO	1635
	84559	N37277	47	34	8	23	IAH	SAT	191
	84561	N74856	128	106	-12	-1	IAH	MCO	853
	84563	N26210	141	123	-30	-3	IAH	DTW	1076
	84565	N78501	234	180	17	8	IAH	LAX	1379
	84566	N34282	191	171	-11	0	IAH	LAS	1222
	84568	N76517	156	131	3	-1	IAH	DEN	862
	84577	N76265	52	31	13	18	IAH	AUS	140
	84580	N73270	257	236	1	-2	IAH	SJC	1609
	84581	N14639	165	132	-9	1	IAH	PIT	1117
	84585	N75410	62	48	16	20	IAH	MSY	305
	84592	N13750	144	117	0	-2	IAH	FLL	965
	84596	N76516	192	174	-27	4	IAH	SNA	1347
	84604	N16617	183	162	7	17	IAH	PHL	1324
	84606	N17245	51	33	3	12	IAH	SAT	191
	84608	N16701	181	141	10	0	IAH	DTW	1076
	84611	N37419	202	179	-20	-1	IAH	LAX	1379

##	84613	N57439	191	170	-18	3	IAH	LAS	1222
##	84617	N38403	130	98	22	18	IAH	TPA	787
##	84619	N15710	195	172	34	71	IAH	SNA	1347
	84625	N59630	50	30	4	8	IAH	AUS	140
##	84626	N17640	148	129	-14	-3	IAH	CLE	1091
##	84628	N54241	150	122	-1	6	IAH	ORD	925
##	84630	N77867	141	114	9	12	IAH	FLL	965
##	84633	N76519	54	28	12	14	IAH	AUS	140
##	84636	N76516	122	104	2	10	IAH	RSW	861
##	84638	N13624	120	98	-3	3	IAH	MCI	643
##	84645	N75436	45	30	-12	-6	IAH	AUS	140
##	84647	N45440	132	110	-5	0	IAH	MCO	853
##	84649	N35271	188	170	-24	3	IAH	SAN	1303
##	84650	N12238	143	112	-4	-4	IAH	MIA	964
##	84657	N14230	180	138	26	16	IAH	DCA	1208
##	84658	N75428	197	173	-18	10	IAH	LAX	1379
##	84665	N39423	163	142	-14	2	IAH	PHX	1009
##	84666	N17619	82	55	2	0	IAH	MFE	316
##	84667	N30401	62	46	3	4	IAH	MSY	305
##	84669	N24729	192	177	-23	12	IAH	SNA	1347
##	84670	N25705	202	175	6	1	IAH	LGA	1416
##	84674	N73251	235	219	-12	8	IAH	SMF	1609
##	84676	N37409	143	114	12	17	IAH	ORD	925
##	84677	N76502	139	117	-2	5	IAH	FLL	965
##	84681	N14237	128	104	-4	-1	IAH	RSW	861
	84684	N11641	120	98	-16	-3	IAH	ELP	667
##	84685	N38443	187	164	-5	0	IAH	PHL	1324
##	84687	N19638	58	39	-11	-9	IAH	SAT	191
##	84692	N16649	166	139	7	14	IAH	DTW	1076
	84693	N35204	188	169	-17	15	IAH	SAN	1303
	84694	N35204	148	114	8	3	IAH	MIA	964
##	84698	N77295	204	179	-26	1	IAH	LAX	1379
	84703	N37253	80	51	-1	-2	IAH	MFE	316
	84707	N17619	78	58	-12	-2	IAH	OKC	395
	84709	N24633	138	108	-14	-2	IAH	ABQ	744
	84711	N37427	192	168	-16	5	IAH	SAN	1303
	84713	N37267	191	174	-32	-6	IAH	ONT	1334
	84716	N37408	52	28	5	8	IAH	AUS	140
	84718	N35407	139	117	-11	0	IAH	ORD	925
	84719	N39416	140	117	-3	3	IAH	FLL	965
	84721	N14629	113	91	-18	-2	IAH	ATL	689
	84726	N73251	299	282	25	5	IAH	SEA	1874
	84729	N27205	181	156	19	31	IAH	PHL	1324
	84732	N37274	57	38	-1	3	IAH	SAT	191
	84733	N16649	160	136	-19	-8	IAH	TUS	936
	84736	N58606	59	40	0	13	IAH	DFW	224
	84738	N75410	139	113	3	4	IAH	MIA	964
	84741	N77865	203	170	18	42	IAH	LAX	1379
	84750	N17730	204	185	-22	4	IAH	SNA	1347
	84751	N14653	65	46	-4	-5	IAH	MSY	305
	84754	N77430	157	115	15	0	IAH	PBI	956
	84756	N73275	181	160	-18	1	IAH	LGA	1416
	84757	N73278	175	161	-10	11	IAH	PHL	1324
	84758	N14704	146	125	-16	4	IAH	CLE	1091
ir m	31,00		1-10	120	10	-	IAII	CLL	1001

	0.47.00	374 4 0 0 4	100	400	0		T 4 **	DD11	4040
	84762	N14604	160	128	6	3	IAH	RDU	1043
	84765	N11206	143	115	26	18	IAH	OMA	781
	84770	N58606	135	110	-7	-6	IAH	MCO	853
	84772	N33286	177	161	-2	-5	IAH	HDN	986
	84775	N33209	252	227	- 5	4	IAH	SMF	1609
	84780	N77066	490	472	5	20	IAH	HNL	3904
	84785	N35204	60	45	-2	2	IAH	MSY	305
	84794	N36444	59	44	-9	-6	IAH	MSY	305
	84796	N73270	59	37	13	2	IAH	AUS	140
	84804	N14118	203	182	-21	-3	IAH	LAX	1379
	84809	N75428	141	121	-5	6	IAH	DEN	862
	84810	N69154	198	177	21	23	IAH	EWR	1400
	84812	N33103	185	169	28	47	IAH	EWR	1400
	84817	N76064	191	168	34	35	IAH	EWR	1400
	84820	N66051	195	179	-6	1	IAH	EWR	1400
	84826	N79279	204	178	-19	4	IAH	LAX	1379
	84828	N57862	163	127	17	7	IAH	ORD	925
	84831	N26210	192	169	-22	6	IAH	ONT	1334
	84837	N71411	243	218	-5	16	IAH	SF0	1635
##	84843	N14250	137	112	0	1	IAH	MIA	964
##	84849	N39415	191	164	4	15	IAH	LAS	1222
##	84851	N78501	151	121	-6	0	IAH	DEN	862
##	84854	N18622	123	98	-1	-2	IAH	TPA	787
##	84856	N27724	282	260	11	0	IAH	PDX	1825
##	84857	N35271	214	171	8	0	IAH	EWR	1400
##	84859	N37437	241	224	13	17	IAH	SJU	2007
##	84861	N34131	160	133	-14	2	IAH	PHX	1009
##	84865	N14604	167	146	-11	-4	IAH	BWI	1235
##	84871	N79521	52	31	5	1	IAH	AUS	140
##	84872	N17730	160	134	-1	-3	IAH	CLE	1091
##	84875	N33289	150	126	17	17	IAH	RDU	1043
##	84877	N76516	178	157	7	-5	IAH	DCA	1208
##	84881	N24224	299	277	19	-1	IAH	SEA	1874
##	84884	N14230	245	226	-15	0	IAH	SF0	1635
##	84885	N14214	160	131	17	8	IAH	DEN	862
##	84888	N17244	60	42	-2	-1	IAH	SAT	191
##	84889	N33264	223	199	4	-3	IAH	BOS	1597
##	84895	N76254	182	165	-20	6	IAH	LAS	1222
##	84896	N37273	144	117	9	12	IAH	DEN	862
##	84900	N12238	280	262	6	0	IAH	PDX	1825
##	84901	N73860	176	157	-3	22	IAH	EWR	1400
##	84906	N37409	158	135	-15	3	IAH	PHX	1009
##	84908	N75428	60	45	-5	-2	IAH	MSY	305
##	84910	N59630	166	140	-13	-6	IAH	BWI	1235
	84914	N13750	207	185	4	0	IAH	LGA	1416
	84919	N38727	144	126	24	37	IAH	GUC	886
	84922	N23708	158	141	-12	-8	IAH	DCA	1208
	84929	N17245	250	225	6	17	IAH	SFO	1635
	84933	N38268	56	38	27	28	IAH	SAT	191
	84934	N37263	209	191	-7	0	IAH	BOS	1597
	84939	N87513	196	172	-5	5	IAH	LAS	1222
	84942	N37273	160	140	29	41	IAH	IAD	1190
	84943	N78060	197	177	13	13	IAH	EWR	1400
	84945	N39297	175	150	4	1	IAH	IAD	1190
ir m	3 10 10	1.00201	170	100	7	1	TAII	THD	1100

##	84948	N79521	238	217	-13	2	IAH	SJC	1609
##	84950	N37293	65	43	3	2	IAH	MSY	305
##	84951	N14237	185	149	19	5	IAH	BWI	1235
##	84953	N39728	199	184	39	40	IAH	LGA	1416
##	84957	N75861	136	115	5	23	IAH	ORD	925
##	84959	N33284	150	132	-6	-6	IAH	ORD	925
##	84963	N24202	164	140	-6	- 5	IAH	DCA	1208
##	84966	N38443	298	285	43	20	IAH	SEA	1874
	84972	N73270	59	38	-4	-2	IAH	SAT	191
	84973	N33284	219	195	-4	-4	IAH	BOS	1597
	84977	N57863	185	163	-17	1	IAH	LAS	1222
##	84979	N37267	130	115	-15	5	IAH	DEN	862
	84980	N58606	137	112	-7	-4	IAH	IND	845
##	84984	N73283	194	177	-1	2	IAH	EWR	1400
##	84985	N12218	80	55	12	4	IAH	MFE	316
##	84988	N38424	148	133	-31	-3	IAH	PHX	1009
##	84995	N24702	213	187	13	0	IAH	LGA	1416
##	84996	N57439	171	138	12	-1	IAH	PIT	1117
##	84999	N37408	189	175	-1	2	IAH	SLC	1195
##	85000	N16649	175	151	7	-5	IAH	CLE	1091
##	85001	N37252	144	128	-6	2	IAH	ORD	925
##	85009	N16701	170	149	2	-2	IAH	DCA	1208
##	85011	N16709	197	178	-26	2	IAH	SNA	1347
##	85015	N35407	236	215	0	19	IAH	SF0	1635
##	85018	N14645	219	191	4	-2	IAH	BOS	1597
##	85019	N33103	133	113	4	0	IAH	MCO	853
##	85024	N39415	198	171	-7	0	IAH	LAS	1222
##	85026	N57857	145	124	-5	1	IAH	DEN	862
##	85028	N77520	151	126	10	11	IAH	DEN	862
##	85030	N75436	128	100	8	-1	IAH	TPA	787
##	85033	N27205	156	137	-5	5	IAH	MSP	1034
##	85035	N11641	177	152	-4	-6	IAH	BWI	1235
##	85038	N13624	216	185	11	-2	IAH	LGA	1416
##	85043	N27213	159	136	4	0	IAH	CLE	1091
##	85047	N24706	162	136	26	28	IAH	DCA	1208
##	85050	N14118	163	146	-8	1	IAH	EGE	935
##	85051	N77867	275	258	68	66	IAH	SEA	1874
##	85056	N73299	215	191	-6	1	IAH	BOS	1597
##	85058	N53442	133	110	8	3	IAH	MCO	853
##	85064	N77871	193	168	-8	4	IAH	LAS	1222
	85068	N25705	129	100	9	0	IAH	TPA	787
	85069	N37408	292	263	29	10	IAH	PDX	1825
##	85074	N76522	62	45	-2	-3	IAH	MSY	305
	85081	N37274	199	179	21	12	IAH	LGA	1416
	85085	N75426	183	167	-24	0	IAH	SAN	1303
##	85086	N38417	187	168	-24	1	IAH	SAN	1303
	85087	N35271	46	30	16	21	IAH	AUS	140
	85088	N73276	163	141	45	38	IAH	CLE	1091
	85089	N53441	156	127	6	5	IAH	ORD	925
	85090	N38727	188	171	-6	1	IAH	SLC	1195
	85092	N19623	115	88	-10	-8	IAH	ATL	689
	85095	N73256	63	44	-2	-2	IAH	MSY	305
	85096	N75433	290	273	15	4	IAH	SEA	1874
##	85099	N76505	241	216	-9	6	IAH	SF0	1635

	85100	N73251	252	226	-17	-1	IAH	SF0	1635
	85104	N74856	125	105	0	3	IAH	MCO	853
	85106	N17614	166	141	2	-2	IAH	DTW	1076
##	85107	N17244	199	180	-27	-3	IAH	LAX	1379
##	85109	N77865	164	120	5	-2	IAH	DEN	862
##	85111	N78004	185	162	125	137	IAH	EWR	1400
##	85118	N24729	111	96	9	17	IAH	TPA	787
##	85119	N38268	196	167	3	9	IAH	EWR	1400
##	85128	N12218	133	111	-7	-2	IAH	FLL	965
##	85134	N72405	243	216	-5	7	IAH	SF0	1635
##	85136	N12218	58	40	1	0	IAH	SAT	191
##	85138	N77865	131	110	-3	0	IAH	MCO	853
##	85140	N14653	175	145	7	-1	IAH	DTW	1076
##	85142	N36272	214	182	-6	1	IAH	LAX	1379
##	85143	N14214	188	164	-11	3	IAH	LAS	1222
##	85151	N37267	49	27	31	34	IAH	AUS	140
##	85153	N37274	238	220	-13	3	IAH	SJC	1609
##	85154	N14639	168	138	-6	-4	IAH	PIT	1117
##	85158	N24212	61	43	-2	-2	IAH	MSY	305
##	85160	N17640	135	118	-2	4	IAH	CLT	913
##	85165	N33292	137	120	6	11	IAH	FLL	965
##	85168	N19623	132	111	-11	-5	IAH	RSW	861
##	85174	N23721	183	166	3	7	IAH	PHL	1324
##	85176	N37437	59	39	21	17	IAH	SAT	191
##	85180	N73860	206	183	-10	5	IAH	LAX	1379
##	85183	N71411	118	96	7	10	IAH	TPA	787
##	85188	N19638	55	31	0	-6	IAH	AUS	140
##	85189	N16617	163	142	1	-3	IAH	CLE	1091
##	85191	N33209	142	118	15	26	IAH	ORD	925
##	85193	N30401	128	114	22	33	IAH	FLL	965
##	85197	N24633	131	108	7	4	IAH	RSW	861
##	85199	N32626	128	92	9	2	IAH	MCI	643
##	85206	N18622	53	29	8	6	IAH	AUS	140
##	85208	N39423	131	110	3	4	IAH	MCO	853
##	85210	N37290	195	173	-14	1	IAH	SAN	1303
##	85211	N17233	141	116	-4	-2	IAH	MIA	964
##	85219	N13750	51	27	1	1	IAH	AUS	140
##	85220	N38443	196	178	-16	8	IAH	LAX	1379
##	85227	N75425	155	135	-10	14	IAH	PHX	1009
##	85228	N24706	79	59	2	-2	IAH	MFE	316
##	85229	N76505	60	44	-6	-3	IAH	MSY	305
##	85232	N16713	246	224	6	10	IAH	SMF	1609
##	85234	N38424	134	118	-1	13	IAH	ORD	925
	85235	N24202	42	28	-9	-1	IAH	AUS	140
	85236	N17233	145	127	7	3	IAH	FLL	965
##	85239	N78511	128	104	2	0	IAH	RSW	861
##	85241	N27610	111	90	-21	-4	IAH	ELP	667
##	85244	N24633	55	37	-5	0	IAH	SAT	191
##	85247	N37281	207	179	-4	4	IAH	SAN	1303
	85248	N87513	136	115	-8	-1	IAH	MIA	964
##	85251	N16217	207	184	-6	13	IAH	LAX	1379
##	85255	N15710	80	55	5	-1	IAH	MFE	316
##	85259	N17614	84	60	-1	-2	IAH	OKC	395
##	85261	N35260	237	223	-16	3	IAH	SMF	1609

	85262	N16617	134	105	-1	10	IAH	ABQ	744
	85264	N78501	190	169	-14	4	IAH	SAN	1303
	85265	N76522	67	45	10	-2	IAH	SAT	191
	85266	N73291	158	140	-9	2	IAH	MTJ	926
	85269	N76265	203	176	-17	-3	IAH	ONT	1334
##	85272	N37409	151	131	0	-1	IAH	ORD	925
##	85273	N75425	140	116	22	23	IAH	FLL	965
##	85277	N11206	283	262	12	8	IAH	SEA	1874
##	85280	N33286	187	159	9	10	IAH	PHL	1324
##	85283	N24729	58	39	3	1	IAH	SAT	191
##	85284	N14629	154	129	-23	-6	IAH	TUS	936
##	85286	N19621	73	50	10	4	IAH	DFW	224
##	85287	N76514	131	115	-8	1	IAH	MIA	964
##	85290	N75851	204	175	-13	5	IAH	LAX	1379
##	85297	N14704	198	180	-18	9	IAH	SNA	1347
##	85298	N58606	62	42	-4	-2	IAH	MSY	305
##	85301	N39418	144	117	5	-2	IAH	PBI	956
##	85303	N76288	201	173	24	14	IAH	PHL	1324
##	85306	N24212	149	130	2	1	IAH	RDU	1043
##	85309	N16234	124	103	-10	-1	IAH	OMA	781
##	85314	N16701	122	108	-15	-4	IAH	MCO	853
##	85316	N27213	165	150	-9	0	IAH	HDN	986
	85319	N73251	242	225	-4	10	IAH	SMF	1609
	85323	N67058	469	452	76	112	IAH	HNL	3904
	85328	N37252	61	44	11	19	IAH	MSY	305
	85329	N11206	61	42	-1	-2	IAH	SAT	191
	85339	N32626	62	44	-10	-3	IAH	MSY	305
	85341	N33292	56	35	3	0	IAH	AUS	140
	85349	N27205	214	182	-8	9	IAH	LAX	1379
	85352	N14115	216	181	-2	3	IAH	LAX	1379
	85357	N57439	146	124	-2	9	IAH	DEN	862
	85358	N58101	239	217	33	2	IAH	EWR	1400
	85360	N14121	197	173	23	38	IAH	EWR	1400
	85366	N37253	213	192	11	-2	IAH	EWR	1400
	85369	N76269	210	186	2	2	IAH	EWR	1400
	85378	N78501	211	182	-8	8	IAH	LAX	1379
	85380	N57852	155	131	12	15	IAH	ORD	925
	85383	N14250	192	172	-14	14	IAH	ONT	1334
	85386	N13718	164	150	-6	0	IAH	DCA	1208
	85391	N31412	242	218	-25	2	IAH	SFO	1635
	85398	N35271	135	116	- 5	3	IAH	MIA	964
	85404	N75861	194	171	-12	0	IAH	LAS	1222
	85406	N24729	158	125	-1	3	IAH	DEN	862
	85411	N71411	120	102	5	9	IAH	TPA	787
	85414	N17719	280	266	48	44	IAH	PDX	1825
	85415	N37419	207	178	5	12	IAH	EWR	1400
	85417	N53442	255	230	22	17	IAH	SJU	2007
	85423	N13113	165	146	6	22	IAH	PHX	1009
	85429	N14604	179	158	-2	-2	IAH	BWI	1235
	85433	N36272	199	180	-14	-2	IAH	LGA	1416
	85440	N36272 N16647	59	34	24	18	IAH	AUS	1410
	85442	N17620	161	141	-9	-1	IAH	CLE	1091
	85445	N73283	135	122	-9 -23	1	IAH	RDU	1043
##	85452	N79521	179	155	1	-7	IAH	DCA	1208

	85456	N18243	285	269	4	3	IAH	SEA	1874
	85459	N75436	245	218	-14	6	IAH	SF0	1635
	85460	N24212	145	121	-8	2	IAH	DEN	862
	85463	N35271	58	41	-9	-1	IAH	SAT	191
	85464	N37263	226	198	7	2	IAH	BOS	1597
	85471	N77431	188	170	-25	0	IAH	LAS	1222
	85473	N37437	142	120	-3	7	IAH	DEN	862
	85478	N27239	293	259	38	24	IAH	PDX	1825
	85479	N57852	174	157	112	147	IAH	EWR	1400
	85484	N39416	158	142	-14	9	IAH	PHX	1009
	85486	N73276	59	43	-7	2	IAH	MSY	305
	85488	N76516	166	150	-8	0	IAH	BWI	1235
	85492	N37267	210	184	0	-2	IAH	LGA	1416
	85504	N23721	173	150	2	-1	IAH	DCA	1208
	85512	N33284	233	217	-28	5	IAH	SF0	1635
	85518	N62631	72	42	4	-6	IAH	SAT	191
	85520	N33262	221	190	5	5	IAH	BOS	1597
	85526	N24224	187	168	-13	11	IAH	LAS	1222
	85528	N16617	138	112	-12	-8	IAH	IND	845
	85530	N17229	195	178	-19	0	IAH	SAN	1303
	85531	N24212	184	159	7	- 5	IAH	IAD	1190
	85533	N12218	174	149	0	-2	IAH	IAD	1190
	85535	N76054	209	177	7	3	IAH	EWR	1400
	85537	N33286	162	135	40	50	IAH	IAD	1190
	85540	N77520	235	214	-18	5	IAH	SJC	1609
	85542	N37263	66	45	-2	1	IAH	MSY	305
	85543	N76502	163	145	-5	8	IAH	BWI	1235
	85546	N29717	199	175	1	3	IAH	LGA	1416
	85550	N16648	96	64	14	5	IAH	TUL	429
	85551	N57862	151	128	-3	5	IAH	ORD	925
	85553	N16701	163	137	3	-6	IAH	ORD	925
	85558	N14250	170	155	3	3	IAH	DCA	1208
	85562	N75436	274	259	3	9	IAH	SEA	1874
	85568	N35260	70	42	10	6	IAH	SAT	191
	85571	N76529	221	194	2	5	IAH	BOS	1597
	85576	N78866	192	169	-14	2	IAH	LAS	1222
	85578	N38443	143	123	-5	7	IAH	DEN	862
	85579 85585	N12238	130	110	-6	9	IAH	IND	845
		N77430	196 81	171 58	-8 5	1	IAH IAH	EWR	1400
	85586 85592	N16234 N75435	171	141	-7	1	IAH	MFE PHX	316 1009
	85599	N75435 N37293	198	179	-7 -7	0	IAH	LGA	1416
	85600	N37408	159	143	-7 -1	3	IAH	PIT	1117
	85605	N38403	183	170	-3	11	IAH	SLC	1117
	85606	N17619	182	152	-3 14	-4	IAH	CLE	1091
	85607	N78511	155	133	0	2	IAH	ORD	925
	85617	N15712	155	142	-18	-2	IAH	DCA	1208
	85624	N35407	237	214	-10 -10	13	IAH	SFO	1635
	85629	N36272	210	189	-10 -8	0	IAH	BOS	1597
	85631	N36272 N14121	140	112	14	8	IAH	MCO	853
	85637	N14121 N12218	183	158	96	123	IAH	LAS	1222
	85639	N74856	141	124	-12	3	IAH	DEN	862
	85641	N36207	141	124	-12 -5	4	IAH	DEN	862
	85643	N14237	119	98	-5 9	14	IAH	TPA	787
##	00040	1117201	119	90	9	14	THII	TLW	101

	85646	N33292	162	146	12	21	IAH	MSP	1034
	85650	N76265	70	54	16	13	IAH	MSY	305
	85653	N27724	176	159	-1	-2	IAH	BWI	1235
	85656	N76522	204	180	-5	-1	IAH	LGA	1416
	85660	N78506	141	128	-21	0	IAH	CLE	1091
	85665	N23708	154	137	-6	9	IAH	DCA	1208
	85668	N34131	161	140	-18	-2	IAH	EGE	935
	85669	N57855	279	259	5	4	IAH	SEA	1874
	85672	N38443	236	214	-28	4	IAH	SF0	1635
	85677	N12216	223	192	-4	0	IAH	BOS	1597
	85680	N75435	124	104	-1	8	IAH	MCO	853
	85686	N72405	191	168	-18	1	IAH	LAS	1222
	85690	N16713	124	100	0	1	IAH	TPA	787
	85691	N38403	279	255	3	2	IAH	PDX	1825
	85694	N24706	62	43	-8	-4	IAH	MSY	305
	85701	N24633	209	180	16	2	IAH	LGA	1416
	85705	N33209	187	172	-21	4	IAH	SAN	1303
	85706	N75425	193	175	-26	-2	IAH	SAN	1303
	85707	N14228	56	33	-5	-5	IAH	AUS	140
	85708	N87513	150	133	-13	0	IAH	CLE	1091
	85709	N87527	144	127	-11	5	IAH	ORD	925
	85710	N24702	182	168	-22	-4	IAH	SLC	1195
	85712	N17640	154	90	26	- 5	IAH	ATL	689
	85713	N87512	215	196	-4	11	IAH	SNA	1347
	85717	N26215	62	45	-3	3	IAH	MSY	305
	85718	N73860	271	253	3	16	IAH	SEA	1874
	85721	N37290	239	218	-16	6	IAH	SF0	1635
	85722	N24224	257	227	-7	6	IAH	SF0	1635
	85723	N14230	196	173	1	-4	IAH	PHL	1324
	85728	N75853	126	105	-10	-3	IAH	MCO	853
	85730	N19623	171	146	2	-2	IAH	DTW	1076
	85733	N73251	206	185	-15	7	IAH	LAX	1379
	85736	N57857	143	122	14	33	IAH	DEN	862
	85742	N78003	195	168	-6	4	IAH	EWR	1400
	85746	N32404	174	137	5	8	IAH	PHX	1009
	85752	N79279	130	107	6	0	IAH	TPA	787
	85753	N34222	203	172	-4	3	IAH	EWR	1400
	85762	N37408	142	121	-4	6	IAH	ORD	925
	85763	N78501	134	111	-7	2	IAH	FLL	965
	85767	N25705	170	156	-10	- 5	IAH	DCA	1208
	85770	N75410	228	214	-26	6	IAH	SFO	1635
	85773	N16648	63	39	1	0	IAH	SAT	191
	85775	N57863	124	105	-6	9	IAH	MCO	853
	85777	N38257	167	146	-1	0	IAH	DTW	1076
	85779	N38257	224	182	18	19	IAH	LAX	1379
	85780	N33292	199	169	-7	1	IAH	LAS	1222
	85782	N27239	143	124	28	37	IAH	DEN	862
	85791	N76265	46	30	-11	0	IAH	AUS	140
	85793	N73270	243	225	-11	5	IAH	SJC	1609
	85794	N16646	157	136	-19	-1	IAH	PIT	1117
	85798	N26215	65	44	8	9	IAH	MSY	305
	85800	N17640	147	122	-2	-3	IAH	CLT	913
	85806	N37287	136	114	-10	1	IAH	FLL	965
##	85810	N76514	204	171	-18	1	IAH	SNA	1347

	85812	N19638	128	105	-18	-3	IAH	RSW	861
	85819	N33289	190	174	6	8	IAH	PHL	1324
	85821	N14219	60	40	14	14	IAH	SAT	191
	85823	N15710	160	136	-3	8	IAH	DTW	1076
	85826	N57864	215	190	-10	1	IAH	LAX	1379
	85828	N33266	188	165	-25	-1	IAH	LAS	1222
	85832	N31412	120	96	-9	-3	IAH	TPA	787
	85834	N39726	201	181	-30	1	IAH	SNA	1347
	85839	N37409	56	33	2	1	IAH	AUS	140
	85841	N14653	56	32	-2	-4	IAH	AUS	140
	85842	N78524	173	153	8	1	IAH	CLE	1091
	85844	N17233	163	137	15	9	IAH	ORD	925
	85846	N32404	134	113	-7	3	IAH	FLL	965
	85850	N76508	171	152	5	4	IAH	DCA	1208
	85854	N76514	122	104	-5	3	IAH	RSW	861
	85856	N78509	110	90	-13	3	IAH	MCI	643
	85863	N17719	54	33	-4	-2	IAH	AUS	140
	85865	N78511	147	107	33	23	IAH	MCO	853
	85867	N73278	192	174	-18	5	IAH	SAN	1303
	85868	N76265	149	117	6	0	IAH	MIA	964
	85876	N35204	69	36	21	8	IAH	AUS	140
	85877	N76505	207	187	-12	6	IAH	LAX	1379
	85884	N36444	166	144	-17	1	IAH	PHX	1009
	85885	N15710	77	58	-4	-1	IAH	MFE	316
	85886	N14219	61	47	-8	-1	IAH	MSY	305
	85888	N17719	211	188	-16	0	IAH	SNA	1347
	85889	N19638	221	182	19	1	IAH	LGA	1416
	85892	N16617	72	53	-13	-7	IAH	MFE	316
	85893	N76516	243	225	-8	4	IAH	SMF	1609
	85895	N35407	151	128	11	13	IAH	ORD	925
	85896	N14230	132	115	-10	4	IAH	FLL	965
	85900	N37281	123	103	-3	5	IAH	RSW	861
	85903	N33262	107	88	115	141	IAH	ELP	667
	85904	N39423	192	174	3	3	IAH	PHL	1324
	85907	N16647	58	37	-8	-1	IAH	SAT	191
	85912	N59630	166	138	-15	-8	IAH	DTW	1076
	85913	N73299	191	169	-23	6	IAH	SAN	1303
	85914	N73299	133	112	-13	2	IAH	MIA	964
	85918	N73259	236	186	1	-4	IAH	LAX	1379
	85923	N25705	68	51	-10	1	IAH	MFE	316
	85928	N14645	77	60	-6	5	IAH	OKC	395
	85930	N39415	243	222	-4	14	IAH	SMF	1609
	85931	N58606	162	112	19	7	IAH	ABQ	744
	85932	N16217	190	169	-16	7	IAH	SAN	1303
	85934	N37252	195	178	-6	21	IAH	ONT	1334
	85939	N72405	153	129	-4	-2	IAH	ORD	925
	85940	N26226	128	115	-9	9	IAH	FLL	965
	85942	N24633	122	94	-8	-1	IAH	ATL	689
	85947	N16217	295	274	12	1	IAH	SEA	1874
	85950	N38417	189	158	-3	1	IAH	PHL	1324
	85953	N37274	63	43	13	11	IAH	SAT	191
	85954	N17620	159	135	1	18	IAH	TUS	936
	85957	N14613	80	48	2	-6	IAH	DFW	224
##	85959	N14219	132	114	-8	0	IAH	MIA	964

	85962	N57857	219	180	-2	6	IAH	LAX	1379
##	85971	N21723	194	177	-30	6	IAH	SNA	1347
##		N16648	67	43	9	11	IAH	MSY	305
##	85975	N75429	142	115	-2	-2	IAH	PBI	956
##	85977	N33264	198	181	-7	0	IAH	LGA	1416
##	85978	N33294	181	170	-15	0	IAH	PHL	1324
##	85979	N23707	159	139	-9	-2	IAH	CLE	1091
##	85983	N38424	153	132	-2	2	IAH	RDU	1043
##	85986	N76254	124	108	5	16	IAH	OMA	781
##	85991	N11206	128	105	-9	1	IAH	MCO	853
##	85993	N14645	178	150	-11	-7	IAH	HDN	986
##	85996	N38727	253	230	-10	-2	IAH	SMF	1609
##	86001	N76065	499	478	-2	4	IAH	HNL	3904
##	86006	N13248	62	46	-7	0	IAH	MSY	305
##	86007	N16217	55	37	-1	4	IAH	SAT	191
##	86017	N16646	69	49	-3	-3	IAH	MSY	305
##	86019	N26226	50	30	-2	1	IAH	AUS	140
##	86027	N76515	202	177	-9	20	IAH	LAX	1379
##	86030	N19117	213	187	-14	-1	IAH	LAX	1379
##	86035	N57852	161	131	15	11	IAH	DEN	862
##	86036	N33132	192	173	-14	2	IAH	EWR	1400
##	86038	N57869	204	176	10	18	IAH	EWR	1400
##	86044	N66056	177	156	115	138	IAH	EWR	1400
##	86048	N69059	206	175	11	15	IAH	EWR	1400
##	86054	N73283	70	48	-2	-4	IAH	MSY	305
##	86058	N54241	221	188	9	15	IAH	LAX	1379
##	86060	N75861	159	135	3	2	IAH	ORD	925
##	86063	N36207	210	180	-3	7	IAH	ONT	1334
##	86066	N16701	176	154	8	2	IAH	DCA	1208
##	86071	N31412	270	239	75	74	IAH	SFO	1635
##	86078	N33264	136	112	3	10	IAH	MIA	964
##	86084	N56859	192	167	-13	1	IAH	LAS	1222
##	86086	N76508	159	128	-3	0	IAH	DEN	862
##	86091	N39418	114	94	-7	3	IAH	TPA	787
##	86094	N87513	284	262	6	-2	IAH	PDX	1825
##	86095	N79402	201	174	-8	5	IAH	EWR	1400
##	86097	N75435	242	223	-6	2	IAH	SJU	2007
	86103	N19141	167	138	-13	1	IAH	PHX	1009
	86109	N58606	176	151	-3	0	IAH	BWI	1235
	86113	N37273	194	167	-13	4	IAH	LGA	1416
	86120	N14628	58	28	10	5	IAH	AUS	140
	86122	N16648	200	148	25	-6	IAH	CLE	1091
	86125	N25705	161	138	17	11	IAH	RDU	1043
	86132	N87527	162	143	-14	-5	IAH	DCA	1208
	86136	N75429	286	262	17	15	IAH	SEA	1874
	86139	N57439	254	228	29	40	IAH	SFO	1635
	86140	N14230	159	136	9	5	IAH	DEN	862
	86143	N73275	52	34	-12	2	IAH	SAT	191
	86144	N76265	218	193	-3	0	IAH	BOS	1597
	86151	N38424	200	170	-3	10	IAH	LAS	1222
	86153	N77431	142	126	-6	4	IAH	DEN	862
	86158	N14228	290	262	12	1	IAH	PDX	1825
	86159	N77865	196	173	-1	12	IAH	EWR	1400
##	86164	N27421	167	137	0	14	IAH	PHX	1009

##	86166	N37267	71	50	3	0	IAH	MSY	305
	86168	N78524	168	147	9	15	IAH	BWI	1235
	86172	N73276	188	168	-22	-2	IAH	LGA	1416
	86183	N13750	170	143	14	1	IAH	GUC	886
	86186	N38727	169	149	-4	-3	IAH	DCA	1208
	86194	N24212	259	231	69	76	IAH	SF0	1635
	86200	N17640	66	40	6	2	IAH	SAT	191
	86202	N36272	211	193	-7	3	IAH	BOS	1597
	86208	N32404	202	173	-10	-1	IAH	LAS	1222
	86210	N73283	144	121	2	0	IAH	IND	845
	86212	N37277	195	172	-23	-4	IAH	SAN	1303
	86213	N23707	175	149	2	-1	IAH	IAD	1190
	86215	N12216	185	155	12	-1	IAH	IAD	1190
	86217	N78509	193	165	-8	4	IAH	EWR	1400
	86219	N27205	183	155	17	6	IAH	IAD	1190
	86222	N76514	251	226	1	8	IAH	SJC	1609
	86224	N33289	64	46	12	17	IAH	MSY	305
	86225	N14214	179	156	10	7	IAH	BWI	1235
	86228	N15710	192	169	-12	-3	IAH	LGA	1416
	86232	N32626	87	67	-5	-5	IAH	TUL	429
	86233	N75853	160	133	2	1	IAH	ORD	925
	86235	N37267	166	134	10	-2	IAH	ORD	925
	86240	N38257	167	149	-4	-1	IAH	DCA	1208
##	86244	N37419	280	264	31	31	IAH	SEA	1874
##	86250	N26226	56	37	-3	7	IAH	SAT	191
##	86253	N87507	222	200	-1	1	IAH	BOS	1597
##	86258	N75851	189	168	-7	12	IAH	LAS	1222
##	86260	N76269	145	129	22	32	IAH	DEN	862
##	86261	N17620	144	117	-9	-8	IAH	IND	845
##	86267	N37422	187	163	-2	16	IAH	EWR	1400
##	86268	N78524	72	52	-6	-1	IAH	MFE	316
##	86274	N78438	166	142	-12	3	IAH	PHX	1009
##	86280	N37263	188	172	-4	13	IAH	LGA	1416
	86281	N38403	175	146	13	1	IAH	PIT	1117
##	86286	N32404	194	172	-3	0	IAH	SLC	1195
	86287	N27724	163	141	-4	-3	IAH	CLE	1091
##	86288	N37293	156	134	0	1	IAH	ORD	925
	86298	N39726	172	154	-9	-10	IAH	DCA	1208
	86305	N57857	280	247	51	31	IAH	SF0	1635
	86310	N17245	236	198	50	32	IAH	BOS	1597
	86312	N34131	122	101	-11	1	IAH	MCO	853
	86318	N77296	197	174	-11	2	IAH	LAS	1222
	86320	N77871	159	127	8	5	IAH	DEN	862
	86322	N33289	157	133	2	1	IAH	DEN	862
	86324	N12238	125	97	7	6	IAH	TPA	787
	86327	N73299	187	158	12	-4	IAH	MSP	1034
	86331	N73270	74	47	4	-3	IAH	MSY	305
	86334	N16648	179	153	-2	-1	IAH	BWI	1235
	86337	N76502	198	177	-12	-2	IAH	LGA	1416
	86341	N37255	159	140	8	11	IAH	CLE	1091
	86346	N13750	176	155	8	1	IAH	DCA	1208
	86349	N34131	150	132	148	175	IAH	EGE	935
	86350	N57863	284	259	14	8	IAH	SEA	1874
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	86358	N76505	231	206	20	16	IAH	BOS	1597
	86361	N57857	125	101	-6	2	IAH	MCO	853
	86367	N72405	197	170	-12	1	IAH	LAS	1222
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	86372	N75425	280	258	3	1	IAH	PDX	1825
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##	86382	N76269	195	177	-1	-1	IAH	LGA	1416
##	86386	N77430	189	172	-15	8	IAH	SAN	1303
##	86387	N78438	183	168	-36	-2	IAH	SAN	1303
##	86388	N17229	58	28	1	-1	IAH	AUS	140
##	86389	N12225	174	145	11	0	IAH	CLE	1091
##	86390	N76526	166	139	8	2	IAH	ORD	925
##	86391	N38257	196	176	-1	3	IAH	SLC	1195
##	86393	N16646	132	93	7	-2	IAH	ATL	689
##	86394	N37287	197	172	-34	-1	IAH	SNA	1347
##	86398	N78501	71	49	39	36	IAH	MSY	305
##	86399	N33203	304	271	22	2	IAH	SEA	1874
##	86402	N14250	292	229	86	55	IAH	SF0	1635
##	86403	N14214	257	227	-13	0	IAH	SF0	1635
##	86404	N16217	192	160	2	1	IAH	PHL	1324
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##	86411	N24633	190	158	21	-2	IAH	DTW	1076
	86414	N26210	206	183	-8	14	IAH	LAX	1379
	86417	N57864	164	131	2	0	IAH	DEN	862
	86423	N78013	189	162	-1	15	IAH	EWR	1400
	86428	N35407	158	139	-13	6	IAH	PHX	1009
	86434	N36207	114	93	-14	-4	IAH	TPA	787
	86435	N17233	209	173	6	7	IAH	EWR	1400
	86444	N38403	143	127	-2	7	IAH	ORD	925
	86445	N33203	134	113	-11	-2	IAH	FLL	965
	86449	N13718	174	157	-6	-5	IAH	DCA	1208
	86452	N75410	253	230	64	71	IAH	SFO	1635
	86455	N17245	58	35	-6	-2	IAH	SAT	191
	86457	N57864	130	106	-6	3	IAH	MCO	853
	86459	N78506	180	150	8	-4	IAH	DTW	1076
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	86462	N26226	193	162	-17	-3	IAH	LAS	1222
	86464	N17244	154	130	31	29	IAH	DEN	862
	86473	N35260	52	28	3	8	IAH	AUS	140
	86475	N35260	244	224	-16	-1	IAH	SJC	1609
	86476	N58606	172	152	-11	-8	IAH	PIT	1117
	86480	N12216	63	45	-2	1	IAH	MSY	305
	86482	N17620	138	115	-12	-4	IAH	CLT	913
	86488	N12221	134	112	-12	1	IAH	FLL	965
	86492	N76529	202	182	-18	3	IAH	SNA	1347
	86494	N19638	122	102	-21	0	IAH	RSW	861
	86501	N33294	191	169	28	29	IAH	PHL	1324
	86503	N75435	55	37	8	13	IAH	SAT	191
	86505	N73270	172	142	6	5	IAH	DTW	1076
	86508	N77865	197	176	-15	14	IAH	LAX	1379
	86510	N73275	197	173	-13 -17	-3	IAH	LAS	1222
	86511	N79279	175	173	8	-3 3	IAH	DCA	1208
	86515	N79279 N30401	175	96	12	11	IAH	TPA	787
##	86517	N13718	223	187	-13	-4	IAH	SNA	1347

	0.0500	NO4 44 O	40	00	^	•	T 4 11	ATTO	4.40
	86522	N31412	49	28	0	6	IAH	AUS	140
	86524	N62631 N13624	58	28	0	-4 3	IAH	AUS	140
	86525		177	150	14		IAH	CLE	1091
	86527 86529	N37253 N35407	173	145	32 -9	16 4	IAH IAH	ORD FLL	925 965
	86536	N76529	131	116 100		-3	IAH	RSW	861
			117		-16				
	86538 86545	N14604 N77430	125 52	98 29	-1 -1	0	IAH IAH	MCI AUS	643 140
	86547	N77430 N36444	127	102	-1 -3	7	IAH	MCO	853
	86549	N76522	204	175	-3 -8	3	IAH	SAN	1303
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	86558	N37287	55	28	1	2	IAH	AUS	140
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	86567	N14604	79	51	-5	-4	IAH	MFE	316
	86568	N24212	65	44	-2	1	IAH	MSY	305
	86570	N24212 N14704	200	181	-22	5	IAH	SNA	1347
	86571	N16647	210	180	-1	-8	IAH	LGA	1416
	86574	N16617	88	67	7	-3	IAH	MFE	316
	86575	N73283	243	223	-6	6	IAH	SMF	1609
	86577	N38443	162	137	12	3	IAH	ORD	925
	86578	N76254	137	118	-9	0	IAH	FLL	965
	86582	N73278	127	103	3	7	IAH	RSW	861
	86585	N24633	119	95	-19	-5	IAH	ELP	667
	86586	N75436	188	169	-2	2	IAH	PHL	1324
	86589	N35204	58	36	-9	-2	IAH	SAT	191
##	86594	N14645	193	153	10	-10	IAH	DTW	1076
##	86595	N73259	202	173	-13	5	IAH	SAN	1303
##	86596	N17233	131	110	-11	6	IAH	MIA	964
##	86600	N78285	213	183	-8	10	IAH	LAX	1379
##	86605	N16234	69	56	-13	-3	IAH	MFE	316
##	86610	N14653	100	69	12	0	IAH	OKC	395
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	86613	N19638	144	119	-11	-5	IAH	ABQ	744
	86614	N39416	204	174	-1	8	IAH	SAN	1303
	86616	N12218	195	176	-29	-2	IAH	ONT	1334
	86621	N72405	156	132	-4	-5	IAH	ORD	925
	86622	N14228	140	110	9	15	IAH	FLL	965
	86624	N37419	115	90	-12	2	IAH	ATL	689
	86629	N26215	300	278	15	-1	IAH	SEA	1874
	86632	N37252	189	165	4	8	IAH	PHL	1324
	86635	N76265	66	35	19	14	IAH	SAT	191
	86636	N16647	143	126	-34	-1	IAH	TUS	936
	86639	N27610	64	44	-11	-3	IAH	DFW	224
	86641	N73251	130	111	-1	9	IAH	MIA	964
	86644	N74856	217	181	5	15	IAH	LAX	1379
	86653	N16709	225	188	-2	3	IAH	SNA	1347
	86654	N62631	71	43	-4	-6	IAH	MSY	305
	86657	N37413	136	111	3	9	IAH	PBI	956
	86659	N33262	198	174	-12 -15	-5 -6	IAH	LGA	1416
	86660 86661	N33292	187 173	173 145	-15 7	-6 0	IAH IAH	PHL CLE	1324 1091
	86665	N17730 N17619	173	130	0	-2	IAH	RDU	1091
	86668	N17619 N34222	142	114	7	-2 0	IAH	OMA	781
##	00000	NO4ZZZ	142	114	1	U	ТАП	ULIA	101

##	86673	N76254	127	101	-1	10	IAH	MCO	853
	86675	N70254 N32626	180	153	-6	-4	IAH	HDN	986
	86678	N37273	237	220	114	138	IAH	SMF	1609
	86683	N77066	501	482	8	12	IAH	HNL	3904
	86688	N14214	67	47	0	2	IAH	MSY	305
	86689	N14214 N37290	56	40	-4	0	IAH	SAT	191
	86698	N27421	59	42	-8	2	IAH	MSY	305
	86700	N27421 N16617	57	30	2	-2	IAH	AUS	140
	86708	N76523	236	191	9	4	IAH	LAX	1379
	86711	N14120	211	183	-13	2	IAH	LAX	1379
	86716	N75861	154	123	16	19	IAH	DEN	862
	86717	N73001	NA	NA	NA	NA	IAH	EWR	1400
	86719	N12114	228	205	54	38	IAH	EWR	1400
	86725	N12114	NA	NA	NA	NA	IAH	EWR	1400
	86729	N68061	193	161	-21	-4	IAH	EWR	1400
	86735	N12238	74	43	5	-1	IAH	MSY	305
	86739	N79279	214	190	0	13	IAH	LAX	1379
	86740	N75858	151	127	2	9	IAH	ORD	925
	86743	N78285	203	183	-17	0	IAH	ONT	1334
	86746	N27724	157	143	5	18	IAH	DCA	1208
	86751	N18243	259	228	25	35	IAH	SFO	1635
	86757	N76515	136	108	-3	4	IAH	MIA	964
	86761	N77295	163	130	7	6	IAH	DEN	862
	86766	N77430	118	94	11	17	IAH	TPA	787
	86769	N13716	282	267	6	0	IAH	PDX	1825
	86770	N35407	NA	NA	NA	8	IAH	EWR	1400
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	86778	N57111	182	155	3	2	IAH	PHX	1009
	86787	NOTITI	NA	NA	NA	NA	IAH	LGA	1416
	86794	N16648	64	33	8	-3	IAH	AUS	140
	86796	N59630	167	138	-6	-4	IAH	CLE	1091
	86799	N16647	148	126	-10	1	IAH	RDU	1043
	86805	N37253	164	139	-9	-2	IAH	DCA	1208
	86811	N14228	156	124	2	1	IAH	DEN	862
	86814		NA	NA	NA	NA	IAH	BOS	1597
	86820	N37290	147	127	-9	-4	IAH	DEN	862
	86825	N14250	292	273	21	8	IAH	PDX	1825
	86826	N77867	189	159	-6	14	IAH	EWR	1400
	86830	N37434	176	149	2	7	IAH	PHX	1009
	86831	N76269	64	45	-7	-3	IAH	MSY	305
	86833	N78509	190	147	28	12	IAH	BWI	1235
##	86837	N73276	180	160	-29	-1	IAH	LGA	1416
##	86849	N33209	157	141	-16	-3	IAH	DCA	1208
##	86855	N24212	254	230	-11	1	IAH	SFO	1635
##	86860	N36207	60	38	-4	-2	IAH	SAT	191
##	86867	N12225	184	165	-11	13	IAH	LAS	1222
##	86869	N12218	144	114	10	8	IAH	IND	845
##	86871	N17229	159	138	-21	-8	IAH	IAD	1190
##	86873	N78524	161	138	-14	-3	IAH	IAD	1190
	86875	N15712	202	181	4	7	IAH	EWR	1400
	86877	N12216	165	142	-11	-4	IAH	IAD	1190
	86880	N87513	248	225	-10	0	IAH	SJC	1609
	86881	N36272	69	45	4	4	IAH	MSY	305
	86882	N14250	171	142	11	16	IAH	BWI	1235

	86885	N17730	188	174	-18	-5	IAH	LGA	1416
	86889	N14645	86	65	-4	-3	IAH	TUL	429
	86890	N56859	150	118	-2	7	IAH	ORD	925
	86892	N73283	148	128	63	69	IAH	ORD	925
	86897	N33203	158	138	-11	1	IAH	DCA	1208
	86901	N53442	285	269	7	2	IAH	SEA	1874
	86907	N76265	68	35	6	4	IAH	SAT	191
	86908		NA	NA	NA	NA	IAH	BOS	1597
	86912	N57855	203	178	-5	0	IAH	LAS	1222
	86914	N16617	155	115	8	-2	IAH	IND	845
	86920		NA	NA	NA	NA	IAH	EWR	1400
	86921	N24706	74	56	25	28	IAH	MFE	316
	86927	N38424	175	151	0	6	IAH	PHX	1009
	86933		NA	NA	NA	NA	IAH	LGA	1416
	86934	N38257	162	137	5	6	IAH	PIT	1117
	86939	N30401	189	175	-11	-3	IAH	SLC	1195
	86940	N14613	173	143	-2	-5	IAH	CLE	1091
	86941	N76515	147	127	-13	-3	IAH	ORD	925
##	86951	N29717	174	150	3	0	IAH	DCA	1208
##	86953	N78511	217	194	-5	8	IAH	SNA	1347
##	86959	N78438	256	228	-4	0	IAH	SF0	1635
##	86964		NA	NA	NA	NA	IAH	BOS	1597
##	86966	N12114	135	104	2	1	IAH	MCO	853
##	86972	N78501	200	172	-2	8	IAH	LAS	1222
##	86974	N74856	132	111	7	31	IAH	DEN	862
##	86976	N14230	154	128	9	11	IAH	DEN	862
##	86978	N73299	113	94	-9	2	IAH	TPA	787
##	86981	N33292	170	148	-3	-2	IAH	MSP	1034
##	86985	N33264	62	46	-3	2	IAH	MSY	305
##	86988	N62631	172	148	-9	-1	IAH	BWI	1235
##	86990	N17229	202	183	-9	-3	IAH	LGA	1416
##	86994	N35271	168	141	14	8	IAH	CLE	1091
##	86997	N13750	163	144	-9	-3	IAH	DCA	1208
##	87000	N16703	168	152	-13	-4	IAH	EGE	935
##	87002	N73860	285	262	17	10	IAH	SEA	1874
##	87005	N33209	242	223	-18	8	IAH	SF0	1635
##	87009		NA	NA	NA	NA	IAH	BOS	1597
##	87015	N75410	200	179	-12	-2	IAH	LAS	1222
##	87019	N13750	118	97	-10	-3	IAH	TPA	787
##	87020	N75426	296	264	90	72	IAH	PDX	1825
##	87029	N37277	188	162	24	31	IAH	LGA	1416
##	87033	N75435	211	184	-7	-1	IAH	SAN	1303
##	87034	N77525	169	144	6	0	IAH	CLE	1091
##	87035	N77510	152	128	-1	7	IAH	ORD	925
##	87036	N38257	192	172	-12	-4	IAH	SLC	1195
##	87038	N14653	123	88	-2	-2	IAH	ATL	689
##	87041	N78501	66	43	3	5	IAH	MSY	305
##	87042	N75436	294	270	11	1	IAH	SEA	1874
##	87045	N73283	241	218	-8	12	IAH	SF0	1635
##	87046	N37287	265	240	-1	4	IAH	SF0	1635
##	87047	N24211	183	157	-9	-1	IAH	PHL	1324
##	87052	N57864	117	98	-14	2	IAH	MCO	853
##	87055	N76508	224	194	-1	3	IAH	LAX	1379
##	87058	N77871	150	125	-9	3	IAH	DEN	862

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	87064	N76010	201	171	3	7	IAH	EWR	1400
	87069	N38403	165	142	-4	8	IAH	PHX	1009
	87076	N76502	201	159	2	11	IAH	EWR	1400
	87084	N32404	143	120	17	26	IAH	ORD	925
	87085	N14228	158	125	19	4	IAH	FLL	965
	87089	N14704	157	138	-23	-5	IAH	DCA	1208
	87092	N79402	250	231	3	13	IAH	SF0	1635
	87095	N73259	61	44	5	6	IAH	SAT	191
	87097	N77865	121	103	-17	1	IAH	MCO	853
	87099	N16217	156	134	-11	1	IAH	DTW	1076
	87101	N27205	204	175	-7	14	IAH	LAX	1379
	87102	N18223	214	180	7	0	IAH	LAS	1222
	87104	N33262	152	122	26	26	IAH	DEN	862
	87113	N33264	50	31	2	9	IAH	AUS	140
	87115	N33262	247	229	-13	-1	IAH	SJC	1609
	87116	N37252	159	137	-13	-1	IAH	PIT	1117
	87120	N35260	72	45	4	-2	IAH	MSY	305
	87122	N14653	129	109	-20	-3	IAH	CLT	913
##	87131	N78524	209	186	-14	0	IAH	SNA	1347
##	87138	N33294	54	35	-7	-1	IAH	SAT	191
##	87140	N76254	171	140	1	1	IAH	DTW	1076
##	87142	N56859	222	197	-1	3	IAH	LAX	1379
##	87144	N24211	196	176	-7	9	IAH	LAS	1222
##	87148	N37408	115	95	-6	5	IAH	TPA	787
##	87149	N39728	218	192	-15	-1	IAH	SNA	1347
##	87153	N16217	48	31	22	29	IAH	AUS	140
##	87155	N17619	55	32	-7	-8	IAH	AUS	140
##	87156	N27610	164	138	-11	-9	IAH	CLE	1091
##	87158	N37287	149	125	14	22	IAH	ORD	925
##	87160	N32404	136	116	-9	-1	IAH	FLL	965
##	87164	N77520	57	29	0	-1	IAH	AUS	140
##	87168	N33294	122	101	-5	3	IAH	RSW	861
##	87170	N13624	121	94	-7	-2	IAH	MCI	643
##	87177	N75436	54	32	-1	1	IAH	AUS	140
##	87179	N30401	123	102	-12	2	IAH	MCO	853
##	87181	N27213	204	183	-7	4	IAH	SAN	1303
##	87182	N79279	137	113	3	9	IAH	MIA	964
##	87188	N78511	159	141	-7	4	IAH	DCA	1208
##	87194	N13750	69	54	1	12	IAH	MFE	316
##	87195	N78438	66	45	-4	-2	IAH	MSY	305
##	87197	N13716	208	193	-11	8	IAH	SNA	1347
##	87198	N58606	190	169	-16	-3	IAH	LGA	1416
##	87201	N26215	242	224	-6	7	IAH	SMF	1609
##	87203	N35271	145	129	-8	0	IAH	ORD	925
##	87204	N37255	135	117	-10	1	IAH	FLL	965
	87208	N77296	123	101	-8	0	IAH	RSW	861
	87212	N17620	139	97	1	-5	IAH	ELP	667
	87213	N57439	181	160	-4	7	IAH	PHL	1324
	87216	N77525	56	36	1	10	IAH	SAT	191
	87221	N17614	166	139	-11	-4	IAH	DTW	1076
	87222	N47414	203	175	-19	-2	IAH	SAN	1303
	87226	N77258	225	193	-4	2	IAH	LAX	1379
	87231	N26226	75	55	- 5	-1	IAH	MFE	316
	87235	N19623	86	62	3	5	IAH	OKC	395
	3. 200		00	V-	J	J		2110	000

	87237	N75425	253	232	-12	-4	IAH	SMF	1609
	87238	N62631	139	116	-11	0	IAH	ABQ	744
##	87239	N27421	195	175	-16	2	IAH	SAN	1303
##	87242	N12225	216	193	-5	1	IAH	ONT	1334
##	87246	N77865	156	124	-1	-2	IAH	ORD	925
##	87247	N77431	138	117	-7	1	IAH	FLL	965
##	87248	N13624	118	91	-13	-2	IAH	ATL	689
##	87252	N37427	290	272	5	-1	IAH	SEA	1874
	87254	N73259	173	152	-20	0	IAH	PHL	1324
	87256	N37273	60	37	4	5	IAH	SAT	191
	87257	N13248	68	41	-5	-1	IAH	DFW	224
	87259	N54241	141	114	6	5	IAH	MIA	964
	87262	N77871	210	182	13	30	IAH	LAX	1379
	87271	N21723	216	196	-8	6	IAH	SNA	1347
	87274	N37253	135	114	-8	-1	IAH	PBI	956
	87276	NO7200	NA	NA	NA	NA	IAH	LGA	1416
	87277	N73278	189	165	7	14	IAH	PHL	1324
	87278	N16709	164	132	-1	1	IAH	CLE	1091
	87282	N24706	140	123	-17	0	IAH	RDU	1043
	87285	N36207	139	111	4	0	IAH	OMA	781
	87290	N79402	128	101	-8	2	IAH	MCO	853
	87292	N16647	180	160	-6	-4	IAH	HDN	986
	87295	N16713	254	229	-9	-2	IAH	SMF	1609
	87300	N67052	539	497	35	1	IAH	HNL	3904
	87305	N37287	68	46	6	7	IAH	MSY	305
	87306	N77295	62	39	3	1	IAH	SAT	191
	87315	N27610	80	47	49	38	IAH	MSY	305
	87317	N13248	53	30	3	3	IAH	AUS	140
	87327	N13113	224	195	51	53	IAH	LAX	1379
	87332	N75858	172	140	23	8	IAH	DEN	862
	87333	N17122	210	164	31	29	IAH	EWR	1400
	87335		NA	NA	NA	NA	IAH	EWR	1400
	87341	N73256	190	159	-13	-3	IAH	EWR	1400
##	87345	N78060	196	168	-14	0	IAH	EWR	1400
##	87351	N57439	76	47	5	-3	IAH	MSY	305
##	87355	N26226	224	195	28	31	IAH	LAX	1379
##	87356	N77865	158	130	213	213	IAH	ORD	925
##	87359	N54241	221	191	41	40	IAH	ONT	1334
##	87362	N17730	156	131	-7	7	IAH	DCA	1208
##	87367	N31412	270	239	7	6	IAH	SFO	1635
##	87373	N37267	134	114	32	41	IAH	MIA	964
##	87377	N37252	171	136	11	2	IAH	DEN	862
##	87382	N75429	132	104	6	-2	IAH	TPA	787
##	87385	N23707	282	266	32	26	IAH	PDX	1825
##	87386	N77006	190	160	-19	5	IAH	EWR	1400
##	87388	N75435	251	226	1	0	IAH	SJU	2007
	87394	N13110	200	155	38	19	IAH	PHX	1009
	87403	N39728	189	159	-22	0	IAH	LGA	1416
	87410	N24633	52	28	-3	-2	IAH	AUS	140
	87412	N14639	160	133	-7	2	IAH	CLE	1091
	87415	N16648	166	128	20	13	IAH	RDU	1043
	87421	N27205	159	134	-12	0	IAH	DCA	1208
	87427	N37253	180	136	28	3	IAH	DEN	862
	87430	N77258	201	167	-22	-2	IAH	BOS	1597
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87436	N24224	153	133	8	7	IAH	DEN	862
87441	N14230	281	266	0	-2	IAH	PDX	1825
87442	N57868	169	144	-32	8	IAH	EWR	1400
87445	N37290	173	146	-2	6	IAH	PHX	1009
87446	N73291	73	46	4	-1	IAH	MSY	305
87448		NA	NA	NA	NA	IAH	BWI	1235
87452	N73270	194	165	-17	-3	IAH	LGA	1416
87461	N13718	149	133	10	18	IAH	GUC	886
87470	N73299	253	228	-6	7	IAH	SFO	1635
87475	N29717	78	38	17	1	IAH	SAT	191
87482	N77258	210	179	-3	-2	IAH	LAS	1222
87484	N12238	119	102	23	46	IAH	IND	845
87486	N27213	159	133	-18	-5	IAH	IAD	1190
87488	N18223	164	139	-12	-4	IAH	IAD	1190
87490	N12218	207	173	8	6	IAH	EWR	1400
87492	N33294	160	136	-12	0	IAH	IAD	1190
87495	N87513	254	231	4	8	IAH	SJC	1609
87496	N33262	77	49	9	1	IAH	MSY	305
87497	N76505	162	140	-13	1	IAH	BWI	1235
87503	N16703	79	63	- 7	1	IAH	TUL	429
87504	N76515	176	128	61	44	IAH	ORD	925
87506	N12225	208	158	77	23	IAH	ORD	925
87511	N76502	165	139	-1	4	IAH	DCA	1208
87515	N27421	300	281	32	12	IAH	SEA	1874
87521	N14250	58	39	-8	0	IAH	SAT	191
87522	N76516	216	181	-6	2	IAH	BOS	1597
87526	N57870	205	173	-3 20	0	IAH	LAS	1222
87528	N27610	124	107	29 7	50	IAH	IND	845
87534 87535	N38424 N12225	186 73	164 53		26 5	IAH IAH	EWR MFE	1400 316
87541		186	151	1	3	IAH	PHX	1009
	N53442	186	151	8 -1	3 18	IAH	LGA	1416
87547 87548	N36272 N35407	144	119	-1 -18	10	IAH	PIT	1117
87553	N75410	202	181	-16 5	0	IAH	SLC	1117
87554	N14639	151	120	-27	-8	IAH	CLE	1091
87555	N14033	NA	NA	NA	NA	IAH	ORD	925
87564	N13716	158	136	-16	-3	IAH	DCA	1208
87571	N75410	265	232	6	9	IAH	SFO	1635
87576	WOIIO	NA	NA	NA	NA	IAH	BOS	1597
87578	N34131	126	100	24	32	IAH	MCO	853
87584	N24211	200	177	-3	7	IAH	LAS	1222
87586	N57855	166	135	24	14	IAH	DEN	862
87588	N24211	156	132	12	12	IAH	DEN	862
87590	N78285	117	94	- 5	2	IAH	TPA	787
87593	N14230	154	135	36	53	IAH	MSP	1034
87597	N37263	77	50	16	6	IAH	MSY	305
87600	N14629	163	142	-24	-7	IAH	BWI	1235
87602	N17719	197	167	1	12	IAH	LGA	1416
87606	N37263	160	133	-3	-1	IAH	CLE	1091
87610	N35271	208	189	40	1	IAH	DCA	1208
87612	N38727	180	162	- 7	-10	IAH	EGE	935
87614	N74856	305	278	40	13	IAH	SEA	1874
87620	N34282	197	171	-29	1	IAH	BOS	1597
87626	N38443	211	174	2	1	IAH	LAS	1222

	07400	71,001,0	101	0.5		_	T 4 ***	mp.4	707
	87630	N12216	124	95	-6	-5	IAH	TPA	787
	87631	N77510	274	245	4	8	IAH	PDX	1825
	87640		NA	NA	NA	NA	IAH	LGA	1416
	87644	N47414	214	183	-2	1	IAH	SAN	1303
	87645	N73278	140	117	-20	3	IAH	CLE	1091
	87646	N76529	155	128	220	225	IAH	ORD	925
	87647	N35204	216	196	14	-2	IAH	SLC	1195
	87649	N17614	117	86	-8	-2	IAH	ATL	689
	87650	N87513	225	196	-6	-1	IAH	SNA	1347
	87653	N27213	74	47	16	10	IAH	MSY	305
##		N75426	294	269	41	31	IAH	SEA	1874
##		N33203	256	232	20	25	IAH	SF0	1635
##		N77296	269	235	4	5	IAH	SF0	1635
##		N14242	171	144	-21	-1	IAH	PHL	1324
##		N57864	125	102	22	30	IAH	MCO	853
		N17229	216	190	21	33	IAH	LAX	1379
##		N56859	167	138	20	15	IAH	DEN	862
	87675	N27015	185	160	-17	3	IAH	EWR	1400
	87680	N32404	165	148	-11	1	IAH	PHX	1009
	87686		NA	NA	NA	NA	IAH	EWR	1400
	87694	N72405	142	123	-1	9	IAH	ORD	925
	87695	N57111	135	115	-12	-4	IAH	FLL	965
	87699	N23708	154	139	-24	-3	IAH	DCA	1208
	87702	N37408	275	240	15	0	IAH	SF0	1635
	87705	N14250	63	38	-2	-3	IAH	SAT	191
	87707	N56859	136	101	3	6	IAH	MCO	853
	87709	N24224	158	131	0	10	IAH	DTW	1076
	87711	N77518	225	183	9	9	IAH	LAX	1379
	87712	N37253	214	185	5	-2	IAH	LAS	1222
	87714	N75851	151	124	-2	-1	IAH	DEN	862
	87722	N76265	51	29	-5	1	IAH	AUS	140
	87724	N37267	263	235	9	5	IAH	SJC	1609
	87725	N17620	173	137	-7	-5	IAH	PIT	1117
	87729	N17619	66	43	-1	-1	IAH	MSY	305
	87731	N17614	126	106	-18	2	IAH	CLT	913
##		N78509	208	191	2	17	IAH	SNA	1347
	87746	N77295	64	40	10	6	IAH	SAT	191
	87748	N39728	154	131	-16	1	IAH	DTW	1076
	87750	N57868	227	183	-2	-3	IAH	LAX	1379
	87755	N31412	117	99	-9	0	IAH	TPA	787
	87756	N16701	231	198	7	8	IAH	SNA	1347
	87762	N35407	53	29	20	22	IAH	AUS	140
	87764	N13624	56	30	0	-2	IAH	AUS	140
	87765	N32626	141	120	-35	-10	IAH	CLE	1091
	87767	N14214	156	124	135	136	IAH	ORD	925
	87769	N78438	151	114	10	3	IAH	FLL	965
	87773	N76519	231	199	14	14	IAH	LAX	1379
	87776	N77525	158	136	5	17	IAH	DCA	1208
	87778	N78511	142	102	17	5	IAH	RSW	861
	87782	N16647	140	96	11	-3	IAH	MCI	643
	87789	N37290	56	31	-1	-1	IAH	AUS	140
	87791	N77431	121	100	-15	1	IAH	MCO	853
	87793	N73251	198	182	15	32	IAH	SAN	1303
##	87794	N75426	166	133	26	3	IAH	AIM	964

##	87800	N37255	63	33	14	7	IAH	AUS	140
	87806	N37233 N14214	76	56	-5	-1	IAH	MFE	316
	87807	N14214 N14628	74	49	5	-1	IAH	MSY	305
	87809	N14028 N13750	227	203	-3	-3	IAH	SNA	1347
	87810	N13730	NA	NA	NA	NA	IAH	LGA	1416
	87814	N14228	247	225	8	16	IAH	SMF	1609
	87816	N30401	165	131	264	252	IAH	ORD	925
	87817	N14242	140	114	3	9	IAH	FLL	965
	87821	N73291	126	105	-5	0	IAH	RSW	861
	87825	N73231 N23708	130	103	1	4	IAH	ELP	667
	87826	N27705	186	148	16	22	IAH	PHL	1324
	87829	N27200 N29717	81	41	17	1	IAH	SAT	191
	87834	N14645	173	134	-3	-3	IAH	DTW	1076
	87835	N37298	209	181	9	20	IAH	SAN	1303
	87839	N14237	234	190	7	4	IAH	LAX	1379
	87844	N16617	95	59	10	-6	IAH	MFE	316
	87848	N19638	85	65	-4	-1	IAH	OKC	395
	87850	N35271	270	245	2	-7	IAH	SMF	1609
	87851	N58606	148	120	-4	-2	IAH	ABQ	744
	87852	N37277	202	185	-7	4	IAH	SAN	1303
	87855	N73276	216	195	-5	-3	IAH	ONT	1334
	87860	N74856	154	128	41	42	IAH	ORD	925
	87861	N39423	130	112	-18	-2	IAH	FLL	965
	87862	N17620	131	97	1	-1	IAH	ATL	689
	87866	N37281	297	277	17	4	IAH	SEA	1874
##	87868	N77525	100	73	7	0	IAH	BHM	562
##	87870		NA	NA	NA	NA	IAH	PHL	1324
##	87872	N37273	67	45	12	6	IAH	SAT	191
##	87873	N14629	66	44	-10	-4	IAH	DFW	224
##	87875	N33203	139	110	-1	0	IAH	MIA	964
##	87878	N75861	213	181	24	38	IAH	LAX	1379
##	87887	N15710	219	191	-6	5	IAH	SNA	1347
##	87890	N38417	132	109	-9	1	IAH	PBI	956
##	87892	N35260	186	169	-21	-2	IAH	LGA	1416
##	87893	N35204	179	153	-7	10	IAH	PHL	1324
##	87894	N33286	153	125	-11	2	IAH	CLE	1091
##	87897	N14628	158	133	1	0	IAH	RDU	1043
	87900	N19623	134	113	-2	-1	IAH	OMA	781
	87904	N17229	137	104	-5	-4	IAH	MCO	853
	87906	N19638	181	156	-8	-7	IAH	HDN	986
	87909	N73270	260	232	3	4	IAH	SMF	1609
	87913	N27724	98	73	-3	-2	IAH	BHM	562
	87915	N76064	513	486	23	15	IAH	HNL	3904
	87920	N38424	59	43	-3	7	IAH	MSY	305
	87921	N24211	60	41	4	4	IAH	SAT	191
	87930	N16648	68	39	16	17	IAH	MSY	305
	87932	N76515	47	32	-7	-1	IAH	AUS	140
	87940	N77520	236	195	36	31	IAH	LAX	1379
	87943	N17104	228	191	21	19	IAH	LAX	1379
	87948	N77871	172	137	17	2	IAH	DEN	862
	87949	N67157	213	184	10	5	IAH	EWR	1400
	87951	N73259	191	161	16	37	IAH	EWR	1400
	87957	N11206	188	168	-14	-2	IAH	EWR	1400
##	87961	N76055	209	182	0	1	IAH	EWR	1400

	87967	N39423	74	45	5	-1	IAH	MSY	305
	87971	N37253	233	196	21	15	IAH	LAX	1379
	87972	N57868	139	111	19	38	IAH	ORD	925
	87975	N73291	222	197	8	6	IAH	ONT	1334
	87978	N14704	162	141	-9	-1	IAH	DCA	1208
	87983	N73406	276	255	7	0	IAH	SF0	1635
	87990	N76269	129	112	35	49	IAH	MIA	964
	87995	N75854	219	179	12	-1	IAH	LAS	1222
		N26215	163	135	5	4	IAH	DEN	862
	88002	N37409	130	107	12	6	IAH	TPA	787
	88005	N15712	NA	NA	NA	9	IAH	PDX	1825
	88006	N38257	204	182	-8	2	IAH	EWR	1400
	88008	N75426	257	235	102	95	IAH	SJU	2007
	88014	N48127	187	159	10	4	IAH	PHX	1009
	88020	N27610	174	150	-5	0	IAH	BWI	1235
	88024	N24715	209	182	16	18	IAH	LGA	1416
##	88032	N19638	60	32	6	-1	IAH	AUS	140
	88034	N59630	151	125	-13	5	IAH	CLE	1091
##	88037		NA	NA	NA	NA	IAH	RDU	1043
	88044	N76529	159	137	7	19	IAH	DCA	1208
##	88048	N18220	296	277	14	2	IAH	SEA	1874
##	88051	N37434	271	248	24	18	IAH	SF0	1635
##	88052	N37252	178	138	34	11	IAH	DEN	862
##	88055	N33264	67	42	7	6	IAH	SAT	191
##	88056	N32626	210	186	-10	1	IAH	BOS	1597
##	88064	N39418	237	209	26	2	IAH	LAS	1222
##	88066	N76254	145	129	-4	3	IAH	DEN	862
##	88071	N38417	291	269	24	12	IAH	PDX	1825
##	88072	N77867	193	157	20	36	IAH	EWR	1400
##	88076	N45440	176	152	-3	2	IAH	PHX	1009
##	88078	N37273	63	45	-5	0	IAH	MSY	305
##	88080	N87513	165	147	-10	-1	IAH	BWI	1235
##	88084	N76265	195	165	-5	8	IAH	LGA	1416
##	88096	N39726	172	150	0	-2	IAH	DCA	1208
##	88104	N14228	289	255	40	17	IAH	SF0	1635
##	88110	N17619	63	42	-1	-2	IAH	SAT	191
##	88112	N33262	223	192	1	-1	IAH	BOS	1597
##	88118	N24212	211	187	9	6	IAH	LAS	1222
##	88120	N34282	140	99	0	2	IAH	IND	845
##	88122	N37274	219	200	0	-5	IAH	SAN	1303
##	88123	N23707	175	144	3	0	IAH	IAD	1190
##	88125	N33203	154	136	10	28	IAH	IAD	1190
##	88127	N66056	206	175	-2	-3	IAH	EWR	1400
##	88129	N76502	156	138	-17	-1	IAH	IAD	1190
##	88132	N76516	259	234	19	18	IAH	SJC	1609
##	88134	N36207	59	42	-7	3	IAH	MSY	305
##	88135	N78509	174	142	0	2	IAH	BWI	1235
##	88138	N17730	200	178	-4	-3	IAH	LGA	1416
##	88142	N27610	86	66	2	3	IAH	TUL	429
##	88143	N76515	153	114	0	6	IAH	ORD	925
##	88145	N12216	140	116	-19	-5	IAH	ORD	925
##	88150	N14250	168	146	0	2	IAH	DCA	1208
##	88154	N53442	284	265	27	23	IAH	SEA	1874
##	88160	N13248	70	41	2	-2	IAH	SAT	191

##	88163	N37293	214	187	-7	3	IAH	BOS	1597
##	88168	N73860	225	192	20	3	IAH	LAS	1222
	88170	N38443	172	129	26	9	IAH	DEN	862
##	88171	N16648	149	103	2	-2	IAH	IND	845
##	88177	N37437	203	183	-1	1	IAH	EWR	1400
##	88178	N34282	74	54	-1	2	IAH	MFE	316
##	88184	N75432	187	157	9	3	IAH	PHX	1009
##	88191	N73270	215	177	9	-1	IAH	LGA	1416
##	88192	N72405	159	135	1	5	IAH	PIT	1117
##	88197	N35407	208	187	18	7	IAH	SLC	1195
##	88198	N19621	168	140	4	0	IAH	CLE	1091
##	88199	N14214	154	116	-4	-1	IAH	ORD	925
##	88209	N27724	163	139	-6	2	IAH	DCA	1208
##	88211	N76517	215	200	3	18	IAH	SNA	1347
##	88217	N75435	267	242	22	15	IAH	SF0	1635
##	88222	N33209	214	186	9	13	IAH	BOS	1597
##	88224	N14120	143	115	14	5	IAH	MCO	853
##	88230	N14242	210	185	2	2	IAH	LAS	1222
##	88232	N74856	165	132	16	7	IAH	DEN	862
##	88234	N36207	166	127	28	18	IAH	DEN	862
##	88236	N73283	116	94	-7	1	IAH	TPA	787
##	88239	N24224	172	134	19	18	IAH	MSP	1034
##	88243	N35260	69	48	2	0	IAH	MSY	305
##	88246	N14604	171	150	-10	-1	IAH	BWI	1235
##	88249	N33264	193	172	-5	10	IAH	LGA	1416
##	88253	N35260	150	125	-5	7	IAH	CLE	1091
##	88258	N73276	166	136	2	5	IAH	DCA	1208
##	88261	N34137	173	151	-5	-1	IAH	EGE	935
##	88262	N78866	291	272	20	7	IAH	SEA	1874
##	88269	N17619	206	189	76	97	IAH	BOS	1597
##	88272	N57857	141	102	9	1	IAH	MCO	853
##	88278	N31412	229	194	19	0	IAH	LAS	1222
##	88282	N15710	128	105	6	3	IAH	TPA	787
##	88283	N35407	308	284	41	11	IAH	PDX	1825
##	88286	N16217	62	41	2	6	IAH	MSY	305
##	88293	N13750	180	158	-3	12	IAH	LGA	1416
##	88297	N35204	209	193	8	11	IAH	SAN	1303
##	88298	N75435	210	190	-7	0	IAH	SAN	1303
##	88299	N38257	58	32	18	16	IAH	AUS	140
##	88300	N87512	165	130	10	8	IAH	CLE	1091
##	88301	N79521	147	120	-7	6	IAH	ORD	925
##	88302	N33286	209	188	8	-1	IAH	SLC	1195
##	88304		NA	NA	NA	NA	IAH	ATL	689
##	88307	N14242	60	44	9	17	IAH	MSY	305
##	88308	N47414	292	266	29	21	IAH	SEA	1874
##	88311	N33203	254	230	17	24	IAH	SF0	1635
##	88312	N78285	285	256	20	5	IAH	SF0	1635
##	88313	N24211	187	159	-2	2	IAH	PHL	1324
##	88318	N57864	124	105	33	42	IAH	MCO	853
##	88320	N17620	164	139	-5	-2	IAH	\mathtt{DTW}	1076
##	88322	N73256	231	206	8	5	IAH	LAX	1379
##	88325	N56859	169	134	39	32	IAH	DEN	862
##	88331	N78004	180	150	-10	15	IAH	EWR	1400
##	88336	N27733	180	159	3	0	IAH	PHX	1009

	88342	N73299	119	91	-8	-3	IAH	TPA	787
	88343	N73251	183	157	-9	18	IAH	EWR	1400
##		N75410	128	110	28	52	IAH	ORD	925
##		N37253	131	113	-15	-3	IAH	FLL	965
##		N16709	153	136	-9	13	IAH	DCA	1208
##		N37408	276	244	19	3	IAH	SFO	1635
##		N33209	62	42	-4	-4	IAH	SAT	191
##		N56859	118	101	2	23	IAH	MCO	853
##		N12216	153	129	-6	9	IAH	DTW	1076
##		N17233	226	196	21	20	IAH	LAX	1379
##		N37427	223	198	13	-3	IAH	LAS	1222
##		N38443	173	135	37	16	IAH	DEN	862
##		N77865	185	154	6	-2	IAH	PHX	1009
##		N17229	61	33	4	0	IAH	AUS	140
##		N73276	263	248	1	-3	IAH	SJC	1609
##		N16647	171	133	5	9	IAH	PIT	1117
##		N14645	60	42	-9	-3	IAH	MSY	305
##			NA	NA	NA	NA	IAH	CLT	913
	88397	N36280	143	112	4	8	IAH	FLL	965
	88401	N77510	218	200	-7	-2	IAH	SNA	1347
	88403	N17614	129	107	-7	7	IAH	RSW	861
	88410	N24224	194	159	22	20	IAH	PHL	1324
	88412	N33262	68	46	10	2	IAH	SAT	191
	88414	N39728	141	122	50	80	IAH	DTW	1076
	88417	N57869	236	209	16	6	IAH	LAX	1379
	88419	N75436	210	189	3	5	IAH	LAS	1222
	88420	N76265	168	141	-4	-2	IAH	DCA	1208
	88424	N73406	107	91	-18	1	IAH	TPA	787
	88426	N16709	228	200	-3	1	IAH	SNA	1347
	88431	N12216	48	28	8	15	IAH	AUS	140
	88433	N24633	62	31	4	-4	IAH	AUS	140
	88434	N62631	160	136	-9	-3	IAH	CLE	1091
	88436	N78285	155	117	32	34	IAH	ORD	925
##		N76254	132	114	-3	9	IAH	FLL	965
	88445	N77510	128	106	0	2	IAH	RSW	861
##	88447	N16703	106	90	-19	1	IAH	MCI	643
	88455	N35204	60	34	16	12	IAH	AUS	140
	88457	N57439	140	112	24	21	IAH	MCO	853
	88459	N34222	217	188	8	6	IAH	SAN	1303
	88460	N14228	129	112	-14	0	IAH	MIA	964
	88467	N76517	59	33	13	10	IAH	AUS	140
	88468	N26210	239	202	22	8	IAH	LAX	1379
	88475	N76519	173	153	-14	-3	IAH	PHX	1009
	88476	N38727	71	52	-8	1	IAH	MFE	316
	88477	N29717	65	50	-3	0	IAH	MSY	305
	88479	N27733	236	209	6	-3	IAH	SNA	1347
	88480	N13718	184	161	-9	4	IAH	LGA	1416
	88483	N17619	82	55	1	-3	IAH	MFE	316
	88484	N26210	249	224	10	16	IAH	SMF	1609
	88486	N79402	146	119	1	8	IAH	ORD	925
	88487	N24202	129	112	-18	-1	IAH	FLL	965
	88491	N39297	120	100	-14	-3	IAH	RSW	861
	88494	N24633	128	105	-7	-2	IAH	ELP	667
##	88495	N26208	180	156	-1	11	IAH	PHL	1324

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	88498	N87512	56	41	-9	0	IAH	SAT	191
	88503	N14653	162	131	-15	-4	IAH	DTW	1076
	88504	N39726	210	188	9	19	IAH	SAN	1303
	88505	N73251	139	112	-6	3	IAH	MIA	964
	88509	N14231	227	202	15	19	IAH	LAX	1379
	88514	N32626	74	55	11	16	IAH	MFE	316
	88519	N14628	82	64	-4	2	IAH	OKC	395
	88521	N17229	270	243	8	-1	IAH	SMF	1609
	88522	N19623	148	117	162	164	IAH	ABQ	744
	88523	N24211	210	195	-6	-3	IAH	SAN	1303
	88525	N78511	216	195	-6	-4	IAH	ONT	1334
	88530	N31412	153	116	2	4	IAH	ORD	925
	88531	N37290	134	113	-13	-1	IAH	FLL	965
	88533		NA	NA	NA	NA	IAH	ATL	689
##	88538	N33286	297	266	12	-1	IAH	SEA	1874
##	88541	N54241	198	155	23	18	IAH	PHL	1324
##	88544	N77296	67	42	14	8	IAH	SAT	191
##	88545	N59630	189	141	32	19	IAH	TUS	936
##	88548	N17627	81	41	7	-2	IAH	DFW	224
##	88550	N12218	NA	NA	NA	6	IAH	MIA	964
##	88553	N75858	227	196	21	21	IAH	LAX	1379
##	88562	N17719	220	200	-12	-2	IAH	SNA	1347
##	88563	N24633	64	42	-4	1	IAH	MSY	305
##	88566	N37427	129	111	-11	2	IAH	PBI	956
##	88568	N35271	184	160	-21	0	IAH	LGA	1416
##	88569	N27205	173	156	-23	0	IAH	PHL	1324
##	88570	N24702	154	131	15	27	IAH	CLE	1091
##	88574	N19623	155	123	-4	-2	IAH	RDU	1043
##	88577	N58606	136	108	38	37	IAH	OMA	781
##	88580	N38403	176	153	7	12	IAH	PHX	1009
##	88582	N14230	134	105	-1	3	IAH	MCO	853
##	88584	N16647	183	155	-7	-8	IAH	HDN	986
##	88587	N37273	256	239	-5	0	IAH	SMF	1609
##	88592	N69063	501	484	27	31	IAH	HNL	3904
	88597	N37274	68	41	2	3	IAH	MSY	305
##	88598	N14652	63	39	42	39	IAH	SAT	191
	88608	N16642	62	46	-4	3	IAH	MSY	305
##	88610	N62631	58	32	0	-5	IAH	AUS	140
	88616	N76504	236	212	66	61	IAH	LAX	1379
	88619	N14106	234	201	7	-1	IAH	LAX	1379
	88624	N57868	159	120	41	39	IAH	DEN	862
	88625	N69154	191	170	-11	6	IAH	EWR	1400
	88627	N17105	190	162	4	26	IAH	EWR	1400
	88631	N24729	183	162	-8	1	IAH	EWR	1400
	88635	N68061	185	161	27	44	IAH	EWR	1400
	88640	N27733	58	43	-10	0	IAH	MSY	305
	88644	N14228	229	204	18	16	IAH	LAX	1379
	88646	N57864	134	109	-11	13	IAH	ORD	925
	88649	N77258	226	201	9	3	IAH	ONT	1334
	88652	N77200 N29717	162	137	6	14	IAH	DCA	1208
	88657	N30401	259	239	14	19	IAH	SF0	1635
	88668	N16217	133	112	30	40	IAH	MIA	964
	88673	N57862	192	173	18	27	IAH	LAS	1222
	88675	N73275	137	114	-22	-2	IAH	DEN	862
##	00010	111 0210	137	114	-22	-2	THU	الانتارا	002

	88678	N78438	116	97	-3	5	IAH	TPA	787
	88680	N16732	267	249	48	57	IAH	PDX	1825
	88681	N32404	194	169	-4	16	IAH	EWR	1400
	88683	N47414	235	219	50	60	IAH	SJU	2007
	88688	N29124	172	152	14	18	IAH	PHX	1009
	88693	N58606	174	152	19	19	IAH	BWI	1235
	88697	N59630	204	174	-2	0	IAH	LGA	1416
	88704	N24633	62	32	6	-3	IAH	AUS	140
	88706	N46625	169	131	0	0	IAH	CLE	1091
	88709	N35204	142	118	9	22	IAH	RDU	1043
##	88718	N17245	271	255	-10	3	IAH	SEA	1874
##	88721	N75436	258	239	15	17	IAH	SF0	1635
##	88722	N37287	159	122	29	25	IAH	DEN	862
##	88723	N37252	59	41	6	8	IAH	SAT	191
##	88728	N75428	198	178	6	16	IAH	LAS	1222
##	88729	N73299	144	121	-8	0	IAH	DEN	862
##	88733	N75429	256	240	-4	14	IAH	PDX	1825
	88734	N75861	199	158	36	46	IAH	EWR	1400
	88739	N75425	174	147	-3	4	IAH	PHX	1009
	88741	N33266	65	44	10	13	IAH	MSY	305
	88743	N78509	154	136	-13	7	IAH	BWI	1235
	88754	N27724	203	184	49	3	IAH	GUC	886
	88757	N37273	159	142	7	13	IAH	DCA	1208
	88764	N12216	275	255	20	11	IAH	SF0	1635
	88769	N13624	61	41	2	3	IAH	SAT	191
	88771	N11206	207	186	4	13	IAH	BOS	1597
	88777	N37413	212	191	5	1	IAH	LAS	1222
	88779	N16732	117	99	-22	6	IAH	IND	845
	88781	N16713	206	190	-2	1	IAH	SAN	1303
	88782	N76254	149	131	-18	5	IAH	IAD	1190
	88784	N14242	156	140	2	18	IAH	IAD	1190
	88786	N67058	183	167	-13	1	IAH	EWR	1400
	88788	N24212	171	134	106	107	IAH	IAD	1190
	88790	N77510	261	242	18	15	IAH	SJC	1609
	88792	N16642	104	59	45	10	IAH	MSY	305
##	88793	N58606	183	143	20	13	IAH	BWI	1235
	88796	N78285	192	165	1	5	IAH	LGA	1416
	88800	N59630	91	68	20	16	IAH	TUL	429
	88801	N75429	153	117	19	25	IAH	ORD	925
	88807	N37290	158	142	-2	10	IAH	DCA	1208
	88811	N75436	264	247	101	117	IAH	SEA	1874
	88817	N76265	72	36	26	20	IAH	SAT	191
	88820	N76523	192	178	19	51	IAH	BOS	1597
	88825	N12109	191	173	- 5	4	IAH	LAS	1222
	88827	N76502	145	120	10	15	IAH	DEN	862
	88828	N17627	149	101	0	-4	IAH	IND	845
	88832	N36247	198	173	13	12	IAH	EWR	1400
	88833	N14242	74	55	29	32	IAH	MFE	316
	88836	N39415	196	156	130	115	IAH	PHX	1009
	88842	N37267	187	165	-8	10	IAH	LGA	1416
	88843	N73406	141	124	-8	14	IAH	PIT	1117
	88847	N27205	177	160	26	41	IAH	SLC	1195
	88848	N78506	160	143	-2	-3	IAH	CLE	1091
##	88849	N35204	134	104	-13	5	IAH	ORD	925

##	88858	N13718	173	144	5	3	IAH	DCA	1208
	88863	N38403	285	257	49	24	IAH	SFO	1635
	88869	N27239	209	185	12	21	IAH	BOS	1597
	88870	N17105	122	101	-9	-2	IAH	MCO	853
	88876	N78285	221	195	41	30	IAH	LAS	1222
	88878	N57869	142	122	0	14	IAH	DEN	862
	88880	N24211	143	119	-7	6	IAH	DEN	862
	88882	N76508	120	98	28	32	IAH	TPA	787
	88885	N73251	183	141	34	22	IAH	MSP	1034
	88889	N33262	64	46	58	61	IAH	MSY	305
##	88893	N35271	195	166	5	18	IAH	LGA	1416
##	88896	N39297	150	125	72	84	IAH	CLE	1091
	88900	N37273	170	139	15	14	IAH	DCA	1208
	88903	N34137	156	136	-15	1	IAH	EGE	935
	88904	N57855	277	256	18	19	IAH	SEA	1874
##	88907	N76502	290	251	70	48	IAH	SFO	1635
##	88912	N17233	214	179	22	35	IAH	BOS	1597
	88915	N74856	131	108	9	6	IAH	MCO	853
	88920	N37408	212	185	6	4	IAH	LAS	1222
	88924	N75410	290	257	18	6	IAH	PDX	1825
	88927	N76508	56	43	9	14	IAH	MSY	305
	88934	N33262	204	166	68	59	IAH	LGA	1416
	88937	N24224	202	187	-2	8	IAH	SAN	1303
	88938	N37413	198	182	-11	3	IAH	SAN	1303
	88939	N87512	54	34	12	9	IAH	AUS	140
	88940	N26210	137	120	-29	-3	IAH	CLE	1091
	88941	N76517	134	109	-5	21	IAH	ORD	925
	88942	N14250	188	167	10	22	IAH	SLC	1195
	88944		NA	NA	NA -	NA	IAH	ATL	689
	88945	N77510	217	194	- 5	3	IAH	SNA	1347
	88949	N73278	NA	NA	NA	3	IAH	MSY	305
	88950	N38424	277	258	7	14	IAH	SEA	1874
	88953	N27213	283	258	42	20	IAH	SF0	1635
	88954	N38403	256	234	-15	-3	IAH	SFO	1635
	88959	N75854	127	101	8	14	IAH	MCO	853
##	88961	N39726	151	132	-4	3	IAH	DTW	1076
	88964	N17229	239	209	29	18	IAH	LAX	1379
	88967	N57868	142	118	-8 03	7	IAH	DEN	862
	88970	N77006	217	161	23 27	11	IAH IAH	EWR	1400 1009
	88974 88981	N79402 N37253	185 120	160 97	27 11	19 10	IAH	PHX TPA	787
	88982	N77261	187	159	-15	14	IAH	EWR	1400
	88990	N77261 N75854	130	112	-15 -8	14	IAH	ORD	925
	88991	N76517	128	112	-0 -12	-2	IAH	FLL	925
	88995	N14731	161	145	-12 -10	-2 -1	IAH	DCA	1208
	88998	N38268	286	247	32	6	IAH	SFO	1635
	89001	N39415	61	40	36	37	IAH	SAT	191
	89003	N56859	126	101	41	5 <i>1</i>	IAH	MCO	853
	89005	N27213	154	131	-9	5	IAH	DTW	1076
	89005	N27213 N26210	236	207	-9 26	15	IAH	LAX	1379
	89008	N38257	179	207 166	-22	15	IAH	LAS	1222
	89010	N33264	168	122	-22 40	24	IAH	DEN	862
	89019	N73276	54	31	13	16	IAH	AUS	140
	89022	N76265	255	237	13	12	IAH	SJC	1609
π#	UUUZZ	11 1 0 2 0 0	200	201	10	12	THII	550	1003

##	89023	N19638		164	132	11	22	IAH	PIT	1117
##	89027	N73406		64	39	6	8	IAH	MSY	305
##	89034	N15710		137	114	2	7	IAH	FLL	965
	89038	N87513		235	206	22	10	IAH	SNA	1347
	89046	N19638		176	153	6	23	IAH	PHL	1324
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##				Cancelled C	ancellat	ionCode Di				
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	6356	15	11	0			0			
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##	0000	J	10	U			U			

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## ##	76410 76411	4 13	19 22	0 0	0
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##	76414	4	13	0	C
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	76597	6	18	0		0
	76604	5	18	0		0
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##	76770	5	19			
##				0	В	0
	76781	NA •	NA 10	1	Ď	0
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##	77117 77118	6	18 20	0	C
##	11110	U	20	J	C

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пπ	11022	2	10	V		J

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πĦ	11020	U	12	V	C

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π#	02022	4	21	· ·	J

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##	04220	S	Z I	V	C

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π#	00022	J	13	· ·	,

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π#	01200	J	11	0	

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######################################	87285 87290 87292 87295 87300 87305 87306 87315 87317 87327 87332 87333 87335 87341 87345 87351 87355	7 9 6 6 4 6 5 6 4 11 12 30 NA 12 16 5	21 18 14 19 38 16 18 27 19 18 20 16 NA 19 12 24 20	0 0 0 0 0 0 0 0 0 0 0 0 0 0	В	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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######################################	87285 87290 87292 87295 87300 87305 87306 87315 87317 87327 87332 87333 87335 87341 87345 87351 87355 87356 87359	7 9 6 6 4 6 5 6 4 11 12 30 NA 12 16 5 9 6 5	21 18 14 19 38 16 18 27 19 18 20 16 NA 19 12 24 20 22 25	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	В	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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#########################	87285 87290 87292 87295 87300 87305 87306 87315 87317 87327 87332 87333 87335 87341 87345 87351 87355 87356 87359 87362 87367 87373	7 9 6 6 4 6 5 6 4 11 12 30 NA 12 16 5 9 6 5 9 7	21 18 14 19 38 16 18 27 19 18 20 16 NA 19 12 24 20 22 25 20 22 13	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	В	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##########################	87285 87290 87292 87295 87300 87305 87306 87315 87317 87327 87332 87333 87335 87341 87345 87351 87355 87356 87356 87359 87362 87367 87373	7 9 6 6 4 6 5 6 4 11 12 30 NA 12 16 5 9 6 5 9 7 10	21 18 14 19 38 16 18 27 19 18 20 16 NA 19 12 24 20 22 25 20 22 13 25	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	В	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##########################	87285 87290 87292 87295 87300 87305 87306 87315 87317 87327 87332 87333 87335 87341 87345 87351 87355 87356 87359 87362 87367 87373	7 9 6 6 4 6 5 6 4 11 12 30 NA 12 16 5 9 6 5 9 7	21 18 14 19 38 16 18 27 19 18 20 16 NA 19 12 24 20 22 25 20 22 13	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	В	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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##	88793	7	33	0	C
##	88796	9	18	0	C
##	88800	3	20	0	C
##	88801	5	31	0	C
## ##	88807 88811	4 5	12 12	0	0
##	88817	3	33	0	C
##	88820	5	9	0	C
##	88825	7	11	0	C
., π	30020	,		v	0

				•		
	88827	10	15	0		0
##	88828	5	43	0		0
##	88832	8	17	0		0
##	88833	5	14	0		0
##	88836	3	37	0		0
##	88842	6	16	0		0
##	88843	7	10	0		0
##	88847	6	11	0		0
##	88848	5	12	0		0
##	88849	14	16	0		0
##	88858	3	26	0		0
##	88863	8	20	0		0
##	88869	7				0
			17	0		
##	88870	9	12	0		0
##	88876	11	15	0		0
##	88878	9	11	0		0
##	88880	13	11	0		0
##	88882	4	18	0		0
##	88885	7	35	0		0
##	88889	3	15	0		0
##	88893	8	21	0		0
##	88896	5	20	0		0
##	88900	4	27	0		0
##	88903	9	11	0		0
##	88904	10	11	0		0
##	88907	8	31	0		0
##	88912	8	27	0		0
##	88915	7	16	0		0
##	88920	7	20	0		0
##	88924	6	27	0		0
##	88927	3	10	0		0
##	88934	5	33	0		0
##	88937	3	12	0		0
##	88938	3	13	0		0
##	88939	4	16	0		0
##	88940	7	10	0		0
##	88941	12	13	0		0
##	88942	5	16	0	_	0
##	88944	NA	NA	1	В	0
##	88945	7	16	0		0
##	88949	3	21	0		1
##	88950	6	13	0		0
##	88953	9	16	0		0
##	88954	6	16	0		0
##	88959	7	19	0		0
##	88961	8	11	0		0
##	88964	6	24	0		0
##	88967	13	11	0		0
##	88970	36	20	0		0
##	88974	7	18	0		0
##	88981	5	18	0		0
##	88982	8	20	0		0
##	88990	7	11	0		0
##	88991	3	14	0		0

```
## 88995
                      10
                                 0
                                                             0
## 88998
              6
                      33
                                 0
                                                             0
## 89001
              5
                      16
                                 0
                                                             0
## 89003
                                 0
             10
                      15
                                                             0
## 89005
             11
                      12
                                 0
                                                             0
## 89007
                      14
                                 0
                                                             0
             15
## 89008
                       9
                                 0
              4
                                                             0
## 89010
             27
                      19
                                 0
                                                             0
## 89019
              5
                      18
                                 0
                                                             0
                                 0
## 89022
              3
                      15
                                                             0
## 89023
              7
                      25
                                 0
                                                             0
## 89027
                      21
                                 0
                                                             0
              4
## 89034
              4
                      19
                                 0
                                                             0
              7
## 89038
                                 0
                                                             0
                      22
## 89046
              5
                      18
                                 0
                                                             0
## 89048
              2
                      17
                                 0
## [ reached 'max' / getOption("max.print") -- omitted 222735 rows ]
class(hflights::hflights)
## [1] "data.frame"
Create a tibble
as_tibble() - From data frame (conversion)
# Convert hflights data frame
library(hflights)
class(hflights)
## [1] "data.frame"
dft <- as_tibble(hflights)</pre>
dft
## # A tibble: 227,496 x 21
##
       Year Month DayofMonth DayOfWeek DepTime ArrTime UniqueCarrier FlightNum
                        <int>
                                  <int>
                                           <int>
                                                   <int> <chr>
##
      <int> <int>
   1 2011
                                            1400
                                                    1500 AA
                                                                               428
##
                1
                            1
                                      6
##
   2 2011
                1
                            2
                                      7
                                            1401
                                                    1501 AA
                                                                               428
    3 2011
                            3
                                            1352
                                                    1502 AA
                                                                               428
##
                1
                                       1
##
   4 2011
                            4
                                       2
                                            1403
                                                    1513 AA
                                                                               428
                1
   5 2011
                            5
                                       3
##
                1
                                            1405
                                                    1507 AA
                                                                               428
##
   6 2011
                            6
                                       4
                                            1359
                                                    1503 AA
                                                                               428
                1
##
   7 2011
                1
                            7
                                       5
                                            1359
                                                    1509 AA
                                                                               428
##
   8 2011
                            8
                                       6
                                            1355
                                                    1454 AA
                                                                               428
                1
                                       7
##
  9 2011
                            9
                                            1443
                                                    1554 AA
                                                                               428
## 10
       2011
                           10
                                       1
                                            1443
                                                    1553 AA
                                                                               428
                1
## # i 227,486 more rows
## # i 13 more variables: TailNum <chr>, ActualElapsedTime <int>, AirTime <int>,
       ArrDelay <int>, DepDelay <int>, Origin <chr>, Dest <chr>, Distance <int>,
## #
       TaxiIn <int>, TaxiOut <int>, Cancelled <int>, CancellationCode <chr>,
## #
       Diverted <int>
class(dft)
## [1] "tbl_df"
                     "tbl"
                                  "data.frame"
```

```
# Convert custom data frame
df \leftarrow data.frame(x = 1:10,
                 y = seq.Date(from = as.Date("2021-01-01"),
                             to = as.Date("2021-01-10"),
                              by = "day"))
df
##
      1 2021-01-01
## 1
## 2
     2 2021-01-02
## 3 3 2021-01-03
      4 2021-01-04
## 4
## 5
      5 2021-01-05
      6 2021-01-06
## 6
## 7
      7 2021-01-07
## 8
      8 2021-01-08
     9 2021-01-09
## 10 10 2021-01-10
class(df)
## [1] "data.frame"
dft <- as_tibble(df)</pre>
dft
## # A tibble: 10 x 2
##
         х у
##
      <int> <date>
## 1
         1 2021-01-01
## 2
         2 2021-01-02
## 3
        3 2021-01-03
## 4
        4 2021-01-04
        5 2021-01-05
## 5
## 6
         6 2021-01-06
## 7
         7 2021-01-07
## 8
        8 2021-01-08
## 9
        9 2021-01-09
         10 2021-01-10
## 10
class(dft)
## [1] "tbl_df"
                   "tbl"
                                 "data.frame"
# tibble() - Create custom tibble
tibble(v1 = seq(from = 1, to = 100, by = 1),
       v2 = pi,
       v3 = sqrt(v1),
       v4 = seq.Date(from = as.Date("2021-01-01"),
                     length.out = 100,
                     by = "day"))
## # A tibble: 100 x 4
##
              v2
                    v3 v4
         v1
      <dbl> <dbl> <date>
         1 3.14 1
## 1
                       2021-01-01
          2 3.14 1.41 2021-01-02
```

```
3 3.14 1.73 2021-01-03
## 3
## 4
        4 3.14 2
                    2021-01-04
## 5
       5 3.14 2.24 2021-01-05
        6 3.14 2.45 2021-01-06
## 6
## 7
        7 3.14 2.65 2021-01-07
## 8
        8 3.14 2.83 2021-01-08
## 9
        9 3.14 3 2021-01-09
       10 3.14 3.16 2021-01-10
## 10
## # i 90 more rows
# Use strange non-syntactic column names
tibble(`123` = 123,
      `.` = "period",
      `,` = "comma",
      `,*/-+?!` = "strange name")
## # A tibble: 1 x 4
   `123` . `,` `,*/-+?!`
   <dbl> <chr> <chr> <chr>
## 1 123 period comma strange name
# tribble() - Create transposed tibble
 ~name, ~surname, ~male, ~age, # header
 #-----#
 "Max", "Smith", T, 35,
 "Lily", "Brown", F,
)
## # A tibble: 2 x 4
   name surname male
                       age
   <chr> <chr> <lgl> <dbl>
## 1 Max Smith
                TRUE
                        35
## 2 Lily Brown
               FALSE
                        27
data.frame VS tibbles
# Print output
hflights %>% as_tibble()
## # A tibble: 227,496 x 21
      Year Month DayofMonth DayOfWeek DepTime ArrTime UniqueCarrier FlightNum
##
##
     <int> <int> <int> <int> <int> <int> <int> <int> 
## 1 2011
            1
                      1
                              6 1400
                                         1500 AA
                                                                 428
## 2 2011
                      2
                                7
            1
                                                                 428
                                    1401
                                           1501 AA
## 3 2011
            1
                      3
                                1 1352
                                          1502 AA
                                                                 428
## 4 2011
                      4
                                2 1403
                                         1513 AA
                                                                 428
                                         1507 AA
## 5 2011
                      5
                                3 1405
                                                                 428
            1
## 6 2011
            1
                      6
                                4
                                    1359
                                           1503 AA
                                                                 428
```

i 227,486 more rows
i 13 more variables: TailNum <chr>, ActualElapsedTime <int>, AirTime <int>,
ArrDelay <int>, DepDelay <int>, Origin <chr>, Dest <chr>, Distance <int>,

6

7

5 1359

1355

1443

1443

1509 AA

1454 AA

1554 AA

1553 AA

428

428

428

428

7

8

9

10

7 2011

9 2011

10 2011

8 2011

1

1

1

1

TaxiIn <int>, TaxiOut <int>, Cancelled <int>, CancellationCode <chr>,
Diverted <int>

hflights

##		Year	Month	DayofMonth	DayOfWeek	DepTime	ArrTime	UniqueCarrier	FlightNum
##	5424	2011	1	1	6	1400	1500	AA	428
##	5425	2011	1	2	7	1401	1501	AA	428
##	5426	2011	1	3	1	1352	1502	AA	428
##	5427	2011	1	4	2	1403	1513	AA	428
##	5428	2011	1	5	3	1405	1507	AA	428
##	5429	2011	1	6	4	1359	1503	AA	428
##	5430	2011	1	7	5	1359	1509	AA	428
##	5431	2011	1	8	6	1355	1454	AA	428
##	5432	2011	1	9	7	1443	1554	AA	428
##	5433	2011	1	10	1	1443	1553	AA	428
##	5434	2011	1	11	2	1429	1539	AA	428
##	5435	2011	1	12	3	1419	1515	AA	428
##	5436	2011	1	13	4	1358	1501	AA	428
##	5437	2011	1	14	5	1357	1504	AA	428
##	5438	2011	1	15	6	1359	1459	AA	428
##	5439	2011	1	16	7	1359	1509	AA	428
##	5440	2011	1	17	1	1530	1634	AA	428
##	5441	2011	1	18	2	1408	1508	AA	428
##	5442	2011	1	19	3	1356	1503	AA	428
	5443	2011	1	20	4	1507	1622	AA	428
	5444	2011	1	21	5	1357	1459	AA	428
	5445	2011	1	22	6	1355	1456	AA	428
	5446	2011	1	23	7	1356	1501	AA	428
	5447	2011	1	24	1	1356	1513	AA	428
	5448	2011	1	25	2	1352	1452	AA	428
	5449	2011	1	26	3	1353	1455	AA	428
	5450	2011	1	27	4	1356	1458	AA	428
	5451	2011	1	28	5	1359	1505	AA	428
	5452	2011	1	29	6	1355	1455	AA	428
	5453	2011	1	30	7	1359	1456	AA	428
	5454	2011	1	31	1	1441	1553	AA	428
	6343	2011	1	1	6	728	840	AA	460
	6344	2011	1	2	7	719	821	AA	460
	6345	2011	1	3	1	717	834	AA	460
	6346	2011	1	4	2	714	821	AA	460
	6347	2011	1	5	3	718	822	AA	460
	6348	2011	1	6	4	719	821	AA	460
	6349	2011	1	7	5	711	827	AA	460
	6350	2011	1	8	6	713	805	AA	460
	6351	2011	1	9	7	714	829	AA	460
	6352	2011	1	10	1	715	818	AA	460
	6353	2011	1	11	2	717	820	AA	460
	6354	2011	1	12	3	714	814	AA	460
	6355	2011	1	13	4	722	841	AA	460
	6356	2011	1	14	5	715	828	AA	460
	6357	2011	1	15	6	719	833	AA	460
	6358	2011	1	16	7	743	843	AA	460
	6359	2011	1	17	1	724	842	AA	460
##	6360	2011	1	18	2	721	827	AA	460

	6361	2011	1	19	3	714	833	AA	460
##	6362	2011	1	20	4	719	822	AA	460
##	6363	2011	1	21	5	712	811	AA	460
##	6364	2011	1	22	6	717	829	AA	460
##	6365	2011	1	23	7	710	814	AA	460
	6366	2011	1	24	1	731	904	AA	460
	6367	2011	1	25	2	719	818	AA	460
	6368	2011	1	26	3	716	824	AA	460
	6369	2011	1	27	4	715	825	AA	460
	6370	2011	1	28	5	741	846	AA	460
##	6371	2011	1	29	6	720	825	AA	460
##	6372	2011	1	30	7	716	820	AA	460
##	6373	2011	1	31	1	718	816	AA	460
##	8186	2011	1	2	7	1959	2106	AA	533
##	8187	2011	1	3	1	1958	2107	AA	533
	8188	2011	1	4	2	2100	2207	AA	533
	8189	2011	1	5	3	1958	2106	AA	533
	8190								
		2011	1	6 7	4	1955	2103	AA	533
	8191	2011	1		5	1958	2055	AA	533
	8192	2011	1	9	7	2045	2155	AA	533
	8193	2011	1	10	1	2029	2133	AA	533
	8194	2011	1	11	2	1953	2051	AA	533
##	8195	2011	1	12	3	2015	2113	AA	533
##	8196	2011	1	13	4	2020	2116	AA	533
##	8197	2011	1	14	5	2119	2229	AA	533
##	8198	2011	1	16	7	1956	2119	AA	533
##	8199	2011	1	17	1	2030	2131	AA	533
##	8200	2011	1	18	2	1957	2106	AA	533
##	8201	2011	1	19	3	2029	2123	AA	533
	8202	2011	1	20	4	2004	2121	AA	533
	8203	2011	1	21	5	2036	2134	AA	533
	8204	2011	1	23	7	2001	2057	AA	533
	8205	2011	1	24	1	2043	2139		533
								AA	
	8206	2011	1	25	2	2004	2107	AA	533
	8207	2011	1	26	3	2009	2103	AA	533
	8208	2011	1	27	4	2039	2130	AA	533
	8209	2011	1	28	5	1959	2100	AA	533
	8210	2011	1	30	7	1959	2132	AA	533
	8211	2011	1	31	1	1954	2105	AA	533
##	19266	2011	1	1	6	1631	1736	AA	1121
##	19267	2011	1	2	7	1636	1759	AA	1121
##	19268	2011	1	3	1	1623	1738	AA	1121
##	19269	2011	1	4	2	1629	1732	AA	1121
##	19270	2011	1	5	3	1629	1740	AA	1121
	19271		1	6	4	1625	1732	AA	1121
	19272		1	7	5	1630	1733	AA	1121
	19273		1	8	6	1627	1736	AA	1121
	19274		1	9	7	1835	1951	AA	1121
	19274		1	10	1	1639	1740	AA	1121
	19276		1	11	2	1752	1855	AA	1121
	19277		1	12	3	1631	1739	AA	1121
	19278		1	13	4	1630	1733	AA	1121
	19279		1	14	5	1629	1734	AA	1121
##	19280	2011	1	15	6	1632	1736	AA	1121

##	19281	2011	1	16	7	1708	1819	AA	1121
##	19282	2011	1	17	1	1632	1744	AA	1121
##	19283	2011	1	18	2	1625	1740	AA	1121
##	19284	2011	1	19	3	1629	1731	AA	1121
##	19285	2011	1	20	4	1641	1752	AA	1121
##	19286	2011	1	21	5	1638	1746	AA	1121
##	19287	2011	1	22	6	1623	1742	AA	1121
##	19288	2011	1	23	7	1622	1738	AA	1121
##	19289	2011	1	24	1	1621	1749	AA	1121
##	19290	2011	1	25	2	1627	1733	AA	1121
##	19291	2011	1	26	3	1634	1745	AA	1121
##	19292	2011	1	27	4	1634	1740	AA	1121
##	19293	2011	1	28	5	1625	1730	AA	1121
##	19294	2011	1	29	6	1630	1731	AA	1121
##	19295	2011	1	30	7	1635	1733	AA	1121
##	19296	2011	1	31	1	1656	1758	AA	1121
##	23655	2011	1	1	6	1756	2112	AA	1294
##	23656	2011	1	2	7	1823	2132	AA	1294
	23657		1	3	1	1755	2106	AA	1294
##	23658	2011	1	4	2	1757	2122	AA	1294
##	23659	2011	1	5	3	1751	2100	AA	1294
	23660		1	6	4	1746	2120	AA	1294
	23661		1	7	5	1757	2108	AA	1294
	23662		1	8	6	1749	2100	AA	1294
	23663		1	9	7	1810	2123	AA	1294
	23664		1	10	1	1934	2235	AA	1294
	23665		1	11	2	1848	2156	AA	1294
	23666		1	12	3	1748	2102	AA	1294
	23667		1	13	4	1748	2127	AA	1294
	23668		1	14	5	1754	2101	AA	1294
	23669		1	15	6	1749	2059	AA	1294
	23670		1	16	7	1807	2137	AA	1294
	23671		1	17	1	1803	2121	AA	1294
	23672		1	18	2	1839	2154	AA	1294
	23673		1	19	3	1751	2103	AA	1294
##	23674		1	20	4	1750	2114	AA	1294
##	23675		1	21	5	1818	2133	AA	1294
	23676		1	22	6	1750	2055	AA	1294
	23677		1	23	7	1753	2113	AA	1294
	23678		1	24	1	1828	2146	AA	1294
	23679		1	25	2	1750	2118	AA	1294
	23680		1	26	3	1905	2211	AA	1294
	23681		1	27	4	1812	2129	AA	1294
	23682		1	28	5	1750	2108	AA	1294
	23683		1	29	6	1753	2102	AA	1294
	23684		1	30	7	1856	2209	AA	1294
	23685		1	31	1	1757	2101	AA	1294
	27063		1	3	1	907	1013	AA	1436
	27064		1	4	2	930	1013	AA	1436
	27065		1	5	3	916	1019	AA	1436
	27066		1	6	4	907	1015	AA	1436
	27067		1	7	5	904	1013	AA	1436
	27068		1	10	1	941	1113	AA	1436
	27069		1	11	2	901	1005	AA	1436
##	21009	2011	T	11	2	901	1009	AA	1430

##	27070	2011	1	12	3	909	1009	AA	1436
	27071		1	13	4	907	1022	AA	1436
	27072		1	14	5	903	1012	AA	1436
	27073		1	17	1	930	1040	AA	1436
	27074		1	18	2	923	1030	AA	1436
	27075		1	19	3	916	1028	AA	1436
	27076		1	20	4	907	1018	AA	1436
	27077		1	21	5	918	1037	AA	1436
	27078		1	24	1	912	1017	AA	1436
	27079		1	25	2	901	1007	AA	1436
##	27080		1	26	3	910	1018	AA	1436
##	27081		1	27	4	908	1011	AA	1436
##	27082		1	28	5	907	1012	AA	1436
	27083		1	31	1	941	1054	AA	1436
	33051		1	1	6	1012	1347	AA	1700
	33052		1	2	7	1008	1321	AA	1700
	33053		1	3	1	1018	1323	AA	1700
	33054		1	4	2	1026	1333	AA	1700
	33055		1	5	3	1021	1331	AA	1700
	33056		1	6	4	1020	1322	AA	1700
	33057		1	7	5	1010	1316	AA	1700
	33058		1	8	6	1019	1324	AA	1700
	33059		1	9	7	1029	1338	AA	1700
	33060		1	10	1	1038	1414	AA	1700
	33061		1	11	2	1134	1454	AA	1700
	33062		1	12	3	1019	1327	AA	1700
	33063		1	13	4	1018	1326	AA	1700
	33064		1	14	5	1024	1327	AA	1700
	33065		1	15	6	1022	1340	AA	1700
	33066		1	16	7	1021	1332	AA	1700
	33067		1	17	1	1019	1332	AA	1700
	33068		1	18	2	1017	1332	AA	1700
	33069		1	19	3	1016	1331	AA	1700
	33070		1	20	4	1015	1325	AA	1700
	33071		1	21	5	1017	1325	AA	1700
##	33072		1	22	6	1026	1345	AA	1700
	33073		1	23	7	1012	1327	AA	1700
	33074		1	24	1	NA	NA	AA	1700
	33075		1	25	2	1040	1354	AA	1700
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##	74798 20	011	1	31	1	2102	2216	CO	299
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	74812 20			31	1	1248	1628	CO	326
	74816 20			31	1	742	1217	CO	332
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	74956 201:		31	1	740	1052	CO	586
	74962 2013		31	1	2102	2222	CO	597
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	75014 2013		31	1	749	1044	CO	706
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	75025 201:		31	1	1940	2349	CO	732
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	75050 201:		31	1	1347	1654	CD	786
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	75057 201:		31	1	842	1027	CO	799
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	75297		1	31	1	1145	1557	CO	1832
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	75315		1	31	1	1757	2007	CO	1889
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	75347		1	30	7	754	953	CO	52
	75352		1	30	7	1756	1933	CO	59
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	75380		1	30	7	1446	1834	CO	158
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	75392		1	30	7	1920	2236	CO	190
	75397		1	30	7	1200	1326	CO	197
	75399		1	30	7	559	717	CO	199
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	75412 75417		1		7 7	900	1101	CO CO	220
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	75770 20			30	7	1924	2357	CO	1488
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	75971		1	29	6	1738	1901	CO	59
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	76105		1	29	6	NA	NA	CO	408
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	76188 203			6	1426	1543	CO	599
	76190 203			6	1306	1424	CO	601
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## 76934 2011 1 28 5 1604 1830 C0 10 ## 76937 2011 1 28 5 1442 1548 C0 10 ## 76939 2011 1 28 5 1557 1905 C0 10 ## 76941 2011 1 28 5 1304 1659 C0 10 ## 76943 2011 1 28 5 2058 2258 C0 10 ## 76944 2011 1 28 5 731 825 C0 10 ## 76946 2011 1 28 5 1901 2037 C0 10 ## 76955 2011 1 28 5 1902 1949 C0 14 ## 76958 2011 1 28 5 920 1121 C0 14 ## 76958 2011 1 28 5 1859 2302 C0 14 ## 76964 2011 1 28 5 1227 1548 C0 14 ## 76964 2011 1 28 5 1039 1401 C0 14	##	76931 20)11 1	28	5	947		CO	1058
## 76937 2011 1 28 5 1442 1548 C0 10 ## 76939 2011 1 28 5 1557 1905 C0 10 ## 76941 2011 1 28 5 1304 1659 C0 10 ## 76943 2011 1 28 5 2058 2258 C0 10 ## 76944 2011 1 28 5 731 825 C0 10 ## 76946 2011 1 28 5 1901 2037 C0 10 ## 76955 2011 1 28 5 1902 1949 C0 14 ## 76957 2011 1 28 5 920 1121 C0 14 ## 76958 2011 1 28 5 1859 2302 C0 14 ## 76962 2011 1 28 5 2101 2159 C0 14 ## 76964 2011 1 28 5 1227 1548 C0 14 ## 76970 2011 1 28 5 1039 1401 C0 14									1070
## 76939 2011 1 28 5 1557 1905 C0 10 ## 76941 2011 1 28 5 1304 1659 C0 10 ## 76943 2011 1 28 5 2058 2258 C0 10 ## 76944 2011 1 28 5 731 825 C0 10 ## 76946 2011 1 28 5 1901 2037 C0 10 ## 76955 2011 1 28 5 1902 1949 C0 14 ## 76957 2011 1 28 5 920 1121 C0 14 ## 76958 2011 1 28 5 1859 2302 C0 14 ## 76962 2011 1 28 5 2101 2159 C0 14 ## 76964 2011 1 28 5 1227 1548 C0 14 ## 76970 2011 1 28 5 1039 1401 C0 14									1079
## 76941 2011 1 28 5 1304 1659 C0 10 ## 76943 2011 1 28 5 2058 2258 C0 10 ## 76944 2011 1 28 5 731 825 C0 10 ## 76946 2011 1 28 5 1901 2037 C0 10 ## 76955 2011 1 28 5 1902 1949 C0 14 ## 76957 2011 1 28 5 920 1121 C0 14 ## 76958 2011 1 28 5 1859 2302 C0 14 ## 76962 2011 1 28 5 1227 1548 C0 14 ## 76970 2011 1 28 5 1039 1401 C0 14									1086
## 76943 2011 1 28 5 2058 2258 C0 10 ## 76944 2011 1 28 5 731 825 C0 10 ## 76946 2011 1 28 5 1901 2037 C0 10 ## 76955 2011 1 28 5 1902 1949 C0 14 ## 76957 2011 1 28 5 920 1121 C0 14 ## 76958 2011 1 28 5 1859 2302 C0 14 ## 76962 2011 1 28 5 2101 2159 C0 14 ## 76964 2011 1 28 5 1227 1548 C0 14 ## 76970 2011 1 28 5 1039 1401 C0 14									1088
## 76944 2011 1 28 5 731 825 C0 10 ## 76946 2011 1 28 5 1901 2037 C0 10 ## 76955 2011 1 28 5 1902 1949 C0 14 ## 76957 2011 1 28 5 920 1121 C0 14 ## 76958 2011 1 28 5 1859 2302 C0 14 ## 76962 2011 1 28 5 2101 2159 C0 14 ## 76964 2011 1 28 5 1227 1548 C0 14 ## 76970 2011 1 28 5 1039 1401 C0 14									1095
## 76946 2011 1 28 5 1901 2037 C0 10 ## 76955 2011 1 28 5 1902 1949 C0 14 ## 76957 2011 1 28 5 920 1121 C0 14 ## 76958 2011 1 28 5 1859 2302 C0 14 ## 76962 2011 1 28 5 2101 2159 C0 14 ## 76964 2011 1 28 5 1227 1548 C0 14 ## 76970 2011 1 28 5 1039 1401 C0 14									1097
## 76955 2011 1 28 5 1902 1949 C0 14 ## 76957 2011 1 28 5 920 1121 C0 14 ## 76958 2011 1 28 5 1859 2302 C0 14 ## 76962 2011 1 28 5 2101 2159 C0 14 ## 76964 2011 1 28 5 1227 1548 C0 14 ## 76970 2011 1 28 5 1039 1401 C0 14									1099
## 76957 2011 1 28 5 920 1121 C0 14 ## 76958 2011 1 28 5 1859 2302 C0 14 ## 76962 2011 1 28 5 2101 2159 C0 14 ## 76964 2011 1 28 5 1227 1548 C0 14 ## 76970 2011 1 28 5 1039 1401 C0 14									1411
## 76958 2011 1 28 5 1859 2302 C0 14 ## 76962 2011 1 28 5 2101 2159 C0 14 ## 76964 2011 1 28 5 1227 1548 C0 14 ## 76970 2011 1 28 5 1039 1401 C0 14									1411
## 76962 2011									
## 76964 2011 1 28 5 1227 1548 C0 14 ## 76970 2011 1 28 5 1039 1401 C0 14									1417
## 76970 2011 1 28 5 1039 1401 CO 14									1423
									1427
## /69/4 2011 1 28 5 2109 2229 CO 14									1448
	##	76974 20)11 1	28	5	2109	2229	CO	1459

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##	76985 2011	1	28	5	2105	2210	CO	1479
##	76987 2011	1	28	5	1928	2326	CO	1488
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	76996 2011	1	28	5	1918	2211	CO	1506
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##	77006 2011	1	28	5	1023	1417	CO	1544
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##	77056 2011	1	28	5	843	958	CO	1639
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	77076 2011				1600	1955	CO	
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	77078 2011	1	28	5	1039	1355	CO	1690
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	77114 2011	1	28	5	1738	1834	CD	1779
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	7147		1	28	5	1251	1631	CO	1850
	7150		1	28	5	1736	1942	CO	1858
	7155		1	28	5	905	1214	CO	1873
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## 77	7170	2011	1	27	4	1854	1957	CO	5
## 77	7171	2011	1	27	4	1740	1833	CO	6
## 7	7181	2011	1	27	4	1522	1633	CO	33
	7183		1	27	4	1547	1634	CO	35
	7191		1	27	4	1918	2054	CO	47
	7194		1	27	4	746	915	CO	52
	7199		1	27	4	2017	2135	CO	59
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	7200 7202		1			1231	1635	CO	60
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	7208		1	27	4	NA	NA	CO	89
	7212		1	27	4	1107	1650	CO	106
	7218		1	27	4	729	845	CO	128
	7222		1	27	4	1822	1945	CO	137
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## 7	7230	2011	1	27	4	1443	1822	CO	158
## 77	7235	2011	1	27	4	857	1053	CO	170
## 7	7242	2011	1	27	4	1927	2236	CO	190
## 77	7248	2011	1	27	4	1156	1318	CO	197
## 7	7250	2011	1	27	4	723	849	CO	199
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	7258		1	27	4	11	216	CO	209
	7259		1	27	4	1633	2048	CO	210
	7261		1	27	4	1025	1625	CO	212
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	7277		1	27	4	919	1338	CO	232
	7284		1	27	4	1303	1358	CO	241
	7286		1	27	4	1537	1948	CO	244
	7289		1	27	4	2237	153	CO	250
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	7315		1	27	4	1034	1206	CO	297
	7317		1	27	4	2140	2308	CO	299
	7322		1	27	4	852	1111	CO	309
	7323		1	27	4	1954	20	CO	310
	7328 :		1	27	4	1430	1619	CO	320
ππ (1020	2011	±	۷.	-	1400	1019	00	520

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##	77332 201	.1 1	27	4	1251	1639	CO	326
##	77336 201	.1 1	27	4	746	1158	CO	332
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##	77364 201	.1 1	27	4	1317	1420	CO	379
##	77366 201	.1 1	27	4	1044	1507	CO	382
##	77372 201	.1 1	27	4	1809	1919	CO	397
##	77374 201	.1 1	27	4	1310	1628	CO	400
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##	77377 201	.1 1	27	4	727	1156	CO	404
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##	77396 201			4	1848	2024	CO	442
##	77397 201			4	1938	2210	CO	444
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##	77408 201			4	2116	2357	CO	467
##	77414 201			4	1907	2008	CO	479
##	77417 201			4	1313	1751	CO	482
##	77422 201		27	4	907	1027	CO	497
##	77424 201		27	4	1150	1321	CO	499
##	77425 201		27	4	1921	2251	CO	500
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##	77432 201		27	4	2059	2207	CO	511
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	77469 201			4	1849	2036	CO	570
	77474 201			4	1856	2325	CO	582
	77476 201			4	741	1045	CO	586
	77482 201			4	2109	2205	CO	597
	77484 201			4	1437	1600	CO	599
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	77488 201			4	1617	1909	CO	606
	77491 201		27	4	1919	2219	CO	616
	77495 201		27	4	1430	1538	CO	623
	77498 201		27	4	723	1109	CO	626
	77501 201		27	4	1730	2203	CO	632
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	77510 201			4	1904	2240	CO	658
	77510 201			4	1125	1312	CO	663
	77513 201			4	1734	2010	CO	667
	77514 201			4	2008	2153	CO	670
##	11011 201	1	21	4	2008	∠153	CU	670

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##	77525 2013	1 1	27	4	1033	1343	CO	686
##	77531 2013	1 1	27	4	1528	1637	CO	697
##	77535 2013	1 1	27	4	747	1046	CO	706
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##	77550 2013	1 1	27	4	1240	1342	CO	738
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##	77553 2013	1 1	27	4	1311	1658	CO	744
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##	77555 201:	1 1	27	4	2142	2343	CO	752
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##	77562 2013	1 1	27	4	1650	1758	CO	763
##	77563 2013	1 1	27	4	1437	1705	CO	767
##	77566 2013	1 1	27	4	2056	2247	CO	770
##	77567 2013	1 1	27	4	730	932	CO	771
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	77656 201:		27	4	2049	2207	CO	1459
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	77667 201:		27	4	2111	2208	CD	1479
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	77681 201:		27 27	4	1813	1942	CO	1511
##	11001 201.	т т	21	4	1013	1942	CU	1911

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			27			1925	CO	1790
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	77837 20:			4	905	1207	CO	1873
	77839 20:			4	1127	1323	CO	1882
	77842 20:			4	1828	2015	CO	1889
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##	77899 20			3	732	844	CO	128
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##	77904 20			3	1313	1557	CO	146
##	77907 20			3	1739	1922	CO	150
##	77910 20			3	NA	NA	CO	158
##	77915 20			3	851	1055	CO	170
##	77921 20			3	1918	2227	CO	190
##	77925 20			3	736	911	CO	199
##	77930 20			3	1300	1601	CO	206
##	77933 20	11 1		3	2122	2346	CO	209
##	77934 20			3	NA	NA	CO	210
##	77936 20	11 1	26	3	1012	1632	CO	212
##	77942 20	11 1	. 26	3	907	1109	CO	220
##	77951 20	11 1	. 26	3	946	1406	CO	232
##	77958 20	11 1	. 26	3	1303	1353	CO	241
##	77960 20	11 1	. 26	3	1540	1921	CO	244
##	77963 20		. 26	3	1848	2221	CO	250
##	77969 20:	11 1	. 26	3	740	1122	CO	258
##	77975 20	11 1	. 26	3	1558	1722	CO	275
##	77978 20			3	748	1225	CO	282
##	77984 20	11 1	. 26	3	2047	2216	CO	299
##	77989 20	11 1	. 26	3	846	1119	CO	309
##	77990 20:	11 1	. 26	3	1926	NA	CO	310
##	77994 20	11 1	. 26	3	1451	1643	CO	320
##	77995 20	11 1	. 26	3	1313	1416	CO	323
##	77997 20	11 1	. 26	3	1251	1647	CO	326
##	78001 20	11 1	. 26	3	753	1234	CO	332
##	78013 20	11 1	. 26	3	1031	1412	CO	358
##	78019 20	11 1	. 26	3	1427	1630	CO	370
##	78024 20	11 1	. 26	3	1321	1422	CO	379
##	78031 20	11 1	. 26	3	1824	1945	CO	397
##	78033 20	11 1	26	3	1315	1625	CO	400
##	78035 20	11 1	26	3	727	1117	CO	404
##	78037 20	11 1	26	3	1158	1612	CO	406
##	78039 20	11 1	26	3	744	1225	CO	408
##	78041 20	11 1	26	3	1703	NA	CO	410
##	78044 20	11 1	. 26	3	1743	1940	CO	421
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##	78046 20	11 1	. 26	3	NA	NA	CO	426

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	78065 201			3	2114	2345	CO	467
	78071 201			3	1914	2016	CO	479
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##	78076 201	.1 1	26	3	906	1032	CO	497
##	78078 201	.1 1	26	3	1913	2235	CO	500
##	78084 201	.1 1	26	3	1146	1633	CO	510
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##	78091 201			3	1736	1925	CO	520
##	78097 201			3	1443	1909	CO	532
##	78098 201			3	1302	1644	CO	534
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##	78104 201	.1 1	26	3	740	1125	CO	544
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	78123 201			3	1754	1957	CO	570
	78128 201			3				582
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	78130 201			3	744	1137	CO	586
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##	78140 201	.1 1	26	3	1307	1431	CO	601
##	78142 201	.1 1	26	3	1540	1834	CO	606
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##	78173 201	.1 1	26	3	1547	2031	CO	682
##	78179 201	.1 1	26	3	1441	1609	CO	697
	78183 201			3	745	1048	CO	706
	78184 201			3	1802	2035	CO	709
	78193 201			3			CO	
					NA	NA		732
	78197 201			3	906	1030	CO	739
	78198 201			3	1308	1647	CO	744
	78199 201		26	3	1427	1711	CO	746
##	78200 201	.1 1	26	3	2151	2345	CO	752
##	78202 201	.1 1	26	3	1923	2221	CO	755
##	78205 201	.1 1	26	3	1652	1759	CO	763
	78206 201			3	1444	1724	CO	767
	78209 201			3	2049	2257	CO	770
	78210 201			3	733	940	CO	771
	78211 201			3	949	1436	CO	776
	78216 201			3	1336	1638	CO	786
	78219 201			3	1550	1732	CO	795
##	78222 201	.1 1	26	3	849	1021	CO	799

шш	70000	0011	1	06	2	12/1	1000	CO	010
	78228 78233		1 1	26	3 3	1341	1820	CO CO	810 820
	78240		1	26	3	2111 NA	2305	CO	
##	78248		1	26	3	2115	NA 2330	CO	1010 1046
				26					
##	78249		1	26	3	723 NA	1036	CO	1048
##	78253		1	26	3	NA 1007	NA 1016	CO	1058
##	78256		1	26	3	1607	1816	CO	1070
##	78259		1	26	3	1450	1548	CO	1079
##	78261		1	26	3	1606	1917	CO	1086
##	78263		1	26	3	1304	1647	CO	1088
##	78265		1	26	3	2049	2210	CO	1095
##	78266		1	26	3	728	850	CO	1097
##	78268		1	26	3	1859	2041	CO	1099
##	78276		1	26	3	1910	2012	CO	1411
##	78278		1	26	3	913	1106	CO	1416
##	78279		1	26	3	1900	2247	CO	1417
##	78283		1	26	3	2103	2205	CO	1423
##	78285		1	26	3	1226	1543	CO	1427
##	78294		1	26	3	2055	2237	CO	1459
##	78301		1	26	3	2238	2332	CO	1479
##	78303		1	26	3	1912	2256	CO	1488
##	78305		1	26	3	925	1106	CO	1495
##	78307		1	26	3	1601	1729	CO	1497
##	78311		1	26	3	1903	2156	CO	1506
##	78312		1	26	3	1807	1940	CO	1511
##	78316		1	26	3	2100	2156	CO	1533
##	78318		1	26	3	1431	1524	CO	1541
##	78319		1	26	3	1005	1339	CO	1544
##	78321		1	26	3	1727	2002	CO	1546
##	78323		1	26	3	1431	1746	CO	1548
##	78327		1	26	3	1757	1854	CO	1558
##	78331		1	26	3	1328	1636	CO	1562
##	78333		1	26	3	1850	2051	CO	1568
##	78340		1	26	3	857	944	CO	1583
##	78342		1	26	3	1855	2155	CO	1586
##	78344		1	26	3	1440	1611	CO	1589
	78345		1	26	3	733	1050	CO	1590
	78351		1	26	3	NA	NA	CO	1603
	78357		1	26	3	1416	1537	CO	1621
	78358		1	26	3	843	946	CO	1623
	78360		1	26	3	1221	1342	CO	1629
	78361		1	26	3	NA	NA	CO	1632
	78364		1	26	3	2048	2257	CO	1644
	78366		1	26	3	1023	1247	CO	1646
	78367		1	26	3	1603	1923	CO	1648
	78371		1	26	3	1930	2229	CO	1662
	78375		1	26	3	1754	1905	CO	1674
	78376		1	26	3	1546	1956	CO	1676
	78379		1	26	3	922	1015	CO	1679
	78384		1	26	3	1554	1948	CO	1688
	78385		1	26	3	1757	1921	CO	1689
	78389		1	26	3	1319	1459	CO	1695
	78394		1	26	3	1747	1905	CO	1705
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##	78405	2011	1	26	3	932	1059	CO	1723
##	78409	2011	1	26	3	726	1001	CO	1746
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##	78411	2011	1	26	3	1248	1559	CO	1757
##	78415	2011	1	26	3	937	1209	CO	1767
##	78417	2011	1	26	3	NA	NA	CO	1776
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	78422		1	26	3	1330	1648	CO	1790
	78425		1	26	3	1751	1928	CO	1795
	78434		1	26	3	1440	1620	CO	1821
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	78439		1	26	3	NA	NA	CO	1832
	78440		1	26	3	1502	1906	CO	1836
	78441		1	26	3	1436	1802	CO	1844
	78445		1	26	3	1249	1624	CO	1850
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	78453		1	26	3	917	1225	CO	1873
	78455		1	26	3	1006	1206	CO	1882
	78458		1	26	3	1740	1936	CO	1889
	78463		1	25	2	924	1337	CO	1
	78468		1	25	2	1823	1930	CO	5
	78469		1	25	2	1553	1704	CO	6
	78478		1	25	2	1519	1632	CO	33
	78480 2		1	25	2	1706	1802	CO	35
	78490		1	25	2	745	940	CO	52
	78495		1	25	2	1930	2058	CO	59
	78496		1	25	2	1205	1612	CO	60
	78498		1	25	2	1429	1833	CO	62
##	78504		1	25	2	600	1010	CO	89
##	78508		1	25	2	1045	1455	CO	106
##	78514		1	25	2	730	834	CO	128
##	78518		1	25	2	1431	1616	CO	137
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	78522		1	25	2	1743	1913	CO	150
	78525		1	25	2	1438	1815	CO	158
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##	78536	2011	1	25	2	1918	2234	CO	190
##	78540	2011	1	25	2	724	844	CO	199
##	78545	2011	1	25	2	1256	1606	CO	206
##	78548	2011	1	25	2	2122	2356	CO	209
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##	78557	2011	1	25	2	905	1052	CO	220
##	78566	2011	1	25	2	916	1322	CO	232
##	78573	2011	1	25	2	1259	1401	CO	241
##	78575	2011	1	25	2	1537	1918	CO	244
##	78578	2011	1	25	2	1847	2212	CO	250
##	78584	2011	1	25	2	816	1138	CO	258
##	78590	2011	1	25	2	1551	1722	CO	275
##	78593	2011	1	25	2	732	1224	CO	282

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##	78615	2011	1	25	2	742	1212	CO	332
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##	78632	2011	1	25	2	1426	1650	CO	370
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##	78666		1	25	2	1922	2148	CO	444
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##	78673		1	25	2	1247	1619	CO	458
##	78677		1	25	2	2115	2350	CO	467
##	78683		1	25	2	1912	2012	CO	479
##	78684		1	25	2	1304	1737	CO	482
##	78688		1	25	2	902	1026	CO	497
##	78690		1	25	2	1920	2231	CO	500
##	78696		1	25	2	854	1324	CO	510
##	78697		1	25	2	2052	2200	CO	511
##	78703		1	25	2	1737	1925	CO	520
##	78709		1	25	2	1318	1735	CO	532
##	78710		1	25	2	1256	1635	CO	534
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##	78716		1	25	2	741	1129	CO	544
##	78717	2011	1	25	2	1146	1418	CO	546
##	78726	2011	1	25	2	1613	1945	CO	558
##	78733	2011	1	25	2	1805	2018	CO	570
##	78738	2011	1	25	2	1900	2318	CO	582
##	78740	2011	1	25	2	744	1055	CO	586
##	78746	2011	1	25	2	2059	2230	CO	597
##	78748	2011	1	25	2	1441	1614	CO	599
##	78750	2011	1	25	2	1305	1437	CO	601
##	78752	2011	1	25	2	1536	1903	CO	606
##	78755	2011	1	25	2	2002	2244	CO	616
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	78762		1	25	2	713	1100	CO	626
	78764		1	25	2	1542	2004	CO	632
	78768		1	25	2	1856	2220	CO	644
	78772		1	25	2	1857	2234	CO	658
	78774		1	25	2	1001	1151	CO	663
	78776		1	25	2	1728	2003	CO	667
	78782		1	25	2	1712	2129	CO	682
	78788		1	25	2	1440	1602	CO	697
"			_		_				

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##	78807 201	.1 1	25	2	1302	1634	CO	744
##	78808 201	.1 1	25	2	1419	1716	CO	746
##	78809 201	.1 1		2	2131	2338	CO	752
##	78811 201			2	1926	2235	CO	755
##	78812 201			2	912	1033	CD	756
##	78815 201			2	1655	1811	CO	763
##	78816 201			2	1455	1721	CO	767
##	78819 201			2	2056	2302	CO	770
##	78820 201	.1 1	25	2	727	941	CO	771
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##	78826 201	.1 1	25	2	1337	1714	CO	786
##	78829 201	.1 1	25	2	1543	1725	CO	795
##	78831 201			2	843	955	CO	799
##	78837 201			2	1317	1739	CO	810
	78842 201			2	2056	2241	CO	820
	78848 201			2	1754	2202	CD	1010
	78856 201							
				2	2055	2315	CO	1046
	78857 201			2	724	1036	CO	1048
	78861 201			2	848	1218	CO	1058
	78864 201			2	1558	1814	CO	1070
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##	78873 201	.1 1	25	2	2104	2239	CO	1095
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##	78876 201	.1 1	25	2	1914	2051	CO	1099
##	78884 201	.1 1	25	2	1906	1957	CO	1411
##	78886 201	.1 1		2	911	1109	CO	1416
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##	78891 201			2	2102	2218	CO	1423
##	78893 201			2	1231	1550	CO	1427
##	78902 201			2	2048	2204	CD	1459
	78902 201			2			CO	1479
					2103	2202		
	78910 201			2	2112	43	CO	1488
	78912 201			2	922	1103	CO	1495
	78917 201			2	1901	2207	CO	1506
	78918 201			2	1802	1936	CO	1511
	78922 201			2	2101	2158	CO	1533
	78924 201			2	1427	1530	CO	1541
##	78925 201	.1 1	25	2	1010	1337	CO	1544
##	78927 201	.1 1	25	2	1740	2030	CO	1546
##	78929 201	.1 1	25	2	1317	1656	CO	1548
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	78936 201			2	1753	2135	CO	1560
	78938 201			2	1320	1644	CO	1562
	78940 201			2	1846	2055	CO	1568
	78947 201			2	925	1019	CO	1583
	78949 201			2	1930	2238	CO	1586
	78951 201			2	1444	1611	CD	1589
	78951 201 78952 201			2	728	1011	CO	1599
##	10502 201	. 1	∠5	2	120	1040	CU	1990

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	78974		1	25	2			CO	1648
						1601	1924		
	78978		1	25	2	1909	2212	CO	1662
	78982		1	25	2	1748	1908	CO	1674
	78983		1	25	2	1546	1952	CO	1676
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##	78992	2011	1	25	2	1804	1927	CO	1689
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	79001		1	25	2	1730	1844	CO	1705
	79005		1	25	2	1846	2026	CO	1711
	79007		1	25	2	910	1109	CO	1714
	79007				2				
			1	25		1729	1858	CO	1715
	79009		1	25	2	2058	2218	CO	1717
	79012		1	25	2	1011	1139	CO	1723
	79016		1	25	2	723	952	CO	1746
	79017		1	25	2	1934	2257	CO	1748
	79018		1	25	2	1251	1608	CO	1757
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##	79024	2011	1	25	2	1917	2322	CO	1776
##	79026	2011	1	25	2	1742	1842	CO	1779
##	79027	2011	1	25	2	1553	1708	CO	1787
##	79029	2011	1	25	2	1340	1704	CO	1790
##	79032	2011	1	25	2	1823	1950	CO	1795
##	79041	2011	1	25	2	1453	1623	CO	1821
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	79046		1	25	2	1139	1548	CO	1832
	79047		1	25	2	1230	1635	CO	1836
	79048		1	25	2	1432	1809	CO	1844
	79051		1	25	2	1252	1639	CO	1850
	79054			25	2	1732		CO	1858
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	79058		1	25	2	907	1228	CO	1873
	79060		1	25	2	1001	1147	CO	1882
	79063		1	25	2	1741	1950	CO	1889
	79068		1	24	1	1144	1605	CO	1
	79073		1	24	1	1826	1946	CO	5
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##	79083	2011	1	24	1	1539	1650	CO	33
##	79085	2011	1	24	1	1536	1628	CO	35
##	79093	2011	1	24	1	1925	2107	CO	47
##	79096	2011	1	24	1	744	919	CO	52
	79101		1	24	1	1744	1917	CO	59
	79102		1	24	1	1206	1616	CO	60
	79104		1	24	1	1505	1915	CO	62
	79109		1	24	1	559	959	CO	89
	79113		1	24	1	1047	1503	CO	106
	79119		1	24	1	725	824	CO	128
	79119 .								
##	13123	2011	1	24	1	1451	1628	CO	137

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##	79147 20	011 1	24	1	1157	1321	CO	197
	79149 20			1	724	859	CO	199
	79154 20			1	1309	1611	CO	206
	79157 20			1	2122	2353	CO	209
	79158 20			1	1548	2000	CO	210
	79160 20			1	1023	1622	CO	212
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##	79176 20)11 1	24	1	919	1329	CO	232
##	79183 20)11 1	24	1	1322	1428	CO	241
##	79185 20)11 1	24	1	1542	1923	CO	244
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	79206 20			1	1147	1259	CO	279
	79207 20			1	735	1223	CO	282
##	79214 20)11 1	24	1	1036	1204	CO	297
##	79216 20)11 1	24	1	2109	2226	CO	299
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##	79222 20)11 1	24	1	1907	2315	CO	310
##	79226 20)11 1	24	1	1451	1642	CO	320
##	79228 20)11 1	24	1	1312	1433	CO	323
##	79230 20)11 1	24	1	1256	1631	CO	326
##	79234 20	011 1	24	1	742	1202	CO	332
##	79246 20	011 1	24	1	1042	1433	CO	358
	79254 20			1	1439	1653	CO	370
	79260 20			1	1317	1421	CO	379
	79262 20			1	1053	1530	CO	382
	79268 20			1				
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	79270 20			1	1421	1720	CO	400
	79272 20			1	1029	1155	CO	403
	79273 20			1	725	1115	CO	404
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	79277 20		24	1	750	1224	CO	408
##	79279 20)11 1	24	1	1702	2039	CO	410
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##	79284 20)11 1	24	1	1924	2050	CO	423
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##	79292 20)11 1	24	1	1854	2016	CO	442
	79293 20			1	1930	2159	CO	444
	79295 20			1	628	903	CO	446
	79300 20			1	1257	1636	CO	458
	79304 20			1	2121	2344	CO	467
	79304 20			1	1919	2021	CO	479
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##	79348	2011	1	24	1	641	1008	CO	544
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##	79359	2011	1	24	1	1615	2009	CO	558
##	79361	2011	1	24	1	936	1128	CO	559
##	79367	2011	1	24	1	1837	2103	CO	570
##	79372	2011	1	24	1	1856	2320	CO	582
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##	79382	2011	1	24	1	1429	1555	CO	599
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##	79396	2011	1	24	1	716	1103	CO	626
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##	79411	2011	1	24	1	1121	1305	CO	663
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##	79448		1	24	1	917	1051	CO	739
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	79452		1	24	1	2142	2340	CO	752
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	79457		1	24	1	1657	1805	CO	763
	79458		1	24	1	1445	1714	CO	767
	79461		1	24	1	2111	2310	CO	770
	79462		1	24	1	727	950	CO	771
	79463		1	24	1	728	1147	CO	776
	79468		1	24	1	1333	1652	CO	786
	79470		1	24	1	1013	1354	CO	788
	79472		1	24	1	1602	1748	CO	795
	79475		1	24	1	847	1008	CO	799
	79480		1	24	1	1313	1759	CO	810
	79485		1	24	1	2106	2250	CO	820
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"			_		-		- -		

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	79512 201		24	1	1448	1546	CO	1079
	79514 201		24	1	1620	1941	CO	1086
	79516 201		24	1			CO	1088
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	79518 201		24	1	2105	2242	CO	1095
##	79519 201		24	1	730	916	CO	1097
	79521 201		24	1	1903	2038	CO	1099
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	79545 201		24	1	1038	1412	CO	1448
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	79551 201		24	1	1105	1417	CO	1462
	79558 201		24	1	1024	1415	CO	1476
	79560 201		24	1	2106	2202	CO	1479
	79562 201		24	1	1936	2335	CO	1488
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	79685		1	24	1	928	1227	CO	1767
	79688		1	24	1	1923	2337	CO	1776
	79691		1	24	1	1750	1854	CO	1779
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	79695		1	24	1	1557	1714	CO	1787
	79697		1	24	1	1318	1646	CO	1790
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	79700		1	24	1	1808		CO	1795
	79709		1	24	1	1438	1615	CO	1821
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	79713		1	24	1	1926	2251	CO	1830
	79715		1	24	1	1142	1549	CO	1832
	79716		1	24	1	1244	1647	CO	1836
	79717		1	24	1	1444	1814	CO	1844
	79721		1	24	1	1320	1704	CO	1850
	79724		1	24	1	1742	1957	CO	1858
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	79738		1	23	7	926	1335	CO	1
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##	79756	2011	1	23	7	1530	1619	CO	35
##	79762	2011	1	23	7	1916	2105	CO	47
##	79765	2011	1	23	7	743	937	CO	52
##	79770	2011	1	23	7	1743	1906	CO	59
##	79771	2011	1	23	7	1206	1609	CO	60
##	79773	2011	1	23	7	1444	1901	CO	62
##	79777	2011	1	23	7	601	1015	CO	89
##	79781	2011	1	23	7	1046	1454	CO	106
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	79874		1	23	7	848	1121	CO	309
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	79882		1	23	7	1309	1417	CO	323
	79884		1	23	7	1255	1631	CO	326
	79895								
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	79910		1	23	7	1314	1429	CO	379
	79912		1	23	7	1052	1509	CO	382
	79918		1	23	7	1805	1930	CO	397
	79920		1	23	7	1314	1624	CO	400
	79922		1	23	7	1034	1158	CO	403
	79923		1	23	7	731	1106	CO	404
##	79925		1	23	7	1202	1543	CO	406
##	79927		1	23	7	805	1209	CO	408
##	79929		1	23	7	1702	2044	CO	410
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##	79934		1	23	7	1921	2303	CO	426
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##	79941	2011	1	23	7	1904	2034	CO	442
##	79942	2011	1	23	7	1922	2150	CO	444
##	79948	2011	1	23	7	1305	1640	CO	458
##	79952	2011	1	23	7	2126	2357	CO	467
##	79958	2011	1	23	7	1911	2005	CO	479
##	79961	2011	1	23	7	1304	1735	CO	482
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	79990		1	23	7	1145	1411	CO	546
	79999		1	23	7	1612	1959	CO	558
	80004		1	23	7	1754	1958	CO	570
	80009		1	23	7	1855	2314	CO	582
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##	80044	2011	1	23	7	1733	2006	CO	667
##	80047	2011	1	23	7	1914	2123	CO	670
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	80161		1	23	7	1916	2245	CO	1417
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	80213		1	23	7	1755	1844	CO	1558
	80216		1	23	7			CO	1562
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	80218		1	23	7	1846	2053	CO	1568
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	81343		1	21	5	724	1040	CO	1048
	81347		1	21	5	859	1244	CO	1058
	81350		1	21	5	1603	1825	CO	1070
	81353		1	21	5	1522	1617	CO	1079
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	81357		1	21	5	1300	1650	CD	1088
	81359		1	21	5	2102	2240	CO	1095
	81360		1	21	5	752	903	CO	1093
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	81373		1	21	5	915	1123	CO	1416
	81374		1	21	5 5	1907	2319	CO	1417
##	013/4	ZUII	1	21	Ð	1901	2319	Cu	1411

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	81674 20					2122	18	CO	209
	81675 20						2010	CO	210
	81677 20					1021	1616	CO	212
	81683 20					1021	1153	CO	220
	81689 20						1351	CO	226
	81693 20				4	916	1316	CO	232
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	81723 20						1250	CO	279
	81724 20				4	736	1154	CO	282
	81731 20					1047	1158	CO	297
пπ	O1101 Z(· · · · · · · · · · · · · · · · · · ·	- 4		-	1011	1100		201

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	81797 2		1	20	4	750	1155	CO	408
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	81804 2				4				
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	81805 2		1	20	4	1922	2314	CO	426
	81808 2		1	20	4	1048	1447	CO	432
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	81840 2		1	20	4	1150	1336	CO	499
	81841 2		1	20	4	1924	2257	CO	500
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	81917 2		1	20	4	1606	2039	CO	632
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	81929 2		1	20	4	1126	1314	CO	663
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	82039 2		1	20	4	1303	1644	CO	1088
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	82044 2		1	20	4	1912	2054	CO	1099
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	82237		1	20	4	1921	2247	CO	1830
	82239		1	20	4	1141	1549	CO	1832
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	82320		1	19	3	1333	1554	CO	146
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	82519		1	19	3	930	1148	CO	542
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	82521		1	19	3	1140	1404	CO	546
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	82570		1	19	3	1544	2012	CO	632
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	82580		1	19	3	1013	1207	CO	663
	82582		1	19	3	1726	2010	CO	667
	82585		1	19	3	1853	2102	CO	670
	82589		1	19	3	1551	2040	CO	682
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	82622		1	19	3	1447	1735	CO	767
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	83066		1	18	2	1158	1538	CO	406
	83068		1	18	2	846	1325	CO	408
	83070		1	18	2	1702	2051	CO	410
	83073		1	18	2	1746	1954	CO	421
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	83693		1	17	1	748	1212	CO	408
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	84186		1	16	7	1736	1912	CO	59
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	84189		1	16	7	1451	1853	CO	62
	84193		1	16	7	559	1015	CO	89
	84197		1	16	7	1045	1449	CO	106
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	84231		1	16	7	1209	1312	CO	197
	84233		1	16	7	556	722	CO	199
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	86951		1	12	3	1615	2009	CO	558
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	87452 2		1	11	2	742	1156	CO	332
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##	6359	N559AA	78	54	7	4	IAH	DFW	224
##	6360	N558AA	66	46	-8	1	IAH	DFW	224
##	6361	N574AA	79	51	-2	-6	IAH	DFW	224
##	6362	N471AA	63	44	-13	-1	IAH	DFW	224
	6363	N278AA	59	40	-24	-8	IAH	DFW	224
	6364	N499AA	72	47	-6	-3	IAH	DFW	224
	6365	N556AA	64	42	-21	-10	IAH	DFW	224
	6366	N545AA	93	42	29	11	IAH	DFW	224
	6367	N541AA	59	40	-17	-1	IAH	DFW	224
	6368	N512AA	68	44	-11	-4	IAH	DFW	224
	6369	N4UCAA	70	44	-10	-5	IAH	DFW	224
	6370	N403AA	65	44	11	21	IAH	DFW	224
	6371	N557AA	65	43	-10	0	IAH	DFW	224
	6372	N498AA	64	44	-15	-4	IAH	DFW	224
	6373	N493AA	58	40	-19	-2	IAH	DFW	224
	8186	N461AA	67	44	-14	-6	IAH	DFW	224
	8187	N4XGAA	69	48	-13	-7	IAH	DFW	224
	8188	N4XGAA	67	42	47	55	IAH	DFW	224
	8189	N546AA	68	44	-14	- 7	IAH	DFW	224
	8190	N485AA	68	41	-17	-10	IAH	DFW	224
	8191	N555AA	57	44	-25	- 7	IAH	DFW	224
	8192	N4WYAA	70	44	35	40	IAH	DFW	224
	8193	N577AA	64	43	13	24	IAH	DFW	224
	8194	N505AA	58	44	-29	-12	IAH	DFW	224
	8195	N555AA	58	39	- 7	10	IAH	DFW	224
	8196	N4XCAA	56	44	-4	15	IAH	DFW	224
	8197	N549AA	70	45	69	74	IAH	DFW	224
	8198	N478AA	83	42	-1	-9	IAH	DFW	224
	8199	N492AA	61	44	11	25	IAH	DFW	224
	8200	N514AA	69	44	-14	-8	IAH	DFW	224
	8201	N550AA	54	44	3	24	IAH	DFW	224
	8202	N512AA	77	45	1	-1	IAH	DFW	224
	8203	N505AA	58	45	14	31	IAH	DFW	224
	8204	N530AA	56	39	-23	-4	IAH	DFW	224
	8205	N4XJAA	56	41	19	38	IAH	DFW	224
	8206	N585AA	63	44	-13	-1	IAH	DFW	224
	8207	N403AA	54	39	-17	4	IAH	DFW	224
	8208	N506AA	51	40	10	34	IAH	DFW	224
	8209	N466AA	61	42	-20	-6	IAH	DFW	224
	8210	N455AA	93	43	12	-6	IAH	DFW	224
	8211	N477AA	93 71	43 38	-15	-11	IAH	DFW	224
	19266		65	38 37	-15 -9	-11 1	IAH		224 224
	19266	N4WVAA	83	37 46	-9 14	6	IAH	DFW DEW	
		N579AA		46 47	14 -7	-7		DFW DFW	224 224
	19268	N468AA	75				IAH	DFW	
	19269	N4WYAA	63 71	43	-13 -5	-1 -1	IAH	DFW	224
##	19270	N481AA	71	43	-5	-1	IAH	DFW	224

##	19271	N498AA	67	43	-13	-5	IAH	DFW	224
##	19272	N525AA	63	43	-12	0	IAH	DFW	224
##	19273	N583AA	69	45	-9	-3	IAH	DFW	224
##	19274	N574AA	76	50	126	125	IAH	DFW	224
##	19275	N531AA	61	41	-5	9	IAH	DFW	224
##	19276	N586AA	63	41	70	82	IAH	DFW	224
##	19277	N468AA	68	44	-6	1	IAH	DFW	224
##	19278	N583AA	63	45	-12	0	IAH	DFW	224
##	19279	N551AA	65	47	-11	-1	IAH	DFW	224
##	19280	N274AA	64	48	-9	2	IAH	DFW	224
##	19281	N558AA	71	42	34	38	IAH	DFW	224
##	19282	N580AA	72	51	-1	2	IAH	DFW	224
##	19283	N515AA	75	45	-5	-5	IAH	DFW	224
##	19284	N538AA	62	46	-14	-1	IAH	DFW	224
##	19285	N586AA	71	41	7	11	IAH	DFW	224
##	19286	N558AA	68	47	1	8	IAH	DFW	224
##	19287	N504AA	79	47	-3	-7	IAH	DFW	224
##	19288	N489AA	76	44	-7	-8	IAH	DFW	224
##	19289	N484AA	88	43	4	-9	IAH	DFW	224
	19290	N4UCAA	66	41	-12	-3	IAH	DFW	224
	19291	N556AA	71	41	0	4	IAH	DFW	224
	19292	N557AA	66	43	-5	4	IAH	DFW	224
	19293	N553AA	65	44	-15	-5	IAH	DFW	224
	19294	N584AA	61	47	-14	0	IAH	DFW	224
	19295	N403AA	58	39	-12	5	IAH	DFW	224
	19296	N455AA	62	41	13	26	IAH	DFW	224
	23655	N3DGAA	136	113	-3	1	IAH	MIA	964
	23656	N3CCAA	129	112	17	28	IAH	MIA	964
	23657	N3ARAA	131	112	-9	0	IAH	MIA	964
	23658	N3DFAA	145	108	7	2	IAH	MIA	964
	23659	N3BDAA	129	107	-15	-4	IAH	MIA	964
	23660	N3CMAA	154	106	5	-9	IAH	MIA	964
	23661	N3CYAA	131	107	-7	2	IAH	MIA	964
	23662	N3AXAA	131	107	-15	-6	IAH	MIA	964
	23663	N3AUAA	133	110	8	15	IAH	MIA	964
	23664	N3BXAA	121	107	80	99	IAH	MIA	964
	23665	N3CWAA	128	111	41	53	IAH	MIA	964
	23666	N3DFAA	134	117	-13	-7	IAH	MIA	964
	23667	N3DLAA	159	110	12	-7	IAH	MIA	964
	23668	N3CUAA	127	110	-14	-1	IAH		964
	23669	N3AXAA	130	111	-16	-6	IAH	MIA	964
	23670	N3CXAA	150	113	22	12	IAH	MIA	964
	23671	N3CEAA	138	117	6	8	IAH	MIA	964
	23672	N3BLAA	135	114	39	44	IAH	MIA	964
	23673	N3CWAA	132	110	-12	-4	IAH	MIA	964
	23674	N3CWAA	144	111	-1	-5	IAH	MIA	964
	23675	N3BCAA	135	110	18	23	IAH	MIA	964
	23676	NSBYAA	125	109	-20	-5	IAH	MIA	964
	23677	NSDCAA	140	107	-2	-2	IAH	MIA	964
	23678	NSGJAA	138	113	31	33	IAH	MIA	964
	23679	NSBFAA	148	129	3	-5	IAH	MIA	964
	23680	NSBXAA	126	111	56	70	IAH	MIA	964
	23681	N3CFAA	137	106	14	17	IAH	MIA	964
	23682	N3CFAA N3BLAA	138	108	-7	-5	IAH	MIA	964
##	23002	NODLAA	138	100	-7	-5	TAU	PLLA	904

##	23683	N3BXAA	129	105	-13	-2	IAH	MIA	964
##	23684	N3CPAA	133	108	54	61	IAH	MIA	964
##	23685	N3DJAA	124	104	-14	2	IAH	MIA	964
##	27063	N480AA	66	44	-12	-3	IAH	DFW	224
##	27064	N497AA	60	43	5	20	IAH	DFW	224
##	27065	N548AA	63	40	-6	6	IAH	DFW	224
##	27066	N4WUAA	68	42	-10	-3	IAH	DFW	224
##	27067	N531AA	68	40	-13	-6	IAH	DFW	224
##	27068	N591AA	92	45	48	31	IAH	DFW	224
##	27069	N425AA	64	42	-20	-9	IAH	DFW	224
##	27070	N499AA	60	41	-16	-1	IAH	DFW	224
##	27071	N251AA	75	45	-3	-3	IAH	DFW	224
##	27072	N552AA	69	45	-13	-7	IAH	DFW	224
##	27073	N545AA	70	49	15	20	IAH	DFW	224
##	27074	N262AA	67	42	5	13	IAH	DFW	224
##	27075	N474AA	72	45	3	6	IAH	DFW	224
	27076	N4XJAA	71	42	-7	-3	IAH	DFW	224
	27077	N538AA	79	50	12	8	IAH	DFW	224
	27078	N567AA	65	42	-8	2	IAH	DFW	224
	27079	N485AA	66	38	-18	-9	IAH	DFW	224
	27080	N486AA	68	44	-7	0	IAH	DFW	224
	27081	N499AA	63	46	-14	-2	IAH	DFW	224
	27082	N425AA	65	44	-13	-3	IAH	DFW	224
	27083	N517AA	73	44	29	31	IAH	DFW	224
	33051	N3DAAA	155	117	7	-8	IAH	MIA	964
	33052	N3ASAA	133	112	-19	-12	IAH	MIA	964
	33053	N3CBAA	125	111	-17	-2	IAH	MIA	964
	33054	N3BAAA	127	109	-7	6	IAH	MIA	964
	33055	N3CDAA	130	108	-9	1	IAH	MIA	964
	33056	N3CUAA	122	105	-18	0	IAH	MIA	964
	33057	N3BCAA	126	107	-24	-10	IAH	MIA	964
	33058	NSAHAA	125	106	-16	-1	IAH	MIA	964
	33059	N3CPAA	129	110	-2	9	IAH	MIA	964
	33060	NSAKAA	156	132	34	18	IAH	MIA	964
	33061	NSALAA	140	115	74	74	IAH	MIA	964
	33062	NSBJAA	128	113	-13	-1	IAH	MIA	964
	33063	NSBCAA	128	108	-14	-2	IAH	MIA	964
	33064	NSAUAA	123	110	-13	4	IAH	MIA	964
	33065	NSDEAA	138	114	0	2	IAH	MIA	964
	33066	NSBJAA	131	118	-8	1	IAH		964
	33067	NSBUAA	133	113	-8	-1	IAH	MIA	964
	33068	NSARAA	135	118	-8	-3	IAH	MIA	964
	33069	NSBXAA	135	114	-9	-4	IAH	MIA	964
	33070	NSCKAA	130	107	-15	-5	IAH	MIA	964
	33071	NSAPAA	128	110	-15	-3	IAH	MIA	964
	33072	N3CPAA	139	112	5	6	IAH	MIA	964
	33073	N3CNAA	135	108	-13	-8	IAH	MIA	964
	33073	NSBGAA	NA	NA	NA	NA	IAH	MIA	964
	33075		134	112	14	20	IAH	MIA	964
		N3BFAA	134				IAH	MIA	964
	33076	NSBLAA		110	-11 -5	-5 -3			
	33077	NSAJAA	138	108 104	-5 -22	-3	IAH	MIA	964 964
	33078	NSDDAA	118			0	IAH	MIA	
	33079	NSFYAA	131	108	-14 -16	-5 -1	IAH	MIA	964
##	33080	N3DCAA	125	106	-16	-1	IAH	MIA	964

	33081	N3FRAA	143	100	-4	-7	IAH	MIA	964
	35256	N593AA	74	39	15	6	IAH	DFW	224
	35257	N589AA	63	47	-7	-5	IAH	DFW	224
	35258	N4XPAA	64	46	-2	-1	IAH	DFW	224
	35259	N565AA	73	41	9	1	IAH	DFW	224
	35260	N560AA	66	44	1	0	IAH	DFW	224
	35261	N563AA	66	41	0	-1	IAH	DFW	224
	35262	N4YRAA	72	43	6	-1	IAH	DFW	224
	35263	N4YTAA	66	39	-2	-3	IAH	DFW	224
	35264	N4XCAA	NA	NA	NA	NA	IAH	DFW	224
	35265	N598AA	72	43	19	12	IAH	DFW	224
	35266	N563AA	65	42	0	0	IAH	DFW	224
	35267	N593AA	59	41	-5	1	IAH	DFW	224
	35268	N4WAAA	66	46	1	0	IAH	DFW	224
	35269	N566AA	70	49	5	0	IAH	DFW	224
	35270	N476AA	67	52	19	17	IAH	DFW	224
##	35271	N599AA	61	42	-4	0	IAH	DFW	224
	35272	N4WXAA	77	49	12	0	IAH	DFW	224
##	35273	N4WRAA	59	43	24	30	IAH	DFW	224
	35274	N4YDAA	67	44	1	-1	IAH	DFW	224
##	35275	N202AA	70	44	14	9	IAH	DFW	224
##	35276	N433AA	66	44	2	1	IAH	DFW	224
##	35277	N546AA	72	50	2	-5	IAH	DFW	224
##	35278	N436AA	51	39	-2	12	IAH	DFW	224
##	35279	N434AA	66	43	8	7	IAH	DFW	224
	35280	N4WDAA	60	40	-11	-6	IAH	DFW	224
	35281	N594AA	75	46	4	-6	IAH	DFW	224
##	35282	N569AA	72	43	1	-6	IAH	DFW	224
##	35283	N435AA	63	47	48	50	IAH	DFW	224
##	35284	N592AA	66	44	-8	-9	IAH	DFW	224
##	35285	N589AA	80	41	9	-6	IAH	DFW	224
##	35286	N511AA	72	42	7	0	IAH	DFW	224
##	35375	N569AA	71	45	-7	-3	IAH	DFW	224
##	35376	N4YUAA	68	43	-15	-8	IAH	DFW	224
##	35377	N568AA	72	41	25	28	IAH	DFW	224
##	35378	N4YAAA	62	41	-18	-5	IAH	DFW	224
##	35379	N568AA	69	44	-13	-7	IAH	DFW	224
##	35380	N459AA	71	47	16	20	IAH	DFW	224
##	35381	N4YDAA	80	45	-2	-7	IAH	DFW	224
##	35382	N599AA	77	44	-5	-7	IAH	DFW	224
##	35383	N588AA	69	46	-12	-6	IAH	DFW	224
##	39453	N3BBAA	129	113	-9	-3	IAH	MIA	964
##	39454	N3DCAA	138	115	-3	-6	IAH	MIA	964
	39455	N3CMAA	130	111	-10	-5	IAH	MIA	964
##	39456	N3CWAA	145	115	8	-2	IAH	MIA	964
##	39457	N3DFAA	139	111	-1	-5	IAH	MIA	964
##	39458	N3AJAA	128	107	-7	0	IAH	MIA	964
##	39459	N3DDAA	129	108	-10	-4	IAH	MIA	964
##	39460	N3DAAA	132	105	-5	-2	IAH	MIA	964
##	39461	N3CYAA	133	111	-4	-2	IAH	MIA	964
##	39462	NSAUAA	135	111	5	5	IAH	MIA	964
##	39463	N3DLAA	NA	NA	NA	-7	IAH	MIA	964
##	39464	N3BDAA	132	112	-12	-9	IAH	MIA	964
##	39465	N3AGAA	125	109	23	33	IAH	MIA	964

##	39466	N3DLAA	132	112	-5	-2	IAH	MIA	964
##	39467	N3DJAA	130	114	-10	-5	IAH	MIA	964
##	39468	NSAHAA	125	112	-5	5	IAH	MIA	964
##	39469	NSAXAA	167	143	28	-4	IAH	MIA	964
##	39470	N3DFAA	136	112	-4	-5	IAH	MIA	964
	39471	N3BVAA	147	124	6	-6	IAH	MIA	964
##	39472	N3FTAA	136	110	-3	-4	IAH	MIA	964
##	39473	N3CJAA	134	114	-8	-7	IAH	MIA	964
	39474	N3BFAA	137	118	-8	-10	IAH	MIA	964
	39475	N3BCAA	128	110	-15	-8	IAH	MIA	964
	39476	N3CCAA	133	111	-9	-7	IAH	MIA	964
	39477	NSAMAA	138	111	1	-2	IAH	MIA	964
##	39478	N3DJAA	132	112	-8	-5	IAH	MIA	964
##	39479	N3DEAA	129	112	0	6	IAH	MIA	964
##	39480	N3FYAA	131	111	-10	-6	IAH	MIA	964
##	39481	N3AKAA	132	107	-11	-8	IAH	MIA	964
##	39482	N3ARAA	137	111	-5	-7	IAH	MIA	964
##	39483	N3BTAA	121	106	-18	-4	IAH	MIA	964
##	46433	N614AS	282	255	-4	-1	IAH	SEA	1874
##	46788	N627AS	280	257	-7	-2	IAH	SEA	1874
##	47191	N627AS	280	260	-3	2	IAH	SEA	1874
##	47585	N618AS	287	268	22	20	IAH	SEA	1874
##	47933	N607AS	288	273	-1	-4	IAH	SEA	1874
##	48343	N624AS	299	278	23	9	IAH	SEA	1874
##	48672	N611AS	295	274	8	-2	IAH	SEA	1874
##	49014	N607AS	290	269	2	-3	IAH	SEA	1874
##	49394	N609AS	290	253	78	73	IAH	SEA	1874
##	49788	N626AS	339	315	49	-5	IAH	SEA	1874
##	50174	N626AS	NA	NA	NA	-5	IAH	SEA	1874
##	50499	N619AS	307	284	19	-3	IAH	SEA	1874
##	50905	N627AS	293	273	3	-5	IAH	SEA	1874
##	51270	N627AS	296	270	4	-7	IAH	SEA	1874
##	51599	N627AS	309	287	21	-3	IAH	SEA	1874
##	51976	N627AS	316	291	28	-3	IAH	SEA	1874
##	52351	N612AS	331	310	39	-7	IAH	SEA	1874
##	52723	N617AS	294	276	20	11	IAH	SEA	1874
##	53076	N622AS	282	265	-8	-5	IAH	SEA	1874
##	53497	N622AS	313	284	25	-3	IAH	SEA	1874
##	53832	N622AS	309	288	26	2	IAH	SEA	1874
##	54167	N644AS	284	269	-10	-9	IAH	SEA	1874
##	54534	N624AS	286	269	-6	-7	IAH	SEA	1874
##	54947	N644AS	285	251	-1	-1	IAH	SEA	1874
##	55324	N607AS	275	255	-9	1	IAH	SEA	1874
##	55688	N607AS	285	255	5	5	IAH	SEA	1874
##	56057	N627AS	278	262	0	7	IAH	SEA	1874
##	56410	N627AS	271	256	-18	-4	IAH	SEA	1874
##	56750	N627AS	261	246	-28	-4	IAH	SEA	1874
##	57125	N627AS	307	264	18	-4	IAH	SEA	1874
##	57472	N607AS	284	259	1	2	IAH	SEA	1874
##	57719	N324JB	210	181	5	-6	HOU	JFK	1428
##	57720	N324JB	211	188	61	54	HOU	JFK	1428
##	58343	N324JB	190	172	-6	3	HOU	JFK	1428
##	58344	N324JB	216	176	31	19	HOU	JFK	1428
##	58983	N229JB	181	166	-19	-1	HOU	JFK	1428

##	58984	N206JB	179	165	111	136	HOU	JFK	1428
##	59614	N267JB	189	168	-16	-6	HOU	JFK	1428
##	59615	N267JB	206	175	25	23	HOU	JFK	1428
##	60195	N708JB	183	167	-14	0	HOU	JFK	1428
##	60196	N644JB	190	166	-6	9	HOU	JFK	1428
##	60734	N641JB	191	175	-17	-3	HOU	JFK	1428
##	61317	N641JB	203	172	0	-6	HOU	JFK	1428
##	61318	N564JB	194	175	-4	7	HOU	JFK	1428
##	61875	N630JB	184	162	-19	-6	HOU	JFK	1428
##	62403	N599JB	186	163	-18	-7	HOU	JFK	1428
##	62404	N625JB	219	196	57	43	HOU	JFK	1428
##	62989	N625JB	186	166	-15	-4	HOU	JFK	1428
##	62990	N504JB	187	170	1	19	HOU	JFK	1428
##	63545	N504JB	180	161	-24	-7	HOU	JFK	1428
##	63546	N537JB	NA	NA	NA	NA	HOU	JFK	1428
##	64043	N504JB	201	177	-7	-3	HOU	JFK	1428
##	64557	N597JB	196	178	-22	-13	HOU	JFK	1428
	65133	N597JB	201	185	72	68	HOU	JFK	1428
##	65134	N729JB	221	189	15	-1	HOU	JFK	1428
	65685	N503JB	194	173	-3	0	HOU	JFK	1428
##	66204	N706JB	183	166	-22	-8	HOU	JFK	1428
	66205	N565JB	193	176	4	16	HOU	JFK	1428
##	66785	N523JB	185	168	18	30	HOU	JFK	1428
##	66786	N779JB	195	173	-14	-4	HOU	JFK	1428
##	67336	N779JB	183	162	-15	-1	HOU	JFK	1428
##	67337	N729JB	189	164	56	72	HOU	JFK	1428
##	67826	N504JB	NA	NA	NA	NA	HOU	JFK	1428
##	68334	N760JB	194	161	-8	3	HOU	JFK	1428
##	68906	N760JB	188	164	-13	-4	HOU	JFK	1428
##	68907	N598JB	190	173	95	110	HOU	JFK	1428
##	69454	N527JB	185	161	-11	1	HOU	JFK	1428
	69966	N580JB	180	162	-19	-2	HOU	JFK	1428
	69967	N599JB	178	164	-27	0	HOU	JFK	1428
	70541	N605JB	172	156	-18	7	HOU	JFK	1428
##	70542	N536JB	171	156	-37	-3	HOU	JFK	1428
##	71084	N589JB	184	162	-15	-2	HOU	JFK	1428
	71085	N621JB	186	167	29	48	HOU	JFK	1428
	71571	N659JB	186	165	-19	0	HOU	JFK	1428
	72078	N569JB	NA	NA	NA	NA	HOU	JFK	1428
	72650	N594JB	192	172	-10	-5	HOU	JFK	1428
	72651	N655JB	215	196	13	3	HOU	JFK	1428
	73198	N508JB	211	180	11	-3	HOU	JFK	1428
	73710	N606JB	195	175	-11	-9	HOU	JFK	1428
	73711	N606JB	199	176	78	84	HOU	JFK	1428
	74284	N661JB	192	172	-6	-1	HOU	JFK	1428
	74285	N629JB	190	169	-18	-3	HOU	JFK	1428
	74650	N69063	529	492	23	-1	IAH	HNL	3904
	74655	N17245	60	42	-9	0	IAH	MSY	305
	74656	N77520	56	40	-5	-1	IAH	SAT	191
	74665	N16647	70	42	-2	-3	IAH	MSY	305
	74667	N35204	59	32	7	1	IAH	AUS	140
	74675	N76522	227	199	2	6	IAH	LAX	1379
	74678	N67134	229	201	5	2	IAH	LAX	1379
##	74683	N57870	144	116	15	28	IAH	DEN	862

##	74684	N68159	205	165	-2	1	IAH	EWR	1400
##	74686	N17126	203	163	-9	0	IAH	EWR	1400
	74691	N76529	195	175	2	7	IAH	EWR	1400
##	74695	N66051	188	162	-26	-4	IAH	EWR	1400
##	74701	N75436	88	49	18	-2	IAH	MSY	305
##	74705	N73283	236	199	14	5	IAH	LAX	1379
##	74706	N57862	145	114	64	77	IAH	ORD	925
##	74709	N34282	211	189	6	15	IAH	ONT	1334
##	74712	N13750	180	142	7	-3	IAH	DCA	1208
##	74717	N35407	241	225	-27	1	IAH	SF0	1635
##	74724	N35260	132	107	-12	-1	IAH	MIA	964
##	74729	N75853	209	172	3	0	IAH	LAS	1222
##	74731	N14228	169	128	8	1	IAH	DEN	862
##	74736	N39418	115	91	-10	-1	IAH	TPA	787
##	74739	N24715	268	256	-15	-7	IAH	PDX	1825
##	74740	N37408	198	166	-15	1	IAH	EWR	1400
##	74742	N53441	237	215	-4	9	IAH	SJU	2007
##	74748	N33132	206	161	32	7	IAH	PHX	1009
##	74754	N19621	181	161	2	0	IAH	BWI	1235
##	74758	N33266	200	165	-15	-4	IAH	LGA	1416
##	74765	N14629	55	27	-2	-4	IAH	AUS	140
##	74767	N37274	144	121	-16	9	IAH	CLE	1091
##	74770	N59630	141	121	-18	0	IAH	RDU	1043
##	74777	N77520	173	145	-1	-3	IAH	DCA	1208
##	74781	N45440	286	263	7	5	IAH	SEA	1874
	74784	N37420	262	228	1	4	IAH	SFO	1635
##	74785	N14242	146	122	16	25	IAH	DEN	862
##	74788	N37274	70	45	4	0	IAH	SAT	191
##	74789	N79279	225	195	4	0	IAH	BOS	1597
	74796	N27421	215	190	13	11	IAH	LAS	1222
	74798	N17244	134	119	-10	8	IAH	DEN	862
##	74803	N33294	283	254	8	4	IAH	PDX	1825
	74804	N77867	193	164	33	49	IAH	EWR	1400
	74808	N39416	192	159	12	1	IAH	PHX	1009
	74810	N36207	61	44	-10	-3	IAH	MSY	305
	74812	N38257	160	143	-16	-2	IAH	BWI	1235
	74816	N73276	215	177	4	-3	IAH	LGA	1416
	74828	N39728	167	146	-5	-2	IAH	DCA	1208
##	74836	N27213	264	229	5	7	IAH	SFO	1635
	74842	N19638	60	39	-2	0	IAH	SAT	191
	74844	N36272	219	188	-5	-3	IAH	BOS	1597
	74850	N33286	200	182	20	28	IAH	LAS	1222
	74852	N39415	147	109	6	1	IAH	IND	845
	74854	N35271	212	194	-1	1	IAH	SAN	1303
	74855	N78501	172	146	-5	-5	IAH	IAD	1190
	74857	N73270	179	143	3	-4	IAH	IAD	1190
	74859	N66056	207	170	1	-1	IAH	EWR	1400
	74861	N73299	155	138	-19	-2	IAH	IAD	1190
	74864	N37298	247	231	80	91	IAH	SJC	1609
	74866	N33266	62	41	-8	-1	IAH	MSY	305
	74867	N78506	165	143	-12	-1	IAH	BWI	1235
	74870	N16713	198	169	1	4	IAH	LGA	1416
	74874	- /	NA	NA	NA	NA	IAH	TUL	429
	74875	N76514	157	117	3	5	IAH	ORD	925
	0.0		101		J	J		2100	020

	74877	N26208	144	117	-16	-6	IAH	ORD	925
	74882	N17233	168	149	-7	-5	IAH	DCA	1208
	74886	N78285	296	276	58	42	IAH	SEA	1874
	74892	N16217	60	43	-8	-2	IAH	SAT	191
	74895	N78509	221	190	-3	0	IAH	BOS	1597
##	74900	N74856	230	187	23	1	IAH	LAS	1222
##	74902	N37267	159	127	2	-2	IAH	DEN	862
##	74903		NA	NA	NA	NA	IAH	IND	845
	74909	N38268	207	183	2	0	IAH	EWR	1400
##	74910	N77520	81	60	5	1	IAH	MFE	316
##	74916	N75432	181	161	-2	-2	IAH	PHX	1009
##	74923	N76269	225	178	22	2	IAH	LGA	1416
##	74924	N79402	150	125	-16	-3	IAH	PIT	1117
##	74929	N75436	195	174	2	4	IAH	SLC	1195
##	74930	N13624	163	136	-8	-7	IAH	CLE	1091
##	74931	N77518	155	116	-1	1	IAH	ORD	925
##	74941	N16709	164	143	-11	-4	IAH	DCA	1208
##	74943	N76515	243	202	15	2	IAH	SNA	1347
##	74949	N75436	253	236	-4	3	IAH	SF0	1635
##	74954	N19621	211	188	-1	6	IAH	BOS	1597
##	74956	N17126	132	102	-7	-5	IAH	MCO	853
##	74962	N33203	200	179	-10	0	IAH	LAS	1222
##	74964	N57864	159	124	6	3	IAH	DEN	862
##	74966	N26208	183	131	36	9	IAH	DEN	862
##	74968	N77510	113	90	-11	0	IAH	TPA	787
##	74971	N33294	175	139	24	20	IAH	MSP	1034
##	74975	N77261	73	44	5	-1	IAH	MSY	305
##	74978	N16647	169	154	-17	-6	IAH	BWI	1235
##	74981	N12238	185	166	-25	-2	IAH	LGA	1416
##	74985	N37267	137	116	-3	22	IAH	CLE	1091
##	74990	N37273	153	128	-6	10	IAH	DCA	1208
##	74993	N14115	215	195	33	-5	IAH	EGE	935
##	74994	N57869	266	249	0	12	IAH	SEA	1874
##	75001	N78501	202	180	-25	0	IAH	BOS	1597
##	75004	N56859	134	105	0	-1	IAH	MCO	853
##	75010	N37293	230	191	20	0	IAH	LAS	1222
##	75014	N23708	115	92	-11	-1	IAH	TPA	787
##	75015	N37409	263	245	-13	2	IAH	PDX	1825
##	75018	N77510	63	44	-8	-5	IAH	MSY	305
##	75025	N33262	189	157	44	50	IAH	LGA	1416
##	75029	N38403	210	194	-3	-1	IAH	SAN	1303
##	75030	N75432	232	193	16	1	IAH	SAN	1303
##	75031	N37290	57	32	0	-1	IAH	AUS	140
##	75032	N76254	158	125	-7	-2	IAH	CLE	1091
##	75033	N78524	149	114	-8	3	IAH	ORD	925
	75034	N73278	212	189	10	-2	IAH	SLC	1195
##	75036	N11641	114	89	-10	-1	IAH	ATL	689
##	75039	N73291	55	42	-15	-2	IAH	MSY	305
	75040	N37422	291	255	12	5	IAH	SEA	1874
	75043	N37281	235	224	24	50	IAH	SFO	1635
	75044	N26226	273	237	2	-1	IAH	SF0	1635
	75045	N37252	183	155	-11	-3	IAH	PHL	1324
	75050	N75851	127	105	6	12	IAH	MCO	853
	75052	N46625	159	132	-12	-4	IAH	DTW	1076

	75054	N76502	226	198	8	10	IAH	LAX	1379
	75057	N57855	165	133	0	-3	IAH	DEN	862
##	75062	N78003	200	168	-4	1	IAH	EWR	1400
	75067	N37255	186	158	19	10	IAH	PHX	1009
##	75073	N18220	105	89	-2	17	IAH	TPA	787
##	75074	N73259	186	161	-9	15	IAH	EWR	1400
##	75083	N79402	123	106	-4	25	IAH	ORD	925
##	75084	N73283	135	107	-8	0	IAH	FLL	965
##	75088	N24702	170	149	-7	-2	IAH	DCA	1208
##	75091	N73406	254	231	-8	-2	IAH	SF0	1635
##	75094	N14230	71	40	10	1	IAH	SAT	191
##	75096	N57855	122	100	97	114	IAH	MCO	853
##	75098	N14219	167	127	3	4	IAH	DTW	1076
##	75100	N73270	220	201	7	12	IAH	LAX	1379
##	75101	N14231	224	192	14	-3	IAH	LAS	1222
##	75103	N75858	144	121	-9	-1	IAH	DEN	862
##	75112	N14604	53	31	-9	-5	IAH	AUS	140
##	75114	N33262	255	238	15	19	IAH	SJC	1609
##	75115	N46625	145	126	-32	-2	IAH	PIT	1117
##	75119	N62631	74	42	4	-4	IAH	MSY	305
##	75121	N11641	131	113	-15	0	IAH	CLT	913
##	75127	N75429	136	108	-16	-5	IAH	FLL	965
##	75131	N87513	222	201	2	3	IAH	SNA	1347
##	75133	N16617	126	98	-25	-8	IAH	RSW	861
##	75140	N76503	191	158	-1	0	IAH	PHL	1324
##	75142	N33264	52	37	-7	1	IAH	SAT	191
##	75144	N16701	149	121	-24	-2	IAH	DTW	1076
##	75147	N77867	236	195	5	-5	IAH	LAX	1379
##	75149	N75425	203	181	-10	-1	IAH	LAS	1222
##	75150	N77295	157	138	-13	0	IAH	DCA	1208
##	75154	N35407	102	89	-24	0	IAH	TPA	787
##	75156	N14704	226	203	-9	-3	IAH	SNA	1347
##	75161	N72405	62	30	20	13	IAH	AUS	140
##	75163	N16646	65	30	15	4	IAH	AUS	140
##	75164	N14613	147	128	5	24	IAH	CLE	1091
##	75166	N37253	137	114	-17	3	IAH	ORD	925
##	75168	N32404	123	106	-24	-3	IAH	FLL	965
##	75175	N76516	124	101	27	33	IAH	RSW	861
##	75177	N17627	113	87	-16	-3	IAH	MCI	643
##	75184	N36207	66	32	10	0	IAH	AUS	140
##	75186	N75428	122	103	-9	6	IAH	MCO	853
##	75188	N34222	224	189	21	12	IAH	SAN	1303
##	75189	N27213	133	106	-12	-2	IAH	MIA	964
##	75196	N77525	50	29	-8	-2	IAH	AUS	140
	75197	N37255	240	207	18	3	IAH	LAX	1379
##	75204	N75433	191	163	11	4	IAH	PHX	1009
##	75205	N16701	78	58	1	3	IAH	MFE	316
##	75206	N38727	59	42	-9	0	IAH	MSY	305
	75208	N39726	220	198	-11	-4	IAH	SNA	1347
##	75209	N24702	178	161	-19	0	IAH	LGA	1416
##	75212	N18622	74	55	-4	0	IAH	MFE	316
	75213	N76504	232	217	-13	10	IAH	SMF	1609
##	75215	N37409	142	116	-12	-1	IAH	ORD	925
##	75216	N37252	126	106	-21	-1	IAH	FLL	965

##	75220	N17229	122	97	-9	0	IAH	RSW	861
	75223	N17229 N16646	137	109	12	8	IAH	ELP	667
	75224	N36280	188	159	-1	3	IAH	PHL	1324
	75227	N14219	75	39	-2	-12	IAH	SAT	191
	75232	N27610	158	128	-17	-2	IAH	DTW	1076
	75233	N12225	214	192	6	12	IAH	SAN	1303
	75234	N77295	131	105	-22	-5	IAH	MIA	964
	75238	N26210	253	212	32	10	IAH	LAX	1379
	75243	N16649	81	56	-1	-3	IAH	MFE	316
	75248	1110010	NA	NA	NA	NA	IAH	OKC	395
	75250	N37273	273	235	8	-4	IAH	SMF	1609
	75251	N19638	148	120	-4	-2	IAH	ABQ	744
	75252	N77296	220	194	20	13	IAH	SAN	1303
	75254	N77296	217	202	-3	-2	IAH	ONT	1334
	75259	N35204	159	117	32	28	IAH	ORD	925
	75260	N75433	129	108	-11	6	IAH	FLL	965
	75262	N18622	127	85	0	2	IAH	ATL	689
	75267	N87513	293	266	19	10	IAH	SEA	1874
	75270	N76503	172	142	-10	11	IAH	PHL	1324
	75273	N37277	53	35	-5	3	IAH	SAT	191
##	75274	N18223	185	154	11	2	IAH	TUS	936
##	75277	N18223	61	41	2	13	IAH	DFW	224
##	75279	N37281	126	105	-17	-3	IAH	MIA	964
##	75282	N73860	229	200	6	4	IAH	LAX	1379
##	75291	N14731	237	199	14	7	IAH	SNA	1347
##	75292	N16646	69	42	-3	-3	IAH	MSY	305
##	75295	N39423	127	103	-18	-3	IAH	PBI	956
##	75297	N78285	192	172	-13	0	IAH	LGA	1416
	75298	N73278	185	153	-9	2	IAH	PHL	1324
	75299	N24706	165	128	-4	-3	IAH	CLE	1091
	75303	N19623	143	121	-4	10	IAH	RDU	1043
	75306	N26226	130	104	-6	-1	IAH	OMA	781
	75310	N14242	133	101	-11	-6	IAH	MCO	853
	75312	N17620	160	140	-13	9	IAH	HDN	986
	75315	N21723	250	228	6	17	IAH	SMF	1609
	75320	N76064	525	493	20	0	IAH	HNL	3904
	75325	N35271	61	43	-4	4	IAH	MSY	305
	75326	N17627	61	38	-4	-5	IAH	SAT	191
	75336	N17620	61	43	-8	0	IAH	MSY	305
	75338	N16649	61	32	5	-3	IAH	AUS	140
	75344	N77520	251	203	23	3	IAH	LAX	1379
	75347 75352	N13113	239	201 120	22 21	9 21	IAH IAH	LAX DEN	1379 862
	75352	N57862 N76156	157 197	171	-11	0	IAH	EWR	1400
	75355	N19130	188	164	-6	18	IAH	EWR	1400
	75359	N26215	194	171	2	0	IAH	EWR	1400
	75363	N67058	209	167	13	6	IAH	EWR	1400
	75368	N54711	67	40	5	6	IAH	MSY	305
	75372	N18223	209	185	-5	13	IAH	LAX	1379
	75374	N57855	172	119	7	-7	IAH	ORD	925
	75377	N37281	204	188	15	31	IAH	ONT	1334
	75380	N33714	168	147	-1	1	IAH	DCA	1208
	75385	N57439	268	230	49	45	IAH	SF0	1635
	75392	N37267	136	107	-7	0	IAH	MIA	964
			_00		•	•			-

	75397	N57863	206	162	10	5	IAH	LAS	1222
	75399	N14250	138	119	-20	-1	IAH	DEN	862
	75402	N37434	121	93	2	5	IAH	TPA	787
	75404	N15710	259	244	20	37	IAH	PDX	1825
	75405	N79402	206	169	9	17	IAH	EWR	1400
	75407	N53441	233	212	-5	7	IAH	SJU	2007
	75412	N29124	181	153	0	-5	IAH	PHX	1009
##	75417	N14613	185	153	15	4	IAH	BWI	1235
	75421	N77510	196	172	-7	3	IAH	LGA	1416
##	75427	N14645	64	31	10	-1	IAH	AUS	140
##	75429	N16647	168	136	9	10	IAH	CLE	1091
	75432	N73259	156	126	-1	-2	IAH	RDU	1043
##	75441	N27205	264	241	-19	1	IAH	SEA	1874
##	75444	N75428	256	227	14	18	IAH	SF0	1635
	75445	N37252	142	121	-13	0	IAH	DEN	862
##	75446	N38257	64	39	2	-1	IAH	SAT	191
##	75451	N75426	193	175	-15	0	IAH	LAS	1222
##	75452	N12225	169	119	35	18	IAH	DEN	862
##	75456	N77520	256	239	-20	-2	IAH	PDX	1825
##	75457	N57869	220	161	36	25	IAH	EWR	1400
##	75462	N78438	169	152	-9	3	IAH	PHX	1009
##	75464	N33262	70	43	2	0	IAH	MSY	305
##	75466	N12225	177	144	18	15	IAH	BWI	1235
##	75477	N23721	176	127	14	-5	IAH	GUC	886
##	75480	N37274	175	139	6	-4	IAH	DCA	1208
##	75487	N14231	256	233	24	34	IAH	SF0	1635
##	75492	N14604	69	36	3	-4	IAH	SAT	191
##	75494	N76269	212	190	-8	-4	IAH	BOS	1597
##	75500	N37287	219	179	10	-1	IAH	LAS	1222
##	75502	N19638	144	103	-1	0	IAH	IND	845
##	75504	N14230	212	190	-1	-4	IAH	SAN	1303
##	75505	N37252	152	135	-28	-8	IAH	IAD	1190
##	75507	N18243	190	144	15	-3	IAH	IAD	1190
##	75509	N76062	204	180	2	-5	IAH	EWR	1400
##	75511	N73270	164	145	-5	3	IAH	IAD	1190
##	75513	N36280	273	231	48	33	IAH	SJC	1609
##	75515	N16632	84	40	54	39	IAH	MSY	305
##	75516	N17245	196	151	29	9	IAH	BWI	1235
##	75519	N13750	206	171	8	-2	IAH	LGA	1416
##	75523	N16646	109	64	22	0	IAH	TUL	429
##	75524	N27421	180	142	31	10	IAH	ORD	925
##	75530	N33284	169	144	-1	0	IAH	DCA	1208
##	75534	N75428	269	249	15	26	IAH	SEA	1874
##	75540	N73276	80	37	16	2	IAH	SAT	191
##	75543	N77525	232	185	22	14	IAH	BOS	1597
	75548	N75858	196	170	-1	6	IAH	LAS	1222
	75550	N12221	160	114	11	1	IAH	DEN	862
	75551	N79521	164	113	28	9	IAH	IND	845
	75555	N75425	204	172	7	0	IAH	EWR	1400
	75556	N54711	66	53	0	11	IAH	MFE	316
	75559	N47414	186	159	13	8	IAH	PHX	1009
	75565	N35260	179	163	4	30	IAH	LGA	1416
	75566	N37409	175	143	14	2	IAH	PIT	1117
	75570	N79279	179	155	-17	-4	IAH	SLC	1195

##	75571	N18622	159	135	-10	-10	IAH	CLE	1091
##	75572	N11206	182	127	27	-3	IAH	ORD	925
##	75581	N21723	172	146	-5	-6	IAH	DCA	1208
##	75586	N35407	262	232	6	4	IAH	SF0	1635
##	75591	N16642	254	198	50	14	IAH	BOS	1597
##	75592	N19130	119	99	5	15	IAH	MCO	853
##	75598	N36444	209	178	1	2	IAH	LAS	1222
##	75600	N74856	140	118	-20	-4	IAH	DEN	862
##	75602	N76529	159	118	11	8	IAH	DEN	862
##	75604	N76523	113	93	-12	-1	IAH	TPA	787
##	75607	N18220	185	145	14	0	IAH	MSP	1034
##	75611	N36272	65	42	-4	-2	IAH	MSY	305
##	75615	N76522	190	169	-15	3	IAH	LGA	1416
##	75618	N12221	180	131	44	26	IAH	CLE	1091
##	75622	N37274	172	144	6	3	IAH	DCA	1208
##	75625	N13110	172	147	-1	-1	IAH	EGE	935
##	75626	N75851	264	239	5	19	IAH	SEA	1874
##	75629	N76504	268	228	41	41	IAH	SF0	1635
##	75634	N26215	217	194	-7	3	IAH	BOS	1597
##	75637	N75851	142	101	13	-1	IAH	MCO	853
##	75642	N38403	198	177	0	12	IAH	LAS	1222
##	75646	N32404	303	255	26	1	IAH	PDX	1825
##	75649	N78524	61	43	-3	-3	IAH	MSY	305
##	75656	N36272	200	170	19	14	IAH	LGA	1416
##	75659	N76515	209	190	-4	-1	IAH	SAN	1303
##	75660	N47414	207	185	-5	0	IAH	SAN	1303
##	75661	N76523	70	30	15	-4	IAH	AUS	140
##	75662	N16709	172	128	19	10	IAH	CLE	1091
##	75663	N87527	152	120	22	30	IAH	ORD	925
##	75664	N37298	191	167	-13	-4	IAH	SLC	1195
##	75666	N17620	129	90	61	55	IAH	ATL	689
##	75667	N76519	220	197	-14	-9	IAH	SNA	1347
##	75671	N37281	64	43	-6	-2	IAH	MSY	305
##	75672	N75432	265	247	2	21	IAH	SEA	1874
##	75675	N37293	260	231	9	10	IAH	SF0	1635
##	75676	N32404	247	229	-22	-1	IAH	SF0	1635
##	75681	N75853	126	107	0	7	IAH	MCO	853
	75683	N39728	161	138	0	-3	IAH	DTW	1076
	75686	N26226	228	204	0	0	IAH	LAX	1379
	75689	N77867	150	121	-7	0	IAH	DEN	862
##	75691	N74007	213	175	17	9	IAH	EWR	1400
##	75694	N37409	173	150	7	11	IAH	PHX	1009
	75701	N73299	138	93	22	3	IAH	TPA	787
	75702	N14653	202	171	8	22	IAH	EWR	1400
##	75710	N75853	157	126	18	13	IAH	ORD	925
##	75711	N87527	133	111	-3	2	IAH	FLL	965
	75715	N39726	159	145	-13	-2	IAH	DCA	1208
	75718	N73406	257	224	0	3	IAH	SF0	1635
	75721	N79521	53	39	-13	-4	IAH	SAT	191
	75723	N77867	122	100	43	60	IAH	MCO	853
	75725	N54711	158	128	-11	-1	IAH	DTW	1076
	75727	N18243	237	203	22	10	IAH	LAX	1379
	75728	N76522	194	176	-13	-5	IAH	LAS	1222
##	75730	N77510	158	122	37	31	IAH	DEN	862

шш	75720	Nagaca	70	20	20	17	IAH	ATTO	1.40
	75739 75742	N38268 N73276	70 253	30 234	30 -1	17 0	IAH	AUS SJC	140
			181	138	-1 5	-1	IAH	PIT	1609 1117
	75743 75747	N59630 N53441	60	43	12	18	IAH	MSY	305
	75754	N17719	149	111	4	-3	IAH	FLL	965
	75754	N76516	217	201	-6	-3	IAH	SNA	1347
	75766	N16632	212	187	82	63	IAH	PHL	1324
	75768	N33284	56	34	-4	0	IAH	SAT	191
	75770	N23721	213	141	46	4	IAH	DTW	1076
	75773	N39418	226	194	7	2	IAH	LAX	1379
	75775	N78501	195	174	-1	16	IAH	LAS	1222
	75779	N77430	120	89	9	15	IAH	TPA	787
	75781	N14731	254	204	27	5	IAH	SNA	1347
	75787	N14653	52	31	12	14	IAH	AUS	140
	75788	N32626	157	134	-6	-4	IAH	CLE	1091
	75790	N79279	159	125	29	27	IAH	ORD	925
	75792	N37408	136	109	0	8	IAH	FLL	965
	75795	N77295	61	30	23	18	IAH	AUS	140
	75798	N76516	125	106	7	12	IAH	RSW	861
	75800	N14613	152	96	36	10	IAH	MCI	643
##	75807	N38417	52	31	-1	-2	IAH	AUS	140
##	75809	N37420	143	101	30	24	IAH	MCO	853
##	75811	N76254	217	195	11	9	IAH	SAN	1303
##	75812	N21723	124	107	-20	-1	IAH	MIA	964
##	75819	N73299	189	151	21	2	IAH	DCA	1208
##	75820	N38417	236	198	51	40	IAH	LAX	1379
##	75827	N37420	194	153	17	2	IAH	PHX	1009
	75828	N16646	80	55	-2	-2	IAH	MFE	316
	75829	N37409	61	42	-8	-6	IAH	MSY	305
	75831	N15710	236	218	19	10	IAH	SNA	1347
	75832	N39726	193	172	3	7	IAH	LGA	1416
	75836	N73283	241	220	-7	7	IAH	SMF	1609
	75838	N35407	142	115	-7	-1	IAH	ORD	925
	75839	N38257	129	112	-15	2	IAH	FLL	965
	75843	N34222	152	99	29	8	IAH	RSW	861
	75846	N11641	137	108	-2	-6	IAH	ELP	667
	75847	N75433	181	154	9	20	IAH	PHL	1324
	75849	N76288	63	40	1	-2	IAH	SAT	191
	75854	N16617	183	155	5	-5 -	IAH	DTW	1076
	75855 75856	N14237	233 142	201 109	18 -4	5	IAH IAH	SAN	1303 964
	75860	N37255 N76505	242	211	26	-3 15	IAH	MIA LAX	1379
	75865	N76503	75	55	-5	-1	IAH	MFE	316
	75869	N16649	108	59	28	8	IAH	OKC	395
	75871	N19621	143	124	8	15	IAH	ABQ	744
	75873	N38417	208	195	89	94	IAH	SAN	1303
	75875	N35271	210	193	-8	-1	IAH	ONT	1334
	75878	N37408	43	27	-15	-3	IAH	AUS	140
	75880	N38403	141	115	-12	-3	IAH	ORD	925
	75881	N57439	160	107	53	39	IAH	FLL	965
	75883	N16642	121	88	-9	-1	IAH	ATL	689
	75888	N37293	259	237	-20	0	IAH	SEA	1874
	75891	N14219	216	156	45	22	IAH	PHL	1324
	75894	N33262	53	34	2	10	IAH	SAT	191
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	75895	N17229	163	138	-11	-3	IAH	TUS	936
	75898	N17614	61	38	58	69	IAH	DFW	224
	75900	N73283	132	109	4	12	IAH	MIA	964
##	75903	N57852	231	203	22	18	IAH	LAX	1379
##	75912	N24715	219	200	2	13	IAH	SNA	1347
##	75913	N14653	96	44	35	3	IAH	MSY	305
##	75916	N30401	166	105	23	-1	IAH	PBI	956
##	75918	N33266	223	173	24	1	IAH	LGA	1416
##	75919	N37298	191	167	-2	3	IAH	PHL	1324
##	75920	N16732	143	127	-16	7	IAH	CLE	1091
##	75924	N46625	152	123	-7	-2	IAH	RDU	1043
##	75927	N26210	145	108	33	23	IAH	AMO	781
##	75932	N16647	137	108	-4	-5	IAH	MCO	853
##	75934	N17245	170	137	-3	1	IAH	HDN	986
##	75937	N25705	246	228	-16	-1	IAH	SMF	1609
##	75942	N69063	480	459	55	80	IAH	HNL	3904
##	75947	N27239	54	40	-9	1	IAH	MSY	305
##	75956	N38257	66	45	11	7	IAH	MSY	305
##	75958	N14219	53	29	5	0	IAH	AUS	140
##	75966	N29129	217	197	-5	-1	IAH	LAX	1379
##	75971	N75435	143	121	-6	3	IAH	DEN	862
##	75972	N38424	198	177	4	6	IAH	EWR	1400
##	75974	N26123	193	170	-3	8	IAH	EWR	1400
##	75979	N57870	198	171	5	-1	IAH	EWR	1400
##	75982	N78060	206	174	9	5	IAH	EWR	1400
##	75988	N14250	229	196	17	15	IAH	LAX	1379
##	75990	N77867	150	125	-6	-3	IAH	ORD	925
##	75993	N33284	217	196	-6	-3	IAH	ONT	1334
##	75999	N72405	274	241	12	2	IAH	SF0	1635
##	76005	N27213	127	105	-11	0	IAH	MIA	964
##	76011	N75432	192	168	-12	-2	IAH	LAS	1222
##	76013	N76288	141	119	-20	-4	IAH	DEN	862
##	76016	N78506	108	89	-4	10	IAH	TPA	787
##	76018	N13718	266	249	-6	-1	IAH	PDX	1825
##	76019	N79402	218	180	8	-4	IAH	EWR	1400
##	76021	N39415	236	210	-2	7	IAH	SJU	2007
##	76023	N57868	172	149	61	65	IAH	PHX	1009
##	76027	N14645	178	151	2	-2	IAH	BWI	1235
	76033	N77525	49	34	14	13	IAH	AUS	140
##	76034	N24706	155	130	-7	-4	IAH	CLE	1091
##	76037	N77510	146	124	-2	2	IAH	RDU	1043
	76039	N87527	175	156	5	-4	IAH	DCA	1208
	76043	N14214	261	242	5	23	IAH	SEA	1874
	76046	N37252	262	237	5	3	IAH	SF0	1635
	76047	N54241	155	123	4	0	IAH	DEN	862
	76050	N59630	68	43	2	-5	IAH	SAT	191
	76051	N35260	227	203	16	5	IAH	BOS	1597
	76057	N37290	186	164	-20	2	IAH	LAS	1222
	76058	N76269	143	120	-6	-2	IAH	DEN	862
	76062	N34222	255	240	33	52	IAH	PDX	1825
	76063	N57869	189	159	12	24	IAH	EWR	1400
	76068	N35407	169	146	21	28	IAH	PHX	1009
	76070	N71411	63	46	-6	-6	IAH	MSY	305
	76072	N17627	182	156	3	-6	IAH	BWI	1235
			102	100	J	J		-"-	1200

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	76076	N54711	190	173	-11	2	IAH	LGA	1416
	76081	N39728	143	125	-16	-2	IAH	GUC	886
	76084	N23721	156	138	-13	-7	IAH	DCA	1208
	76091	N79521	253	231	9	17	IAH	SF0	1635
	76095	N14613	64	37	4	-3	IAH	SAT	191
	76096	N37267	220	195	5	1	IAH	BOS	1597
##	76101	N71411	203	174	11	14	IAH	LAS	1222
##	76104	N26208	173	154	-1	-2	IAH	IAD	1190
##	76105		NA	NA	NA	NA	IAH	EWR	1400
##	76107	N18243	165	146	-8	-1	IAH	IAD	1190
##	76110	N77525	256	233	7	4	IAH	SJC	1609
##	76112	N78524	62	40	-9	-7	IAH	MSY	305
##	76113	N34222	156	136	45	60	IAH	BWI	1235
##	76115	N29717	191	171	-5	4	IAH	LGA	1416
##	76119	N57855	130	111	-3	21	IAH	ORD	925
##	76121	N73256	141	125	-3	6	IAH	ORD	925
##	76125	N78509	170	150	0	-5	IAH	DCA	1208
##	76128	N39415	261	243	-2	12	IAH	SEA	1874
##	76134	N35271	53	39	-11	-3	IAH	SAT	191
##	76135	N17619	227	186	3	-5	IAH	BOS	1597
##	76139	N57862	184	163	-22	-3	IAH	LAS	1222
	76141	N77510	136	119	0	14	IAH	DEN	862
	76142	N16649	143	106	-3	-6	IAH	IND	845
	76146	N12238	199	170	5	3	IAH	EWR	1400
	76147	N14237	78	58	7	1	IAH	MFE	316
	76150	N39416	175	148	4	5	IAH	PHX	1009
	76157	N37277	198	175	2	4	IAH	LGA	1416
	76158	N75426	155	132	5	8	IAH	PIT	1117
	76161	N30401	179	160	-10	3	IAH	SLC	1195
	76162	N13248	155	138	-12	-4	IAH	CLE	1091
	76163	N78501	148	121	-8	-4	IAH	ORD	925
	76171	N25705	152	135	-18	-4	IAH	DCA	1208
	76173	N39726	208	187	-12	5	IAH	SNA	1347
	76177	N73406	252	217	11	14	IAH	SFO	1635
	76180	N16703	200	177	12	25	IAH	BOS	1597
	76181	N26123	119	98	-15	- 5	IAH	MCO	853
	76186	N37281	198	166	-10	-3	IAH	LAS	1222
	76188	N57863	137	117	-12	2	IAH	DEN	862
	76190	N87513	138	118	-7	7	IAH	DEN	862
	76192	N75433	116	88	11	14	IAH	TPA	787
	76195	N14230	165	139	5	6	IAH	MSP	1034
	76197	N16647	178	153	-6	-9	IAH	BWI	1235
	76200	N19623	198	172	-9	-4	IAH	LGA	1416
	76205	N73270	153	130	10	12	IAH	CLE	1091
	76209	N14228	168	147	20	16	IAH	DCA	1208
	76212	N29124	162	139	-11	-1	IAH	EGE	935
	76213	N75853	262	237	7	18	IAH	SEA	1874
	76219	N76504	208	182	-20	-6	IAH	BOS	1597
	76221	N74856	122	97	6	12	IAH	MCO	853
	76227	N37298	190	172	-18	-3	IAH	LAS	1222
	76231	N16709	109	95	-13	-2	IAH	TPA	787
	76232	N30401	258	233	73	88	IAH	PDX	1825
	76237	N76504	62	43	-2	-3	IAH	MSY	305
	76244	N11641	198	168	14	6	IAH	LGA	1416
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	76248	N18223	199	178	24	32	IAH	SAN	1303
	76249	N37434	199	177	-7	6	IAH	SAN	1303
	76250	N37263	51	33	-1	-1	IAH	AUS	140
	76251	N75429	161	133	4	-1	IAH	CLE	1091
	76252	N37437	142	125	-11	2	IAH	ORD	925
	76253	N29717	186	167	-7	2	IAH	SLC	1195
	76255	N11206	107	85	-13	-3	IAH	ATL	689
	76258	N14242	69	45	7	1	IAH	MSY	305
	76259	N47414	270	251	-4	5	IAH	SEA	1874
	76262	N14242	251	228	6	11	IAH	SF0	1635
	76263	N12221	251	228	-13	4	IAH	SF0	1635
	76267	N75851	122	98	-6	0	IAH	MCO	853
	76269	N14653	158	132	9	13	IAH	DTW	1076
	76270	N37263	216	192	1	8	IAH	LAX	1379
	76272	N75858	156	120	-5	-4	IAH	DEN	862
	76274	N79011	192	164	1	6	IAH	EWR	1400
	76281	N13750	105	88	-4	10	IAH	TPA	787
	76282	N36280	203	170	11	10	IAH	EWR	1400
##	76291	N14250	138	115	1	1	IAH	FLL	965
##	76297	N32404	254	230	4	5	IAH	SF0	1635
##	76299	N11206	54	37	-7	-4	IAH	SAT	191
##	76301	N75858	127	101	-6	1	IAH	MCO	853
##	76303	N16632	166	138	-9	-8	IAH	DTW	1076
##	76305	N37287	217	188	8	12	IAH	LAX	1379
##	76306	N76505	183	165	-25	-6	IAH	LAS	1222
##	76314	N37274	52	29	0	0	IAH	AUS	140
##	76316	N76269	254	234	2	2	IAH	SJC	1609
##	76317	N59630	156	131	-19	-5	IAH	PIT	1117
##	76321	N76288	64	41	-1	-4	IAH	MSY	305
##	76323	N17620	136	113	-8	-3	IAH	CLT	913
##	76328	N76502	132	109	-11	-1	IAH	FLL	965
##	76331	N14604	123	96	-23	-8	IAH	RSW	861
##	76337	N16703	185	162	21	23	IAH	PHL	1324
##	76339	N75426	67	42	14	2	IAH	SAT	191
##	76343	N78866	214	189	-4	3	IAH	LAX	1379
##	76346	N72405	112	90	-6	3	IAH	TPA	787
##	76351	N19638	NA	NA	NA	4	IAH	AUS	140
##	76352	N46625	151	135	-16	-8	IAH	CLE	1091
##	76354	N73299	135	118	-15	3	IAH	ORD	925
##	76356	N37409	129	107	-4	6	IAH	FLL	965
##	76360	N19621	133	103	1	-4	IAH	RSW	861
##	76362	N38257	112	89	-3	6	IAH	MCI	643
##	76369	N17620	51	32	-5	-5	IAH	AUS	140
##	76371	N37420	120	97	6	18	IAH	MCO	853
##	76373	N26226	205	186	-4	1	IAH	SAN	1303
	76374	N26226	127	106	-12	4	IAH	MIA	964
	76382	N13750	60	33	16	7	IAH	AUS	140
##	76383	N39418	212	194	-2	6	IAH	LAX	1379
	76390	N87512	153	139	19	45	IAH	PHX	1009
	76391	N14639	86	57	11	0	IAH	MFE	316
	76392	N14237	65	48	1	-1	IAH	MSY	305
	76395	N78501	234	217	-20	-4	IAH	SMF	1609
	76397	N39416	146	125	0	2	IAH	ORD	925
	76398	N17245	58	32	12	4	IAH	AUS	140
			00	02		-			

	76399	N73259	126	107	-18	-3	IAH	FLL	965
	76402	N78511	124	100	-1	1	IAH	RSW	861
	76404	N16642	133	102	1	-4	IAH	ELP	667
	76407	N17619	62	39	-4	-6	IAH	SAT	191
	76410	N24211	208	185	-3	4	IAH	SAN	1303
	76411	N24211	140	105	-4	-1	IAH	MIA	964
	76414	N73256	218	196	-6	2	IAH	LAX	1379
##	76418	N14731	72	55	-1	1	IAH	MFE	316
	76422	N39726	71	55	-8	4	IAH	OKC	395
##	76424	N38268	242	222	-14	0	IAH	SMF	1609
##	76425	N14613	125	109	-23	-3	IAH	ABQ	744
##	76427	N78509	203	183	-9	-4	IAH	SAN	1303
##	76428	N37293	60	40	4	-1	IAH	SAT	191
##	76429	N27213	142	125	-2	25	IAH	MTJ	926
##	76432	N35271	205	187	-18	-6	IAH	ONT	1334
##	76435	N35407	156	123	13	7	IAH	ORD	925
##	76436	N57439	126	107	-2	13	IAH	FLL	965
##	76440	N17229	258	242	11	32	IAH	SEA	1874
##	76444	N37434	176	154	-13	-1	IAH	PHL	1324
##	76447	N54711	63	41	28	21	IAH	SAT	191
##	76448	N27610	156	137	-18	-3	IAH	TUS	936
##	76450	N27610	72	46	5	0	IAH	DFW	224
##	76451	N77518	130	104	-13	-3	IAH	MIA	964
##	76454	N74856	219	190	5	8	IAH	LAX	1379
##	76461	N24715	210	189	-3	12	IAH	SNA	1347
##	76462	N19638	78	45	7	-7	IAH	MSY	305
##	76465	N36444	123	103	-19	-5	IAH	PBI	956
##	76467	N76254	188	164	-7	-4	IAH	PHL	1324
##	76470	N21723	140	123	-5	3	IAH	RDU	1043
##	76473	N37255	133	102	8	8	IAH	OMA	781
##	76478	N14731	116	99	5	22	IAH	MCO	853
##	76480	N17245	157	138	-16	1	IAH	HDN	986
##	76483	N15710	239	222	-17	0	IAH	SMF	1609
##	76487	N77066	480	463	326	351	IAH	HNL	3904
##	76492	N76504	63	46	0	6	IAH	MSY	305
##	76493	N36280	57	37	-3	0	IAH	SAT	191
##	76503	N19623	65	50	-7	-3	IAH	MSY	305
##	76505	N14228	57	29	13	9	IAH	AUS	140
##	76513	N76515	238	194	16	9	IAH	LAX	1379
##	76516	N12114	210	190	-6	5	IAH	LAX	1379
##	76521	N75432	142	119	3	18	IAH	DEN	862
##	76522	N57857	216	183	10	2	IAH	EWR	1400
##	76524	N14120	200	179	97	109	IAH	EWR	1400
##	76530	N33286	208	180	8	0	IAH	EWR	1400
##	76533	N66051	212	185	6	4	IAH	EWR	1400
	76542	N73299	201	178	0	26	IAH	LAX	1379
##	76544	N75858	160	128	1	-1	IAH	ORD	925
	76547	N38257	206	180	-13	1	IAH	ONT	1334
	76550		NA	NA	NA	NA	IAH	DCA	1208
	76555	N37408	253	230	-14	2	IAH	SF0	1635
	76562	N73270	141	109	0	2	IAH	MIA	964
	76568	N57870	186	163	-22	-2	IAH	LAS	1222
	76570	N33714	147	122	-16	-1	IAH	DEN	862
	76575	N75429	111	94	4	17	IAH	TPA	787

	76578	N38727	267	250	-15	-6	IAH	PDX	1825
##	76579	N37419	239	192	32	7	IAH	EWR	1400
##	76581	N39416	243	222	-3	4	IAH	SJU	2007
##	76587	N14102	162	138	13	32	IAH	PHX	1009
##	76593	N19638	185	161	2	-4	IAH	BWI	1235
##	76597	N37273	206	182	-9	-4	IAH	LGA	1416
##	76604	N58606	53	30	-7	-7	IAH	AUS	140
##	76606	N14639	180	154	10	-1	IAH	CLE	1091
##	76609	N27610	156	132	3	6	IAH	RDU	1043
##	76616	N87527	174	145	1	-2	IAH	DCA	1208
##	76620	N37420	267	247	15	32	IAH	SEA	1874
##	76623	N53441	250	225	-10	5	IAH	SF0	1635
##	76624	N27213	143	122	-9	3	IAH	DEN	862
##	76627	N73275	58	35	-8	0	IAH	SAT	191
##	76628	N14653	226	201	-1	-6	IAH	BOS	1597
##	76635	N36444	188	163	-29	-4	IAH	LAS	1222
##	76637	N33266	135	115	-18	-1	IAH	DEN	862
##	76642	N14242	278	251	-1	0	IAH	PDX	1825
##	76643	N57852	209	174	12	12	IAH	EWR	1400
##	76648	N75436	163	138	5	23	IAH	PHX	1009
##	76650	N33264	65	47	-6	-3	IAH	MSY	305
##	76652	N77296	173	153	5	6	IAH	BWI	1235
	76656	N35271	204	177	-8	-4	IAH	LGA	1416
	76668	N14731	176	152	4	-2	IAH	DCA	1208
	76676	N12238	251	212	-11	4	IAH	SFO	1635
	76682	N78524	49	35	0	13	IAH	SAT	191
	76684	N33266	224	202	-1	-4	IAH	BOS	1597
	76690	N33209	195	168	-4	12	IAH	LAS	1222
	76692	N38727	139	119	-1	2	IAH	IND	845
	76694	N36272	195	174	-16	3	IAH	SAN	1303
	76695	N37281	175	153	0	-3	IAH	IAD	1190
	76697	N73259	183	161	10	-1	IAH	IAD	1190
	76699	N67052	211	174	6	0	IAH	EWR	1400
	76701	N26208	177	158	6	1	IAH	IAD	1190
	76704	N78509	243	221	-9	6	IAH	SJC	1609
	76706	N37274	82	43	10	-3	IAH	MSY	305
	76707	N78501	168	148	64	72	IAH	BWI	1235
	76710	N16701	212	187	12	1	IAH	LGA	1416
	76714	N17620	84	69	-6	-3	IAH	TUL	429
	76715	N77867	152	125	-8	-1	IAH	ORD	925
	76717	N36247	160	137	7	1	IAH	ORD	925
	76722	N38257	170	153	0	0	IAH	DCA	1208
	76726	N75433	274	254	-6	0	IAH	SEA	1874
	76732	N17233	54	35	-12	0	IAH	SAT	191
	76735	N76517	244	212	19	-1	IAH	BOS	1597
	76740	N77871	191	163	-16	1	IAH	LAS	1222
	76742	N76515	144	123	-9	2	IAH	DEN	862
	76743	N17619	137	113	61	69	IAH	IND	845
	76749	N53442	214	183	17	8	IAH	EWR	1400
	76750	N37290	77	55	-6	-6	IAH	MFE	316
	76756	N77431	166	144	-12	3	IAH	PHX	1009
	76763	N77431 N37277	203	182	-12 -1	1	IAH	LGA	1416
	76764	N30401	182	157	19	0	IAH	PIT	1117
	76769	N30401 N38403	168	157	-15	14	IAH	SLC	1117
##	10109	1120402	108	120	-12	14	TAH	SLC	1195

шш	70770	NIC 4744	1.00	4 - 4	0	2	IAH	OT E	1001
	76770	N54711	169	151 125	2	-3 -2	IAH	CLE ORD	1091 925
	76771	N27239	149 NA		-10 NA		IAH	DCA	1208
	76781 76788	N32404	280	NA 224	17	NA -3	IAH	SFO	1635
	76793	N14629	234	204	18	-3 2	IAH	BOS	1597
	76795	N29124	114	98	-5	15	IAH	MCO	853
	76801	N36280	198	164	-9	3	IAH	LAS	1222
	76803	N76156	135	115	9	30	IAH	DEN	862
	76805	N36247	146	120	-5	5	IAH	DEN	862
	76807	N37281	118	93	0	6	IAH	TPA	787
	76810	N76502	164	142	-4	3	IAH	MSP	1034
	76814	N33262	63	45	-7	-3	IAH	MSY	305
	76817	N23721	168	154	-13	-6	IAH	BWI	1235
	76820	N17245	213	192	3	-2	IAH	LGA	1416
	76824	N33292	159	142	-2	1	IAH	CLE	1091
	76829	N78285	168	147	1	2	IAH	DCA	1208
	76832	N26123	156	137	-23	-2	IAH	EGE	935
	76833	N75851	271	250	4	11	IAH	SEA	1874
	76836	N39418	241	220	102	129	IAH	SFO	1635
	76841	N13750	222	201	-2	3	IAH	BOS	1597
	76844	N77431	121	102	-10	2	IAH	MCO	853
	76850	N38417	182	161	-31	-3	IAH	LAS	1222
	76854	N39728	110	92	-12	3	IAH	TPA	787
	76855	N38403	270	245	-7	1	IAH	PDX	1825
	76858	N23708	68	51	0	-2	IAH	MSY	305
##	76865	N37273	214	192	32	13	IAH	LGA	1416
##	76869	N26215	182	167	15	45	IAH	SAN	1303
##	76870	N75432	192	169	-25	0	IAH	SAN	1303
##	76871	N14228	49	28	25	32	IAH	AUS	140
##	76872	N24212	174	148	9	-2	IAH	CLE	1091
##	76873	N76526	147	126	29	42	IAH	ORD	925
##	76874	N39728	175	160	-32	-7	IAH	SLC	1195
##	76876	N59630	124	90	18	17	IAH	ATL	689
##	76877	N76523	199	175	-27	4	IAH	SNA	1347
	76881	N76254	63	45	-1	4	IAH	MSY	305
##	76882	N75435	281	260	13	16	IAH	SEA	1874
	76885	N73259	277	252	77	61	IAH	SF0	1635
	76886	N37252	249	225	-17	4	IAH	SF0	1635
	76887	N14230	195	164	4	0	IAH	PHL	1324
	76892	N57868	123	103	-13	-3	IAH	MCO	853
	76894	N16649	203	156	30	-6	IAH	DTW	1076
	76897	N76505	204	181	65	89	IAH	LAX	1379
	76900	N57862	142	118	-19	1	IAH	DEN	862
	76906	N78013	245	170	45	5	IAH	EWR	1400
	76910	N73406	168	143	-9	0	IAH	PHX	1009
	76916	N73256	125	97	1	0	IAH	TPA	787
	76917	N24729	230	182	25	5	IAH	EWR	1400
	76926	N30401	148	127	-5	-1	IAH	ORD	925
	76927	N73299	130	110	-16	-3 =4	IAH	FLL	965
	76931	N17719	156	142	35	54	IAH	DCA	1208
	76934 76937	N35407 N17620	266 66	217 38	10 1	4 -3	IAH IAH	SFO SAT	1635 191
	76937	N57862	128	105	-14	-3 -3	IAH	MCO	853
	76939	N76288	175	154	-14	-3 -1	IAH	DTW	1076
##	10341	14 / 0200	1/5	154	0	-1	TAU	DIM	1010

	76943	N33289	240	181	18	3	IAH	LAX	1379
	76944	N17245	174	158	-32	1	IAH	LAS	1222
##	76946	N77258	156	125	5	1	IAH	DEN	862
##	76955	N27239	47	30	-13	-3	IAH	AUS	140
##	76957	N39297	241	220	-13	5	IAH	SJC	1609
##	76958	N16632	183	150	2	-6	IAH	PIT	1117
##	76962	N77296	58	42	-12	-4	IAH	MSY	305
##	76964	N16642	141	114	-7	-2	IAH	CLT	913
##	76970	N79521	142	113	-6	-1	IAH	FLL	965
##	76974	N77518	200	178	-4	19	IAH	SNA	1347
##	76976	N16647	132	102	-18	-7	IAH	RSW	861
##	76983	N17619	203	172	48	37	IAH	PHL	1324
##	76985	N36247	65	42	6	1	IAH	SAT	191
##	76987	N14731	178	146	15	8	IAH	DTW	1076
##	76990	N77867	201	178	-16	9	IAH	LAX	1379
##	76992	N73275	184	162	-29	-1	IAH	LAS	1222
##	76996	N37408	113	90	5	18	IAH	TPA	787
##	76998	N17730	204	179	-2	26	IAH	SNA	1347
##	77003	N72405	44	30	29	40	IAH	AUS	140
##	77005	N16646	54	27	-2	-2	IAH	AUS	140
##	77006	N18243	174	152	16	8	IAH	CLE	1091
##	77008	N73256	161	140	11	7	IAH	ORD	925
##	77010	N72405	130	112	31	45	IAH	FLL	965
##	77014	N76523	177	151	9	2	IAH	DCA	1208
##	77018	N77518	124	104	-9	-3	IAH	RSW	861
##	77020	N19638	117	96	-6	3	IAH	MCI	643
	77027	N39726	51	28	-3	2	IAH	AUS	140
	77029	N14228	128	107	7	16	IAH	MCO	853
	77031	N54241	198	177	12	29	IAH	SAN	1303
	77032	N26226	136	113	-6	1	IAH	MIA	964
	77040	N37252	50	30	1	7	IAH	AUS	140
	77041	N33294	205	184	-9	11	IAH	LAX	1379
	77048	N77430	168	143	-16	0	IAH	PHX	1009
	77049	N39726	74	54	-5	1	IAH	MFE	316
##	77050	N77261	70	52	0	-2	IAH	MSY	305
##	77052	N15710	199	177	-30	-2	IAH	SNA	1347
##	77053	N46625	229	206	22	-4	IAH	LGA	1416
	77056	N59630	75	53	-10	-7	IAH	MFE	316
	77057	N21723	243	219	-5	7	IAH	SMF	1609
	77059	N32404	153	131	-3	-3	IAH	ORD	925
	77060	N14230	136	115	5	15	IAH	FLL	965
	77064	N14242	134	105	17	14	IAH	RSW	861
	77067	N19621	133	101	-5	-5	IAH	ELP	667
	77068	N75428	194	167	54	52	IAH	PHL	1324
	77071	N16632	60	33	-10	-5	IAH	SAT	191
	77076	N14604	175	145	2	0	IAH	DTW	1076
	77077	N37298	196	174	-16	8	IAH	SAN	1303
	77078	N33209	136	107	-8	4	IAH	MIA	964
	77082	N73278	198	180	76	109	IAH	LAX	1379
	77087	N17719	73	56	-6	0	IAH	MFE	316
	77092	N19623	95	62	33	26	IAH	OKC	395
	77094	N17233	239	217	-23	-1	IAH	SMF	1609
	77095	N14653	135	105	-17	-2	IAH	ABQ	744
##	77096	N14214	190	172	6	29	IAH	SAN	1303

	77098	N76504	191	175	-11	20	IAH	ONT	1334
	77103	N38417	157	135	-2	-4	IAH	ORD	925
	77104	N39297	147	110	21	20	IAH	FLL	965
	77106	N16632	123	95	-6	0	IAH	ATL	689
	77111	N14237	279	254	-4	1	IAH	SEA	1874
	77114	N39415	200	171	25	18	IAH	PHL	1324
	77117	N35271	56	34	-6	-1	IAH	SAT	191
	77118	N14639	156	130	-22	-2	IAH	TUS	936
	77121	N62631	76	43	1	-3	IAH	DFW	224
##	77123	N12221	133	112	19	26	IAH	MIA	964
##	77126	N57863	218	183	-2	7	IAH	LAX	1379
##	77135	N24715	211	187	-20	-1	IAH	SNA	1347
##	77136	N17620	63	46	-9	-3	IAH	MSY	305
	77139	N77430	143	109	1	0	IAH	PBI	956
	77141	N76269	202	179	-8	- 5	IAH	LGA	1416
##	77142	N13248	217	195	20	-1	IAH	PHL	1324
	77143	N25705	171	152	10	5	IAH	CLE	1091
	77147	N59630	160	137	-1	-4	IAH	RDU	1043
	77150	N78524	126	111	-8	1	IAH	AMO	781
	77155	N37255	129	99	-14	- 5	IAH	MCO	853
	77157	N14629	162	141	-24	-4	IAH	HDN	986
	77160	N34222	234	209	-29	-2	IAH	SMF	1609
	77165	N76055	474	455	-6	25	IAH	HNL	3904
	77170	N12216	63	45	23	29	IAH	MSY	305
	77171	N37298	53	38	98	105	IAH	SAT	191
	77181	N16646	71	46	-1	-3	IAH	MSY	305
	77183	N76503	47	29	6	12	IAH	AUS	140
	77191	N73270	216	180	-11	4	IAH	LAX	1379
	77194	N34137	209	184	-16	1	IAH	LAX	1379
	77199	N75858	138	118	143	162	IAH	DEN	862
	77200	N76153	184	158	2	26	IAH	EWR	1400
	77202	N21108	203	167	24	33	IAH	EWR	1400
	77208	W00050	NA	NA	NA	NA	IAH	EWR	1400
	77212	N66056	283	161	95	22	IAH	EWR	1400
	77218	N37287	76	47	7	-1	IAH	MSY	305
##	77222	N77295	203	180	210	234	IAH	LAX	1379
	77224	N77867	162	137	4	0	IAH	ORD	925
	77227	N73278	197	179	219	242	IAH	ONT	1334
	77230	N39726	159	142	-13	-2	IAH	DCA	1208
	77235	N71411	236	212	-26	7	IAH	SFO	1635
	77242	N76269	129	109	-7	7	IAH	MIA	964
	77248	N75861	202	157	-3	1	IAH	LAS	1222
	77250	N17229	146	125	-18	-2	IAH	DEN	862
	77255	N38424	112	92	16	28	IAH	TPA	787
	77258 77259	N17730	245	234	137	168	IAH	PDX	1825
		N37420	195	168	24	43	IAH	EWR	1400
	77261	N77431	240	218	0	10	IAH	SJU	2007
	77267	N12109	192	151	16	5	IAH	PHX	1009
	77273	N27610	171	148	-11 -12	-3 -1	IAH	BWI	1235
	77277	N37274	199	162	-13	-1 -2	IAH	LGA	1416
	77284 77286	N13624	55 191	30 141	0 14	-2 -8	IAH IAH	AUS CLE	140 1091
	77289	N14653				-8 227	IAH		1091
		N39726	136	113	208 NA			RDU	
##	77296		NA	NA	NA	NA	IAH	DCA	1208

	77300	N36444	268	253	45	61	IAH	SEA	1874
	77303	N75432	237	214	-15	13	IAH	SF0	1635
	77304	N26226	155	126	7	7	IAH	DEN	862
	77307	N38268	57	35	-9	0	IAH	SAT	191
	77308	N33264	217	188	-2	2	IAH	BOS	1597
	77315	N75433	212	163	-2	-1	IAH	LAS	1222
	77317	N77431	148	126	42	46	IAH	DEN	862
	77322	N37290	259	244	-18	2	IAH	PDX	1825
	77323	N57869	206	180	51	54	IAH	EWR	1400
	77328	N75425	169	150	-12	0	IAH	PHX	1009
	77330	N73275	61	45	61	68	IAH	MSY	305
	77332	N14237	168	144	-5	1	IAH	BWI	1235
	77336	N14230	192	163	-15	1	IAH	LGA	1416
	77347	N24729	146	129	-18	-7	IAH	GUC	886
	77350	N14704	165	141	-8	-3	IAH	DCA	1208
##	77358	N33284	225	208	-6	35	IAH	SFO	1635
##	77364	N58606	63	36	-2	-3	IAH	SAT	191
	77366	N77261	203	182	-24	-6	IAH	BOS	1597
##	77372	N73251	190	158	-7	14	IAH	LAS	1222
##	77374	N37419	138	111	-9	-5	IAH	IND	845
##	77376	N37267	192	174	-12	10	IAH	SAN	1303
##	77377	N17719	209	148	34	-3	IAH	IAD	1190
##	77379	N36280	162	141	35	45	IAH	IAD	1190
##	77381		NA	NA	NA	NA	IAH	EWR	1400
##	77383	N33289	157	135	-15	0	IAH	IAD	1190
##	77386	N77518	224	203	-12	22	IAH	SJC	1609
##	77388	N33266	60	41	-11	-2	IAH	MSY	305
##	77389	N37290	165	144	-1	10	IAH	BWI	1235
##	77392	N24715	181	162	-17	3	IAH	LGA	1416
##	77396	N19621	96	69	2	-7	IAH	TUL	429
##	77397	N57857	152	128	11	18	IAH	ORD	925
##	77399	N37252	152	131	8	10	IAH	ORD	925
##	77404	N18243	157	139	-13	0	IAH	DCA	1208
##	77408	N37419	281	257	2	1	IAH	SEA	1874
##	77414	N77258	61	36	-8	-3	IAH	SAT	191
##	77417	N77520	218	188	2	8	IAH	BOS	1597
##	77422	N75854	200	163	-6	2	IAH	LAS	1222
##	77424	N36272	151	124	-4	0	IAH	DEN	862
##	77425	N16646	150	124	1	-4	IAH	IND	845
##	77431	N47414	259	182	181	127	IAH	EWR	1400
##	77432	N18243	68	52	-5	4	IAH	MFE	316
##	77438	N75426	170	145	114	125	IAH	PHX	1009
##	77444	N37263	203	175	57	59	IAH	LGA	1416
##	77445	N32404	157	135	104	110	IAH	PIT	1117
##	77450	N30401	191	166	-8	-2	IAH	SLC	1195
##	77451	N16234	160	137	-7	-3	IAH	CLE	1091
##	77452	N77258	157	128	1	1	IAH	ORD	925
##	77462	N23708	164	143	-8	-1	IAH	DCA	1208
	77469	N38417	227	210	31	64	IAH	SFO	1635
	77474	N33292	209	187	-8	1	IAH	BOS	1597
	77476	N21108	124	100	-14	-4	IAH	MCO	853
	77482	N14237	176	153	-27	7	IAH	LAS	1222
	77484	N57862	143	119	-2	11	IAH	DEN	862
	77486	N37252	150	122	-2	4	IAH	DEN	862
			_00		_	-			

	77488	N39297	112	89	25	37	IAH	TPA	787
	77491	N14731	180	158	18	9	IAH	MSP	1034
	77495	N14214	68	50	1	0	IAH	MSY	305
	77498	N13750	166	150	-11	3	IAH	BWI	1235
	77501	N15710	213	175	110	105	IAH	LGA	1416
	77505	N76502	169	142	16	9	IAH	CLE	1091
	77510	N24729	155	140	-14	0	IAH	DCA	1208
	77513	N38727	167	143	-10	0	IAH	EGE	935
	77514	N57868	276	251	7	9	IAH	SEA	1874
	77517	N37434	225	205	35	78	IAH	SF0	1635
	77522	N38268	212	189	-11	4	IAH	BOS	1597
	77525	N78866	130	101	- 5	-2	IAH	MCO	853
	77531	N35407	189	161	27	48	IAH	LAS	1222
	77535	N16703	119	94	-9	-3	IAH	TPA	787
	77536	N30401	262	237	-15	1	IAH	PDX	1825
	77539	N26226	68	46	0	-2	IAH	MSY	305
	77546	N36272	180	160	94	109	IAH	LGA	1416
##	77550	N39416	182	167	-30	0	IAH	SAN	1303
##	77551	N75426	196	175	-19	2	IAH	SAN	1303
	77552	N33286	54	30	-4	-2	IAH	AUS	140
##	77553	N87513	167	138	5	1	IAH	CLE	1091
##	77554	N27239	158	134	13	15	IAH	ORD	925
##	77555	N14250	181	162	-16	3	IAH	SLC	1195
##	77557	N14629	121	84	-1	1	IAH	ATL	689
##	77558	N77518	221	183	-10	-1	IAH	SNA	1347
##	77562	N26215	68	46	-5	-5	IAH	MSY	305
##	77563	N11206	268	251	-14	2	IAH	SEA	1874
##	77566	N26215	231	212	-27	3	IAH	SF0	1635
##	77567	N73278	242	215	-28	0	IAH	SF0	1635
##	77568	N23708	171	147	-18	2	IAH	PHL	1324
##	77573	N75851	120	98	0	13	IAH	MCO	853
##	77575	N17627	168	143	-2	-3	IAH	DTW	1076
##	77578	N39415	203	182	-3	22	IAH	LAX	1379
##	77581	N77871	146	121	-17	-1	IAH	DEN	862
##	77587	N78009	335	176	267	137	IAH	EWR	1400
##	77592	N37413	164	145	-4	9	IAH	PHX	1009
##	77598	N12225	114	94	21	31	IAH	TPA	787
##	77599	N12225	203	171	65	72	IAH	EWR	1400
##	77608	N38403	158	140	8	2	IAH	ORD	925
##	77609	N77295	135	111	-9	-1	IAH	FLL	965
##	77613	N54711	162	140	-2	11	IAH	DCA	1208
##	77616	N37409	230	210	-28	2	IAH	SF0	1635
##	77619	N76254	55	36	13	20	IAH	SAT	191
##	77621	N77871	114	93	-13	12	IAH	MCO	853
##	77623	N24202	175	144	7	0	IAH	DTW	1076
##	77625	N24202	199	179	13	39	IAH	LAX	1379
##	77626	N24212	193	168	-19	-5	IAH	LAS	1222
##	77628	N78511	150	121	19	21	IAH	DEN	862
##	77637	N37274	43	26	134	148	IAH	AUS	140
	77639	N33266	246	211	-15	-2	IAH	SJC	1609
	77640	N27610	167	144	-11	-3	IAH	PIT	1117
	77644	N34222	62	45	2	6	IAH	MSY	305
	77646	N14629	128	108	-23	-5	IAH	CLT	913
	77652	N76505	139	115	-8	0	IAH	FLL	965

##	77656	N76522	198	180	-26	-1	IAH	SNA	1347
##	77658	N16632	123	100	-23	-3	IAH	RSW	861
##	77665	N14242	184	151	93	101	IAH	PHL	1324
##	77667	N39416	57	39	4	7	IAH	SAT	191
##	77669	N79521	176	143	3	-2	IAH	DTW	1076
##	77672	N57857	218	183	-1	7	IAH	LAX	1379
##	77674	N37422	193	168	-17	2	IAH	LAS	1222
##	77675	N16217	160	139	-9	1	IAH	DCA	1208
##	77679	N71411	111	87	-7	8	IAH	TPA	787
##	77681	N16732	209	186	-12	11	IAH	SNA	1347
##	77686	N53442	53	31	0	2	IAH	AUS	140
##	77688	N14613	55	31	0	-1	IAH	AUS	140
##	77689	N16648	158	134	-11	-3	IAH	CLE	1091
##	77691	N36247	180	136	29	6	IAH	ORD	925
##	77693	N38403	153	113	10	1	IAH	FLL	965
##	77700	N76522	127	106	-4	-1	IAH	RSW	861
##	77702	N19638	130	102	3	-1	IAH	MCI	643
##	77709	N39416	50	32	-11	-5	IAH	AUS	140
##	77711	N76503	116	94	-1	20	IAH	MCO	853
##	77713	N35204	197	178	-15	3	IAH	SAN	1303
	77714	N77296	135	114	-8	0	IAH	MIA	964
	77722	N76504	54	30	2	4	IAH	AUS	140
	77723	N37413	211	183	11	25	IAH	LAX	1379
	77730	N73406	176	147	-3	5	IAH	PHX	1009
	77731	N16642	76	56	-6	-2	IAH	MFE	316
	77732	N18243	61	43	-6	1	IAH	MSY	305
	77734	N23721	203	184	-7	17	IAH	SNA	1347
	77735	N16632	188	166	216	231	IAH	LGA	1416
	77738	N58606	79	57	-2	-3	IAH	MFE	316
	77739	N73299	230	212	-25	0	IAH	SMF	1609
	77741	N79402	157	131	31	27	IAH	ORD	925
	77742	N73259	136	114	-6	4	IAH	FLL	965
	77746	N27213	118	94	-13	0	IAH	RSW	861
	77749	N14613	118	100	-19	-4	IAH	ELP	667
	77750	N53441	216	170	42	18	IAH	PHL	1324
##	77753	N62631	65	38	-3	-3	IAH	SAT	191
	77758	N16647	176	148	45	42	IAH	DTW	1076
	77759	N24212	202	179	-13	5	IAH	SAN	1303
	77760	N12221	137	109	6	17	IAH	MIA	964
	77764	N18220	213	186	- 15	3	IAH	LAX	1379
	77769	N87512	76	56	10	13	IAH	MFE	316
	77774	N14639	86	61	-6	-4	IAH	OKC	395
	77776	N76269	254	233	-11	-4	IAH	SMF	1609
	77777	N17620	133	109	-11	6	IAH	ABQ	744
	77778	N75436	187	171	40	66	IAH	SAN	1303
	77780	N33292	209	182	-13	0	IAH	ONT	1334
	77785	N35407	156	124	9	8	IAH	ORD	925
	77786	N76254	138	108	0	8	IAH	FLL	965
	77788	N62631	124	85	1	6	IAH	ATL	689
	77793	N39418	283	253	2	3	IAH	SEA	1874
	77796	N14214	180	160	8	21	IAH	PHL	1324
	77799	N14214 N14230	57	35	8	12	IAH	SAT	191
	77800	N14230 N17620	173	142	-7	-4	IAH	TUS	936
	77803	N17620 N17719	70	48	10	12	IAH	DFW	224
##	11003	MT111A	70	40	10	12	TAI	ИГW	ZZ 4

	77805	N54241	144	113	6	2	IAH	MIA	964
	77808	N78866	206	176	-7	14	IAH	LAX	1379
	77817	N13750	208	179	41	63	IAH	SNA	1347
	77818	N14613	63	42	-12	-6	IAH	MSY	305
	77821	N36207	127	109	-10	5	IAH	PBI	956
	77823	N35271	176	156	-22	7	IAH	LGA	1416
	77824	N17233	200	164	36	32	IAH	PHL	1324
	77825	N17730	149	131	-6	11	IAH	CLE	1091
	77829	N46625	146	117	-9	2	IAH	RDU	1043
	77832	N33209	138	113	4	1	IAH	AMO	781
	77837	N39297	122	97	-21	-5	IAH	MCO	853
	77839	N19621	176	140	-9	-3	IAH	HDN	986
	77842	N38727	227	210	14	48	IAH	SMF	1609
	77847	N76065	486	471	0	19	IAH	HNL	3904
	77852	N24212	56	41	-1	12	IAH	MSY	305
	77853	N13248	63	37	2	-1	IAH	SAT	191
	77862	N75428	61	43	-9	-1	IAH	MSY	305
	77864	N19638	56	27	1	-2	IAH	AUS	140
	77872	N78509	216	190	-17	-2	IAH	LAX	1379
##	77875	N41135	211	189	-16	-1	IAH	LAX	1379
##	77880	N77867	166	137	11	2	IAH	DEN	862
##	77881		NA	NA	NA	NA	IAH	EWR	1400
##	77883	N13113	193	161	47	66	IAH	EWR	1400
##	77889	N36280	215	184	12	-3	IAH	EWR	1400
##	77893	N69059	231	176	181	160	IAH	EWR	1400
##	77899	N26226	72	47	6	2	IAH	MSY	305
##	77903	N33209	218	194	-7	2	IAH	LAX	1379
##	77904	N75854	164	128	14	8	IAH	ORD	925
##	77907	N24202	223	196	7	4	IAH	ONT	1334
##	77910		NA	NA	NA	NA	IAH	DCA	1208
##	77915	N39297	244	221	-24	1	IAH	SF0	1635
##	77921	N38268	129	105	-16	-2	IAH	MIA	964
##	77925	N14228	155	124	4	11	IAH	DEN	862
##	77930	N77430	121	96	-3	0	IAH	TPA	787
##	77933	N17719	264	243	-13	-1	IAH	PDX	1825
##	77934		NA	NA	NA	NA	IAH	EWR	1400
##	77936	N47414	260	239	7	-3	IAH	SJU	2007
##	77942	N12114	182	153	3	2	IAH	PHX	1009
##	77951	N14242	200	165	15	26	IAH	LGA	1416
##	77958	N19623	50	27	-5	-2	IAH	AUS	140
##	77960	N16647	161	132	-13	-5	IAH	CLE	1091
##	77963	N16646	153	127	-8	-2	IAH	RDU	1043
##	77969	N87513	162	140	1	10	IAH	DCA	1208
##	77975	N16234	144	118	1	12	IAH	DEN	862
##	77978	N32404	217	185	9	13	IAH	BOS	1597
##	77984	N13248	149	123	-10	-7	IAH	DEN	862
##	77989	N37290	273	259	-10	-4	IAH	PDX	1825
##	77990	N77865	NA	NA	NA	26	IAH	EWR	1400
##	77994	N75433	172	149	12	21	IAH	PHX	1009
##	77995	N73276	63	43	-7	-2	IAH	MSY	305
##	77997	N76526	176	157	3	1	IAH	BWI	1235
##	78001	N77261	221	184	21	8	IAH	LGA	1416
##	78013	N76503	161	147	-13	-4	IAH	DCA	1208
##	78019	N37252	243	215	-21	2	IAH	SF0	1635

##	78024	N76505	61	40	0	1	IAH	SAT	191
	78031	N73259	201	178	-8	-1	IAH	LAS	1222
	78033	N12216	130	104	-12	0	IAH	IND	845
	78035	N33292	170	143	-5	-3	IAH	IAD	1190
	78037	N37298	194	176	20	-2	IAH	IAD	1190
	78039	N76523	221	188	10	-2 -6	IAH	EWR	1400
	78041	N77296	NA	NA	NA	0	IAH	IAD	1190
	78041	N87513	237	216	-18	3	IAH	SJC	1609
	78045	N37267	69	42	-3	-3	IAH	MSY	305
	78045	N31201	NA	NA	NA	NA	IAH	BWI	1235
	78049	N33284	200	177	44	45	IAH	LGA	1416
	78053	N17620	78	61	-18	-9	IAH	TUL	429
	78054	N75861	161	124	-7	-9	IAH	ORD	925
	7805 4	N79279	154	134	0	0	IAH	ORD	925
	78061	N17233	183	158	11	-2	IAH	DCA	1208
	78065	N38417	271	249	-10	-1	IAH	SEA	1874
	78071	N33264	62	40	-3	1	IAH	SAT	191
	78072	N76516	229	200	6	1	IAH	BOS	1597
	78076	N57869	206	182	-1	1	IAH	LAS	1222
	78078	N14653	142	105	-15	-12	IAH	IND	845
	78084	N37419	227	190	193	171	IAH	EWR	1400
	78085	N24729	71	55	-7	-1	IAH	MFE	316
	78091	N37434	169	151	-16	-4	IAH	PHX	1009
	78097	N35271	206	180	84	83	IAH	LGA	1416
##	78098	N76254	162	137	1	2	IAH	PIT	1117
##	78103	N35407	186	164	-8	3	IAH	SLC	1195
##	78104	N19638	165	136	-15	-10	IAH	CLE	1091
##	78105	N78509	151	130	-10	-4	IAH	ORD	925
##	78115		NA	NA	NA	NA	IAH	DCA	1208
##	78117	N76519	221	198	-14	-5	IAH	SNA	1347
##	78123	N35407	243	214	-8	9	IAH	SFO	1635
##	78128	N12238	212	185	-14	-8	IAH	BOS	1597
##	78130	N13113	173	102	38	-1	IAH	MCO	853
##	78136	N33292	204	173	-6	0	IAH	LAS	1222
##	78138	N57868	152	124	7	11	IAH	DEN	862
##	78140	N27213	144	122	-9	3	IAH	DEN	862
##	78142	N73299	114	92	-10	0	IAH	TPA	787
	78145	N12225	176	140	11	6	IAH	MSP	1034
	78149	N33264	72	49	4	-1	IAH	MSY	305
	78152	N27610	177	159	-6	-3	IAH	BWI	1235
	78154		NA	NA	NA	NA	IAH	LGA	1416
	78158	N73276	164	138	-3	-5	IAH	CLE	1091
	78161		NA	NA	NA	NA	IAH	DCA	1208
	78164	N24729	161	143	-22	-6	IAH	EGE	935
	78166	N75851	283	262	5	0	IAH	SEA	1874
	78169	N26208	251	223	-10	7	IAH	SF0	1635
	78173	N77258	224	188	-6	-3	IAH	BOS	1597
	78179	N79402	208	180	-1	1	IAH	LAS	1222
	78183	N23707	123	93	-7	-5	IAH	TPA	787
	78184	N32404	273	246	-8	-3 NA	IAH	PDX	1825
	78193	N20440	NA	NA 193	NA 10	NA 1	IAH	LGA	1416
	78197	N39418	204	183	-12	1	IAH	SAN	1303
	78198	N75429	159	128	-6	-2	IAH	CLE	1091
##	78199	N77510	164	135	11	7	IAH	ORD	925

	78200	N36280	174	156	-14	12	IAH	SLC	1195
	78202	N14639	118	86	-13	-8	IAH	ATL	689
	78205	N26215	67	46	-4	-3	IAH	MSY	305
	78206	N87507	280	256	5	9	IAH	SEA	1874
	78209	N34222	248	212	-17	-4	IAH	SF0	1635
	78210	N37255	247	221	-20	3	IAH	SF0	1635
	78211	N14230	227	156	180	144	IAH	PHL	1324
	78216	N77871	122	103	-10	1	IAH	MCO	853
	78219	N77295	222	195	4	10	IAH	LAX	1379
	78222	N57857	152	123	-6	4	IAH	DEN	862
	78228	N77014	219	185	45	31	IAH	EWR	1400
	78233	N37408	174	148	13	16	IAH	PHX	1009
	78240		NA	NA	NA	NA	IAH	EWR	1400
	78248	N30401	135	117	3	20	IAH	ORD	925
	78249	N33209	133	112	-12	-2	IAH	FLL	965
	78253		NA	NA	NA	NA	IAH	DCA	1208
	78256	N37409	249	216	-4	7	IAH	SF0	1635
	78259	N12221	58	40	1	5	IAH	SAT	191
	78261	N57857	131	102	-2	6	IAH	MCO	853
	78263	N33289	163	134	-6	-1	IAH	DTW	1076
	78265	N33289	201	182	-30	-6	IAH	LAX	1379
	78266	N13248	202	176	-7	-2	IAH	LAS	1222
	78268	N79521	162	124	9	-1	IAH	DEN	862
	78276	N33266	62	29	10	5	IAH	AUS	140
	78278	N33266	233	220	-28	-2	IAH	SJC	1609
	78279	N76502	167	138	-9	-5	IAH	PIT	1117
	78283	N73270	62	43	-6	-2	IAH	MSY	305
	78285	N16642	137	118	-12	-3	IAH	CLT	913
	78294	N76522	222	195	4	5	IAH	SNA	1347
	78301	N14242	54	38	88	94	IAH	SAT	191
	78303	N39297	164	130	-15 -	-8	IAH	DTW	1076
	78305	N75861	221	195	-5	0	IAH	LAX	1379
	78307	N24224	208	176	-3	1	IAH	LAS	1222
	78311	N75410	113	91	-10	3	IAH	TPA	787
	78312	N39726	213	190	-12	7	IAH	SNA	1347
	78316	N73278	56	29	1	0	IAH	AUS	140
	78318	N14629	53	31	0	1	IAH	AUS	140
	78319	N16649	154	135	-22	-10	IAH	CLE	1091
	78321	N17245	155	136	-3	-1 70	IAH	ORD	925
	78323	N30401	135	118	67	76	IAH	FLL	965
	78327	N76519	57	30	3	2	IAH	AUS	140
	78331	N76522	128	109	1	3	IAH	RSW	861
	78333	N16648	121	95	-5	0	IAH	MCI	643
	78340	N37408	47	30	-12	-3	IAH	AUS	140
	78342	N75432	120	99	-17	0	IAH	MCO	853
	78344	N27239	211	185	-6	-2	IAH	SAN	1303
	78345	N33286	137	115	-3	3	IAH	MIA	964
	78351	NEOCOC	NA S1	NA EG	NA	NA	IAH	DCA	1208
	78357	N58606	81	56	-3 -7	-4	IAH	MFE	316
	78358	N75429	63	44	-7 -25	-2	IAH	MSY	305
	78360	N17719	201	188 NA	-25	1 N A	IAH	SNA	1347
	78361	NOCOOC	NA 240	NA	NA _0	NA	IAH	LGA	1416
	78364	N26226	249	228	-8	-2	IAH	SMF	1609
##	78366	N34222	144	126	-16	-7	IAH	ORD	925

	78367	N33286	140	117	-8	-2	IAH	FLL	965
	78371	N37290	119	97	8	20	IAH	RSW	861
	78375	N14629	131	107	-1	1	IAH	ELP	667
	78376	N36444	190	162	-1	1	IAH	PHL	1324
	78379	N12216	53	37	-15	-3	IAH	SAT	191
	78384	N16632	174	135	-5	-6	IAH	DTW	1076
	78385	N37281	204	181	-16	0	IAH	SAN	1303
	78389	N79279	220	194	-7	4	IAH	LAX	1379
	78394	N17229	78	56	-4	-3	IAH	MFE	316
	78398	N58606	86	64	-5	-3	IAH	OKC	395
	78400	N53442	233	217	-31	-3	IAH	SMF	1609
	78401	N14613	141	122	-12	-3	IAH	ABQ	744
	78402	N75428	204	181	-8	1	IAH	SAN	1303
	78405	N73259	207	188	-18	-3	IAH	ONT	1334
	78409	N77865	155	125	1	1	IAH	ORD	925
	78410	N53442	144	116	10	12	IAH	FLL	965
	78411	N14653	131	99	0	-2	IAH	ATL	689
##	78415	N53441	272	255	-5	7	IAH	SEA	1874
	78417		NA	NA	NA	NA	IAH	PHL	1324
	78419	N37274	59	37	-5	-3	IAH	SAT	191
	78420	N16617	74	41	-3	-5	IAH	DFW	224
##	78422	N26226	138	114	8	10	IAH	MIA	964
##	78425	N57864	217	186	-4	6	IAH	LAX	1379
##	78434	N14731	220	201	-10	0	IAH	SNA	1347
##	78437	N57439	133	110	-9	0	IAH	PBI	956
	78439		NA	NA	NA	NA	IAH	LGA	1416
##	78440	N78501	184	160	140	152	IAH	PHL	1324
	78441	N25705	146	127	-19	1	IAH	CLE	1091
##	78445	N17619	155	124	-8	-6	IAH	RDU	1043
##	78448	N76505	125	105	-11	-1	IAH	OMA	781
##	78453	N37409	128	102	-3	7	IAH	MCO	853
##	78455	N17620	180	153	-6	-4	IAH	HDN	986
##	78458	N23707	236	217	-25	0	IAH	SMF	1609
##	78463	N68061	493	473	-13	-1	IAH	HNL	3904
##	78468	N14230	67	44	-4	-2	IAH	MSY	305
##	78469	N33286	71	41	9	-2	IAH	SAT	191
##	78478	N16632	73	46	-2	-6	IAH	MSY	305
##	78480	N24224	56	32	94	91	IAH	AUS	140
##	78490	N17133	235	192	9	0	IAH	LAX	1379
##	78495	N57868	148	125	106	115	IAH	DEN	862
##	78496	N18119	187	165	-21	0	IAH	EWR	1400
##	78498	N58101	184	158	-24	4	IAH	EWR	1400
##	78504	N12218	190	164	-10	0	IAH	EWR	1400
##	78508	N66051	190	163	-20	0	IAH	EWR	1400
##	78514	N36444	64	44	-4	0	IAH	MSY	305
##	78518	N33284	225	194	1	3	IAH	LAX	1379
##	78519	N57857	160	124	4	2	IAH	ORD	925
##	78522	N76254	210	182	-2	8	IAH	ONT	1334
##	78525	N23707	157	136	-20	-7	IAH	DCA	1208
##	78530	N38403	245	224	-23	1	IAH	SF0	1635
##	78536	N38268	136	114	-9	-2	IAH	MIA	964
##	78540	N77296	140	117	-23	-1	IAH	DEN	862
	78545	N39415	130	106	2	-4	IAH	TPA	787
##	78548	N15712	274	255	-3	-1	IAH	PDX	1825

	78549	N29129	198	162	-14	2	IAH	EWR	1400
##	78551	N53442	271	248	17	-4	IAH	SJU	2007
	78557	N13138	167	147	-14	0	IAH	PHX	1009
	78566	N17719	186	161	-29	-4	IAH	LGA	1416
##	78573	N32626	62	29	3	-6	IAH	AUS	140
##	78575	N17640	161	131	-16	-8	IAH	CLE	1091
##	78578	N17620	145	123	-17	-3	IAH	RDU	1043
##	78584	N76526	142	125	17	46	IAH	DCA	1208
	78590	N33209	151	126	-3	1	IAH	DEN	862
	78593	N71411	232	193	8	-3	IAH	BOS	1597
	78599	N36247	142	122	-14	-4	IAH	DEN	862
	78604	N14228	259	239	28	48	IAH	PDX	1825
	78605	N57855	189	156	-11	9	IAH	EWR	1400
	78608	N34282	169	146	12	24	IAH	PHX	1009
	78609	N37274	79	48	11	0	IAH	MSY	305
	78611	N87513	156	136	-18	0	IAH	BWI	1235
	78615	N73276	210	177	-1	-3	IAH	LGA	1416
	78624	N39726	149	135	-13	-5	IAH	GUC	886
	78632	N38443	264	227	-1	1	IAH	SF0	1635
	78637	N14704	67	41	0	-5	IAH	SAT	191
	78644	N78501	203	176	-8	0	IAH	LAS	1222
	78646	N36247	125	97	-25	-8	IAH	IND	845
	78648	N33209	163	129	-5	4	IAH	IAD	1190
	78650	N37255	157	132	-16	-1	IAH	IAD	1190
	78652	N21723	202	173	1	4	IAH	EWR	1400
	78654	N37298	159	136	-13	0	IAH	IAD	1190
	78657	N77510	247	224	17	28	IAH	SJC	1609
	78658	N73275	69	47	-3	-3	IAH	MSY	305
	78659	N77295	164	142	-13	-1	IAH	BWI	1235
	78665	N19623	94	74	0	-7	IAH	TUL	429
	78666	N78509	146	119	-11	2	IAH	ORD	925
	78668	N27213	146	125	-5	3	IAH	ORD	925
	78673	N33292	152	134	-26	-8	IAH	DCA	1208
	78677	N75428	275	256	- 5	0	IAH	SEA	1874
	78683	N33266	60	39	- 7	-1	IAH	SAT	191
	78684	N76529	213	181	-12	-1	IAH	BOS	1597
	78688	N57855	204	181	-7	-3	IAH	LAS	1222
	78690	N16632	131	104	-19	-5 1	IAH	IND EWR	845
	78696	N37434	210	182	4	-1	IAH		1400
	78697 78703	N37255 N39416	68 168	52 145	-12 -16	-3 -3	IAH IAH	MFE PHX	316 1009
	78709		197	145	-10 -10	-3 -2	IAH	LGA	1416
	78710	N36272 N47414	159	124	-10 -8	-2 -4	IAH	PIT	1117
	78715	N47414 N35407	190	164	-6	1	IAH	SLC	1117
	78716	N14613	168	131	-11	-9	IAH	CLE	1091
	78717	N37287	152	129	-4	1	IAH	ORD	925
	78726	N12221	152	133	-21	-2	IAH	DCA	1208
	78733	N73406	253	226	-15	0	IAH	SFO	1635
	78738	N73400	198	172	-15	5	IAH	BOS	1597
	78740	N73203 N58101	131	106	-13 -4	-1	IAH	MCO	853
	78746	N39297	211	180	2	1	IAH	LAS	1222
	78748	N77865	153	120	12	15	IAH	DEN	862
	78750	N773299	152	118	-3	1	IAH	DEN	862
	78752	N73233 N24202	147	118	19	-4	IAH	TPA	787
ir m	. 0.02	.12 12 02	141	110	13	7	TAII	1111	101

	78755	N27213	162	143	43	52	IAH	MSP	1034
##	78759	N33266	72	48	5	0	IAH	MSY	305
##	78762	N19621	167	143	-20	-7	IAH	BWI	1235
##	78764	N12225	202	172	-9	-3	IAH	LGA	1416
##	78768	N76265	144	126	-17	1	IAH	CLE	1091
##	78772	N37263	157	139	-20	-8	IAH	DCA	1208
##	78774	N24729	170	145	-16	-9	IAH	EGE	935
##	78776	N57862	275	254	0	3	IAH	SEA	1874
##	78782	N13750	197	172	52	82	IAH	BOS	1597
##	78788	N38417	202	177	-8	0	IAH	LAS	1222
##	78792	N16709	121	100	-6	-2	IAH	TPA	787
##	78793	N76505	260	240	32	50	IAH	PDX	1825
##	78802	N39726	176	160	-16	3	IAH	LGA	1416
##	78806	N37419	198	181	-15	4	IAH	SAN	1303
##	78807	N39297	152	121	-19	-8	IAH	CLE	1091
##	78808	N76514	177	123	16	-1	IAH	ORD	925
##	78809	N17233	187	169	-21	-8	IAH	SLC	1195
##	78811	N16649	129	87	1	-5	IAH	ATL	689
##	78812	N76517	201	180	-32	-3	IAH	SNA	1347
##	78815	N76523	76	47	8	0	IAH	MSY	305
##	78816	N33203	266	251	2	20	IAH	SEA	1874
##	78819	N38257	246	228	-12	3	IAH	SFO	1635
##	78820	N34222	254	226	-19	-3	IAH	SFO	1635
##	78821	N18220	178	152	-16	-3	IAH	PHL	1324
##	78826	N77871	157	124	26	2	IAH	MCO	853
	78829	N36280	222	189	-3	3	IAH	LAX	1379
	78831	N57862	132	114	-32	-2	IAH	DEN	862
##	78837	N78005	202	157	4	7	IAH	EWR	1400
##	78842	N75410	165	146	-11	1	IAH	PHX	1009
	78848	N36207	188	160	-18	4	IAH	EWR	1400
	78856	N35407	140	119	-12	0	IAH	ORD	925
##	78857	N38417	132	116	-12	-1	IAH	FLL	965
	78861	N16703	150	129	-30	-5	IAH	DCA	1208
	78864	N79402	256	228	-6	-2	IAH	SFO	1635
	78867	N76515	62	38	2	2	IAH	SAT	191
	78869	N75861	149	112	14	4	IAH	MCO	853
	78871	N26208	169	135	1	0	IAH	DTW	1076
##	78873	N76515	215	189	-1	9	IAH	LAX	1379
	78874	N36280	205	172	-6	-4	IAH	LAS	1222
	78876	N75854	157	130	19	14	IAH	DEN	862
	78884	N37267	51	32	-5	1	IAH	AUS	140
	78886	N37267	238	222	-25	-4	IAH	SJC	1609
	78887	N14639	156	133	-27	-8	IAH	PIT	1117
	78891	N14629	76	48	7	-3	IAH	MSY	305
	78893	N16649	139	111	-5	2	IAH	CLT	913
	78902	N76516	196	181	-29	-2	IAH	SNA	1347
	78908	N26208	59	35	-2	-1	IAH	SAT	191
	78910	N16648	151	128	92	112	IAH	DTW	1076
	78912	N75854	221	193	-8	-3	IAH	LAX	1379
	78917	N38403	126	100	1	1	IAH	TPA	787
	78918	N14704	214	190	-16	2	IAH	SNA	1347
	78922	N32404	57	28	3	1	IAH	AUS	140
	78924	N16617	63	29	6	-3	IAH	AUS	140
	78925	N58606	147	126	-24	-5	IAH	CLE	1091
			111	120		O			1001

шш	70007	N34222	170	125	٥٢	10	IAH	ODD	005
	78927 78929	N34222 N37409	170 159	135 128	25 17	12 2	IAH	ORD FLL	925
	78933	N76517	224		-8	-1	IAH	LAX	965 1379
	78936	N77525	162	194 140	-10	-1 -2	IAH	DCA	1208
	78938	N76516	144	117	9	-2 -5	IAH	RSW	861
	78940	N62631	129	101	-1	-4	IAH	MCI	643
	78947	N37427	54	29	23	25	IAH	AUS	140
	78949	N57427 N57439	128	107	26	35	IAH	MCO	853
	78951	N16234	207	183	-6	2	IAH	SAN	1303
	78952	N33203	138	116	-7	-2	IAH	MIA	964
	78958	N14250	54	31	-5	-3	IAH	AUS	140
	78964	N27213	78	58	-3	-1	IAH	MFE	316
	78965	N62631	62	41	-8	-2	IAH	MSY	305
	78967	N15712	213	186	60	74	IAH	SNA	1347
	78968	N15710	181	156	-12	4	IAH	LGA	1416
	78971	N33286	234	218	-18	3	IAH	SMF	1609
	78973	N76254	136	118	-24	-7	IAH	ORD	925
	78974	N14231	143	117	-7	-4	IAH	FLL	965
	78978	N37287	123	104	-9	-1	IAH	RSW	861
	78982	N16642	140	102	2	-5	IAH	ELP	667
##	78983	N12238	186	156	-5	1	IAH	PHL	1324
##	78986	N39297	65	41	-1	-1	IAH	SAT	191
##	78991	N19621	164	129	-16	-7	IAH	DTW	1076
##	78992	N37273	203	178	-10	7	IAH	SAN	1303
##	78996	N76504	224	194	-7	0	IAH	LAX	1379
##	79001	N16647	74	53	-10	-5	IAH	MFE	316
##	79005	N16617	100	62	8	-4	IAH	OKC	395
	79007	N13248	239	220	-27	-5	IAH	SMF	1609
	79008	N14613	149	120	-7	-6	IAH	ABQ	744
	79009	N35260	200	183	-15	-2	IAH	SAN	1303
	79012	N76265	208	186	-9	1	IAH	ONT	1334
	79016	N75861	149	119	-8	-2	IAH	ORD	925
	79017	N75436	143	122	26	29	IAH	FLL	965
	79018	N62631	137	99	9	1	IAH	ATL	689
	79022	N75432	278	261	-3	3	IAH	SEA	1874
	79024	N37281	185	154	-6	2	IAH	PHL	1324
	79026	N37274	60	36	2	3	IAH	SAT	191
	79027	N17614	75	42	1	-2	IAH	DFW	224
	79029	N73256	144	115	24	20	IAH	MIA	964
	79032	N77867	207	185	18	38	IAH	LAX	1379
	79041 79044	N14731	210 190	187 165	-7 46	13 -2	IAH IAH	SNA PBI	1347 956
	79044	N78438 N35260	189	164	-22	-2 -6	IAH	LGA	1416
	79040	N17233	185	159	-22 -11	0	IAH	PHL	1324
	79048	N78506	157	126	-12	-3	IAH	CLE	1091
	79051	N19638	167	124	7	-3	IAH	RDU	1043
	79054	N87527	131	110	-7	-3	IAH	OMA	781
	79058	N14231	141	112	0	-3	IAH	MCO	853
	79060	N19623	166	146	-25	-9	IAH	HDN	986
	79063	N16703	249	227	-11	1	IAH	SMF	1609
	79068	N76064	501	464	135	139	IAH	HNL	3904
	79073	N76505	80	47	12	1	IAH	MSY	305
	79074	N27213	59	35	-1	0	IAH	SAT	191
	79083	N14629	71	47	16	14	IAH	MSY	305

##	79085	N36207	52	30	0	1	IAH	AUS	140
	79093	N33209	222	187	6	15	IAH	LAX	1379
	79096	N19141	215	188	-12	-1	IAH	LAX	1379
	79101	N75851	153	114	5	9	IAH	DEN	862
	79102	N76156	190	154	-17	1	IAH	EWR	1400
	79104	N19117	190	166	18	40	IAH	EWR	1400
	79109	N13117 N12216	180	159	-21	-1	IAH	EWR	1400
	79113	N76054	196	164	-12	2	IAH	EWR	1400
	79119	N39416	59	41	-14	-5	IAH	MSY	305
	79123	N14228	217	186	13	23	IAH	LAX	1379
	79124	N75861	182	124	22	-2	IAH	ORD	925
	79127	N26208	215	177	32	37	IAH	ONT	1334
	79130	N24702	161	134	-8	1	IAH	DCA	1208
	79135	N37408	261	228	-4	4	IAH	SFO	1635
	79142	N35271	145	112	2	0	IAH	MIA	964
	79147	N57864	204	174	0	2	IAH	LAS	1222
	79149	N26226	155	121	-8	-1	IAH	DEN	862
	79154	N53441	122	98	7	9	IAH	TPA	787
	79157	N13718	271	250	-6	-1	IAH	PDX	1825
	79158	N30401	192	161	-24	-2	IAH	EWR	1400
	79160	N39416	239	210	-3	8	IAH	SJU	2007
	79166	N57111	184	150	9	6	IAH	PHX	1009
##	79172	N17620	160	138	-24	-5	IAH	BWI	1235
##	79176	N73275	190	161	-22	-1	IAH	LGA	1416
##	79183	N24633	66	28	30	17	IAH	AUS	140
##	79185	N14613	161	129	-11	-3	IAH	CLE	1091
##	79188	N19623	174	118	56	41	IAH	RDU	1043
##	79195	N76515	174	134	4	1	IAH	DCA	1208
##	79199	N14242	277	259	-2	5	IAH	SEA	1874
##	79202	N38417	243	219	-1	21	IAH	SF0	1635
##	79203	N33203	165	119	18	8	IAH	DEN	862
##	79206	N33264	72	44	8	2	IAH	SAT	191
	79207	N16701	228	178	7	0	IAH	BOS	1597
	79214	N77430	208	171	-4	1	IAH	LAS	1222
	79216	N73251	137	115	0	15	IAH	DEN	862
	79221	N17244	270	251	-6	3	IAH	PDX	1825
	79222	N56859	188	152	-14	7	IAH	EWR	1400
	79226	N37413	171	144	11	21	IAH	PHX	1009
	79228	N37274	81	47	10	-3	IAH	MSY	305
	79230	N78509	155	139	-13	6	IAH	BWI	1235
	79234	N77261	200	156	-11	-3	IAH	LGA	1416
	79246	N37290	171	130	8	7	IAH	DCA	1208
	79254	N37422	254	229	2	14	IAH	SFO	1635
	79260	N73256	64	43	-1	-3	IAH	SAT	191
	79262	N37277	217	178	-1	3	IAH	BOS	1597
	79268	N77258	201	167	-8	-1	IAH	LAS	1222
	79270	N18220	119	99	43	66	IAH	IND	845
	79272	N73270	206	179	-9 7	-1	IAH	SAN	1303
	79273 79275	N37255	170	137	-7 -11	-5 -1	IAH	IAD	1190
		N33284	162	132 165	-11	-1	IAH	IAD	1190
	79277 79279	N67058 N73256	214 157	165 130	9 -16	0 -1	IAH IAH	EWR IAD	1400 1190
	79279	N73256 N87513	257	227	-16 7	-1	IAH	SJC	1609
	79284	N37267	257 86	46	16	-1	IAH	MSY	305
##	13204	M31201	86	40	10	-1	ТАП	I GII	305

	79285	N36207	187	133	41	30	IAH	BWI	1235
	79288	N25705	201	161	5	5	IAH	LGA	1416
	79292	N58606	82	58	-6	-1	IAH	TUL	429
	79293	N37287	149	112	0	10	IAH	ORD	925
	79295	N14228	155	121	29	28	IAH	ORD	925
	79300	N13248	159	138	-9	2	IAH	DCA	1208
	79304	N75429	263	246	-11	6	IAH	SEA	1874
	79310	N14214	62	35	5	9	IAH	SAT	191
	79313	N76522	211	180	-9	4	IAH	BOS	1597
	79318	N75858	200	169	-9	-1	IAH	LAS	1222
	79320	N33262	144	117	-12	-1	IAH	DEN	862
	79321	N14629	165	103	32	12	IAH	IND	845
	79327	N75426	201	175	-4	0	IAH	EWR	1400
	79328	N24202	73	58	-2	2	IAH	MFE	316
	79334	N37420	165	146	-8	8	IAH	PHX	1009
	79341	N36272	223	176	16	-2	IAH	LGA	1416
	79342	N38403	156	124	-3	4	IAH	PIT	1117
	79347	N71411	195	161	4	6	IAH	SLC	1195
	79348	N16642	147	127	-21	-4	IAH	CLE	1091
	79349	N76514	150	121	0	7	IAH	ORD	925
	79359	N39728	174	130	3	0	IAH	DCA	1208
	79361	N33209	232	190	23	21	IAH	SNA	1347
##	79367	N71411	266	228	58	52	IAH	SF0	1635
##	79372	N73259	204	176	-13	1	IAH	BOS	1597
##	79374	N19117	126	101	29	37	IAH	MCO	853
##	79380	N76265	185	159	1	26	IAH	LAS	1222
##	79382	N75854	146	115	-7	3	IAH	DEN	862
##	79384	N77295	167	120	14	3	IAH	DEN	862
##	79386	N14250	130	97	22	16	IAH	TPA	787
##	79389	N36247	164	131	13	20	IAH	MSP	1034
##	79393	N37287	72	45	5	0	IAH	MSY	305
##	79396	N14629	167	142	-17	-4	IAH	BWI	1235
##	79399	N37255	210	171	7	5	IAH	LGA	1416
##	79403	N33262	146	120	-11	5	IAH	CLE	1091
##	79408	N37263	182	130	51	38	IAH	DCA	1208
##	79411	N24729	164	137	-17	-4	IAH	EGE	935
##	79412	N77871	284	245	48	42	IAH	SEA	1874
##	79419	N14604	236	184	5	-4	IAH	BOS	1597
##	79422	N57868	144	107	16	5	IAH	MCO	853
##	79428	N79402	192	169	26	44	IAH	LAS	1222
##	79432	N23707	141	95	12	-4	IAH	TPA	787
##	79433	N37409	286	248	74	66	IAH	PDX	1825
##	79436	N14250	59	42	-5	2	IAH	MSY	305
##	79443	N24729	195	162	37	37	IAH	LGA	1416
##	79447	N75428	196	178	-9	7	IAH	SAN	1303
##	79448	N37420	214	174	9	12	IAH	SAN	1303
##	79449	N36207	60	29	12	8	IAH	AUS	140
##	79450	N27205	174	128	10	-1	IAH	CLE	1091
	79451	N77510	153	123	-10	-3	IAH	ORD	925
	79452	N76504	178	158	-19	3	IAH	SLC	1195
	79454	N19638	124	82	-4	-5	IAH	ATL	689
	79457	N77296	68	43	2	2	IAH	MSY	305
	79458	N78438	269	251	-5	10	IAH	SEA	1874
	79461	N33284	239	223	-4	18	IAH	SFO	1635
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	79462	N78506	263	225	-10	-3	IAH	SF0	1635
##	79463	N11206	199	156	11	3	IAH	PHL	1324
##	79468	N57869	139	106	4	-2	IAH	MCO	853
##	79470	N17614	161	136	-9	-3	IAH	DTW	1076
##	79472	N12218	226	186	20	22	IAH	LAX	1379
##	79475	N78866	141	119	-19	2	IAH	DEN	862
##	79480	N77014	226	161	24	3	IAH	EWR	1400
##	79485	N77295	164	142	-2	11	IAH	PHX	1009
##	79491	N17245	130	91	3	-3	IAH	TPA	787
##	79492	N17245	197	157	4	17	IAH	EWR	1400
##	79501	N35407	125	110	-22	5	IAH	ORD	925
##	79502	N37287	135	112	-13	-5	IAH	FLL	965
##	79506	N39726	160	134	28	43	IAH	DCA	1208
##	79509	N73406	269	225	36	27	IAH	SF0	1635
##	79512	N14214	58	37	-1	3	IAH	SAT	191
##	79514	N57855	141	102	22	20	IAH	MCO	853
##	79516	N76502	176	135	4	-4	IAH	DTW	1076
##	79518	N76502	217	189	2	10	IAH	LAX	1379
##	79519	N76529	226	178	19	0	IAH	LAS	1222
##	79521	N57857	155	121	6	3	IAH	DEN	862
##	79530	N73275	80	28	57	34	IAH	AUS	140
##	79532	N37263	262	232	3	0	IAH	SJC	1609
##	79533	N14639	165	126	-13	-3	IAH	PIT	1117
##	79537	N16617	68	45	6	4	IAH	MSY	305
	79539	N19638	126	107	-22	-2	IAH	CLT	913
	79545	N37281	154	112	5	-2	IAH	FLL	965
##	79549	N76516	206	185	-7	10	IAH	SNA	1347
##	79551	N16647	132	102	-2	9	IAH	RSW	861
##	79558	N73299	171	148	-19	2	IAH	PHL	1324
##	79560	N73276	56	34	-2	2	IAH	SAT	191
##	79562	N76517	179	126	24	16	IAH	DTW	1076
##	79565	N56859	230	182	6	2	IAH	LAX	1379
##	79567	N36444	226	171	20	6	IAH	LAS	1222
##	79568	N18243	193	130	32	9	IAH	DCA	1208
	79572	N37408	114	93	0	12	IAH	TPA	787
##	79574	N16701	216	190	-14	2	IAH	SNA	1347
	79579	N38403	53	27	5	7	IAH	AUS	140
##	79581	N32626	62	28	7	-1	IAH	AUS	140
	79582	N17640	153	131	-16	-3	IAH	CLE	1091
	79584	N36280	155	119	23	25	IAH	ORD	925
##	79586	N35407	136	109	-9	-1	IAH	FLL	965
	79593	N76516	140	106	18	8	IAH	RSW	861
	79595	N16632	125	86	21	22	IAH	MCI	643
	79602	N53441	74	28	48	30	IAH	AUS	140
	79604	N75436	127	108	-7	3	IAH	MCO	853
	79606	N26215	198	176	13	30	IAH	SAN	1303
	79607	N24202	147	108	8	4	IAH	MIA	964
	79614	N24224	58	29	6	4	IAH	AUS	140
	79615	N37427	219	184	-2	4	IAH	LAX	1379
	79622	N75425	185	149	3	2	IAH	PHX	1009
	79623	N15712	80	61	6	6	IAH	MFE	316
	79624	N17719	57	40	-11	0	IAH	MSY	305
	79626	N13718	205	183	-19	3	IAH	SNA	1347
	79627	N14731	185	168	-12	0	IAH	LGA	1416
			100	100		· ·		_ ~	1110

##	79630	N24633	107	58	54	25	IAH	MFE	316
	79631	N24033 N18220	234	219	-9	12	IAH	SMF	1609
	79633	N37409	170	133	49	32	IAH	ORD	925
	79634	N11206	138	112	12	20	IAH	FLL	965
	79638	N17244	135	98	25	21	IAH	RSW	861
	79641	N16649	140	102	27	20	IAH	ELP	667
	79642	N33289	186	149	9	15	IAH	PHL	1324
	79645	N39728	83	43	14	-4	IAH	SAT	191
	79650	N46625	189	129	16	0	IAH	DTW	1076
	79651	N76503	226	194	13	7	IAH	SAN	1303
	79652	N29717	145	112	-4	-1	IAH	MIA	964
	79656	N35204	218	188	-10	3	IAH	LAX	1379
	79661	N34222	77	54	58	60	IAH	MFE	316
	79666	N17620	80	56	0	8	IAH	OKC	395
	79668	N35271	248	221	-12	1	IAH	SMF	1609
	79669	N16647	131	113	-20	-1	IAH	ABQ	744
	79670	N37277	193	175	-5	15	IAH	SAN	1303
	79672	N36247	201	185	-17	0	IAH	ONT	1334
	79677	N79402	170	117	24	9	IAH	ORD	925
	79678	N75425	160	115	32	18	IAH	FLL	965
##	79680	N16632	122	83	-5	2	IAH	ATL	689
	79685	N73251	299	265	13	-2	IAH	SEA	1874
	79688	N78501	194	158	9	8	IAH	PHL	1324
##	79691	N37273	64	40	14	11	IAH	SAT	191
##	79692	N14613	176	139	15	15	IAH	TUS	936
##	79695	N38727	77	41	7	2	IAH	DFW	224
##	79697	N76504	148	112	6	-2	IAH	MIA	964
##	79700	N57868	217	182	13	23	IAH	LAX	1379
##	79709	N54711	217	191	-15	-2	IAH	SNA	1347
##	79710	N19621	71	43	-1	-3	IAH	MSY	305
##	79713	N45440	145	111	4	1	IAH	PBI	956
##	79715	N76265	187	161	-21	-3	IAH	LGA	1416
##	79716	N14230	183	161	1	14	IAH	PHL	1324
##	79717	N27724	150	129	-7	9	IAH	CLE	1091
##	79721	N62631	164	118	32	25	IAH	RDU	1043
##	79724	N78506	135	105	4	4	IAH	AMO	781
##	79728	N27213	129	104	-2	7	IAH	MCO	853
	79730	N58606	164	139	-20	-2	IAH	HDN	986
	79733	N29717	243	214	5	23	IAH	SMF	1609
	79738	N76065	489	466	-15	1	IAH	HNL	3904
	79743	N12221	60	38	51	60	IAH	MSY	305
	79744	N58606	66	43	1	-5	IAH	SAT	191
	79754	N14653	58	42	-14	-3	IAH	MSY	305
	79756	N14613	49	33	-9	-5	IAH	AUS	140
	79762	N77518	229	190	3	5	IAH	LAX	1379
	79765	N13113	234	188	6	-2	IAH	LAX	1379
	79770	N57869	143	124	-6	8	IAH	DEN	862
	79771	N76153	183	159	-24	1	IAH	EWR	1400
	79773	N34131	197	155	4	19	IAH	EWR	1400
	79777	N73278	194	165	3	1	IAH	EWR	1400
	79781	N66051	188	164	-13 7	1	IAH	EWR MCV	1400
	79786	N13718	75	41	7	0	IAH	MSY	305
	79790	N79279	213	189	2	16 _1	IAH	LAX	1379
##	79792	N57864	137	111	-22	-1	IAH	ORD	925

	70705	N4 00 40	404	470	07	4	T A 11	ONTE	4004
	79795	N13248	194	178	-27	-1	IAH	ONT	1334
	79798	N16701	154	138	-9	7	IAH	DCA	1208
	79803	N75410	237	215	-27	0	IAH	SF0	1635
	79810	N33264	138	108	1	6	IAH	MIA	964
	79815	N57863	193	169	- 5	3	IAH	LAS	1222
	79817	N14237	140	118	-25	-8	IAH	DEN	862
	79820	N38424	120	95	-8	-4	IAH	TPA	787
	79822	N21723	286	266	29	19	IAH	PDX	1825
	79823	N72405	191	157	-22	1	IAH	EWR	1400
	79825	N53441	237	213	13	21	IAH	SJU	2007
	79830	N48127	170	145	-8	-2	IAH	PHX	1009
	79835	N19638	167	139	-10	-3	IAH	BWI	1235
	79839	N76517	184	161	-25	-3	IAH	LGA	1416
	79845	N46625	68	30	11	-4	IAH	AUS	140
	79847	N27610	156	126	-15	-2	IAH	CLE	1091
	79850	N76503	142	115	-10	3	IAH	RDU	1043
	79859	N73291	276	259	3	11	IAH	SEA	1874
	79862	N36444	264	229	5	1	IAH	SF0	1635
##	79863	N37287	152	121	-2	1	IAH	DEN	862
##	79864	N76529	62	41	0	-1	IAH	SAT	191
##	79869	N75435	196	174	2	14	IAH	LAS	1222
##	79870	N76505	142	122	4	14	IAH	DEN	862
##	79874	N12221	273	255	-3	-2	IAH	PDX	1825
##	79875	N57870	177	154	-29	3	IAH	EWR	1400
##	79880	N53442	168	146	-14	-1	IAH	PHX	1009
##	79882	N33266	68	43	-6	-6	IAH	MSY	305
##	79884	N76522	156	136	-13	5	IAH	BWI	1235
##	79895	N15712	161	132	-2	-6	IAH	GUC	886
##	79898	N77261	156	137	-14	-5	IAH	DCA	1208
##	79905	N12216	254	231	-5	7	IAH	SFO	1635
##	79910	N19621	75	40	7	-6	IAH	SAT	191
##	79912	N73275	197	172	-17	2	IAH	BOS	1597
##	79918	N76504	205	178	0	3	IAH	LAS	1222
##	79920	N17619	130	99	-16	-1	IAH	IND	845
	79922	N34282	204	181	-1	4	IAH	SAN	1303
	79923	N37287	155	136	-16	1	IAH	IAD	1190
	79925	N33209	161	142	-9	2	IAH	IAD	1190
	79927	N69059	184	164	2	15	IAH	EWR	1400
	79929	N76514	162	136	-11	-1	IAH	IAD	1190
	79931	N78509	251	230	2	9	IAH	SJC	1609
	79933	N11641	79	42	8	-2	IAH	MSY	305
	79934	N14250	162	137	-3	11	IAH	BWI	1235
	79937	N24702	178	158	-22	-4	IAH	LGA	1416
	79941	N16732	90	64	12	9	IAH	TUL	429
	79942	N39416	148	117	-9	2	IAH	ORD	925
	79948	N76505	155	132	- 5	10	IAH	DCA	1208
	79952	N36444	271	255	2	11	IAH	SEA	1874
	79958	N77261	54	33	-14	-2	IAH	SAT	191
	79961	N87512	211	182	-14	-1	IAH	BOS	1597
	79966	N77871	190	163	-11	2	IAH	LAS	1222
	79968	N24202	142	120	-6	2	IAH	DEN	862
	79969	N14653	134	101	-15	-4	IAH	IND	845
	79973	N37422	185	164	-11	1	IAH	EWR	1400
	79973	N37422 N23707	76	54	13	14	IAH	MFE	316
##	13314	N23101	70	54	13	14	TAU	rif E	210

##	79977	N47414	177	149	-1	3	IAH	PHX	1009
##	79983	N37274	194	163	-7	4	IAH	LGA	1416
##	79984	N37408	153	127	0	10	IAH	PIT	1117
##	79988	N17245	192	168	0	0	IAH	SLC	1195
##	79989	N37253	146	128	-20	-7	IAH	CLE	1091
##	79990	N14231	146	115	-6	0	IAH	ORD	925
##	79999	N14731	167	130	-7	-3	IAH	DCA	1208
##	80004	N79402	244	223	-7	9	IAH	SF0	1635
##	80009	N24212	199	174	-19	0	IAH	BOS	1597
##	80010	N34131	123	100	-3	3	IAH	MCO	853
##	80016	N11206	191	166	-1	18	IAH	LAS	1222
##	80018	N57868	147	122	-12	-3	IAH	DEN	862
##	80020	N78506	146	122	-11	-1	IAH	DEN	862
##	80022	N76519	118	91	-10	-4	IAH	TPA	787
##	80025	N37281	162	133	8	17	IAH	MSP	1034
##	80029	N37263	65	43	-1	1	IAH	MSY	305
##	80033	N77258	199	166	-9	0	IAH	LGA	1416
##	80036	N76508	134	118	-29	-1	IAH	CLE	1091
##	80040	N33262	164	134	12	17	IAH	DCA	1208
##	80043	N17133	165	142	-9	-2	IAH	EGE	935
##	80044	N57855	273	255	3	8	IAH	SEA	1874
##	80047	N33203	249	226	5	24	IAH	SF0	1635
##	80052	N77295	211	175	-11	5	IAH	BOS	1597
##	80055	N77865	128	100	-4	-4	IAH	MCO	853
##	80060	N71411	195	173	-14	1	IAH	LAS	1222
##	80064	N35407	285	262	14	7	IAH	PDX	1825
##	80067	N77510	58	41	-3	0	IAH	MSY	305
	80074	N37277	181	162	-10	4	IAH	LGA	1416
##	80077	N26226	207	181	12	17	IAH	SAN	1303
##	80078	N37427	202	181	2	12	IAH	SAN	1303
##	80079	N76519	50	28	-5	-4	IAH	AUS	140
	80080	N23707	148	123	-16	-1	IAH	CLE	1091
	80081	N37293	136	110	-16	8	IAH	ORD	925
	80082	N12238	196	174	-7	-3	IAH	SLC	1195
##	80084	N16649	120	84	-10	-7	IAH	ATL	689
##	80085	N77520	208	193	5	22	IAH	SNA	1347
	80089	N11206	56	41	-1	11	IAH	MSY	305
	80090	N45440	291	269	16	9	IAH	SEA	1874
	80093	N73256	246	228	-2	13	IAH	SF0	1635
	80094	N35407	251	226	-20	-3	IAH	SF0	1635
	80099	N75861	131	104	-3	-1	IAH	MCO	853
	80101	N29717	151	128	-10	-3	IAH	DTW	1076
	80104	N14228	216	191	-10	2	IAH	LAX	1379
	80107	N56859	148	123	-10	-1	IAH	DEN	862
	80109	N78004	190	162	-15	0	IAH	EWR	1400
	80112	N37409	165	141	-5	7	IAH	PHX	1009
	80119	N12225	121	94	0	-2	IAH	TPA	787
	80120	N16648	182	153	-20	14	IAH	EWR	1400
	80128	N75861	137	116	-13	2	IAH	ORD	925
	80129	N37293	140	116	3	1	IAH	FLL	965
	80133	N16709	146	134	-30	-6	IAH	DCA	1208
	80136	N73406	264	227	5	1	IAH	SF0	1635
	80139	N14250	64	42	10	8	IAH	SAT	191
##	80141	N56859	133	104	-9	-3	IAH	MCO	853

	80143	N14214	155	131	-17	-4	IAH	DTW	1076
##	80145	N78285	210	188	-15	0	IAH	LAX	1379
	80146	N14228	219	184	18	1	IAH	LAS	1222
	80148	N76517	155	129	10	7	IAH	DEN	862
##	80157	N73270	51	31	-2	4	IAH	AUS	140
##	80160	N33264	255	233	-1	-2	IAH	SJC	1609
##	80161	N15712	149	125	-15	11	IAH	PIT	1117
##	80165	N37408	62	43	-5	-1	IAH	MSY	305
##	80172	N16703	133	110	38	47	IAH	FLL	965
##	80176	N76522	203	182	-21	-1	IAH	SNA	1347
##	80184	N19623	173	150	-21	-1	IAH	PHL	1324
##	80186	N73299	58	38	22	24	IAH	SAT	191
##	80188	N25705	157	129	-15	-1	IAH	DTW	1076
##	80191	N39416	221	189	-4	-4	IAH	LAX	1379
##	80193	N73278	216	178	6	2	IAH	LAS	1222
##	80197	N75410	114	90	-8	4	IAH	TPA	787
##	80199	N54711	222	194	-3	7	IAH	SNA	1347
##	80205	N16648	54	29	-2	-2	IAH	AUS	140
##	80206	N17627	147	126	-12	0	IAH	CLE	1091
##	80208	N12225	130	113	-29	-2	IAH	ORD	925
##	80210	N30401	134	108	-8	2	IAH	FLL	965
##	80213	N77520	49	30	-7	0	IAH	AUS	140
##	80216	N79521	116	98	-6	8	IAH	RSW	861
##	80218	N17620	127	96	-3	-4	IAH	MCI	643
##	80225	N75426	50	30	-6	-5	IAH	AUS	140
##	80227	N75425	128	98	16	25	IAH	MCO	853
##	80229	N75432	195	178	-17	3	IAH	SAN	1303
##	80230	N79279	140	119	-5	-2	IAH	MIA	964
##	80237	N33292	170	139	0	0	IAH	DCA	1208
##	80238	N75426	216	193	0	9	IAH	LAX	1379
##	80245	N39415	175	149	-3	1	IAH	PHX	1009
##	80246	N11641	88	56	6	-2	IAH	MFE	316
##	80247	N37408	63	42	-3	-3	IAH	MSY	305
##	80249	N39728	201	188	-27	-1	IAH	SNA	1347
##	80250	N24729	188	165	-1	8	IAH	LGA	1416
##	80254	N24202	272	240	22	5	IAH	SMF	1609
##	80256	N79402	136	118	-8	4	IAH	ORD	925
##	80257	N73259	139	110	6	13	IAH	FLL	965
##	80261	N14231	119	97	-8	4	IAH	RSW	861
##	80264	N14242	120	98	-16	-3	IAH	ELP	667
##	80265	N38417	183	156	1	10	IAH	PHL	1324
##	80267	N16642	58	41	-8	-6	IAH	SAT	191
##	80272	N16647	168	131	-9	-4	IAH	DTW	1076
##	80273	N27421	194	174	-10	16	IAH	SAN	1303
##	80274	N54241	128	109	-4	11	IAH	MIA	964
	80278	N26210	231	198	0	0	IAH	LAX	1379
	80283	N17245	82	57	6	3	IAH	MFE	316
	80287	N14613	107	62	34	15	IAH	OKC	395
	80289	N19621	138	115	-12	0	IAH	ABQ	744
	80291	N37419	201	178	-6	6	IAH	SAN	1303
	80293	N37277	194	181	-28	-5	IAH	ONT	1334
	80296	N30401	55	29	1	1	IAH	AUS	140
	80298	N53442	148	118	-3	-1	IAH	ORD	925
	80299	N75429	127	112	-22	-3	IAH	FLL	965

									222
	80301	N16649	128	94	-4	-3	IAH	ATL	689
	80306	N13248	274	255	3	8	IAH	SEA	1874
	80309	N26208	178	150	-7	8	IAH	PHL	1324
	80312	N37267	57	36	20	24	IAH	SAT	191
	80313	N16647	171	139	-1	-1	IAH	TUS	936
	80316	N59630	94	42	18	-4	IAH	DFW	224
	80318	N12238	140	107	2	2	IAH	MIA	964
	80321	N77865	224	190	3	6	IAH	LAX	1379
	80330	N23708	212	193	-21	-3	IAH	SNA	1347
	80331	N16648	67	43	-3	-6	IAH	MSY	305
	80334	N39415	131	106	-16	-5	IAH	PBI	956
	80336	N35271	189	165	-11	0	IAH	LGA	1416
	80337	N73299	174	155	-16	6	IAH	PHL	1324
	80338	N37437	143	120	-21	2	IAH	CLE	1091
	80342	N32626	150	119	13	20	IAH	RDU	1043
	80345	N37427	129	108	-2	4	IAH	AMO	781
	80350	N27610	144	108	2	-6	IAH	MCO	853
	80352	N76503	164	141	-11	-1	IAH	HDN	986
	80355	N16709	252	229	-8	1	IAH	SMF	1609
	80360	N69063	478	465	-10	17	IAH	HNL	3904
	80365	N17627	62	41	-3	-1	IAH	MSY	305
##	80374	N77261	62	43	-2	-2	IAH	MSY	305
##	80376	N37274	50	30	3	1	IAH	AUS	140
##	80384	N17139	209	186	-13	-1	IAH	LAX	1379
##	80389	N75432	160	129	26	18	IAH	DEN	862
##	80390	N68159	183	165	-10	7	IAH	EWR	1400
##	80392	N17126	188	162	9	25	IAH	EWR	1400
	80397	N78866	194	159	4	2	IAH	EWR	1400
##	80400	N67052	216	181	17	3	IAH	EWR	1400
##	80406	N12221	218	196	33	42	IAH	LAX	1379
##	80408	N57862	155	132	5	3	IAH	ORD	925
##	80411	N26210	224	192	16	12	IAH	ONT	1334
##	80417	N32404	265	240	2	1	IAH	SF0	1635
##	80423	N37281	130	107	3	11	IAH	MIA	964
##	80429	N37427	209	186	49	42	IAH	LAS	1222
##	80431	N37298	157	134	-9	-9	IAH	DEN	862
##	80434	N14629	120	91	-7	-5	IAH	TPA	787
##	80436	N27733	271	255	-2	-2	IAH	PDX	1825
##	80437	N72405	189	163	-16	1	IAH	EWR	1400
##	80439	N53441	229	211	-17	-1	IAH	SJU	2007
##	80441	N19136	164	143	11	23	IAH	PHX	1009
##	80445	N14653	183	164	15	6	IAH	BWI	1235
##	80451	N87512	48	28	18	18	IAH	AUS	140
##	80452	N19621	165	136	2	-5	IAH	CLE	1091
##	80455	N73259	144	124	0	6	IAH	RDU	1043
##	80457	N79521	159	140	-10	-3	IAH	DCA	1208
##	80461	N33289	286	270	12	5	IAH	SEA	1874
##	80464	N18243	265	244	1	-4	IAH	SF0	1635
##	80465	N37298	156	128	7	2	IAH	DEN	862
	80468	N16617	66	40	0	-5	IAH	SAT	191
	80469	N73276	210	187	-7	-1	IAH	BOS	1597
	80475	N24224	195	177	-14	-1	IAH	LAS	1222
	80476	N77261	144	121	-3	0	IAH	DEN	862
	80480	N37281	279	263	13	8	IAH	PDX	1825

	80481	N74856	185	158	12	28	IAH	EWR	1400
	80486	N77431	171	150	10	15	IAH	PHX	1009
	80488	N33266	62	42	3	4	IAH	MSY	305
	80490	N14613	168	146	-7	-2	IAH	BWI	1235
	80494	N17244	180	160	-25	-2	IAH	LGA	1416
	80499	N25705	NA	NA	NA	10	IAH	GUC	886
	80502	N15710	154	138	-10	-2	IAH	DCA	1208
	80509	N17233	253	234	-2	6	IAH	SF0	1635
	80513	N17640	60	40	-3	-6	IAH	SAT	191
	80514	N37267	217	188	2	1	IAH	BOS	1597
	80519	N33203	209	182	15	12	IAH	LAS	1222
	80522	N78506	161	142	-7	4	IAH	IAD	1190
	80523	N68061	183	159	-15	-1	IAH	EWR	1400
	80525	N33209	165	146	-8	-1	IAH	IAD	1190
	80528	N87512	243	226	-8	2	IAH	SJC	1609
	80530	N77510	68	43	-3	-7	IAH	MSY	305
	80531	N76508	169	147	0	2	IAH	BWI	1235
	80533	N27733	192	170	-7	1	IAH	LGA	1416
	80537	N57863	141	118	7	20	IAH	ORD	925
	80539	N77296	156	133	14	8	IAH	ORD	925
	80543	N76517	167	143	-1	-3	IAH	DCA	1208
	80546	N47414	278	261	8	5	IAH	SEA	1874
##	80552	N37277	67	39	9	3	IAH	SAT	191
##	80553	N76515	207	186	-11	1	IAH	BOS	1597
##	80557	N57852	198	173	-4	1	IAH	LAS	1222
##	80559	N76508	160	132	18	8	IAH	DEN	862
##	80560	N16642	140	110	-6	-6	IAH	IND	845
##	80564	N76505	189	162	-8	0	IAH	EWR	1400
##	80565	N27239	75	52	0	-3	IAH	MFE	316
##	80568	N79402	164	147	-9	3	IAH	PHX	1009
##	80575	N36272	189	163	-14	-3	IAH	LGA	1416
##	80576	N75435	162	139	6	2	IAH	PIT	1117
##	80579	N79402	198	179	8	2	IAH	SLC	1195
##	80580	N24729	167	144	4	0	IAH	CLE	1091
##	80581	N78524	164	144	19	7	IAH	ORD	925
##	80589	N15712	162	146	-7	-3	IAH	DCA	1208
##	80591	N29717	221	196	-6	-2	IAH	SNA	1347
##	80595	N73406	260	230	14	9	IAH	SF0	1635
##	80598	N26208	203	183	-10	0	IAH	BOS	1597
##	80599	N17126	119	96	-8	2	IAH	MCO	853
##	80604	N37293	200	181	-13	-8	IAH	LAS	1222
##	80606	N56859	151	133	2	2	IAH	DEN	862
##	80608	N77296	174	142	33	11	IAH	DEN	862
##	80610	N37434	111	91	-9	-1	IAH	TPA	787
##	80613	N12225	164	141	0	2	IAH	MSP	1034
##	80615	N19623	171	139	-4	0	IAH	BWI	1235
##	80618	N16703	184	164	-21	-2	IAH	LGA	1416
##	80623	N27724	149	129	10	16	IAH	CLE	1091
##	80627	N16732	151	134	-8	5	IAH	DCA	1208
##	80630	N17133	171	147	3	4	IAH	EGE	935
	80631	N75861	295	267	42	20	IAH	SEA	1874
##	80636	N14250	211	188	-15	-4	IAH	BOS	1597
##	80638	N77430	127	95	-2	-1	IAH	MCO	853
##	80644	N33286	199	178	0	6	IAH	LAS	1222

	80648	N27724	121	93	-2	-3	IAH	TPA	787
	80649	N30401	260	242	16	29	IAH	PDX	1825
	80654	N14250	72	45	11	0	IAH	MSY	305
	80661	N73275	196	181	1	-5	IAH	LGA	1416
	80665	N78285	200	185	-6	1	IAH	SAN	1303
	80666	N36444	205	183	-5	2	IAH	SAN	1303
	80667	N37274	50	30	-2	-1	IAH	AUS	140
	80668	N33714	163	136	5	-2	IAH	CLE	1091
	80669	N37419	153	131	-3	-1	IAH	ORD	925
	80670	N21723	183	166	-15	-3	IAH	SLC	1195
	80672	N14231	107	84	-15	- 5	IAH	ATL	689
	80675	N35204	58	44	-6	-1	IAH	MSY	305
	80676	N75426	273	258	-8	-2	IAH	SEA	1874
	80679	N78506	264	237	8	0	IAH	SF0	1635
	80680	N54241	263	228	17	22	IAH	SF0	1635
	80684	N57864	125	98	-5	-2	IAH	MCO	853
	80686	N16642	176	148	74	60	IAH	DTW	1076
	80687	N37273	203	186	-23	-3	IAH	LAX	1379
	80689	N57868	147	120	9	19	IAH	DEN	862
	80691	N37018	185	159	-13	-1	IAH	EWR	1400
	80698	N24702	107	89	-16	-4	IAH	TPA	787
##	80699	N13750	189	161	-15	-2	IAH	EWR	1400
##	80708	N12216	134	115	-4	0	IAH	FLL	965
##	80714	N53442	248	231	-4	3	IAH	SF0	1635
##	80716	N14604	56	37	-4	-3	IAH	SAT	191
##	80718	N77871	123	96	86	97	IAH	MCO	853
##	80720	N16648	175	152	5	-3	IAH	DTW	1076
##	80722	N35204	228	195	17	10	IAH	LAX	1379
##	80723	N38727	208	185	4	-2	IAH	LAS	1222
##	80731	N73270	58	31	6	0	IAH	AUS	140
##	80733	N33264	253	229	-2	-1	IAH	SJC	1609
##	80734	N14604	167	138	0	3	IAH	PIT	1117
##	80738	N77258	62	42	-3	-4	IAH	MSY	305
##	80740	N16647	135	113	-9	-3	IAH	CLT	913
##	80745	N76502	146	118	7	3	IAH	FLL	965
##	80748	N16649	135	108	-7	-4	IAH	RSW	861
##	80754	N16732	183	161	3	7	IAH	PHL	1324
##	80756	N75435	56	37	0	-1	IAH	SAT	191
##	80760	N74856	224	196	1	-2	IAH	LAX	1379
##	80763	N32404	113	87	-8	0	IAH	TPA	787
##	80768	N17614	51	29	-1	-3	IAH	AUS	140
##	80769	N19638	157	139	-5	-3	IAH	CLE	1091
##	80771	N54241	134	120	-19	0	IAH	ORD	925
##	80773	N75410	141	115	4	2	IAH	FLL	965
##	80777	N14242	123	102	-10	-5	IAH	RSW	861
##	80779	N19638	120	97	-1	0	IAH	MCI	643
##	80786	N14242	64	29	7	-6	IAH	AUS	140
##	80788	N39415	127	101	-5	0	IAH	MCO	853
	80790	N12216	194	177	-14	2	IAH	SAN	1303
	80791	N12221	153	118	7	-3	IAH	MIA	964
	80799	N24702	47	29	-9	-5	IAH	AUS	140
	80800	N47414	220	194	18	18	IAH	LAX	1379
	80807	N37437	166	146	-13	0	IAH	PHX	1009
	80808	N27610	70	50	-10	-5	IAH	MFE	316

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	80809	N76515	59	45	-11	-7	IAH	MSY	305
	80812	N39728	249	233	-3	-2	IAH	SMF	1609
	80814	N75432	158	137	8	-2	IAH	ORD	925
	80815	N76503	54	30	5	1	IAH	AUS	140
	80816	N76529	139	112	-4	-2	IAH	FLL	965
	80819	N78524	116	98	2	12	IAH	RSW	861
	80821	N16649	133	100	-1	-6	IAH	ELP	667
	80824	N16648	62	35	-3	-5	IAH	SAT	191
	80827	N78501	206	184	-9	0	IAH	SAN	1303
	80828	N26210	150	116	8	1	IAH	MIA	964
	80831	N76265	212	188	30	44	IAH	LAX	1379
	80835	N17245	73	54	-1	0	IAH	MFE	316
	80839	N27610	84	63	3	2	IAH	OKC	395
	80841	N33262	255	235	-4	-3	IAH	SMF	1609
	80842	N19623	130	112	-17	-2	IAH	ABQ	744
	80844	N14219	194	178	-21	-7	IAH	SAN	1303
##	80845	N33284	55	40	-4	-4	IAH	SAT	191
	80846	N14219	167	144	-6	-4	IAH	MTJ	926
##	80849	N73275	206	190	-10	1	IAH	ONT	1334
##	80852	N77431	166	148	15	-1	IAH	ORD	925
##	80853	N77430	141	112	6	6	IAH	FLL	965
##	80857	N76504	309	274	29	-1	IAH	SEA	1874
##	80860	N24212	177	154	-13	-2	IAH	PHL	1324
##	80863	N23721	55	39	1	2	IAH	SAT	191
##	80864	N17620	177	138	2	-4	IAH	TUS	936
##	80866	N16617	71	49	3	-1	IAH	DFW	224
##	80867	N37293	131	109	-13	-4	IAH	MIA	964
##	80870	N57869	227	196	14	9	IAH	LAX	1379
##	80877	N23708	208	190	-23	-6	IAH	SNA	1347
##	80878	N17614	75	45	6	-5	IAH	MSY	305
##	80881	N37437	129	109	-10	-2	IAH	PBI	956
##	80883	N77295	184	167	4	11	IAH	PHL	1324
##	80886	N39728	143	120	-12	-7	IAH	RDU	1043
##	80889	N34282	138	109	3	-2	IAH	AMO	781
##	80894	N23721	127	98	-9	-3	IAH	MCO	853
##	80896	N26208	174	155	3	3	IAH	HDN	986
##	80899	N79279	249	225	-5	2	IAH	SMF	1609
##	80903	N76065	486	461	-16	3	IAH	HNL	3904
##	80908	N26208	55	40	-10	4	IAH	MSY	305
##	80909	N12221	65	39	2	-3	IAH	SAT	191
##	80919	N17640	58	40	-3	8	IAH	MSY	305
##	80921	N73299	55	32	1	-1	IAH	AUS	140
##	80929	N77520	222	188	-9	0	IAH	LAX	1379
##	80932	N29124	220	196	-4	-3	IAH	LAX	1379
##	80937	N37427	165	133	23	15	IAH	DEN	862
##	80938	N58101	224	199	77	61	IAH	EWR	1400
##	80940	N17139	172	152	5	45	IAH	EWR	1400
	80946	N76254	185	161	-16	-1	IAH	EWR	1400
	80949	N69059	209	166	5	6	IAH	EWR	1400
	80958	N17244	210	191	-16	1	IAH	LAX	1379
	80960	N75861	154	129	-5	-1	IAH	ORD	925
	80963	N78285	222	191	2	0	IAH	ONT	1334
	80966	N16713	159	140	-11	0	IAH	DCA	1208
	80971	N30401	254	230	-10	5	IAH	SF0	1635
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	80978	N37274	146	108	3	0	IAH	MIA	964
	80984	N75851	203	174	1	4	IAH	LAS	1222
	80986	N39297	162	129	-1	-1	IAH	DEN	862
	80991	N36444	127	97	5	2	IAH	TPA	787
	80994	N24715	292	273	12	-4	IAH	PDX	1825
	80995	N33203	210	154	0	4	IAH	EWR	1400
	80997	N45440	242	218	-6	2	IAH	SJU	2007
	81003	N13113	182	148	3	2	IAH	PHX	1009
	81009	N14613	173	148	7	13	IAH	BWI	1235
	81013	N37277	189	164	-22	0	IAH	LGA	1416
	81020	N14639	61	28	4	-4	IAH	AUS	140
	81022	N17620	168	133	-3	-2	IAH	CLE	1091
	81025	N17619	146	120	-6	7	IAH	RDU	1043
	81032	N87512	155	137	-10	6	IAH	DCA	1208
	81036	N39415	292	268	9	1	IAH	SEA	1874
	81039	N37434	256	241	-6	3	IAH	SFO	1635
	81040	N33289	161	128	12	6	IAH	DEN	862
	81043	N37273	62	38	-2	2	IAH	SAT	191
##	81044	N33266	232	205	10	-1	IAH	BOS	1597
	81051	N78438	214	184	-1	-2	IAH	LAS	1222
##	81053	N37255	147	128	-1	4	IAH	DEN	862
##	81058	N76508	293	263	19	5	IAH	PDX	1825
##	81059	N77867	203	156	-4	2	IAH	EWR	1400
##	81064	N39418	172	151	0	9	IAH	PHX	1009
##	81066	N76503	65	44	-7	-4	IAH	MSY	305
##	81068	N76515	166	142	-4	4	IAH	BWI	1235
##	81072	N76269	188	169	-21	-1	IAH	LGA	1416
##	81084	N15710	154	138	-20	-4	IAH	DCA	1208
##	81092	N17233	244	226	-14	8	IAH	SF0	1635
##	81098	N11641	65	38	6	3	IAH	SAT	191
##	81100	N35271	212	189	-8	1	IAH	BOS	1597
##	81106	N26226	202	176	-1	8	IAH	LAS	1222
##	81108	N36247	134	108	-10	-2	IAH	IND	845
##	81110	N33264	208	188	-5	1	IAH	SAN	1303
##	81111	N14629	170	142	-8	-6	IAH	IAD	1190
##	81113	N54241	172	141	-1	-1	IAH	IAD	1190
##	81115	N67058	181	159	-27	-3	IAH	EWR	1400
	81117	N14237	163	142	-12	-3	IAH	IAD	1190
##	81120	N37293	248	224	7	17	IAH	SJC	1609
##	81122	N37267	60	40	-8	1	IAH	MSY	305
##	81123	N77258	172	136	4	8	IAH	BWI	1235
##	81126	N14731	198	174	3	6	IAH	LGA	1416
##	81130	N24633	93	68	2	-4	IAH	TUL	429
##	81131	N57862	139	118	28	48	IAH	ORD	925
##	81133	N37252	147	125	-12	-5	IAH	ORD	925
##	81138	N77296	163	144	-9	-2	IAH	DCA	1208
##	81142	N37434	286	270	4	-2	IAH	SEA	1874
##	81148	N73276	62	38	-3	1	IAH	SAT	191
##	81151	N77525	222	198	3	5	IAH	BOS	1597
##	81156	N75853	208	175	2	2	IAH	LAS	1222
	81158	N37274	156	126	4	3	IAH	DEN	862
##	81159	N73299	132	99	-15	-2	IAH	IND	845
	81165	N75429	178	158	-29	-2	IAH	EWR	1400
##	81166	N76502	74	51	1	4	IAH	MFE	316

##	81172	N75428	173	149	-8	0	IAH	PHX	1009
##	81179	N73270	199	172	50	56	IAH	LGA	1416
##	81180	N77430	158	130	-5	0	IAH	PIT	1117
##	81185	N53442	199	182	12	10	IAH	SLC	1195
##	81186	N16632	171	140	1	-6	IAH	CLE	1091
##	81187	N38257	143	118	-10	4	IAH	ORD	925
##	81197	N29717	158	141	-14	-1	IAH	DCA	1208
##	81204	N53442	245	231	-16	-1	IAH	SF0	1635
##	81209	N38257	199	178	-16	3	IAH	BOS	1597
##	81211	N17139	124	96	-3	7	IAH	MCO	853
##	81217	N78506	215	179	13	8	IAH	LAS	1222
##	81219	N78866	148	126	2	10	IAH	DEN	862
##	81221	N37252	153	128	-4	-1	IAH	DEN	862
	81223	N24224	123	95	34	35	IAH	TPA	787
	81226	N14219	165	140	27	33	IAH	MSP	1034
	81230	N37267	57	41	2	12	IAH	MSY	305
	81233	N33714	169	144	-8	-2	IAH	BWI	1235
	81236	N37273	212	193	140	136	IAH	LGA	1416
	81240	N76516	148	125	-6	8	IAH	CLE	1091
	81245	N15710	158	136	-10	1	IAH	DCA	1208
	81248	N33132	171	150	-4	2	IAH	EGE	935
	81249	N75854	315	288	48	11	IAH	SEA	1874
	81252	N47414	249	222	2	21	IAH	SF0	1635
	81257	N24212	223	200	-3	1	IAH	BOS	1597
	81260	N37427	132	98	0	1	IAH	MCO	853
	81266	N37409	202	178	86	94	IAH	LAS	1222
	81270	N24702	117	92	-7	1	IAH	TPA	787
	81271	N75410	311	281	33	0	IAH	PDX	1825
	81274	N29717	60	42	-6	0	IAH	MSY	305
	81281	N37277	217	186	49	27	IAH	LGA	1416
	81285	N34282	189	172	-14	9	IAH	SAN	1303
	81286	N47414	197	175	-16	4	IAH	SAN	1303
	81287	N12221	56	28	4	4	IAH	AUS	140
	81288	N26210	167	136	2	-2	IAH	CLE	1091
	81289	N87527	148	122	-4	8	IAH	ORD	925
	81290	N25705	192	179	6	14	IAH	SLC	1195
	81292	N17640	137	88	5	-9	IAH	ATL	689
	81293	N76516	203	184	-16	11	IAH	SNA	1347
	81297	N78285	55	40	-11	2	IAH	MSY	305
	81298	N39416	306	282	25	3	IAH	SEA	1874
	81301	N33286	252	234	-11	-2	IAH	SF0	1635
	81302	N14219	257	227	-15	-2	IAH	SF0	1635
	81303	N24212	173	152	-22	-4	IAH	PHL	1324
	81308	N74856	127	101	-9	-3	IAH	MCO	853
	81310 81313	N16649	159	136	-11	-3	IAH	DTW	1076
		N76504	220	195	22	30	IAH	LAX	1379
	81316	N57852	152	125	-6	4	IAH	DEN	862
	81322	N78009	216	186	32	21	IAH	EWR	1400
	81326	N73406	173	151	17 -10	21 -5	IAH	PHX	1009
	81332	N37298	119	91 165	-10 -10	-5 7	IAH	TPA	787 1400
	81333	N16709	193	165 121	-10 -14	7 -3	IAH	EWR	1400 925
	81342	N77430	141 136	114	-14 -8		IAH	ORD	925 965
	81343	N17244	136 165		-8 -4	-1 6	IAH	FLL DCA	
##	81347	N24729	165	144	-4	б	IAH	DCA	1208

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	81350	N72405	262	233	5	3	IAH	SFO	1635
	81353	N17619	55	42	30	37	IAH	SAT	191
	81355	N57852	128	99	-12	-1	IAH	MCO	853
	81357	N79279	170	137	-3	- 5	IAH	DTW	1076
	81359	N37252	218	194	0	7	IAH	LAX	1379
	81360	N78285	191	171	6	22	IAH	LAS	1222
	81362	N73283	157	133	5	0	IAH	DEN	862
	81371	N73275	61	32	11	7	IAH	AUS	140
	81373	N77520	248	224	-11	0	IAH	SJC	1609
	81374	N17627	192	137	19	2	IAH	PIT	1117
	81378	N37281	52	40	53	67	IAH	MSY	305
	81380	N17627	132	111	-15	-1	IAH	CLT	913
	81386	N35204	201	173	54	0	IAH	FLL	965
	81390	N76517	210	189	-7	6	IAH	SNA	1347
	81392	N16642	126	104	-22	-5	IAH	RSW	861
	81399	N73259	178	163	-4	10	IAH	PHL	1324
##	81401	N36247	61	38	10	9	IAH	SAT	191
	81403	N15712	165	128	-8	-2	IAH	DTW	1076
##	81406	N77867	226	183	-1	-1	IAH	LAX	1379
##	81408	N79402	201	174	-13	-2	IAH	LAS	1222
##	81412	N38403	123	89	37	40	IAH	TPA	787
##	81414	N39726	218	193	-7	7	IAH	SNA	1347
##	81419	N77431	59	32	5	1	IAH	AUS	140
##	81421	N16647	53	29	-6	-5	IAH	AUS	140
##	81422	N62631	170	140	5	1	IAH	CLE	1091
##	81424	N37298	147	117	5	15	IAH	ORD	925
##	81426	N73406	135	115	-3	6	IAH	FLL	965
##	81430	N76519	159	140	-2	9	IAH	DCA	1208
##	81434	N76517	122	105	-12	-4	IAH	RSW	861
##	81436	N17614	130	100	17	13	IAH	MCI	643
##	81443	N24715	59	31	-1	-4	IAH	AUS	140
##	81445	N78524	123	97	-4	10	IAH	MCO	853
##	81447	N33209	193	175	-14	8	IAH	SAN	1303
##	81448	N17233	138	111	-2	3	IAH	MIA	964
##	81456	N14250	54	31	4	6	IAH	AUS	140
##	81457	N34222	226	191	3	2	IAH	LAX	1379
##	81464	N75436	164	144	-20	0	IAH	PHX	1009
##	81465	N24633	85	58	4	-1	IAH	MFE	316
##	81466	N26215	60	43	-10	-2	IAH	MSY	305
##	81468	N24715	195	180	-21	11	IAH	SNA	1347
##	81469	N19638	221	190	112	94	IAH	LGA	1416
##	81472	N17614	98	58	17	-3	IAH	MFE	316
##	81473	N12216	249	231	-4	2	IAH	SMF	1609
##	81475	N75410	144	121	-10	-1	IAH	ORD	925
	81476	N12225	141	115	-6	-1	IAH	FLL	965
	81480	N73259	128	94	-4	-1	IAH	RSW	861
	81483	N11641	140	114	-1	-8	IAH	ELP	667
	81484	N37437	179	154	-7	6	IAH	PHL	1324
	81487	N11641	48	35	2	19	IAH	SAT	191
	81492	N16617	177	135	-3	-7	IAH	DTW	1076
	81493	N14230	190	175	15	45	IAH	SAN	1303
	81494	N14230	147	117	6	7	IAH	MIA	964
	81498	N26215	216	192	-13	2	IAH	LAX	1379
	81503	N24729	69	53	-11	-1	IAH	MFE	316
ir m	31000		03	00	11	1	IAII		010

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	81508	N16648	89	66	-3	-4	IAH	OKC	395
	81510	N38417	256	230	-8	-3	IAH	SMF	1609
	81511	N16642	152	122	- 5	-7	IAH	ABQ	744
	81512	N34222	199	183	-13	1	IAH	SAN	1303
	81514	N77510	198	177	-21	3	IAH	ONT	1334
	81519	N79402	138	122	28	45	IAH	ORD	925
	81520	N12218	141	108	0	5	IAH	FLL	965
	81522	N17614	118	84	-4	7	IAH	ATL	689
	81527	N37281	318	290	32	-2	IAH	SEA	1874
	81530	N38417	178	147	-16	-1	IAH	PHL	1324
	81533	N33262	58	39	13	16	IAH	SAT	191
	81534	N12225	158	131	-18	0	IAH	TUS	936
	81537	N14645	73	46	2	1	IAH	DFW	224
	81539	N33286	133	112	-2	5	IAH	MIA	964
	81542	N75858	217	186	0	10	IAH	LAX	1379
	81551	N23708	225	193	0	5	IAH	SNA	1347
	81552	N14645	60	41	-15	-6	IAH	MSY	305
	81555	N75436	145	108	2	-1	IAH	PBI	956
##	81557	N36272	215	182	7	-3	IAH	LGA	1416
	81558	N14242	181	163	-11	4	IAH	PHL	1324
	81559	N27722	164	137	0	2	IAH	CLE	1091
##	81563	N19623	145	118	-16	-4	IAH	RDU	1043
##	81566	N73291	139	114	1	-3	IAH	OMA	781
##	81571	N76504	122	98	-12	4	IAH	MCO	853
##	81573	N19638	182	158	-7	-7	IAH	HDN	986
##	81576	N33266	254	229	6	13	IAH	SMF	1609
##	81581	N77066	485	469	-7	13	IAH	HNL	3904
##	81586	N24212	92	44	33	10	IAH	MSY	305
##	81587	N78285	96	38	41	5	IAH	SAT	191
##	81597	N14613	77	44	49	41	IAH	MSY	305
##	81599	N76529	58	31	4	-1	IAH	AUS	140
##	81607	N36207	222	182	34	43	IAH	LAX	1379
##	81610	N19130	213	186	-13	0	IAH	LAX	1379
##	81615	N74856	152	126	775	780	IAH	DEN	862
##	81616	N14115	199	163	4	13	IAH	EWR	1400
##	81618	N18119	188	158	50	74	IAH	EWR	1400
##	81624	N27239	178	152	-22	0	IAH	EWR	1400
##	81628	N76062	199	167	-14	-3	IAH	EWR	1400
##	81634	N34222	67	47	6	7	IAH	MSY	305
##	81638	N77258	239	181	23	11	IAH	LAX	1379
##	81640	N75861	190	118	38	6	IAH	ORD	925
##	81643	N34282	212	188	-7	1	IAH	ONT	1334
##	81646	N16709	173	127	2	-1	IAH	DCA	1208
##	81651	N37408	242	222	-31	-4	IAH	SF0	1635
##	81658	N37273	155	109	15	3	IAH	MIA	964
##	81664	N77871	203	167	8	11	IAH	LAS	1222
##	81666	N37298	150	120	-14	-2	IAH	DEN	862
##	81671	N75432	142	95	24	6	IAH	TPA	787
##	81674	N24706	296	269	19	-1	IAH	PDX	1825
	81675	N38424	191	160	-14	9	IAH	EWR	1400
	81677	N75429	235	212	-9	6	IAH	SJU	2007
	81683	N12109	165	145	47	63	IAH	PHX	1009
	81689	N17614	157	137	-28	-6	IAH	BWI	1235
	81693	N73275	180	161	-35	-4	IAH	LGA	1416

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	81700 81702	N27610	77 197	29	23	-1	IAH IAH	AUS CLE	140
		N14604	187 151	128	19 11	1 15	IAH	RDU	1091 1043
	81705 81712	N24729 N76529	158	116 138	-14	-1	IAH	DCA	1208
	81716	N70329 N14231	300	280	15	-1 -1	IAH	SEA	1874
	81719	N78438	243	220	-23	-1 -1	IAH	SFO	1635
	81720	N76436 N26215	174	128	55 55	36	IAH	DEN	862
	81723	N35260	69	40	-1	-4	IAH	SAT	191
	81724	N77261	198	177	-22	1	IAH	BOS	1597
	81731	N38417	191	170	-10	12	IAH	LAS	1222
	81733	N37427	152	122	12	12	IAH	DEN	862
	81738	N14250	291	272	11	-1	IAH	PDX	1825
	81739	N57863	208	156	37	38	IAH	EWR	1400
	81744	N75425	187	141	45	39	IAH	PHX	1009
	81746	0 120	NA	NA	NA	NA	IAH	MSY	305
	81748	N77525	155	133	-18	1	IAH	BWI	1235
	81752	N37274	178	158	-34	-4	IAH	LGA	1416
	81763	N14731	168	137	8	-3	IAH	GUC	886
	81766	N15710	149	131	-25	-4	IAH	DCA	1208
	81774	N76254	270	226	19	15	IAH	SF0	1635
##	81780	N33266	75	43	43	30	IAH	SAT	191
##	81782	N76265	203	183	-16	2	IAH	BOS	1597
##	81788	N17229	213	178	7	5	IAH	LAS	1222
##	81790	N37277	145	102	2	-1	IAH	IND	845
##	81792	N33284	195	175	-13	6	IAH	SAN	1303
	81793	N25705	155	129	-19	-2	IAH	IAD	1190
##	81795	N12216	171	128	-3	-2	IAH	IAD	1190
	81797	N17233	185	158	-20	0	IAH	EWR	1400
	81799	N54241	149	127	-23	0	IAH	IAD	1190
	81802	N76517	273	216	49	34	IAH	SJC	1609
	81804	N35271	101	44	35	3	IAH	MSY	305
	81805	N78506	172	142	8	12	IAH	BWI	1235
	81808	N27722	179	157	-19	3	IAH	LGA	1416
	81812	N17640	91	62	-2	-6	IAH	TUL	429
	81813	N75851	160	115	10	9	IAH	ORD	925
	81815	N33203	148	123	-9	-3	IAH	ORD	925
	81820	N35204	166	146	-10	-6	IAH	DCA	1208
	81824	N24211	326	295	58	12	IAH	SEA	1874
	81830	N76504	87	35 182	45 2	24 10	IAH IAH	SAT BOS	191 1597
	81833 81838	N76522 N57862	216 202	174	-7	-1	IAH	LAS	1222
	81840	N37273	166	130	11	0	IAH	DEN	862
	81841	N37273 N17620	153	107	7	-1	IAH	IND	845
	81847	N45440	191	160	-12	2	IAH	EWR	1400
	81848	N35204	89	60	16	4	IAH	MFE	316
	81854	N35407	174	144	0	7	IAH	PHX	1009
	81860	N73276	232	154	29	2	IAH	LGA	1416
	81861	N53441	152	119	-12	-1	IAH	PIT	1117
	81866	N72405	189	168	0	8	IAH	SLC	1195
	81867	N17619	154	131	-16	-6	IAH	CLE	1091
	81868	N76515	149	115	-9	-1	IAH	ORD	925
	81878	N25705	176	146	2	-3	IAH	DCA	1208
	81885	N72405	272	219	30	18	IAH	SFO	1635
	81890	N29717	204	178	-6	8	IAH	BOS	1597
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	81892	N18119	123	103	-11	0	IAH	MCO	853
	81898	N33203	195	168	-1	14	IAH	LAS	1222
	81900	N77867	150	123	63	69	IAH	DEN	862
	81902	N77296	166	126	11	1	IAH	DEN	862
##	81904	N12218	136	97	33	21	IAH	TPA	787
##	81907	N39728	173	142	4	2	IAH	MSP	1034
##	81911	N75851	93	44	30	4	IAH	MSY	305
##	81914	N14613	164	138	-21	-5	IAH	BWI	1235
##	81917	N11641	213	173	26	21	IAH	LGA	1416
##	81921	N14250	163	128	30	29	IAH	CLE	1091
##	81926	N15710	178	136	19	10	IAH	DCA	1208
##	81929	N17139	168	145	-8	1	IAH	EGE	935
##	81930	N57864	325	270	89	42	IAH	SEA	1874
##	81933	N37422	261	220	-3	4	IAH	SF0	1635
##	81938	N14653	227	177	1	1	IAH	BOS	1597
##	81941	N57864	133	106	3	3	IAH	MCO	853
##	81947	N79402	231	174	25	4	IAH	LAS	1222
##	81951	N16713	112	92	-13	0	IAH	TPA	787
##	81952	N73406	283	250	5	0	IAH	PDX	1825
##	81955	N14219	67	43	2	1	IAH	MSY	305
##	81962		NA	NA	NA	NA	IAH	LGA	1416
##	81966	N37434	194	172	-2	16	IAH	SAN	1303
##	81967	N39415	201	181	-17	-1	IAH	SAN	1303
##	81968	N26215	66	30	23	13	IAH	AUS	140
##	81969	N13248	195	124	30	-2	IAH	CLE	1091
##	81970	N78524	165	120	21	16	IAH	ORD	925
##	81971	N77296	216	187	22	6	IAH	SLC	1195
##	81973	N16648	129	84	27	21	IAH	ATL	689
##	81974	N87513	213	191	-21	-4	IAH	SNA	1347
##	81978	N24211	84	46	20	4	IAH	MSY	305
##	81979	N37437	315	280	55	24	IAH	SEA	1874
##	81982	N33286	254	222	-1	6	IAH	SF0	1635
##	81983	N34222	256	232	-17	-3	IAH	SF0	1635
##	81984	N24729	172	151	-18	1	IAH	PHL	1324
##	81989	N57852	174	101	42	1	IAH	MCO	853
##	81991	N14639	154	128	-18	-5	IAH	DTW	1076
##	81994	N17244	248	182	68	48	IAH	LAX	1379
##	81997	N75853	149	119	-16	-3	IAH	DEN	862
	82003	N77022	210	158	14	9	IAH	EWR	1400
##	82008	N75410	169	141	15	23	IAH	PHX	1009
##	82014	N73291	109	92	19	34	IAH	TPA	787
##	82015	N73251	186	154	-10	14	IAH	EWR	1400
##	82024	N78438	143	118	-3	6	IAH	ORD	925
	82025	N77258	127	110	-20	-4	IAH	FLL	965
	82029	N27724	156	137	-26	-7	IAH	DCA	1208
	82032	N32404	275	224	26	11	IAH	SF0	1635
##	82035	N73259	82	37	44	24	IAH	SAT	191
	82037	N75853	147	101	18	10	IAH	MCO	853
	82039	N12225	161	126	-9	-2	IAH	DTW	1076
	82041	N12238	211	180	-14	0	IAH	LAX	1379
	82042	N76503	202	177	-4	1	IAH	LAS	1222
	82044	N73275	162	127	22	12	IAH	DEN	862
	82053	N76516	73	31	22	6	IAH	AUS	140
	82055	N33264	250	226	-11	-2	IAH	SJC	1609

##	92056	N10601	171	106	0	10	ТАЦ	חדת	1117
	82056 82060	N19621 N37277	171 74	126 43	8 6	12 -2	IAH IAH	PIT MSY	1117 305
	82062		130	104		-2 -5	IAH	CLT	913
	82068	N16648 N33289	130	112	-21 -18	-5 -1	IAH	FLL	965
	82072	N77525	211	183	9	21	IAH	SNA	1347
	82074	N77525 N14645	126	100	-17	0	IAH	RSW	861
	82081	N36207	165	146	-17 -29	-2	IAH	PHL	1324
	82083	N37434	68	36	-2 <i>9</i> 25	-2 17	IAH	SAT	191
	82085	N73291	165	131	-7	-1	IAH	DTW	1076
	82088	N73291 N57863	231	184	2	-3	IAH	LAX	1379
	82090	N35260	207	166	7	12	IAH	LAS	1222
	82091	N14230	173	141	4	1	IAH	DCA	1208
	82095	N37408	135	94	16	7	IAH	TPA	787
	82097	N16701	222	177	-11	-1	IAH	SNA	1347
	82102	N30401	58	29	27	24	IAH	AUS	140
	82104	N17627	69	31	14	-1	IAH	AUS	140
	82105	N13624	135	119	-18	13	IAH	CLE	1091
	82107	N34222	157	128	22	22	IAH	ORD	925
	82109	N75410	188	110	49	5	IAH	FLL	965
	82116	N12238	173	97	45	2	IAH	RSW	861
	82118	N62631	133	95	32	25	IAH	MCI	643
	82125	N37434	54	31	26	28	IAH	AUS	140
	82127	N75436	136	104	10	11	IAH	MCO	853
	82129	N73299	213	167	9	11	IAH	SAN	1303
	82130	N73299	126	104	-19	-2	IAH	MIA	964
	82138	N87513	56	30	0	0	IAH	AUS	140
	82139	N36280	222	188	0	3	IAH	LAX	1379
	82146	N47414	183	151	-2	-1	IAH	PHX	1009
	82147	N17620	126	62	43	-3	IAH	MFE	316
	82148	N16234	55	42	-6	7	IAH	MSY	305
	82150	N16703	220	188	-10	-3	IAH	SNA	1347
##	82151	N27724	199	169	0	4	IAH	LGA	1416
##	82154	N18622	82	58	13	9	IAH	MFE	316
##	82155	N78285	229	203	-3	23	IAH	SMF	1609
##	82157	N35407	127	111	-14	12	IAH	ORD	925
##	82158	N38257	157	107	41	30	IAH	FLL	965
##	82162	N33209	162	102	40	9	IAH	RSW	861
##	82165	N17627	145	94	45	33	IAH	ELP	667
##	82166	N39418	190	146	6	8	IAH	PHL	1324
##	82169	N27610	61	39	-15	-11	IAH	SAT	191
	82174	N16642	179	126	2	-4	IAH	DTW	1076
	82175	N24224	212	175	-5	3	IAH	SAN	1303
##	82176	N17229	131	109	-19	-2	IAH	MIA	964
	82180	N37287	225	189	38	44	IAH	LAX	1379
	82185	N33714	82	61	1	-2	IAH	MFE	316
	82190	N17614	94	60	3	-3	IAH	OKC	395
	82192	N38443	251	228	-15	-5	IAH	SMF	1609
	82193	N14645	147	115	3	6	IAH	ABQ	744
	82194	N75428	194	168	-5	14	IAH	SAN	1303
	82196	N24212	205	186	-20	-3	IAH	ONT	1334
	82201	N79402	134	112	-22	-1	IAH	ORD	925
	82202	N14237	151	109	10	5	IAH	FLL	965
	82204	N62631	122	93	-8	-1	IAH	ATL	689
##	82209	N37252	300	276	14	-2	IAH	SEA	1874

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	82212	N27239	195	143	12	10	IAH	PHL	1324
	82215	N33266	58	36	9	12	IAH	SAT	191
	82216	N14604	161	137	3	18	IAH	TUS	936
	82219	N32626	86	46	13	-1	IAH	DFW	224
	82221	N33203	193	109	52	-1	IAH	MIA	964
	82224	N56859	241	197	21	7	IAH	LAX	1379
	82233	N23708	235	182	15	10	IAH	SNA	1347
	82234	N17627	59	40	17	27	IAH	MSY	305
	82237	N38443	146	106	0	-4	IAH	PBI	956
	82239	N76269	188	163	-21	-4	IAH	LGA	1416
	82240	N77520	176	156	-1	19	IAH	PHL	1324
	82241	N15712	157	126	-8	1	IAH	CLE	1091
	82245	N18622	179	122	22	0	IAH	RDU	1043
	82248	N37293	125	108	-12	-2	IAH	OMA	781
	82253	N54241	133	103	-7	-2	IAH	MCO	853
	82255	N17640	174	150	-9	-1	IAH	HDN	986
	82258	N37255	252	220	-5	4	IAH	SMF	1609
	82263	N76064	495	475	-9	1	IAH	HNL	3904
	82268	N17229	57	41	-13	-1	IAH	MSY	305
	82269	N35204	59	38	-6	-5	IAH	SAT	191
	82278	N37434	66	44	-3	0	IAH	MSY	305
	82280	N18622	62	32	4	- 5	IAH	AUS	140
	82288	N87512	231	197	0	0	IAH	LAX	1379
	82291	N19141	211	184	-12	3	IAH	LAX	1379
	82296	N75861	163	124	38	32	IAH	DEN	862
	82297	N26123	192	170	4	20	IAH	EWR	1400
	82299	N33103	213	180	1	0	IAH	EWR	1400
	82305	N73256	197	169	-5	-2	IAH	EWR	1400
	82309	N66051	199	173	-11	0	IAH	EWR	1400
	82315	N18223	64	41	- 5	-1	IAH	MSY	305
	82319	N14250	218	191	9	18	IAH	LAX	1379
	82320	N57862	141	118	11	28	IAH	ORD	925
	82323	N13248	205	182	-11	4	IAH	ONT	1334
	82326	N39726	166	140	-9	-5	IAH	DCA	1208
##	82331	N34222	258	239	-11	0	IAH	SF0	1635
##		N76269	138	106	-9	-4	IAH	MIA	964
	82341	N14230	151	126	163	174	IAH	DEN	862
	82346	N39423	112	96	2	14	IAH	TPA	787
	82349	N38727	273	253	-6	-3	IAH	PDX	1825
	82350	N37409	199	171	-16	-1	IAH	EWR	1400
	82352	N45440	238	220	-13	-1	IAH	SJU	2007
	82358	N67134	173	150	-11	-3	IAH	PHX	1009
	82367	N76265	206	175	-9	-4	IAH	LGA	1416
	82374	N16646	51	28	-5	-3	IAH	AUS	140
	82376	N17619	164	132	-7	-2	IAH	CLE	1091
	82379	N14653	146	124	-9	4	IAH	RDU	1043
	82385	N78524	164	144	-11	-4	IAH	DCA	1208
	82391	N27239	159	130	5	1	IAH	DEN	862
	82394	N38417	212	187	-13	-4	IAH	BOS	1597
	82400	N17245	143	121	-14	-5	IAH	DEN	862
	82405	N36247	272	255	-9	-2	IAH	PDX	1825
##	82406	N75858	189	160	-17	3	IAH	EWR	1400
##	82410	N37413	173	151	-8	0	IAH	PHX	1009
##	82411	N37277	65	42	5	8	IAH	MSY	305

##	82413	N87513	159	144	-10	5	IAH	BWI	1235
##	82417	N37255	185	166	38	61	IAH	LGA	1416
##	82429	N34282	164	150	-14	-8	IAH	DCA	1208
##	82435	N38257	256	230	-5	5	IAH	SF0	1635
##	82440	N77258	56	37	-7	-1	IAH	SAT	191
##	82447	N12238	199	179	-8	1	IAH	LAS	1222
##	82449	N17245	137	112	-7	-2	IAH	IND	845
##	82451	N13248	168	144	-9	-5	IAH	IAD	1190
##	82453	N12225	167	144	-6	-1	IAH	IAD	1190
##	82455	N73278	206	184	-2	-3	IAH	EWR	1400
##	82457	N12216	157	138	-17	-2	IAH	IAD	1190
##	82460	N37287	248	227	-2	8	IAH	SJC	1609
##	82461	N37255	72	42	2	-1	IAH	MSY	305
##	82462	N76508	177	143	0	-1	IAH	BWI	1235
##	82465	N15712	187	169	-18	-4	IAH	LGA	1416
##	82469	N14639	90	60	0	-3	IAH	TUL	429
##	82470	N77871	159	116	-1	-1	IAH	ORD	925
##	82472	N27724	157	133	-2	-5	IAH	ORD	925
	82477	N76503	173	143	36	33	IAH	DCA	1208
	82481	N39418	275	259	-7	-2	IAH	SEA	1874
	82487	N77261	62	37	-2	2	IAH	SAT	191
	82488	N78501	220	193	-2	2	IAH	BOS	1597
	82492	N57868	200	179	-6	2	IAH	LAS	1222
	82494	N18622	148	108	-5	-8	IAH	IND	845
	82500	N38424	203	180	1	3	IAH	EWR	1400
	82501	N27722	77	58	4	4	IAH	MFE	316
	82507	N30401	179	151	-3	-1	IAH	PHX	1009
	82513	N73276	206	180	0	-1	IAH	LGA	1416
	82514	N14219	159	133	4	8	IAH	PIT	1117
	82519	N30401	198	174	1	0	IAH	SLC	1195
	82520	N14645	158	137	-19	-7	IAH	CLE	1091
	82521	N18223	144	120	-18	-5	IAH	ORD	925
	82531	N14731	177	151	0	-6	IAH	DCA	1208
	82533	N76526	221	193	-10	-1	IAH	SNA	1347
	82539	N38417	247	223	- 5	8	IAH	SF0	1635
	82544	N33294	202	181	-19	-3	IAH	BOS	1597
	82546	N18119	125	102	5	14	IAH	MCO	853
	82552	N37298	198	179	-9	3	IAH	LAS	1222
	82554	N75851	156	131	0	0	IAH	DEN	862
	82556	N24211	160	131	19	15	IAH	DEN	862
	82558	N14237	131	92	24	17	IAH	TPA	787
	82561	N34282	164	134	-8	-1	IAH	MSP	1034
	82565	N33264	62	41	- 5	0	IAH	MSY	305
	82568	N62631	185	152	0	-5	IAH	BWI	1235
	82570	N78506	208	186	-1	-1	IAH	LGA	1416
	82574	N39416	146	126	-9	7	IAH	CLE	1091
	82577	N33714	167	139	-3	-1	IAH	DCA	1208
	82580	N13718	174	156	0	3	IAH	EGE	935
	82582	N57852	284	266	7	1	IAH	SEA	1874
	82585	N33286	249	227	-16	3	IAH	SFO	1635
	82589	N76504	229	197	3	1	IAH	BOS	1597
	82595	N37408	200	177	43	53	IAH	LAS	1222
	82599	N39726	116	98	-8	1	IAH	TPA	787
	82600	N75410	289	261	9	-2	IAH	PDX	1825
π#	52000	7110-110	209	201	9	2	TWII	י דע	1020

	82609	N76265	189	164	-6	0	IAH	LGA	1416
	82613	N39415	212	190	-7	-2	IAH	SAN	1303
	82614	N36272	164	127	-2	-3	IAH	CLE	1091
	82615	N76517	138	119	-22	0	IAH	ORD	925
	82616	N35204	187	170	-18	-5	IAH	SLC	1195
	82618	N17640	132	88	2	-7	IAH	ATL	689
	82621	N24224	59	43	-13	-4	IAH	MSY	305
	82622	N37290	288	263	16	12	IAH	SEA	1874
	82625	N12225	245	226	-16	0	IAH	SF0	1635
	82626	N33289	263	238	-7	0	IAH	SF0	1635
	82627	N33209	187	167	-2	2	IAH	PHL	1324
	82632	N57864	131	105	-9	-7	IAH	MCO	853
	82635	N17233	217	196	-13	-2	IAH	LAX	1379
	82638	N57863	161	125	-5	-4	IAH	DEN	862
	82644	N76010	199	174	0	6	IAH	EWR	1400
	82649	N35407	169	145	-1	7	IAH	PHX	1009
	82656	N18220	184	156	-12	14	IAH	EWR	1400
	82664	N72405	137	114	-18	-3	IAH	ORD	925
	82665	N14250	135	117	-11	-3	IAH	FLL	965
	82669	N24715	149	134	-15	11	IAH	DCA	1208
	82672	N73406	260	222	3	3	IAH	SF0	1635
	82675	N24212	65	34	0	-3	IAH	SAT	191
	82677	N57863	134	100	12	17	IAH	MCO	853
	82679	N39297	157	139	-8	3	IAH	DTW	1076
	82681	N39297	209	181	-16	0	IAH	LAX	1379
	82682	N14237	205	181	-4	-2	IAH	LAS	1222
	82684	N78509	150	126	-1	1	IAH	DEN	862
	82692	N33264	57	28	1	1	IAH	AUS	140
	82694	N77261	255	236	-1	3	IAH	SJC	1609
	82695	N24212	156	132	-19	-4	IAH	PIT	1117
	82699	N35271	57	44	-8	1	IAH	MSY	305
	82701	N24633	136	115	-16	-6	IAH	CLT	913
	82710	N76522	203	183	-20	0	IAH	SNA	1347
	82717	N73291	52	39	32	40	IAH	SAT	191
	82719	N37252	158	128	-17	-4	IAH	DTW	1076
	82721	N77871	223	197	-1	2	IAH	LAX	1379
	82723	N76502	223	183	13	2	IAH	LAS	1222
	82727	N38403	171	139	51	6	IAH	TPA	787
	82728	N23708	232	199	5	5	IAH	SNA	1347
	82732	N76503	50	29	11	16	IAH	AUS	140
	82734	N16648	45	28	5	14	IAH	AUS	140
	82735	N11641	145	129	-26	-5	IAH	CLE	1091
	82737	N12218	135	116	-18	4	IAH	ORD	925
	82739	N72405	142	121	0	2	IAH	FLL	965
	82743	N76526	47	30	-8	1	IAH	AUS	140
	82747	N76522	132	106	1	-1	IAH	RSW	861
	82749	N13624	144	91	13	-5	IAH	MCI	643
	82756	N37413	48	29	-12	-4	IAH	AUS	140
	82758	N12221	119	97	-18	0	IAH	MCO	853
	82760	N53442	215	186	11	11	IAH	SAN	1303
	82761	N37290	140	118	0	3	IAH	MIA	964
	82767	N73251	166	140	-1	3	IAH	DCA	1208
	82773	N14604	81	56	-4	-5	IAH	MFE	316
##	82774	N37408	57	43	-12	-1	IAH	MSY	305

	82776	N39728	224	204	-3	0	IAH	SNA	1347
	82777	N27610	186	160	1	18	IAH	LGA	1416
	82780	N18223	237	223	-17	1	IAH	SMF	1609
	82782	N37267	136	119	-17	0	IAH	ORD	925
	82783	N33209	152	119	10	4	IAH	FLL	965
	82787	N77295	128	98	-1	2	IAH	RSW	861
	82791	N16648	131	107	-6	-4	IAH	ELP	667
	82792	N78438	184	157	0	8	IAH	PHL	1324
	82795	N76517	55	39	-10	0	IAH	SAT	191
	82800	N14645	181	136	3	-5	IAH	DTW	1076
	82801	N76288	201	183	-23	-4	IAH	SAN	1303
	82805	N27213	218	197	-8	5	IAH	LAX	1379
	82810	N77258	72	53	-10	-3	IAH	MFE	316
	82814	N14604	87	61	-5	-4	IAH	OKC	395
	82816	N75428	253	233	-14	-6	IAH	SMF	1609
	82817	N17627	146	120	-10	-6	IAH	ABQ	744
	82818	N75432	198	181	-9	6	IAH	SAN	1303
	82821	N33286	208	189	-16	-2	IAH	ONT	1334
	82825	N57852	152	129	-9	-6	IAH	ORD	925
	82826	N75428	139	119	-8	-1	IAH	FLL	965
	82827	N14653	117	95	-16	-4	IAH	ATL	689
	82831	N37422	284	266	-1	-1	IAH	SEA	1874
	82833	N36247	192	161	-2	-1	IAH	PHL	1324
	82835	N73275	59	42	3	5	IAH	SAT	191
	82836	N16647	80	42	13	5	IAH	DFW	224
	82838	N36207	143	116	4	1	IAH	MIA	964
	82841	N78866	221	193	-2	4	IAH	LAX	1379
	82850	N29717	222	193	-11	-3	IAH	SNA	1347
	82853	N37420	152	117	6	-4	IAH	PBI	956
	82855	N37274	197	179	-10	-2	IAH	LGA	1416
	82856	N73291	190	171	-6	0	IAH	PHL	1324
	82857	N24706	158	130	-8	0	IAH	CLE	1091
	82861	N19638	149	128	-13	-5	IAH	RDU	1043
	82864	N33289	126	107	-13	-4	IAH	AMO	781
	82869	N73406	127	105	-14	-3	IAH	MCO	853
	82871	N14639	173	153	-4	5	IAH	HDN	986
	82874	N24715	251	232	-12	-2	IAH	SMF	1609
	82879	N66057	NA	NA	NA	2	IAH	HNL	3904
	82884	N37290	54	39	-17	-2	IAH	MSY	305
	82885	N16217	63	39	26	23	IAH	SAT	191
	82894	N16647	74	52	0	-5	IAH	MSY	305
	82896	N38257	62	30	18	9	IAH	AUS	140
	82906	N33132	216	193	-14	-4	IAH	LAX	1379
	82911	N57862	161	135	90	86	IAH	DEN	862
	82912	N17126	222	175	16	2	IAH	EWR	1400
	82914	N19136	198	164	-4	10	IAH	EWR	1400
	82920	N76254	186	159	123	137	IAH	EWR	1400
	82924		NA	NA	NA	NA	IAH	EWR	1400
	82930	N47414	58	41	7	17	IAH	MSY	305
	82934	N33289	229	195	4	2	IAH	LAX	1379
	82935	N75853	189	125	32	1	IAH	ORD	925
	82938	N36207	197	180	-5	18	IAH	ONT	1334
	82941	N27724	176	144	7	1	IAH	DCA	1208
##	82946	N31412	259	237	-10	0	IAH	SF0	1635

	82952	N73275	134	114	-11	-2	IAH	MIA	964
	82956	N73278	175	138	15	2	IAH	DEN	862
	82961	N39416	113	95	24	35	IAH	TPA	787
	82964	N23721	273	257	-2	1	IAH	PDX	1825
	82965	N71411	222	163	19	11	IAH	EWR	1400
	82967	N38424	236	215	-13	1	IAH	SJU	2007
	82973	N41135	182	153	1	0	IAH	PHX	1009
	82982	N38727	195	176	41	57	IAH	LGA	1416
	82989	N14629	56	30	0	-3	IAH	AUS	140
##	82991	N59630	173	139	1	-3	IAH	CLE	1091
##	82994	N19623	155	122	-6	-2	IAH	RDU	1043
	83000	N14230	161	141	-13	-3	IAH	DCA	1208
	83006	N13248	180	138	23	-2	IAH	DEN	862
	83009	N78438	220	183	4	5	IAH	BOS	1597
	83015	N16217	156	134	1	-3	IAH	DEN	862
	83020	N18223	305	287	29	3	IAH	PDX	1825
	83021	N57870	183	155	23	49	IAH	EWR	1400
	83024	N27205	182	149	2	1	IAH	PHX	1009
	83025	N36272	64	39	-3	1	IAH	MSY	305
	83027	N76514	160	144	-10	4	IAH	BWI	1235
	83031	N18220	231	203	20	-3	IAH	LGA	1416
	83040	N13718	170	149	8	-5	IAH	GUC	886
	83048	N73283	262	232	14	18	IAH	SF0	1635
	83053	N39728	69	41	8	1	IAH	SAT	191
	83060	N17245	205	177	1	7	IAH	LAS	1222
	83062	N12218	128	99	-18	-4	IAH	IND	845
	83064	N15712	181	139	7	-2	IAH	IAD	1190
	83066	N37298	160	143	-14	-2	IAH	IAD	1190
	83068	N76522	219	195	70	56	IAH	EWR	1400
	83070	N12225	169	141	-4	-1	IAH	IAD	1190
	83073	N87513	248	229	-4	6	IAH	SJC	1609
	83074	N37274	65	43	-6	-2	IAH	MSY	305
	83075	N38257	165	143	-9	2	IAH	BWI	1235
	83081	N13624	99	69	6	-6	IAH	TUL	429
	83082	N18223	159	133	44	44	IAH	ORD	925
##	83084	N12216	156	131	-3	- 5	IAH	ORD	925
	83089	N14214	157	140	-14	-1	IAH	DCA	1208
	83093	N37434	298	275	15	-3	IAH	SEA	1874
	83099	N76269	60	35	-6	0	IAH	SAT	191
	83100	N77525	214	179	28	38	IAH	BOS	1597
	83104	N57855	204	174	- 5	-1	IAH	LAS	1222
	83106	N16647	145	113	- 7	-7	IAH	IND	845
	83112	N37420	224	193	24	5	IAH	EWR	1400
	83113	N37255	70	51	-11	-4	IAH	MFE	316
	83119	N75426	164	146	-17	0	IAH	PHX	1009
	83125	N16732	215	183	157	147	IAH	LGA	1416
	83126	N37409	152	131	-12	-1	IAH	PIT	1117
	83131	N79402	222	190	22	-3	IAH	SLC	1195
	83132	N16617	168	138	-9	-7	IAH	CLE	1091
	83133	N87512	162	130	18	13	IAH	ORD	925
	83142	N25705	179	139	6	-2	IAH	DCA	1208
	83149	N38417	253	234	-14	1	IAH	SFO	1635
	83154	N38727	208	178	10	20	IAH	BOS	1597
##	83156	N33132	131	106	4	7	IAH	MCO	853

	83162	N73278	194	173	-16	0	IAH	LAS	1222
	83164	N57852	159	138	2	-1	IAH	DEN	862
	83166	N77258	164	142	5	-3	IAH	DEN	862
	83168	N76288	128	94	24	20	IAH	TPA	787
	83171	N24211	174	153	3	0	IAH	MSP	1034
	83175	N76269	80	46	13	0	IAH	MSY	305
	83178	N16647	167	147	-18	- 5	IAH	BWI	1235
	83180	N33203	243	185	213	178	IAH	LGA	1416
	83184	N37273	157	133	-4	1	IAH	CLE	1091
	83188	N37267	158	135	-10	1	IAH	DCA	1208
	83190	N24706	181	158	3	-1	IAH	EGE	935
	83192	N57864	311	291	40	7	IAH	SEA	1874
	83198	N26226	248	204	65	44	IAH	BOS	1597
	83204	N38443	215	180	6	1	IAH	LAS	1222
	83208	N27724	126	99	-2	-3	IAH	TPA	787
	83209	N27213	290	270	20	8	IAH	PDX	1825
	83218	N13718	198	161	84	81	IAH	LGA	1416
	83222	N75428	206	186	-11	0	IAH	SAN	1303
	83223	N16649	168	137	3	-2	IAH	CLE	1091
	83224	N79521	166	139	68	62	IAH	ORD	925
##	83225	N76503	198	177	0	2	IAH	SLC	1195
##	83227	N11641	114	82	28	37	IAH	ATL	689
##	83228	N87507	236	205	1	-5	IAH	SNA	1347
##	83231	N76517	92	67	22	-2	IAH	MSY	305
##	83232	N26210	316	292	50	18	IAH	SEA	1874
##	83235	N77258	261	237	10	10	IAH	SF0	1635
##	83236	N14219	260	239	-9	1	IAH	SF0	1635
##	83237	N73256	222	155	29	-2	IAH	PHL	1324
##	83242	N75854	127	101	-13	-7	IAH	MCO	853
##	83245	N14230	216	191	-11	1	IAH	LAX	1379
##	83247	N57864	163	140	0	-1	IAH	DEN	862
##	83253	N78004	228	201	27	4	IAH	EWR	1400
##	83258	N38403	167	142	-11	-1	IAH	PHX	1009
##	83264	N37287	177	150	-4	29	IAH	EWR	1400
##	83272	N30401	153	129	-1	-2	IAH	ORD	925
##	83273	N38443	146	120	-1	-4	IAH	FLL	965
##	83277	N16709	162	146	-3	10	IAH	DCA	1208
##	83280	N75410	251	226	51	60	IAH	SF0	1635
##	83283	N37273	69	38	6	-1	IAH	SAT	191
##	83285	N57868	143	105	0	-4	IAH	MCO	853
##	83287	N76503	159	137	-12	-3	IAH	DTW	1076
##	83289	N14242	224	193	10	11	IAH	LAX	1379
##	83290	N76288	200	176	-5	2	IAH	LAS	1222
##	83292	N77867	156	135	116	112	IAH	DEN	862
##	83300	N35260	44	30	32	45	IAH	AUS	140
##	83302	N76265	259	236	-2	-2	IAH	SJC	1609
##	83303	N19621	174	146	-7	-6	IAH	PIT	1117
##	83307	N16648	65	42	79	80	IAH	MSY	305
	83309	N11641	132	110	-18	-4	IAH	CLT	913
	83318	N39297	215	191	-10	-2	IAH	SNA	1347
	83324	N33209	58	36	0	2	IAH	SAT	191
	83326	N14731	165	129	-11	-5	IAH	DTW	1076
	83328	N57862	233	192	13	6	IAH	LAX	1379
	83333	N75433	110	90	-11	5	IAH	TPA	787

##	83334	N16709	219	194	-11	2	IAH	SNA	1347
##	83338	N37409	48	31	-6	1	IAH	AUS	140
##	83340	N16646	67	29	13	0	IAH	AUS	140
	83341	N14645	157	136	-19	-10	IAH	CLE	1091
##	83343	N73256	225	138	105	37	IAH	ORD	925
##	83345	N47414	140	125	-2	2	IAH	FLL	965
##	83349	N87507	221	194	-9	1	IAH	LAX	1379
##	83352	N76526	163	143	-5	2	IAH	DCA	1208
##	83354	N14242	125	104	-5	0	IAH	RSW	861
##	83356	N14639	121	96	1	6	IAH	MCI	643
##	83363	N39416	75	32	19	0	IAH	AUS	140
##	83365	N31412	127	104	3	13	IAH	MCO	853
##	83367	N37281	210	181	-2	3	IAH	SAN	1303
##	83368	N73283	150	110	8	1	IAH	MIA	964
##	83374	N78506	52	29	-5	-1	IAH	AUS	140
##	83380	N37274	89	55	35	26	IAH	MFE	316
##	83381	N17619	61	41	-9	-2	IAH	MSY	305
##	83383	N23708	229	197	3	1	IAH	SNA	1347
	83384	N15712	201	161	141	137	IAH	LGA	1416
##	83387	N14214	241	220	1	15	IAH	SMF	1609
##	83389	N36207	152	127	3	4	IAH	ORD	925
##	83390	N76505	155	118	5	-4	IAH	FLL	965
##	83394	N78285	130	101	1	2	IAH	RSW	861
##	83398	N19638	117	99	-19	-3	IAH	ELP	667
##	83399	N87512	191	156	222	223	IAH	PHL	1324
##	83402	N16732	85	41	25	5	IAH	SAT	191
##	83407	N27610	174	139	-17	-18	IAH	DTW	1076
##	83408	N76502	200	173	61	81	IAH	SAN	1303
##	83412	N11206	218	195	-12	1	IAH	LAX	1379
##	83417	N18622	75	53	-6	-2	IAH	MFE	316
##	83421	N17619	86	65	-1	1	IAH	OKC	395
##	83423	N37267	252	228	-5	4	IAH	SMF	1609
##	83424	N32626	145	119	-3	2	IAH	ABQ	744
##	83425	N33262	198	179	-11	4	IAH	SAN	1303
	83428	N35260	214	191	-6	-2	IAH	ONT	1334
##	83432	N26210	162	125	7	0	IAH	ORD	925
##	83433	N75428	140	120	2	8	IAH	FLL	965
##	83434	N17619	107	84	-22	0	IAH	ATL	689
##	83438	N53441	333	295	49	0	IAH	SEA	1874
##	83440	N12218	188	163	42	47	IAH	PHL	1324
##	83442	N26215	53	36	-9	-1	IAH	SAT	191
	83443	N16617	85	43	10	-3	IAH	DFW	224
##	83445	N33209	142	112	0	-2	IAH	MIA	964
##	83448	N75861	212	183	21	36	IAH	LAX	1379
	83457	N16701	225	197	-8	-3	IAH	SNA	1347
##	83460	N27421	132	110	-10	0	IAH	PBI	956
	83462	N73276	196	162	125	134	IAH	LGA	1416
	83463	N34222	185	159	134	145	IAH	PHL	1324
##	83464	N12216	158	135	-11	-3	IAH	CLE	1091
##	83467	N24633	139	117	-19	-1	IAH	RDU	1043
##	83470	N35204	138	115	4	1	IAH	OMA	781
##	83474	N26226	136	105	16	18	IAH	MCO	853
	83476	N13624	195	172	7	-6	IAH	HDN	986
##	83479	N16713	257	235	2	6	IAH	SMF	1609

##	83484	N76065	505	478	-1	-1	IAH	HNL	3904
	83489	N62631	64	46	-2	3	IAH	MSY	305
	83490	N76505	57	39	-2	1	IAH	SAT	191
	83499	N19621	71	44	-3	-5	IAH	MSY	305
	83501	N35204	51	28	10	12	IAH	AUS	140
	83509	N76517	225	198	-3	3	IAH	LAX	1379
	83512	N29124	216	197	193	203	IAH	LAX	1379
	83517	N75853	177	141	21	1	IAH	DEN	862
	83518	N68155	198	182	-9	1	IAH	EWR	1400
	83520	N12109	191	165	65	86	IAH	EWR	1400
	83525	N24202	194	169	-6	0	IAH	EWR	1400
	83529	N76055	194	165	-15	1	IAH	EWR	1400
	83535	N75426	72	44	3	-1	IAH	MSY	305
	83539	N14219	211	190	-9	7	IAH	LAX	1379
	83540	N57864	164	129	225	219	IAH	ORD	925
	83543	N12218	203	184	-18	-1	IAH	ONT	1334
	83546	N23721	164	148	-1	5	IAH	DCA	1208
##	83551	N35407	247	221	-19	3	IAH	SF0	1635
##	83558	N33262	134	112	-12	-3	IAH	MIA	964
##	83563	N57857	182	164	6	30	IAH	LAS	1222
##	83565	N73251	170	136	9	1	IAH	DEN	862
##	83570	N77431	118	98	-1	5	IAH	TPA	787
##	83573	N17719	301	286	34	9	IAH	PDX	1825
##	83574	N75410	201	173	3	16	IAH	EWR	1400
##	83576	N75428	252	234	6	4	IAH	SJU	2007
##	83582	N57111	168	146	-16	-3	IAH	PHX	1009
##	83588	N13624	175	160	-3	1	IAH	BWI	1235
	83592	N37273	193	173	-19	-1	IAH	LGA	1416
	83599	N14604	63	28	14	4	IAH	AUS	140
	83601	N16647	171	141	2	0	IAH	CLE	1091
	83604	N13624	149	127	-7	3	IAH	RDU	1043
	83611	N79521	171	142	1	1	IAH	DCA	1208
	83615	N75433	306	291	21	-1	IAH	SEA	1874
	83618	N38443	267	242	18	16	IAH	SF0	1635
	83619	N18223	166	141	20	9	IAH	DEN	862
	83622	N36272	59	40	-9	-2	IAH	SAT	191
	83623	N37298	220	185	2	3	IAH	BOS	1597
	83630	N39423	200	178	-15	-2	IAH	LAS	1222
	83632	N17233	160	139	9	1	IAH	DEN	862
	83637	N33289	292	275	7	-6	IAH	PDX	1825
	83638	N74856	189	158	32	52	IAH	EWR	1400
	83642 83644	N37427	170 64	146 45	4 -9	15 -5	IAH IAH	PHX MSY	1009 305
	83646	N73275 N77525	172	154	-9 0	-5 2	IAH	BWI	1235
	83650	N77323 N33264	199	168	-12	-3	IAH	LGA	1416
	83662	N24706	172	154	0	-2	IAH	DCA	1208
	83670	N37255	252	228	4	18	IAH	SFO	1635
	83676	N16646	57	38	-5	0	IAH	SAT	191
	83678	N37267	214	186	-4	3	IAH	BOS	1597
	83684	N36280	202	183	-5	1	IAH	LAS	1222
	83686	N27213	137	116	26	31	IAH	IND	845
	83688	N73270	206	185	-7	1	IAH	SAN	1303
	83689	N38727	186	151	16	2	IAH	IAD	1190
	83691	N18220	164	154	20	28	IAH	IAD	1190
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	83693	N66051	204	168	-3	-2	IAH	EWR	1400
	83695	N37281	175	156	1	-2	IAH	IAD	1190
##	83698	N76514	256	230	17	19	IAH	SJC	1609
##	83700	N37274	57	41	-2	10	IAH	MSY	305
##	83701	N35204	174	156	3	5	IAH	BWI	1235
##	83704	N25705	200	170	0	1	IAH	LGA	1416
##	83708	N59630	90	73	2	-1	IAH	TUL	429
##	83709	N37293	154	121	82	87	IAH	ORD	925
	83711	N54241	189	166	29	-6	IAH	ORD	925
	83716	N77258	169	148	1	2	IAH	DCA	1208
	83720	N75436	301	283	21	0	IAH	SEA	1874
	83726	N73291	61	39	9	14	IAH	SAT	191
	83729	N76516	221	185	2	5	IAH	BOS	1597
	83734	N77867	202	170	-1	5	IAH	LAS	1222
	83736	N24212	158	138	8	5	IAH	DEN	862
	83737	N19621	150	117	0	-5	IAH	IND	845
	83743	N75432	196	173	-9	0	IAH	EWR	1400
	83744	N73432 N24211	66	49			IAH	MFE	316
					20	31			
	83750	N37419	168	150	-12	1	IAH	PHX	1009
	83757	N76508	220	187	14	-1	IAH	LGA	1416
	83758	N79402	150	131	-9 04	4	IAH	PIT	1117
	83763	N37408	222	199	24	-1	IAH	SLC	1195
	83764	N78501	163	145	6	7	IAH	CLE	1091
	83765	N76522	165	132	204	196	IAH	ORD	925
	83775	N38727	200	175	23	-6	IAH	DCA	1208
	83777	N78524	209	180	-21	0	IAH	SNA	1347
	83783	N37408	250	230	-6	4	IAH	SF0	1635
	83788	N24212	212	185	-5	1	IAH	BOS	1597
	83790	N12109	162	140	58	30	IAH	MCO	853
	83796	N18220	200	176	-10	0	IAH	LAS	1222
	83798	N75851	164	136	17	9	IAH	DEN	862
	83800	N26215	185	152	30	1	IAH	DEN	862
	83802	N33294	113	97	-2	9	IAH	TPA	787
	83805	N33289	161	143	40	50	IAH	MSP	1034
	83809	N33262	66	46	-2	-1	IAH	MSY	305
	83812	N19623	183	160	-4	-7	IAH	BWI	1235
##	83815	N36247	204	178	6	10	IAH	LGA	1416
##	83819	N37277	146	125	-12	4	IAH	CLE	1091
##	83824	N37273	171	146	6	4	IAH	DCA	1208
##	83827	N17126	179	158	-1	-3	IAH	EGE	935
##	83828	N57863	310	292	115	83	IAH	SEA	1874
##	83835	N27239	219	189	19	27	IAH	BOS	1597
##	83838	N75854	125	108	116	124	IAH	MCO	853
##	83844	N78438	208	182	-3	-1	IAH	LAS	1222
##	83848	N27733	145	110	11	-9	IAH	TPA	787
##	83849	N37409	302	283	33	9	IAH	PDX	1825
##	83852	N76502	62	44	-6	-2	IAH	MSY	305
	83859	N24706	212	190	21	4	IAH	LGA	1416
	83863	N37420	198	181	-10	4	IAH	SAN	1303
	83864	N37419	212	178	-4	1	IAH	SAN	1303
	83865	N16617	53	28	-5	-2	IAH	AUS	140
	83866	N36207	171	135	10	2	IAH	CLE	1091
	83867	N78511	151	134	249	258	IAH	ORD	925
	83868	N30401	215	199	10	-5	IAH	SLC	1195
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	00070	N144044	400	00	0	0	T A 11	A 1777	600
	83870	N11641	120	93	-9	-6	IAH	ATL	689
	83873	N87513	61	47	-8	-1	IAH	MSY	305
	83874	N53441	306	285	27	5	IAH	SEA	1874
	83877	N33209	253	232	-7	1	IAH	SF0	1635
	83878	N34282	270	239	-2	-2	IAH	SF0	1635
	83879	N26208	193	158	13	11	IAH	PHL	1324
	83884	N57855	132	112	1	2	IAH	MCO	853
	83886	N14629	174	143	6	-1	IAH	DTW	1076
	83888	N12216	214	192	-13	1	IAH	LAX	1379
	83891	N57862	156	139	-8	-2	IAH	DEN	862
	83896	N74007	182	158	12	35	IAH	EWR	1400
	83901	N76505	176	155	9	10	IAH	PHX	1009
	83907	N78285	127	101	0	-3	IAH	TPA	787
	83908	N37253	187	163	-12	11	IAH	EWR	1400
	83917	N79402	152	123	36	36	IAH	ORD	925
	83918	N14219	137	117	-10	-4	IAH	FLL	965
	83922	N13716	172	149	-2	1	IAH	DCA	1208
	83925	N31412	261	235	15	14	IAH	SFO	1635
	83928	N37290	64	42	14	12	IAH	SAT	191
##	83930	N57862	135	110	-4	0	IAH	MCO	853
##	83932	N37293	172	136	11	7	IAH	DTW	1076
##	83934	N12225	226	195	20	19	IAH	LAX	1379
##	83935	N33294	210	172	1	-2	IAH	LAS	1222
##	83937	N57868	166	135	35	21	IAH	DEN	862
##	83946	N76265	51	30	-1	5	IAH	AUS	140
##	83948	N76265	260	230	0	-1	IAH	SJC	1609
##	83949	N17627	170	139	-10	-5	IAH	PIT	1117
##	83953	N19638	73	43	4	-3	IAH	MSY	305
##	83955	N11641	140	119	-11	-5	IAH	CLT	913
##	83961	N77296	136	117	-15	-4	IAH	FLL	965
##	83965	N77525	214	194	-8	1	IAH	SNA	1347
##	83967	N16649	165	139	22	0	IAH	RSW	861
##	83974	N17245	193	166	8	7	IAH	PHL	1324
##	83976	N37267	66	40	18	12	IAH	SAT	191
##	83978	N16713	168	138	-2	1	IAH	DTW	1076
##	83981	N74856	208	186	-1	17	IAH	LAX	1379
##	83983	N77865	212	180	3	3	IAH	LAS	1222
##	83984	N78285	173	147	16	13	IAH	DCA	1208
	83988	N35407	118	95	-9	-1	IAH	TPA	787
##	83990	N16701	223	197	-8	1	IAH	SNA	1347
##	83995	N71411	57	32	10	8	IAH	AUS	140
##	83997	N24633	67	30	15	2	IAH	AUS	140
##	83998	N17619	166	143	-2	-2	IAH	CLE	1091
	84000	N37298	174	128	141	124	IAH	ORD	925
	84002	N71411	165	147	19	-2	IAH	FLL	965
	84009	N33203	128	110	-8	-6	IAH	RSW	861
	84011	N14639	123	102	-3	0	IAH	MCI	643
	84018	N37420	56	31	0	0	IAH	AUS	140
	84020	N27421	127	101	-13	-3	IAH	MCO	853
	84022	N38257	203	181	-8	4	IAH	SAN	1303
	84023	N37290	143	116	0	0	IAH	MIA	964
	84030	N87527	49	30	0	7	IAH	AUS	140
	84031	N24211	213	194	-9	3	IAH	LAX	1379
	84038	N45440	170	147	-12	2	IAH	PHX	1009
ir m	3 1000	110110	110	1-11	12	2	TAII	1 1111	1003

##	84039	N23708	74	55	-5	1	IAH	MFE	316
	84040	N76288	63	45	2	7	IAH	MSY	305
	84042	N14731	216	195	-9	2	IAH	SNA	1347
	84043	N73275	199	174	18	16	IAH	LGA	1416
	84046	N14604	78	57	-4	-4	IAH	MFE	316
	84047	N33203	255	236	3	3	IAH	SMF	1609
	84049	N30401	159	129	159	153	IAH	ORD	925
	84050	N26208	150	117	10	6	IAH	FLL	965
	84054	N17245	119	98	5	17	IAH	RSW	861
	84057	N16649	119	98	-16	-2	IAH	ELP	667
	84058	N76502	216	179	24	0	IAH	PHL	1324
	84061	N27213	58	39	-10	-3	IAH	SAT	191
	84066	N14653	171	139	21	23	IAH	DTW	1076
	84067	N34282	211	187	-4	5	IAH	SAN	1303
	84068	N11206	139	114	0	9	IAH	MIA	964
	84072	N54241	213	194	24	42	IAH	LAX	1379
	84077	N16646	77	52	-4	-2	IAH	MFE	316
##	84082	N14645	85	61	1	4	IAH	OKC	395
##	84084	N37277	255	231	-10	-4	IAH	SMF	1609
##	84085	N18622	143	122	-11	-4	IAH	ABQ	744
##	84086	N77258	211	186	1	3	IAH	SAN	1303
##	84088	N36280	205	187	-12	1	IAH	ONT	1334
##	84093	N37409	206	182	51	0	IAH	ORD	925
##	84094	N37413	136	114	-12	-2	IAH	FLL	965
##	84096	N14645	124	92	-5	0	IAH	ATL	689
##	84101	N75426	316	295	37	5	IAH	SEA	1874
	84104	N37290	189	163	7	11	IAH	PHL	1324
	84107	N33266	54	39	12	19	IAH	SAT	191
	84108	N17620	172	137	-8	-4	IAH	TUS	936
	84111	N17620	94	58	18	-4	IAH	DFW	224
	84113	N33209	133	116	-8	-1	IAH	MIA	964
	84116	N57870	218	192	5	14	IAH	LAX	1379
	84125	N15710	225	196	6	11	IAH	SNA	1347
	84126	N24633	64	44	-12	-7	IAH	MSY	305
	84129	N45440	131	111	-13	-2	IAH	PBI	956
	84131	N35260	184	164	-19	2	IAH	LGA	1416
	84132	N87507	195	170	9	10	IAH	PHL	1324
	84133	N14704	161	137	15	20	IAH	CLE	1091
	84137	N32626	150	128	-10	-3	IAH	RDU	1043
	84140	N27205	137	118	1	-1	IAH	AMO	781
	84144	N27239	142	112	-2	-6	IAH	MCO	853
	84146	N59630	190	174	-2	-10	IAH	HDN	986
	84149	N24702	255	235	-2	4	IAH	SMF	1609
	84154	N69063	501	481	-7	-3	IAH	HNL	3904
	84159 84160	N37267	73	46	10	6	IAH	MSY	305
	84170	N14653	62	36	-1	-3	IAH	SAT	191
	84170	N17614	60	44	-10	-1	IAH	MSY	305
	84178	N17620	59	37	6	0	IAH	AUS	140
	84178	N76515 N17104	207 225	184 192	-22 -3	2 -2	IAH IAH	LAX LAX	1379 1379
	84186	N17104 N57864	156	192	-3 0	-2 1	IAH	DEN	862
	84187	N67158	184	164	-21	3	IAH	EWR	1400
	84189	N34137	182	159	-21 -4	26	IAH	EWR	1400
	84193	N34137 N15712	196	171	3	-1	IAH	EWR	1400
##	04130	1110112	190	111	3	-1	THU	ĿWΩ	1400

	84197	N67058	184	165	-18	0	IAH	EWR	1400
	84202	N15712	70	45	5	3	IAH	MSY	305
##	84206	N37290	200	176	-20	7	IAH	LAX	1379
	84208	N57862	143	114	-3	12	IAH	ORD	925
##	84211	N73283	188	172	-27	5	IAH	ONT	1334
##	84214	N29717	173	151	3	0	IAH	DCA	1208
##	84219	N38403	265	222	39	38	IAH	SF0	1635
##	84226	N76522	141	115	-4	-2	IAH	MIA	964
##	84231	N75861	183	163	-4	14	IAH	LAS	1222
##	84233	N79279	146	123	-15	-4	IAH	DEN	862
##	84236	N75436	119	99	-6	-1	IAH	TPA	787
##	84238	N39297	292	277	17	1	IAH	PDX	1825
##	84239	N72405	193	166	-16	5	IAH	EWR	1400
##	84241	N38417	246	217	20	19	IAH	SJU	2007
##	84246	N17139	161	143	-17	-2	IAH	PHX	1009
##	84251	N32626	161	138	-14	-1	IAH	BWI	1235
##	84255	N24706	187	168	-18	1	IAH	LGA	1416
##	84261	N27610	53	32	-4	-4	IAH	AUS	140
	84263	N19621	149	129	-23	-3	IAH	CLE	1091
	84266	N12218	139	119	-5	11	IAH	RDU	1043
	84275	N14250	298	280	30	16	IAH	SEA	1874
	84278	N53442	246	216	24	38	IAH	SFO	1635
	84279	N34282	143	125	-11	1	IAH	DEN	862
	84280	N24202	52	39	-2	7	IAH	SAT	191
	84285	N37437	184	167	0	24	IAH	LAS	1222
	84286	N39423	141	127	-10	1	IAH	DEN	862
	84290	N77510	288	275	12	-2	IAH	PDX	1825
	84291	N73860	185	162	-19	5	IAH	EWR	1400
	84296	N47414	171	143	-9	1	IAH	PHX	1009
	84298	N76269	64	46	-5	-1	IAH	MSY	305
	84300	N79521	171	146	8	11	IAH	BWI	1235
	84311	N16701	147	136	-18	-8	IAH	GUC	886
	84314	N76522	156	143	-14	-5	IAH	DCA	1208
	84321	N37298	238	217	-23	5	IAH	SF0	1635
	84326	N11641	61	40	- 5	-4	IAH	SAT	191
	84328	N37273	204	185	-1	11	IAH	BOS	1597
	84334	N33294	201	170	2	9	IAH	LAS	1222
	84336	N19623	119	100	-29	-3	IAH	IND	845
	84338	N16234	189	170	-18	2	IAH	SAN	1303
	84339	N54241	171	149	-4	-3	IAH	IAD	1190
	84341	N39297	161	142	-12	-1	IAH	IAD	1190
	84343	N66057	184	158	-19	-6	IAH	EWR	1400
	84345	N73291	164	142	-7	1	IAH	IAD	1190
	84347	N37293	237	219	69	90	IAH	SJC	1609
	84349	N17614	81	48	9	-3	IAH	MSY	305
	84350	N73256	173	148	2	5	IAH	BWI	1235
	84353	N23721	191	164	- 5	0	IAH	LGA	1416
	84357	N17620	92	65	9	4	IAH	TUL	429
	84358	N37419	169	120	12	2	IAH	ORD	925
	84364	N73283	157	145	-10	3	IAH	DCA	1208
	84368	N73203 N38417	308	293	44	16	IAH	SEA	1874
	84374	N37277	58	38	-7	10	IAH	SAT	191
	84377	N17229	204	183	-19	1	IAH	BOS	1597
	84382	N75858	188	171	-18	-3	IAH	LAS	1222
##	0-1002	11 1 0000	100	1/1	-10	-3	тип	LHO	1222

	04004	N77505	4.40	400	0	4	T A 11	DEM	0.00
	84384	N77525	143	122	-8	-1	IAH	DEN	862
	84385	N14629	151	102	6	0	IAH	IND	845
	84389	N36444	183	163	-6	8	IAH	EWR	1400
	84390	N16713	70	48	5	12	IAH	MFE	316
	84394	N75425	162	139	0	19	IAH	PHX	1009
	84400	N33264	187	163	-16	2	IAH	LGA	1416
	84401	N30401	142	124	9	30	IAH	PIT	1117
	84405	N37253	191	177	-2	-1	IAH	SLC	1195
	84406	N54711	148	130	-19	-8	IAH	CLE	1091
	84407	N37293	150	114	-1	1	IAH	ORD	925
	84417	N16732	156	142	-21	-6	IAH	DCA	1208
	84422	N37409	235	210	6	31	IAH	SF0	1635
	84427	N33286	207	176	19	30	IAH	BOS	1597
	84428	N34137	125	106	3	7	IAH	MCO	853
	84434	N73275	189	162	1	22	IAH	LAS	1222
	84436	N57855	147	125	-4	5	IAH	DEN	862
	84438	N78501	151	127	-6	-1	IAH	DEN	862
	84440	N78509	120	101	-4	0	IAH	TPA	787
	84443	N77296	179	154	14	6	IAH	MSP	1034
	84447	N12218	61	46	32	38	IAH	MSY	305
	84451	N24212	197	171	0	11	IAH	LGA	1416
	84454	N77510	146	127	-1	15	IAH	CLE	1091
	84458	N35260	164	142	-4	1	IAH	DCA	1208
	84461	N17126	158	144	8	22	IAH	EGE	935
	84462	N57852	303	285	57	32	IAH	SEA	1874
	84465	N12225	246	221	-11	11	IAH	SFO	1635
	84470	N17233	213	190	-6	8	IAH	BOS	1597
	84473	N77865	128	106	-2	-2	IAH	MCO	853
	84478	N35407	190	165	-12	8	IAH	LAS	1222
	84482	N73406	296	272	31	13	IAH	PDX	1825
	84485	N73291	64	46	1	-2	IAH	MSY	305
	84492	N73270	206	181	35	24	IAH	LGA	1416
	84495	N36207	184	168	-27	1	IAH	SAN	1303
	84496	N75425	188	169	-13	11	IAH	SAN	1303
	84497	N78509	50	31	-2	-1	IAH	AUS	140
##		N38727	147	126	-10	6	IAH	CLE	1091
	84499	N76254	152	121	22	30	IAH	ORD	925
	84500	N36207	191	176	-12	-3	IAH	SLC	1195
	84502	N16617	108	86	44	59	IAH	ATL	689
	84503	N76519	206	183	-17	2	IAH	SNA	1347
	84507	N18223	58	46	-2	8	IAH	MSY	305
	84508	N27421	292	278	21	13	IAH	SEA	1874
	84511	N26210	233	212	-26	2	IAH	SF0	1635
	84512	N73406	255	236	-14	-1	IAH	SF0	1635
	84517	N57857	130	107	7	10	IAH	MCO	853
	84519	N24702	153	128	-4	1	IAH	DTW	1076
	84522	N24202	200	178	-27	1	IAH	LAX	1379
	84525	N74856	151	125	-4	2	IAH	DEN	862
	84528	N77019	174	155	-23	8	IAH	EWR	1400
	84532	N30401	158	138	17	36	IAH	PHX	1009
	84539	N33209	127	102	9	1	IAH	TPA	787
##	84540	N16648	206	168	2	12	IAH	EWR	1400
##	84548	N57857	139	125	-2	11	IAH	ORD	925
##	84549	N76254	130	115	-7	1	IAH	FLL	965

##	84553	N15710	160	146	-3	7	IAH	DCA	1208
##	84556	N31412	249	223	-8	3	IAH	SFO	1635
##	84559	N37277	47	34	8	23	IAH	SAT	191
##	84561	N74856	128	106	-12	-1	IAH	MCO	853
##	84563	N26210	141	123	-30	-3	IAH	DTW	1076
##	84565	N78501	234	180	17	8	IAH	LAX	1379
##	84566	N34282	191	171	-11	0	IAH	LAS	1222
	84568	N76517	156	131	3	-1	IAH	DEN	862
	84577	N76265	52	31	13	18	IAH	AUS	140
	84580	N73270	257	236	1	-2	IAH	SJC	1609
	84581	N14639	165	132	-9	1	IAH	PIT	1117
	84585	N75410	62	48	16	20	IAH	MSY	305
	84592	N13750	144	117	0	-2	IAH	FLL	965
	84596	N76516	192	174	-27	4	IAH	SNA	1347
	84604	N16617	183	162	7	17	IAH	PHL	1324
	84606	N17245	51	33	3	12	IAH	SAT	191
	84608	N16701	181	141	10	0	IAH	DTW	1076
	84611	N37419	202	179	-20	-1	IAH	LAX	1379
	84613	N57439	191	170	-18	3	IAH	LAS	1222
	84617	N38403	130	98	22	18	IAH	TPA	787
	84619	N15710	195	172	34	71	IAH	SNA	1347
	84625	N59630	50	30	4	8	IAH	AUS	140
	84626	N17640	148	129	-14	-3	IAH	CLE	1091
	84628		150	129	-14	-3 6	IAH	ORD	925
	84630	N54241 N77867	141		9	12	IAH	FLL	965
	84633	N76519	54	114 28	12		IAH	AUS	140
	84636	N76519 N76516	122	104	2	14 10	IAH	RSW	861
			120		-3	3		MCI	
	84638 84645	N13624	45	98	-3 -12	-6	IAH IAH		643
	84647	N75436	132	30	-12 -5	0	IAH	AUS MCO	140 853
	84649	N45440		110		3	IAH	SAN	1303
		N35271	188	170	-24				
	84650	N12238	143	112	-4	-4 16	IAH	MIA	964
	84657	N14230	180	138	26	16	IAH	DCA	1208
	84658	N75428	197	173	-18	10	IAH	LAX	1379
	84665	N39423	163	142	-14	2	IAH	PHX	1009
##		N17619	82	55	2	0	IAH	MFE	316
	84667	N30401	62	46	3	4	IAH	MSY	305
	84669	N24729	192	177	-23	12	IAH	SNA	1347
	84670	N25705	202	175	6	1	IAH	LGA	1416
	84674	N73251	235	219	-12	8	IAH	SMF	1609
	84676	N37409	143	114	12	17	IAH	ORD	925
	84677	N76502	139	117	-2	5	IAH	FLL	965
	84681	N14237	128	104	-4	-1	IAH	RSW	861
	84684	N11641	120	98	-16	-3	IAH	ELP	667
	84685	N38443	187	164	-5	0	IAH	PHL	1324
	84687	N19638	58	39	-11	-9	IAH	SAT	191
	84692	N16649	166	139	7	14	IAH	DTW	1076
	84693	N35204	188	169	-17	15	IAH	SAN	1303
	84694	N35204	148	114	8	3	IAH	MIA	964
	84698	N77295	204	179	-26	1	IAH	LAX	1379
	84703	N37253	80	51	-1	-2	IAH	MFE	316
	84707	N17619	78	58	-12	-2	IAH	OKC	395
	84709	N24633	138	108	-14	-2	IAH	ABQ	744
##	84711	N37427	192	168	-16	5	IAH	SAN	1303

##	84713	N37267	191	174	-32	6	IAH	ONT	1334
	84716	N37408	52	28	-32 5	-6 8	IAH	AUS	140
	84718	N35407	139	117	-11	0	IAH	ORD	925
	84719	N39416	140	117	-3	3	IAH	FLL	965
	84721	N14629	113	91	-18	-2	IAH	ATL	689
	84726	N73251	299	282	25	5	IAH	SEA	1874
	84729	N27205	181	156	19	31	IAH	PHL	1324
	84732	N37274	57	38	-1	3	IAH	SAT	191
	84733	N16649	160	136	-19	-8	IAH	TUS	936
	84736	N58606	59	40	0	13	IAH	DFW	224
	84738	N75410	139	113	3	4	IAH	MIA	964
	84741	N77865	203	170	18	42	IAH	LAX	1379
	84750	N17730	204	185	-22	4	IAH	SNA	1347
	84751	N14653	65	46	-4	-5	IAH	MSY	305
	84754	N77430	157	115	15	0	IAH	PBI	956
	84756	N73275	181	160	-18	1	IAH	LGA	1416
	84757	N73278	175	161	-10	11	IAH	PHL	1324
	84758	N14704	146	125	-16	4	IAH	CLE	1091
	84762	N14604	160	128	6	3	IAH	RDU	1043
	84765	N11206	143	115	26	18	IAH	OMA	781
	84770	N58606	135	110	-7	-6	IAH	MCO	853
	84772	N33286	177	161	-2	-5	IAH	HDN	986
##	84775	N33209	252	227	-5	4	IAH	SMF	1609
##	84780	N77066	490	472	5	20	IAH	HNL	3904
##	84785	N35204	60	45	-2	2	IAH	MSY	305
##	84794	N36444	59	44	-9	-6	IAH	MSY	305
##	84796	N73270	59	37	13	2	IAH	AUS	140
##	84804	N14118	203	182	-21	-3	IAH	LAX	1379
##	84809	N75428	141	121	-5	6	IAH	DEN	862
##	84810	N69154	198	177	21	23	IAH	EWR	1400
##	84812	N33103	185	169	28	47	IAH	EWR	1400
##	84817	N76064	191	168	34	35	IAH	EWR	1400
	84820	N66051	195	179	-6	1	IAH	EWR	1400
	84826	N79279	204	178	-19	4	IAH	LAX	1379
	84828	N57862	163	127	17	7	IAH	ORD	925
	84831	N26210	192	169	-22	6	IAH	ONT	1334
	84837	N71411	243	218	-5	16	IAH	SFO	1635
	84843	N14250	137	112	0	1	IAH	MIA	964
	84849	N39415	191	164	4	15	IAH	LAS	1222
	84851	N78501	151	121	-6	0	IAH	DEN	862
	84854	N18622	123	98	-1	-2	IAH	TPA	787
	84856	N27724	282	260	11	0	IAH	PDX	1825
	84857	N35271	214	171	8	0	IAH	EWR	1400
	84859	N37437	241	224	13	17	IAH	SJU	2007
	84861	N34131	160	133	-14	2	IAH	PHX	1009
	84865	N14604	167	146	-11	-4	IAH	BWI	1235
	84871	N79521	52	31	5	1	IAH	AUS	140
	84872	N17730	160	134	-1	-3	IAH	CLE	1091
	84875 84877	N33289	150	126 157	17 7	17 -5	IAH	RDU	1043
		N76516	178	157		-5 -1	IAH	DCA	1208
	84881 84884	N24224 N14230	299 245	277 226	19 -15	-1 0	IAH IAH	SEA SFO	1874 1635
	84885	N14230 N14214	160	131	-15 17	8	IAH	DEN	862
	84888	N14214 N17244	60	42	-2	-1	IAH	SAT	191
##	04000	M T I Z 44	60	42	-2	-1	TAU	SAI	191

##	84889	N33264	223	199	4	-3	IAH	BOS	1597
	84895	N76254	182	165	-20	6	IAH	LAS	1222
##	84896	N37273	144	117	9	12	IAH	DEN	862
##	84900	N12238	280	262	6	0	IAH	PDX	1825
##	84901	N73860	176	157	-3	22	IAH	EWR	1400
##	84906	N37409	158	135	-15	3	IAH	PHX	1009
##	84908	N75428	60	45	-5	-2	IAH	MSY	305
##	84910	N59630	166	140	-13	-6	IAH	BWI	1235
##	84914	N13750	207	185	4	0	IAH	LGA	1416
##	84919	N38727	144	126	24	37	IAH	GUC	886
##	84922	N23708	158	141	-12	-8	IAH	DCA	1208
##	84929	N17245	250	225	6	17	IAH	SF0	1635
##	84933	N38268	56	38	27	28	IAH	SAT	191
##	84934	N37263	209	191	-7	0	IAH	BOS	1597
##	84939	N87513	196	172	-5	5	IAH	LAS	1222
##	84942	N37273	160	140	29	41	IAH	IAD	1190
##	84943	N78060	197	177	13	13	IAH	EWR	1400
##	84945	N39297	175	150	4	1	IAH	IAD	1190
##	84948	N79521	238	217	-13	2	IAH	SJC	1609
##	84950	N37293	65	43	3	2	IAH	MSY	305
##	84951	N14237	185	149	19	5	IAH	BWI	1235
##	84953	N39728	199	184	39	40	IAH	LGA	1416
##	84957	N75861	136	115	5	23	IAH	ORD	925
##	84959	N33284	150	132	-6	-6	IAH	ORD	925
##	84963	N24202	164	140	-6	-5	IAH	DCA	1208
##	84966	N38443	298	285	43	20	IAH	SEA	1874
##	84972	N73270	59	38	-4	-2	IAH	SAT	191
##	84973	N33284	219	195	-4	-4	IAH	BOS	1597
##	84977	N57863	185	163	-17	1	IAH	LAS	1222
##	84979	N37267	130	115	-15	5	IAH	DEN	862
##	84980	N58606	137	112	-7	-4	IAH	IND	845
##	84984	N73283	194	177	-1	2	IAH	EWR	1400
##	84985	N12218	80	55	12	4	IAH	MFE	316
##	84988	N38424	148	133	-31	-3	IAH	PHX	1009
##	84995	N24702	213	187	13	0	IAH	LGA	1416
##	84996	N57439	171	138	12	-1	IAH	PIT	1117
##	84999	N37408	189	175	-1	2	IAH	SLC	1195
##	85000	N16649	175	151	7	-5	IAH	CLE	1091
	85001	N37252	144	128	-6	2	IAH	ORD	925
##	85009	N16701	170	149	2	-2	IAH	DCA	1208
##	85011	N16709	197	178	-26	2	IAH	SNA	1347
	85015	N35407	236	215	0	19	IAH	SF0	1635
	85018	N14645	219	191	4	-2	IAH	BOS	1597
	85019	N33103	133	113	4	0	IAH	MCO	853
	85024	N39415	198	171	-7	0	IAH	LAS	1222
	85026	N57857	145	124	-5	1	IAH	DEN	862
	85028	N77520	151	126	10	11	IAH	DEN	862
	85030	N75436	128	100	8	-1	IAH	TPA	787
	85033	N27205	156	137	-5	5	IAH	MSP	1034
	85035	N11641	177	152	-4	-6	IAH	BWI	1235
	85038	N13624	216	185	11	-2	IAH	LGA	1416
	85043	N27213	159	136	4	0	IAH	CLE	1091
	85047	N24706	162	136	26	28	IAH	DCA	1208
	85050	N14118	163	146	-8	1	IAH	EGE	935
	3000		100	110	J	_		_~_	000

	85051	N77867	275	258	68	66	IAH	SEA	1874
	85056	N73299	215	191	-6	1	IAH	BOS	1597
	85058	N53442	133	110	8	3	IAH	MCO	853
	85064	N77871	193	168	-8	4	IAH	LAS	1222
	85068	N25705	129	100	9	0	IAH	TPA	787
	85069	N37408	292	263	29	10	IAH	PDX	1825
	85074	N76522	62	45	-2	-3	IAH	MSY	305
	85081	N37274	199	179	21	12	IAH	LGA	1416
	85085	N75426	183	167	-24	0	IAH	SAN	1303
	85086	N38417	187	168	-24	1	IAH	SAN	1303
	85087	N35271	46	30	16	21	IAH	AUS	140
	85088	N73276	163	141	45	38	IAH	CLE	1091
	85089	N53441	156	127	6	5	IAH	ORD	925
	85090	N38727	188	171	-6	1	IAH	SLC	1195
	85092	N19623	115	88	-10	-8	IAH	ATL	689
	85095	N73256	63	44	-2	-2	IAH	MSY	305
	85096	N75433	290	273	15	4	IAH	SEA	1874
	85099	N76505	241	216	-9	6	IAH	SF0	1635
	85100	N73251	252	226	-17	-1	IAH	SF0	1635
	85104	N74856	125	105	0	3	IAH	MCO	853
	85106	N17614	166	141	2	-2	IAH	DTW	1076
	85107	N17244	199	180	-27	-3	IAH	LAX	1379
	85109	N77865	164	120	5	-2	IAH	DEN	862
	85111	N78004	185	162	125	137	IAH	EWR	1400
	85118	N24729	111	96	9	17	IAH	TPA	787
	85119	N38268	196	167	3	9	IAH	EWR	1400
	85128	N12218	133	111	-7	-2	IAH	FLL	965
	85134	N72405	243	216	-5	7	IAH	SF0	1635
	85136	N12218	58	40	1	0	IAH	SAT	191
	85138	N77865	131	110	-3	0	IAH	MCO	853
	85140	N14653	175	145	7	-1	IAH	DTW	1076
##	85142	N36272	214	182	-6	1	IAH	LAX	1379
	85143	N14214	188	164	-11	3	IAH	LAS	1222
##	85151	N37267	49	27	31	34	IAH	AUS	140
##	85153	N37274	238	220	-13	3	IAH	SJC	1609
##	85154	N14639	168	138	-6	-4	IAH	PIT	1117
##	85158	N24212	61	43	-2	-2	IAH	MSY	305
	85160	N17640	135	118	-2	4	IAH	CLT	913
	85165	N33292	137	120	6	11	IAH	FLL	965
	85168	N19623	132	111	-11	-5	IAH	RSW	861
	85174	N23721	183	166	3	7	IAH	PHL	1324
	85176	N37437	59	39	21	17	IAH	SAT	191
	85180	N73860	206	183	-10	5	IAH	LAX	1379
	85183	N71411	118	96	7	10	IAH	TPA	787
	85188	N19638	55	31	0	-6	IAH	AUS	140
	85189	N16617	163	142	1	-3	IAH	CLE	1091
	85191	N33209	142	118	15	26	IAH	ORD	925
##	85193	N30401	128	114	22	33	IAH	FLL	965
	85197	N24633	131	108	7	4	IAH	RSW	861
	85199	N32626	128	92	9	2	IAH	MCI	643
	85206	N18622	53	29	8	6	IAH	AUS	140
	85208	N39423	131	110	3	4	IAH	MCO	853
	85210	N37290	195	173	-14	1	IAH	SAN	1303
##	85211	N17233	141	116	-4	-2	IAH	MIA	964

##	85219	N13750	51	27	1	1	IAH	AUS	140
	85220	N38443	196	178	-16	8	IAH	LAX	1379
	85227	N75425	155	135	-10	14	IAH	PHX	1009
	85228	N24706	79	59	2	-2	IAH	MFE	316
	85229	N76505	60	44	-6	-3	IAH	MSY	305
	85232	N16713	246	224	6	10	IAH	SMF	1609
	85234	N38424	134	118	-1	13	IAH	ORD	925
	85235	N24202	42	28	-9	-1	IAH	AUS	140
	85236	N17233	145	127	7	3	IAH	FLL	965
	85239	N78511	128	104	2	0	IAH	RSW	861
	85241	N27610	111	90	-21	-4	IAH	ELP	667
	85244	N24633	55	37	- 5	0	IAH	SAT	191
	85247	N37281	207	179	-4	4	IAH	SAN	1303
	85248	N87513	136	115	-8	-1	IAH	MIA	964
	85251	N16217	207	184	-6	13	IAH	LAX	1379
	85255	N15710	80	55	5	-1	IAH	MFE	316
	85259	N17614	84	60	-1	-2	IAH	OKC	395
	85261	N35260	237	223	-16	3	IAH	SMF	1609
	85262	N16617	134	105	-1	10	IAH	ABQ	744
	85264	N78501	190	169	-14	4	IAH	SAN	1303
##	85265	N76522	67	45	10	-2	IAH	SAT	191
##	85266	N73291	158	140	-9	2	IAH	MTJ	926
##	85269	N76265	203	176	-17	-3	IAH	ONT	1334
##	85272	N37409	151	131	0	-1	IAH	ORD	925
##	85273	N75425	140	116	22	23	IAH	FLL	965
##	85277	N11206	283	262	12	8	IAH	SEA	1874
##	85280	N33286	187	159	9	10	IAH	PHL	1324
	85283	N24729	58	39	3	1	IAH	SAT	191
	85284	N14629	154	129	-23	-6	IAH	TUS	936
	85286	N19621	73	50	10	4	IAH	DFW	224
	85287	N76514	131	115	-8	1	IAH	MIA	964
	85290	N75851	204	175	-13	5	IAH	LAX	1379
	85297	N14704	198	180	-18	9	IAH	SNA	1347
	85298	N58606	62	42	-4	-2	IAH	MSY	305
	85301	N39418	144	117	5	-2	IAH	PBI	956
	85303	N76288	201	173	24	14	IAH	PHL	1324
	85306	N24212	149	130	2	1	IAH	RDU	1043
	85309	N16234	124	103	-10	-1	IAH	OMA	781
	85314	N16701	122	108	-15	-4	IAH	MCO	853
	85316	N27213	165	150	-9	0	IAH	HDN	986
	85319	N73251	242	225	-4 70	10	IAH	SMF	1609
	85323	N67058	469	452	76	112	IAH	HNL	3904
	85328 85329	N37252	61 61	44 42	11 -1	19 -2	IAH IAH	MSY	305
	85339	N11206	62	44	-10		IAH	SAT	191 305
	85341	N32626 N33292	56	35	3	-3 0	IAH	MSY AUS	140
	85349	N33292 N27205	214	182	-8	9	IAH	LAX	1379
	85352	N27205 N14115	214	181	-3 -2	3	IAH	LAX	1379
	85357	N57439	146	124	-2 -2	9	IAH	DEN	862
	85358	N57439 N58101	239	217	33	2	IAH	EWR	1400
	85360	N14121	197	173	23	38	IAH	EWR	1400
	85366	N37253	213	192	11	-2	IAH	EWR	1400
	85369	N76269	210	186	2	2	IAH	EWR	1400
	85378	N78501	211	182	-8	8	IAH	LAX	1379
π#	55510	14 1 0 0 0 T	211	102	O	0	TWII	TUV	1019

##	85380	N57852	155	131	12	15	IAH	ORD	925
##	85383	N14250	192	172	-14	14	IAH	ONT	1334
##	85386	N13718	164	150	-6	0	IAH	DCA	1208
##	85391	N31412	242	218	-25	2	IAH	SF0	1635
##	85398	N35271	135	116	-5	3	IAH	MIA	964
##	85404	N75861	194	171	-12	0	IAH	LAS	1222
##	85406	N24729	158	125	-1	3	IAH	DEN	862
##	85411	N71411	120	102	5	9	IAH	TPA	787
##	85414	N17719	280	266	48	44	IAH	PDX	1825
##	85415	N37419	207	178	5	12	IAH	EWR	1400
##	85417	N53442	255	230	22	17	IAH	SJU	2007
##	85423	N13113	165	146	6	22	IAH	PHX	1009
##	85429	N14604	179	158	-2	-2	IAH	BWI	1235
	85433	N36272	199	180	-14	-2	IAH	LGA	1416
##	85440	N16647	59	34	24	18	IAH	AUS	140
	85442	N17620	161	141	-9	-1	IAH	CLE	1091
##	85445	N73283	135	122	-23	1	IAH	RDU	1043
##	85452	N79521	179	155	1	-7	IAH	DCA	1208
##	85456	N18243	285	269	4	3	IAH	SEA	1874
	85459	N75436	245	218	-14	6	IAH	SF0	1635
	85460	N24212	145	121	-8	2	IAH	DEN	862
	85463	N35271	58	41	-9	-1	IAH	SAT	191
	85464	N37263	226	198	7	2	IAH	BOS	1597
	85471	N77431	188	170	-25	0	IAH	LAS	1222
	85473	N37437	142	120	-3	7	IAH	DEN	862
##	85478	N27239	293	259	38	24	IAH	PDX	1825
##	85479	N57852	174	157	112	147	IAH	EWR	1400
##	85484	N39416	158	142	-14	9	IAH	PHX	1009
##	85486	N73276	59	43	-7	2	IAH	MSY	305
##	85488	N76516	166	150	-8	0	IAH	BWI	1235
	85492	N37267	210	184	0	-2	IAH	LGA	1416
	85504	N23721	173	150	2	-1	IAH	DCA	1208
	85512	N33284	233	217	-28	5	IAH	SF0	1635
##	85518	N62631	72	42	4	-6	IAH	SAT	191
##	85520	N33262	221	190	5	5	IAH	BOS	1597
	85526	N24224	187	168	-13	11	IAH	LAS	1222
	85528	N16617	138	112	-12	-8	IAH	IND	845
	85530	N17229	195	178	-19	0	IAH	SAN	1303
	85531	N24212	184	159	7	- 5	IAH	IAD	1190
	85533	N12218	174	149	0	-2	IAH	IAD	1190
	85535	N76054	209	177	7	3	IAH	EWR	1400
	85537	N33286	162	135	40	50	IAH	IAD	1190
	85540	N77520	235	214	-18	5	IAH	SJC	1609
	85542	N37263	66	45	-2	1	IAH	MSY	305
	85543	N76502	163	145	-5	8	IAH	BWI	1235
	85546	N29717	199	175	1	3	IAH	LGA	1416
	85550	N16648	96	64	14	5	IAH	TUL	429
	85551	N57862	151	128	-3	5	IAH	ORD	925
	85553	N16701	163	137	3	-6	IAH	ORD	925
	85558	N14250	170	155	3	3	IAH	DCA	1208
	85562	N75436	274	259	3	9	IAH	SEA	1874
	85568	N35260	70	42	10	6	IAH	SAT	191
	85571	N76529	221	194	2	5	IAH	BOS	1597
##	85576	N78866	192	169	-14	2	IAH	LAS	1222

	85578	N38443	143	123	-5	7	IAH	DEN	862
	85579	N12238	130	110	-6	9	IAH	IND	845
	85585	N77430	196	171	-8	1	IAH	EWR	1400
	85586	N16234	81	58	5	1	IAH	MFE	316
	85592	N75435	171	141	-7	3	IAH	PHX	1009
	85599	N37293	198	179	-7	0	IAH	LGA	1416
	85600	N37408	159	143	-1	3	IAH	PIT	1117
##	85605	N38403	183	170	-3	11	IAH	SLC	1195
	85606	N17619	182	152	14	-4	IAH	CLE	1091
##	85607	N78511	155	133	0	2	IAH	ORD	925
##	85617	N15712	155	142	-18	-2	IAH	DCA	1208
##	85624	N35407	237	214	-10	13	IAH	SF0	1635
##	85629	N36272	210	189	-8	0	IAH	BOS	1597
##	85631	N14121	140	112	14	8	IAH	MCO	853
##	85637	N12218	183	158	96	123	IAH	LAS	1222
##	85639	N74856	141	124	-12	3	IAH	DEN	862
##	85641	N36207	147	127	-5	4	IAH	DEN	862
##	85643	N14237	119	98	9	14	IAH	TPA	787
##	85646	N33292	162	146	12	21	IAH	MSP	1034
##	85650	N76265	70	54	16	13	IAH	MSY	305
##	85653	N27724	176	159	-1	-2	IAH	BWI	1235
##	85656	N76522	204	180	-5	-1	IAH	LGA	1416
##	85660	N78506	141	128	-21	0	IAH	CLE	1091
##	85665	N23708	154	137	-6	9	IAH	DCA	1208
##	85668	N34131	161	140	-18	-2	IAH	EGE	935
##	85669	N57855	279	259	5	4	IAH	SEA	1874
##	85672	N38443	236	214	-28	4	IAH	SF0	1635
##	85677	N12216	223	192	-4	0	IAH	BOS	1597
##	85680	N75435	124	104	-1	8	IAH	MCO	853
##	85686	N72405	191	168	-18	1	IAH	LAS	1222
##	85690	N16713	124	100	0	1	IAH	TPA	787
##	85691	N38403	279	255	3	2	IAH	PDX	1825
##	85694	N24706	62	43	-8	-4	IAH	MSY	305
##	85701	N24633	209	180	16	2	IAH	LGA	1416
##	85705	N33209	187	172	-21	4	IAH	SAN	1303
##	85706	N75425	193	175	-26	-2	IAH	SAN	1303
##	85707	N14228	56	33	-5	-5	IAH	AUS	140
##	85708	N87513	150	133	-13	0	IAH	CLE	1091
##	85709	N87527	144	127	-11	5	IAH	ORD	925
##	85710	N24702	182	168	-22	-4	IAH	SLC	1195
##	85712	N17640	154	90	26	-5	IAH	ATL	689
##	85713	N87512	215	196	-4	11	IAH	SNA	1347
##	85717	N26215	62	45	-3	3	IAH	MSY	305
##	85718	N73860	271	253	3	16	IAH	SEA	1874
##	85721	N37290	239	218	-16	6	IAH	SF0	1635
##	85722	N24224	257	227	-7	6	IAH	SFO	1635
##	85723	N14230	196	173	1	-4	IAH	PHL	1324
##	85728	N75853	126	105	-10	-3	IAH	MCO	853
##	85730	N19623	171	146	2	-2	IAH	DTW	1076
	85733	N73251	206	185	-15	7	IAH	LAX	1379
	85736	N57857	143	122	14	33	IAH	DEN	862
	85742	N78003	195	168	-6	4	IAH	EWR	1400
	85746	N32404	174	137	5	8	IAH	PHX	1009
	85752	N79279	130	107	6	0	IAH	TPA	787

	85753	N34222	203	172	-4	3	IAH	EWR	1400
	85762	N37408	142	121	-4	6	IAH	ORD	925
	85763	N78501	134	111	-7	2	IAH	FLL	965
	85767	N25705	170	156	-10	-5	IAH	DCA	1208
	85770	N75410	228	214	-26	6	IAH	SF0	1635
	85773	N16648	63	39	1	0	IAH	SAT	191
	85775	N57863	124	105	-6	9	IAH	MCO	853
	85777	N38257	167	146	-1	0	IAH	DTW	1076
	85779	N38257	224	182	18	19	IAH	LAX	1379
	85780	N33292	199	169	-7	1	IAH	LAS	1222
	85782	N27239	143	124	28	37	IAH	DEN	862
	85791	N76265	46	30	-11	0	IAH	AUS	140
	85793	N73270	243	225	-11	5	IAH	SJC	1609
	85794	N16646	157	136	-19	-1	IAH	PIT	1117
	85798	N26215	65	44	8	9	IAH	MSY	305
	85800	N17640	147	122	-2	-3	IAH	CLT	913
	85806	N37287	136	114	-10	1	IAH	FLL	965
	85810	N76514	204	171	-18	1	IAH	SNA	1347
	85812	N19638	128	105	-18	-3	IAH	RSW	861
	85819	N33289	190	174	6	8	IAH	PHL	1324
	85821	N14219	60	40	14	14	IAH	SAT	191
	85823	N15710	160	136	-3	8	IAH	DTW	1076
##	85826	N57864	215	190	-10	1	IAH	LAX	1379
##	85828	N33266	188	165	-25	-1	IAH	LAS	1222
##	85832	N31412	120	96	-9	-3	IAH	TPA	787
##	85834	N39726	201	181	-30	1	IAH	SNA	1347
##	85839	N37409	56	33	2	1	IAH	AUS	140
##	85841	N14653	56	32	-2	-4	IAH	AUS	140
	85842	N78524	173	153	8	1	IAH	CLE	1091
##	85844	N17233	163	137	15	9	IAH	ORD	925
##	85846	N32404	134	113	-7	3	IAH	FLL	965
##	85850	N76508	171	152	5	4	IAH	DCA	1208
##	85854	N76514	122	104	-5	3	IAH	RSW	861
##	85856	N78509	110	90	-13	3	IAH	MCI	643
##	85863	N17719	54	33	-4	-2	IAH	AUS	140
##	85865	N78511	147	107	33	23	IAH	MCO	853
##	85867	N73278	192	174	-18	5	IAH	SAN	1303
##	85868	N76265	149	117	6	0	IAH	MIA	964
##	85876	N35204	69	36	21	8	IAH	AUS	140
##	85877	N76505	207	187	-12	6	IAH	LAX	1379
##	85884	N36444	166	144	-17	1	IAH	PHX	1009
##	85885	N15710	77	58	-4	-1	IAH	MFE	316
##	85886	N14219	61	47	-8	-1	IAH	MSY	305
	85888	N17719	211	188	-16	0	IAH	SNA	1347
	85889	N19638	221	182	19	1	IAH	LGA	1416
##	85892	N16617	72	53	-13	-7	IAH	MFE	316
##	85893	N76516	243	225	-8	4	IAH	SMF	1609
##	85895	N35407	151	128	11	13	IAH	ORD	925
##	85896	N14230	132	115	-10	4	IAH	FLL	965
##	85900	N37281	123	103	-3	5	IAH	RSW	861
##	85903	N33262	107	88	115	141	IAH	ELP	667
##	85904	N39423	192	174	3	3	IAH	PHL	1324
	85907	N16647	58	37	-8	-1	IAH	SAT	191
	85912	N59630	166	138	-15	-8	IAH	DTW	1076

##	05012	M72200	101	160	-23	6	ТАЦ	CAN	1303
	85913 85914	N73299 N73299	191 133	169 112	-23 -13	6 2	IAH IAH	SAN MIA	964
	85918	N73259	236	186	1	-4	IAH	LAX	1379
	85923	N73239 N25705	68	51	-10	1	IAH	MFE	316
	85928	N23703 N14645	77	60	-10 -6	5	IAH	OKC	395
	85930	N39415	243	222	-6 -4	14	IAH	SMF	1609
	85931	N58606	162	112	19	7	IAH	ABQ	744
	85932	N16217	190	169	-16	7	IAH	SAN	1303
	85934	N37252	195	178	-6	21	IAH	ONT	1334
	85939	N72405	153	129	-4	-2	IAH	ORD	925
	85940	N26226	128	115	-9	9	IAH	FLL	965
	85942	N24633	122	94	-8	-1	IAH	ATL	689
	85947	N16217	295	274	12	1	IAH	SEA	1874
	85950	N38417	189	158	-3	1	IAH	PHL	1324
	85953	N37274	63	43	13	11	IAH	SAT	191
	85954	N17620	159	135	1	18	IAH	TUS	936
	85957	N14613	80	48	2	-6	IAH	DFW	224
	85959	N14219	132	114	-8	0	IAH	MIA	964
	85962	N57857	219	180	-2	6	IAH	LAX	1379
	85971	N21723	194	177	-30	6	IAH	SNA	1347
##	85972	N16648	67	43	9	11	IAH	MSY	305
##	85975	N75429	142	115	-2	-2	IAH	PBI	956
##	85977	N33264	198	181	-7	0	IAH	LGA	1416
##	85978	N33294	181	170	-15	0	IAH	PHL	1324
##	85979	N23707	159	139	-9	-2	IAH	CLE	1091
##	85983	N38424	153	132	-2	2	IAH	RDU	1043
##	85986	N76254	124	108	5	16	IAH	OMA	781
	85991	N11206	128	105	-9	1	IAH	MCO	853
	85993	N14645	178	150	-11	-7	IAH	HDN	986
	85996	N38727	253	230	-10	-2	IAH	SMF	1609
	86001	N76065	499	478	-2	4	IAH	HNL	3904
	86006	N13248	62	46	-7	0	IAH	MSY	305
	86007	N16217	55	37	-1	4	IAH	SAT	191
	86017	N16646	69	49	-3	-3	IAH	MSY	305
	86019	N26226	50	30	-2	1	IAH	AUS	140
	86027	N76515	202	177	-9	20	IAH	LAX	1379
	86030	N19117	213	187	-14	-1	IAH	LAX	1379
	86035	N57852	161	131	15	11	IAH	DEN	862
	86036	N33132	192	173	-14	2	IAH	EWR	1400
	86038	N57869	204	176	10	18	IAH	EWR	1400
	86044	N66056	177	156	115	138	IAH	EWR	1400
	86048 86054	N69059	206 70	175 48	11 -2	15	IAH IAH	EWR MSY	1400 305
	86058	N73283 N54241	221	188	9	-4 15	IAH	LAX	1379
	86060	N75861	159	135	3	2	IAH	ORD	925
	86063	N36207	210	180	-3	7	IAH	ONT	1334
	86066	N16701	176	154	8	2	IAH	DCA	1208
	86071	N31412	270	239	75	74	IAH	SF0	1635
	86078	N33264	136	112	3	10	IAH	MIA	964
	86084	N56859	192	167	-13	1	IAH	LAS	1222
	86086	N76508	159	128	-3	0	IAH	DEN	862
	86091	N39418	114	94	-7	3	IAH	TPA	787
	86094	N87513	284	262	6	-2	IAH	PDX	1825
	86095	N79402	201	174	-8	5	IAH	EWR	1400

##	86097	N75435	242	223	-6	2	IAH	SJU	2007
##	86103	N19141	167	138	-13	1	IAH	PHX	1009
##	86109	N58606	176	151	-3	0	IAH	BWI	1235
##	86113	N37273	194	167	-13	4	IAH	LGA	1416
##	86120	N14628	58	28	10	5	IAH	AUS	140
##	86122	N16648	200	148	25	-6	IAH	CLE	1091
##	86125	N25705	161	138	17	11	IAH	RDU	1043
##	86132	N87527	162	143	-14	- 5	IAH	DCA	1208
##	86136	N75429	286	262	17	15	IAH	SEA	1874
##	86139	N57439	254	228	29	40	IAH	SFO	1635
##	86140	N14230	159	136	9	5	IAH	DEN	862
##	86143	N73275	52	34	-12	2	IAH	SAT	191
##	86144	N76265	218	193	-3	0	IAH	BOS	1597
##	86151	N38424	200	170	-3	10	IAH	LAS	1222
##	86153	N77431	142	126	-6	4	IAH	DEN	862
##	86158	N14228	290	262	12	1	IAH	PDX	1825
##	86159	N77865	196	173	-1	12	IAH	EWR	1400
##	86164	N27421	167	137	0	14	IAH	PHX	1009
	86166	N37267	71	50	3	0	IAH	MSY	305
##	86168	N78524	168	147	9	15	IAH	BWI	1235
	86172	N73276	188	168	-22	-2	IAH	LGA	1416
	86183	N13750	170	143	14	1	IAH	GUC	886
	86186	N38727	169	149	-4	-3	IAH	DCA	1208
	86194	N24212	259	231	69	76	IAH	SFO	1635
	86200	N17640	66	40	6	2	IAH	SAT	191
	86202	N36272	211	193	-7	3	IAH	BOS	1597
	86208	N32404	202	173	-10	-1	IAH	LAS	1222
	86210	N73283	144	121	2	0	IAH	IND	845
	86212	N37277	195	172	-23	-4	IAH	SAN	1303
	86213	N23707	175	149	2	-1	IAH	IAD	1190
	86215	N12216	185	155	12	-1	IAH	IAD	1190
	86217	N78509	193	165	-8	4	IAH	EWR	1400
	86219	N27205	183	155	17	6	IAH	IAD	1190
	86222	N76514	251	226	1	8	IAH	SJC	1609
	86224	N33289	64	46	12	17	IAH	MSY	305
	86225	N14214	179	156	10	7	IAH	BWI	1235
	86228	N15710	192	169	-12	-3	IAH	LGA	1416
	86232	N32626	87	67	-5	-5	IAH	TUL	429
	86233	N75853	160	133	2	1	IAH	ORD	925
	86235	N37267	166	134	10	-2	IAH	ORD	925
	86240	N38257	167	149	-4	-1	IAH	DCA	1208
	86244	N37419	280	264	31	31	IAH	SEA	1874
	86250	N26226	56	37	-3	7	IAH	SAT	191
	86253	N87507	222	200	-1	1	IAH	BOS	1597
	86258	N75851	189	168		12	IAH	LAS	1222
	86260	N76269	145	129	22	32	IAH	DEN	862
	86261	N17620	144	117	-9	-8	IAH	IND	845
	86267	N37422	187	163	-2	16	IAH	EWR	1400
	86268	N78524	72	52	-6	-1	IAH	MFE	316
	86274	N78438	166	142	-12	3	IAH	PHX	1009
	86280	N37263	188	172	-4	13	IAH	LGA	1416
	86281	N38403	175	146	13	13	IAH	PIT	1117
	86286	N32404	194	172	-3	0	IAH	SLC	1117
	86287	N27724	163	141	- 4	-3	IAH	CLE	1091
##	00201	NCIICT	103	141	+	3	THU	OLE	1091

	00000	1107000	450	404	•		T 4 ***	000	005
	86288	N37293	156	134	0	1	IAH	ORD	925
	86298	N39726	172	154	-9	-10	IAH	DCA	1208
	86305	N57857	280	247	51	31	IAH	SF0	1635
	86310	N17245	236	198	50	32	IAH	BOS	1597
	86312	N34131	122	101	-11	1	IAH	MCO	853
	86318	N77296	197	174	-11	2	IAH	LAS	1222
##	86320	N77871	159	127	8	5	IAH	DEN	862
##	86322	N33289	157	133	2	1	IAH	DEN	862
##	86324	N12238	125	97	7	6	IAH	TPA	787
##	86327	N73299	187	158	12	-4	IAH	MSP	1034
##	86331	N73270	74	47	4	-3	IAH	MSY	305
##	86334	N16648	179	153	-2	-1	IAH	BWI	1235
##	86337	N76502	198	177	-12	-2	IAH	LGA	1416
##	86341	N37255	159	140	8	11	IAH	CLE	1091
##	86346	N13750	176	155	8	1	IAH	DCA	1208
##	86349	N34131	150	132	148	175	IAH	EGE	935
##	86350	N57863	284	259	14	8	IAH	SEA	1874
##	86353	N37427	259	238	90	99	IAH	SF0	1635
##	86358	N76505	231	206	20	16	IAH	BOS	1597
##	86361	N57857	125	101	-6	2	IAH	MCO	853
##	86367	N72405	197	170	-12	1	IAH	LAS	1222
	86371	N24715	115	93	-11	-1	IAH	TPA	787
	86372	N75425	280	258	3	1	IAH	PDX	1825
	86375	N12238	61	45	-9	-4	IAH	MSY	305
	86382	N76269	195	177	-1	-1	IAH	LGA	1416
	86386	N77430	189	172	-15	8	IAH	SAN	1303
	86387	N78438	183	168	-36	-2	IAH	SAN	1303
	86388	N17229	58	28	1	-1	IAH	AUS	140
	86389	N12225	174	145	11	0	IAH	CLE	1091
	86390	N76526	166	139	8	2	IAH	ORD	925
	86391	N38257	196	176	-1	3	IAH	SLC	1195
	86393	N16646	132	93	7	-2	IAH	ATL	689
	86394	N37287	197	172	-34	-1	IAH	SNA	1347
	86398	N78501	71	49	39	36	IAH	MSY	305
	86399	N33203	304	271	22	2	IAH	SEA	1874
	86402	N14250	292	229	86	55	IAH	SFO	1635
	86403	N14214	257	227	-13	0	IAH	SFO	1635
	86404	N16217	192	160	2	1	IAH	PHL	1324
	86409	N78866	125	103	-10	-2	IAH	MCO	853
	86411	N24633	190	158	21	-2	IAH	DTW	1076
	86414	N26210	206	183	-8	14	IAH	LAX	1379
	86417	N57864	164	131	2	0	IAH	DEN	862
	86423	N78013	189	162	-1	15	IAH	EWR	1400
	86428	N35407	158	139	-13	6	IAH	PHX	1009
	86434	N36207	114	93	-14	-4	IAH	TPA	787
	86435	N17233	209	173	6	7	IAH	EWR	1400
	86444	N38403	143	127	-2	7	IAH	ORD	925
	86445	N33203	134	113	-11	-2	IAH	FLL	965
	86449	N13718	174	157	-6	- 5	IAH	DCA	1208
	86452	N75410	253	230	64	71	IAH	SFO	1635
	86455	N17245	58	35	-6	-2	IAH	SAT	191
	86457	N57864	130	106	-6	3	IAH	MCO	853
	86459	N78506	180	150	8	-4	IAH	DTW	1076
	86461	N78506	212	188	-2	11	IAH	LAX	1379
ir m	50 101	111 0000	212	100	2	11	IAII	LAA	1013

	86462	N26226	193	162	-17	-3	IAH	LAS	1222
	86464	N17244	154	130	31	29	IAH	DEN	862
	86473	N35260	52	28	3	8	IAH	AUS	140
	86475	N35260	244	224	-16	-1	IAH	SJC	1609
	86476	N58606	172	152	-11	-8	IAH	PIT	1117
	86480	N12216	63	45	-2	1	IAH	MSY	305
	86482	N17620	138	115	-12	-4	IAH	CLT	913
##	86488	N12221	134	112	-12	1	IAH	FLL	965
	86492	N76529	202	182	-18	3	IAH	SNA	1347
	86494	N19638	122	102	-21	0	IAH	RSW	861
	86501	N33294	191	169	28	29	IAH	PHL	1324
	86503	N75435	55	37	8	13	IAH	SAT	191
##	86505	N73270	172	142	6	5	IAH	DTW	1076
##	86508	N77865	197	176	-15	14	IAH	LAX	1379
	86510	N73275	198	173	-17	-3	IAH	LAS	1222
##	86511	N79279	175	152	8	3	IAH	DCA	1208
##	86515	N30401	127	96	12	11	IAH	TPA	787
##	86517	N13718	223	187	-13	-4	IAH	SNA	1347
##	86522	N31412	49	28	0	6	IAH	AUS	140
##	86524	N62631	58	28	0	-4	IAH	AUS	140
##	86525	N13624	177	150	14	3	IAH	CLE	1091
##	86527	N37253	173	145	32	16	IAH	ORD	925
##	86529	N35407	131	116	-9	4	IAH	FLL	965
##	86536	N76529	117	100	-16	-3	IAH	RSW	861
##	86538	N14604	125	98	-1	0	IAH	MCI	643
##	86545	N77430	52	29	-1	3	IAH	AUS	140
##	86547	N36444	127	102	-3	7	IAH	MCO	853
##	86549	N76522	204	175	-8	3	IAH	SAN	1303
##	86550	N54241	140	112	-1	2	IAH	MIA	964
##	86558	N37287	55	28	1	2	IAH	AUS	140
##	86559	N14250	203	179	-12	10	IAH	LAX	1379
##	86566	N30401	162	140	-22	0	IAH	PHX	1009
##	86567	N14604	79	51	-5	-4	IAH	MFE	316
##	86568	N24212	65	44	-2	1	IAH	MSY	305
##	86570	N14704	200	181	-22	5	IAH	SNA	1347
##	86571	N16647	210	180	-1	-8	IAH	LGA	1416
##	86574	N16617	88	67	7	-3	IAH	MFE	316
##	86575	N73283	243	223	-6	6	IAH	SMF	1609
##	86577	N38443	162	137	12	3	IAH	ORD	925
##	86578	N76254	137	118	-9	0	IAH	FLL	965
##	86582	N73278	127	103	3	7	IAH	RSW	861
##	86585	N24633	119	95	-19	-5	IAH	ELP	667
##	86586	N75436	188	169	-2	2	IAH	PHL	1324
##	86589	N35204	58	36	-9	-2	IAH	SAT	191
##	86594	N14645	193	153	10	-10	IAH	DTW	1076
##	86595	N73259	202	173	-13	5	IAH	SAN	1303
##	86596	N17233	131	110	-11	6	IAH	MIA	964
##	86600	N78285	213	183	-8	10	IAH	LAX	1379
##	86605	N16234	69	56	-13	-3	IAH	MFE	316
##	86610	N14653	100	69	12	0	IAH	OKC	395
##	86612	N36444	245	223	-15	1	IAH	SMF	1609
##	86613	N19638	144	119	-11	-5	IAH	ABQ	744
	86614	N39416	204	174	-1	8	IAH	SAN	1303
##	86616	N12218	195	176	-29	-2	IAH	ONT	1334

шш	06601	NZOAOE	156	120	1	-	T A 11	ODD	005
	86621 86622	N72405 N14228	156	132	-4	-5	IAH IAH	ORD FLL	925
	86624		140 115	110 90	9	15 2	IAH	ATL	965 689
	86629	N37419 N26215	300	278	-12 15	-1	IAH	SEA	1874
	86632	N37252	189	165	4	8	IAH	PHL	1324
	86635	N76265	66	35	19	14	IAH	SAT	191
	86636	N16647	143	126	-34	-1	IAH	TUS	936
	86639	N10047 N27610	64	44	-34 -11	-3	IAH	DFW	224
	86641	N73251	130	111	-11 -1	-3 9	IAH	MIA	964
	86644	N73251 N74856	217	181	-1 5	15	IAH	LAX	1379
	86653	N16709	225	188	-2	3	IAH	SNA	1347
	86654	N62631	71	43	-4	-6	IAH	MSY	305
	86657	N37413	136	111	3	9	IAH	PBI	956
	86659	N37413 N33262	198	174	-12	-5	IAH	LGA	1416
	86660	N33202 N33292	187	173	-15	-6	IAH	PHL	1324
	86661	N33232 N17730	173	145	7	0	IAH	CLE	1091
	86665	N17730 N17619	159	130	0	-2	IAH	RDU	1043
	86668	N34222	142	114	7	0	IAH	OMA	781
	86673	N76254	127	101	-1	10	IAH	MCO	853
	86675	N32626	180	153	-6	-4	IAH	HDN	986
	86678	N37273	237	220	114	138	IAH	SMF	1609
	86683	N77066	501	482	8	12	IAH	HNL	3904
	86688	N14214	67	47	0	2	IAH	MSY	305
	86689	N37290	56	40	-4	0	IAH	SAT	191
	86698	N27421	59	42	-8	2	IAH	MSY	305
	86700	N16617	57	30	2	-2	IAH	AUS	140
	86708	N76523	236	191	9	4	IAH	LAX	1379
	86711	N14120	211	183	-13	2	IAH	LAX	1379
	86716	N75861	154	123	16	19	IAH	DEN	862
	86717	0001	NA	NA	NA	NA	IAH	EWR	1400
	86719	N12114	228	205	54	38	IAH	EWR	1400
	86725		NA	NA	NA	NA	IAH	EWR	1400
	86729	N68061	193	161	-21	-4	IAH	EWR	1400
	86735	N12238	74	43	5	-1	IAH	MSY	305
	86739	N79279	214	190	0	13	IAH	LAX	1379
##	86740	N75858	151	127	2	9	IAH	ORD	925
##	86743	N78285	203	183	-17	0	IAH	ONT	1334
##	86746	N27724	157	143	5	18	IAH	DCA	1208
##	86751	N18243	259	228	25	35	IAH	SFO	1635
##	86757	N76515	136	108	-3	4	IAH	MIA	964
##	86761	N77295	163	130	7	6	IAH	DEN	862
##	86766	N77430	118	94	11	17	IAH	TPA	787
##	86769	N13716	282	267	6	0	IAH	PDX	1825
##	86770	N35407	NA	NA	NA	8	IAH	EWR	1400
##	86772	N39415	238	222	-5	7	IAH	SJU	2007
##	86778	N57111	182	155	3	2	IAH	PHX	1009
##	86787		NA	NA	NA	NA	IAH	LGA	1416
##	86794	N16648	64	33	8	-3	IAH	AUS	140
##	86796	N59630	167	138	-6	-4	IAH	CLE	1091
##	86799	N16647	148	126	-10	1	IAH	RDU	1043
##	86805	N37253	164	139	-9	-2	IAH	DCA	1208
	86811	N14228	156	124	2	1	IAH	DEN	862
##	86814		NA	NA	NA	NA	IAH	BOS	1597
##	86820	N37290	147	127	-9	-4	IAH	DEN	862

	86825	N14250	292	273	21	8	IAH	PDX	1825
	86826	N77867	189	159	-6	14	IAH	EWR	1400
	86830	N37434	176	149	2	7	IAH	PHX	1009
##	86831	N76269	64	45	-7	-3	IAH	MSY	305
##	86833	N78509	190	147	28	12	IAH	BWI	1235
##	86837	N73276	180	160	-29	-1	IAH	LGA	1416
##	86849	N33209	157	141	-16	-3	IAH	DCA	1208
##	86855	N24212	254	230	-11	1	IAH	SF0	1635
##	86860	N36207	60	38	-4	-2	IAH	SAT	191
##	86867	N12225	184	165	-11	13	IAH	LAS	1222
##	86869	N12218	144	114	10	8	IAH	IND	845
##	86871	N17229	159	138	-21	-8	IAH	IAD	1190
##	86873	N78524	161	138	-14	-3	IAH	IAD	1190
##	86875	N15712	202	181	4	7	IAH	EWR	1400
##	86877	N12216	165	142	-11	-4	IAH	IAD	1190
##	86880	N87513	248	225	-10	0	IAH	SJC	1609
##	86881	N36272	69	45	4	4	IAH	MSY	305
##	86882	N14250	171	142	11	16	IAH	BWI	1235
##	86885	N17730	188	174	-18	-5	IAH	LGA	1416
##	86889	N14645	86	65	-4	-3	IAH	TUL	429
##	86890	N56859	150	118	-2	7	IAH	ORD	925
##	86892	N73283	148	128	63	69	IAH	ORD	925
	86897	N33203	158	138	-11	1	IAH	DCA	1208
	86901	N53442	285	269	7	2	IAH	SEA	1874
	86907	N76265	68	35	6	4	IAH	SAT	191
	86908		NA	NA	NA	NA	IAH	BOS	1597
	86912	N57855	203	178	-5	0	IAH	LAS	1222
	86914	N16617	155	115	8	-2	IAH	IND	845
	86920		NA	NA	NA	NA	IAH	EWR	1400
	86921	N24706	74	56	25	28	IAH	MFE	316
	86927	N38424	175	151	0	6	IAH	PHX	1009
	86933		NA	NA	NA	NA	IAH	LGA	1416
	86934	N38257	162	137	5	6	IAH	PIT	1117
	86939	N30401	189	175	-11	-3	IAH	SLC	1195
	86940	N14613	173	143	-2	- 5	IAH	CLE	1091
	86941	N76515	147	127	-13	-3	IAH	ORD	925
	86951	N29717	174	150	3	0	IAH	DCA	1208
	86953	N78511	217	194	-5	8	IAH	SNA	1347
	86959	N78438	256	228	-4	0	IAH	SFO	1635
	86964	1110100	NA NA	NA	NA	NA	IAH	BOS	1597
	86966	N12114	135	104	2	1	IAH	MCO	853
	86972	N78501	200	172	-2	8	IAH	LAS	1222
	86974	N74856	132	111	7	31	IAH	DEN	862
	86976	N14230	154	128	9	11	IAH	DEN	862
	86978	N73299	113	94	-9	2	IAH	TPA	787
	86981	N33292	170	148	-3	-2	IAH	MSP	1034
	86985	N33264	62	46	-3	2	IAH	MSY	305
	86988	N62631	172	148	-9	-1	IAH	BWI	1235
	86990	N02031 N17229	202	183	-9	-3	IAH	LGA	1416
	86994	N35271	168	141	14	8	IAH	CLE	1091
	86997	N13750	163	141	-9	-3	IAH	DCA	1208
	87000	N15750 N16703	168	152	-13	-3 -4	IAH	EGE	935
	87000	N73860	285	262	-13 17	10	IAH	SEA	1874
##	87005	N33209	242	223	-18	8	IAH	SF0	1635

##	87009		NA	NA	NA	NA	IAH	BOS	1597
	87015	N75410	200	179	-12	-2	IAH	LAS	1222
	87019	N13750	118	97	-10	-3	IAH	TPA	787
	87020	N75426	296	264	90	72	IAH	PDX	1825
	87029	N37277	188	162	24	31	IAH	LGA	1416
	87033	N75435	211	184	-7	-1	IAH	SAN	1303
	87034	N77525	169	144	6	0	IAH	CLE	1091
	87035	N77510	152	128	-1	7	IAH	ORD	925
	87036	N38257	192	172	-12	-4	IAH	SLC	1195
	87038	N14653	123	88	-2	-2	IAH	ATL	689
	87041	N78501	66	43	3	5	IAH	MSY	305
	87042	N75436	294	270	11	1	IAH	SEA	1874
	87045	N73283	241	218	-8	12	IAH	SFO	1635
	87046	N37287	265	240	-1	4	IAH	SFO	1635
##	87047	N24211	183	157	-9	-1	IAH	PHL	1324
##	87052	N57864	117	98	-14	2	IAH	MCO	853
##	87055	N76508	224	194	-1	3	IAH	LAX	1379
##	87058	N77871	150	125	-9	3	IAH	DEN	862
##	87064	N76010	201	171	3	7	IAH	EWR	1400
##	87069	N38403	165	142	-4	8	IAH	PHX	1009
##	87076	N76502	201	159	2	11	IAH	EWR	1400
##	87084	N32404	143	120	17	26	IAH	ORD	925
##	87085	N14228	158	125	19	4	IAH	FLL	965
##	87089	N14704	157	138	-23	-5	IAH	DCA	1208
##	87092	N79402	250	231	3	13	IAH	SF0	1635
	87095	N73259	61	44	5	6	IAH	SAT	191
	87097	N77865	121	103	-17	1	IAH	MCO	853
	87099	N16217	156	134	-11	1	IAH	DTW	1076
	87101	N27205	204	175	-7	14	IAH	LAX	1379
	87102	N18223	214	180	7	0	IAH	LAS	1222
	87104	N33262	152	122	26	26	IAH	DEN	862
	87113	N33264	50	31	2	9	IAH	AUS	140
	87115	N33262	247	229	-13	-1	IAH	SJC	1609
	87116	N37252	159	137	-13	-1	IAH	PIT	1117
	87120	N35260	72	45	4	-2	IAH	MSY	305
	87122	N14653	129	109	-20	-3	IAH	CLT	913
	87131	N78524	209	186	-14	0	IAH	SNA	1347
	87138	N33294	54	35	-7	-1	IAH	SAT	191
	87140	N76254	171	140	1	1	IAH	DTW	1076
	87142	N56859	222	197	-1	3	IAH	LAX	1379
	87144	N24211	196	176	-7 C	9	IAH	LAS	1222
	87148	N37408	115	95	-6	5	IAH	TPA	787
	87149	N39728 N16217	218 48	192	-15	-1 20	IAH IAH	SNA AUS	1347 140
	87153			31 32	22 -7	29	IAH	AUS	140
	87155	N17619	55 164	138	-11	-8 -0	IAH	CLE	1091
	87156	N27610	149	125	14	-9 22	IAH	ORD	925
	87158 87160	N37287			-9	-1	IAH		
	87164	N32404 N77520	136 57	116 29	-9 0	-1 -1	IAH	FLL AUS	965 140
	87168	N77520 N33294	122	101	-5	-1	IAH	RSW	861
	87170	N13624	122	94	-5 -7	-2	IAH	MCI	643
	87177	N75436	54	32	- <i>i</i> -1	1	IAH	AUS	140
	87179	N73430 N30401	123	102	-12	2	IAH	MCO	853
	87181	N27213	204	183	-7	4	IAH	SAN	1303
π#	0,101	1141410	204	100	,	4	THII	DUI	1303

##	87182	N79279	137	113	3	9	IAH	MIA	964
	87188	N78511	159	141	-7	4	IAH	DCA	1208
	87194	N13750	69	54	1	12	IAH	MFE	316
	87195	N78438	66	45	-4	-2	IAH	MSY	305
	87197	N13716	208	193	-11	8	IAH	SNA	1347
	87198	N58606	190	169	-16	-3	IAH	LGA	1416
	87201	N26215	242	224	-6	7	IAH	SMF	1609
	87203	N35271	145	129	-8	0	IAH	ORD	925
	87204	N37255	135	117	-10	1	IAH	FLL	965
	87208	N77296	123	101	-8	0	IAH	RSW	861
	87212	N17620	139	97	1	-5	IAH	ELP	667
	87213	N57439	181	160	-4	7	IAH	PHL	1324
	87216	N77525	56	36	1	10	IAH	SAT	191
	87221	N17614	166	139	-11	-4	IAH	DTW	1076
	87222	N47414	203	175	-19	-2	IAH	SAN	1303
	87226	N77258	225	193	-4	2	IAH	LAX	1379
	87231	N26226	75	55	- 5	-1	IAH	MFE	316
	87235	N19623	86	62	3	5	IAH	OKC	395
	87237	N75425	253	232	-12	-4	IAH	SMF	1609
	87238	N62631	139	116	-11	0	IAH	ABQ	744
	87239	N27421	195	175	-16	2	IAH	SAN	1303
	87242	N12225	216	193	-5	1	IAH	ONT	1334
	87246	N77865	156	124	-1	-2	IAH	ORD	925
	87247	N77431	138	117	-7	1	IAH	FLL	965
	87248	N13624	118	91	-13	-2	IAH	ATL	689
##	87252	N37427	290	272	5	-1	IAH	SEA	1874
##	87254	N73259	173	152	-20	0	IAH	PHL	1324
##	87256	N37273	60	37	4	5	IAH	SAT	191
##	87257	N13248	68	41	-5	-1	IAH	DFW	224
##	87259	N54241	141	114	6	5	IAH	MIA	964
##	87262	N77871	210	182	13	30	IAH	LAX	1379
##	87271	N21723	216	196	-8	6	IAH	SNA	1347
##	87274	N37253	135	114	-8	-1	IAH	PBI	956
	87276		NA	NA	NA	NA	IAH	LGA	1416
##	87277	N73278	189	165	7	14	IAH	PHL	1324
##	87278	N16709	164	132	-1	1	IAH	CLE	1091
##	87282	N24706	140	123	-17	0	IAH	RDU	1043
	87285	N36207	139	111	4	0	IAH	AMO	781
	87290	N79402	128	101	-8	2	IAH	MCO	853
	87292	N16647	180	160	-6	-4	IAH	HDN	986
	87295	N16713	254	229	-9	-2	IAH	SMF	1609
	87300	N67052	539	497	35	1	IAH	HNL	3904
	87305	N37287	68	46	6	7	IAH	MSY	305
	87306	N77295	62	39	3	1	IAH	SAT	191
	87315	N27610	80	47	49	38	IAH	MSY	305
	87317	N13248	53	30	3	3	IAH	AUS	140
	87327	N13113	224	195	51	53	IAH	LAX	1379
	87332	N75858	172	140	23	8	IAH	DEN	862
	87333	N17122	210	164	31	29	IAH	EWR	1400
	87335	NZZOCZ	NA 100	NA 150	NA	NA	IAH	EWR	1400
	87341	N73256	190	159	-13	-3	IAH	EWR	1400
	87345	N78060	196	168	-14	0	IAH	EWR	1400
	87351	N57439	76	47 105	5	-3	IAH	MSY	305 1270
##	87355	N26226	224	195	28	31	IAH	LAX	1379

	87356	N77865	158	130	213	213	IAH	ORD	925
	87359	N54241	221	191	41	40	IAH	ONT	1334
	87362	N17730	156	131	-7	7	IAH	DCA	1208
	87367	N31412	270	239	7	6	IAH	SF0	1635
	87373	N37267	134	114	32	41	IAH	MIA	964
	87377	N37252	171	136	11	2	IAH	DEN	862
	87382	N75429	132	104	6	-2	IAH	TPA	787
	87385	N23707	282	266	32	26	IAH	PDX	1825
	87386	N77006	190	160	-19	5	IAH	EWR	1400
	87388	N75435	251	226	1	0	IAH	SJU	2007
	87394	N13110	200	155	38	19	IAH	PHX	1009
	87403	N39728	189	159	-22	0	IAH	LGA	1416
	87410	N24633	52	28	-3	-2	IAH	AUS	140
	87412	N14639	160	133	-7	2	IAH	CLE	1091
	87415	N16648	166	128	20	13	IAH	RDU	1043
	87421	N27205	159	134	-12	0	IAH	DCA	1208
	87427	N37253	180	136	28	3	IAH	DEN	862
	87430	N77258	201	167	-22	-2	IAH	BOS	1597
##	87436	N24224	153	133	8	7	IAH	DEN	862
##	87441	N14230	281	266	0	-2	IAH	PDX	1825
##	87442	N57868	169	144	-32	8	IAH	EWR	1400
##	87445	N37290	173	146	-2	6	IAH	PHX	1009
##	87446	N73291	73	46	4	-1	IAH	MSY	305
##	87448		NA	NA	NA	NA	IAH	BWI	1235
##	87452	N73270	194	165	-17	-3	IAH	LGA	1416
##	87461	N13718	149	133	10	18	IAH	GUC	886
##	87470	N73299	253	228	-6	7	IAH	SF0	1635
##	87475	N29717	78	38	17	1	IAH	SAT	191
##	87482	N77258	210	179	-3	-2	IAH	LAS	1222
##	87484	N12238	119	102	23	46	IAH	IND	845
##	87486	N27213	159	133	-18	-5	IAH	IAD	1190
##	87488	N18223	164	139	-12	-4	IAH	IAD	1190
##	87490	N12218	207	173	8	6	IAH	EWR	1400
##	87492	N33294	160	136	-12	0	IAH	IAD	1190
##	87495	N87513	254	231	4	8	IAH	SJC	1609
##	87496	N33262	77	49	9	1	IAH	MSY	305
##	87497	N76505	162	140	-13	1	IAH	BWI	1235
##	87503	N16703	79	63	-7	1	IAH	TUL	429
##	87504	N76515	176	128	61	44	IAH	ORD	925
	87506	N12225	208	158	77	23	IAH	ORD	925
	87511	N76502	165	139	-1	4	IAH	DCA	1208
	87515	N27421	300	281	32	12	IAH	SEA	1874
	87521	N14250	58	39	-8	0	IAH	SAT	191
	87522	N76516	216	181	-6	2	IAH	BOS	1597
	87526	N57870	205	173	-3	0	IAH	LAS	1222
##	87528	N27610	124	107	29	50	IAH	IND	845
##	87534	N38424	186	164	7	26	IAH	EWR	1400
##	87535	N12225	73	53	1	5	IAH	MFE	316
##	87541	N53442	186	151	8	3	IAH	PHX	1009
	87547	N36272	186	155	-1	18	IAH	LGA	1416
	87548	N35407	144	119	-18	1	IAH	PIT	1117
	87553	N75410	202	181	5	0	IAH	SLC	1195
	87554	N14639	151	120	-27	-8	IAH	CLE	1091
##	87555		NA	NA	NA	NA	IAH	ORD	925

##	87564	N13716	158	136	-16	-3	IAH	DCA	1208
##	87571	N75410	265	232	6	9	IAH	SF0	1635
##	87576		NA	NA	NA	NA	IAH	BOS	1597
##	87578	N34131	126	100	24	32	IAH	MCO	853
##	87584	N24211	200	177	-3	7	IAH	LAS	1222
##	87586	N57855	166	135	24	14	IAH	DEN	862
##	87588	N24211	156	132	12	12	IAH	DEN	862
##	87590	N78285	117	94	-5	2	IAH	TPA	787
##	87593	N14230	154	135	36	53	IAH	MSP	1034
##	87597	N37263	77	50	16	6	IAH	MSY	305
##	87600	N14629	163	142	-24	-7	IAH	BWI	1235
##	87602	N17719	197	167	1	12	IAH	LGA	1416
##	87606	N37263	160	133	-3	-1	IAH	CLE	1091
##	87610	N35271	208	189	40	1	IAH	DCA	1208
##	87612	N38727	180	162	-7	-10	IAH	EGE	935
##	87614	N74856	305	278	40	13	IAH	SEA	1874
##	87620	N34282	197	171	-29	1	IAH	BOS	1597
	87626	N38443	211	174	2	1	IAH	LAS	1222
##	87630	N12216	124	95	-6	-5	IAH	TPA	787
##	87631	N77510	274	245	4	8	IAH	PDX	1825
##	87640		NA	NA	NA	NA	IAH	LGA	1416
##	87644	N47414	214	183	-2	1	IAH	SAN	1303
##	87645	N73278	140	117	-20	3	IAH	CLE	1091
##	87646	N76529	155	128	220	225	IAH	ORD	925
##	87647	N35204	216	196	14	-2	IAH	SLC	1195
##	87649	N17614	117	86	-8	-2	IAH	ATL	689
##	87650	N87513	225	196	-6	-1	IAH	SNA	1347
##	87653	N27213	74	47	16	10	IAH	MSY	305
##	87654	N75426	294	269	41	31	IAH	SEA	1874
##	87657	N33203	256	232	20	25	IAH	SF0	1635
##	87658	N77296	269	235	4	5	IAH	SF0	1635
##	87659	N14242	171	144	-21	-1	IAH	PHL	1324
##	87664	N57864	125	102	22	30	IAH	MCO	853
##	87667	N17229	216	190	21	33	IAH	LAX	1379
##	87669	N56859	167	138	20	15	IAH	DEN	862
##	87675	N27015	185	160	-17	3	IAH	EWR	1400
##	87680	N32404	165	148	-11	1	IAH	PHX	1009
##	87686		NA	NA	NA	NA	IAH	EWR	1400
##	87694	N72405	142	123	-1	9	IAH	ORD	925
##	87695	N57111	135	115	-12	-4	IAH	FLL	965
##	87699	N23708	154	139	-24	-3	IAH	DCA	1208
##	87702	N37408	275	240	15	0	IAH	SF0	1635
##	87705	N14250	63	38	-2	-3	IAH	SAT	191
	87707	N56859	136	101	3	6	IAH	MCO	853
##	87709	N24224	158	131	0	10	IAH	DTW	1076
##	87711	N77518	225	183	9	9	IAH	LAX	1379
##	87712	N37253	214	185	5	-2	IAH	LAS	1222
##	87714	N75851	151	124	-2	-1	IAH	DEN	862
##	87722	N76265	51	29	-5	1	IAH	AUS	140
	87724	N37267	263	235	9	5	IAH	SJC	1609
	87725	N17620	173	137	-7	-5	IAH	PIT	1117
	87729	N17619	66	43	-1	-1	IAH	MSY	305
##	87731	N17614	126	106	-18	2	IAH	CLT	913
##	87740	N78509	208	191	2	17	IAH	SNA	1347

	07746	N7700F	6.4	40	4.0		T A 11	O A TO	101
	87746	N77295	64	40	10	6	IAH	SAT	191
	87748	N39728	154	131	-16	1	IAH	DTW	1076
	87750	N57868	227	183	-2	-3	IAH	LAX	1379
	87755	N31412	117	99	-9 -7	0	IAH	TPA	787
	87756	N16701	231	198	7	8	IAH	SNA	1347
	87762	N35407	53	29	20	22	IAH	AUS	140
	87764	N13624	56	30	0	-2	IAH	AUS	140
	87765	N32626	141	120	-35	-10	IAH	CLE	1091
	87767	N14214	156	124	135	136	IAH	ORD	925
	87769	N78438	151	114	10	3	IAH	FLL	965
	87773	N76519	231	199	14	14	IAH	LAX	1379
	87776	N77525	158	136	5	17	IAH	DCA	1208
	87778	N78511	142	102	17	5	IAH	RSW	861
	87782	N16647	140	96	11	-3	IAH	MCI	643
	87789	N37290	56	31	-1	-1	IAH	AUS	140
	87791	N77431	121	100	-15	1	IAH	MCO	853
	87793	N73251	198	182	15	32	IAH	SAN	1303
	87794	N75426	166	133	26	3	IAH	MIA	964
	87800	N37255	63	33	14	7	IAH	AUS	140
	87806	N14214	76	56	-5	-1	IAH	MFE	316
	87807	N14628	74	49	5	-1	IAH	MSY	305
	87809	N13750	227	203	-3	-3	IAH	SNA	1347
	87810		NA	NA	NA	NA	IAH	LGA	1416
	87814	N14228	247	225	8	16	IAH	SMF	1609
	87816	N30401	165	131	264	252	IAH	ORD	925
	87817	N14242	140	114	3	9	IAH	FLL	965
	87821	N73291	126	105	-5	0	IAH	RSW	861
	87825	N23708	130	103	1	4	IAH	ELP	667
	87826	N27205	186	148	16	22	IAH	PHL	1324
	87829	N29717	81	41	17	1	IAH	SAT	191
	87834	N14645	173	134	-3	-3	IAH	DTW	1076
	87835	N37298	209	181	9	20	IAH	SAN	1303
	87839	N14237	234	190	7	4	IAH	LAX	1379
	87844	N16617	95	59	10	-6	IAH	MFE	316
	87848	N19638	85	65	-4	-1	IAH	OKC	395
	87850	N35271	270	245	2	-7	IAH	SMF	1609
	87851	N58606	148	120	-4	-2	IAH	ABQ	744
##	87852	N37277	202	185	-7	4	IAH	SAN	1303
	87855	N73276	216	195	-5	-3	IAH	ONT	1334
##	87860	N74856	154	128	41	42	IAH	ORD	925
##	87861	N39423	130	112	-18	-2	IAH	FLL	965
	87862	N17620	131	97	1	-1	IAH	ATL	689
##	87866	N37281	297	277	17	4	IAH	SEA	1874
##	87868	N77525	100	73	7	0	IAH	BHM	562
##	87870		NA	NA	NA	NA	IAH	PHL	1324
##	87872	N37273	67	45	12	6	IAH	SAT	191
##	87873	N14629	66	44	-10	-4	IAH	DFW	224
##	87875	N33203	139	110	-1	0	IAH	MIA	964
##	87878	N75861	213	181	24	38	IAH	LAX	1379
##	87887	N15710	219	191	-6	5	IAH	SNA	1347
##	87890	N38417	132	109	-9	1	IAH	PBI	956
##	87892	N35260	186	169	-21	-2	IAH	LGA	1416
##	87893	N35204	179	153	-7	10	IAH	PHL	1324
##	87894	N33286	153	125	-11	2	IAH	CLE	1091

	87897	N14628	158	133	1	0	IAH	RDU	1043
	87900	N19623	134	113	-2	-1	IAH	OMA	781
	87904	N17229	137	104	-5	-4	IAH	MCO	853
	87906	N19638	181	156	-8	-7	IAH	HDN	986
	87909	N73270	260	232	3	4	IAH	SMF	1609
	87913	N27724	98	73	-3	-2	IAH	BHM	562
	87915	N76064	513	486	23	15	IAH	HNL	3904
	87920	N38424	59	43	-3	7	IAH	MSY	305
	87921	N24211	60	41	4	4	IAH	SAT	191
	87930	N16648	68	39	16	17	IAH	MSY	305
	87932	N76515	47	32	-7	-1	IAH	AUS	140
	87940	N77520	236	195	36	31	IAH	LAX	1379
	87943	N17104	228	191	21	19	IAH	LAX	1379
	87948	N77871	172	137	17	2	IAH	DEN	862
	87949	N67157	213	184	10	5	IAH	EWR	1400
	87951	N73259	191	161	16	37	IAH	EWR	1400
	87957	N11206	188	168	-14	-2	IAH	EWR	1400
	87961	N76055	209	182	0	1	IAH	EWR	1400
	87967	N39423	74	45	5	-1	IAH	MSY	305
	87971	N37253	233	196	21	15	IAH	LAX	1379
	87972	N57868	139	111	19	38	IAH	ORD	925
	87975	N73291	222	197	8	6	IAH	ONT	1334
	87978	N14704	162	141	-9	-1	IAH	DCA	1208
	87983	N73406	276	255	7	0	IAH	SF0	1635
	87990	N76269	129	112	35	49	IAH	MIA	964
	87995	N75854	219	179	12	-1	IAH	LAS	1222
	87997	N26215	163	135	5	4	IAH	DEN	862
	88002	N37409	130	107	12	6	IAH	TPA	787
	88005	N15712	NA	NA	NA	9	IAH	PDX	1825
##	88006	N38257	204	182	-8	2	IAH	EWR	1400
	88008	N75426	257	235	102	95	IAH	SJU	2007
	88014	N48127	187	159	10	4	IAH	PHX	1009
	88020	N27610	174	150	-5	0	IAH	BWI	1235
	88024	N24715	209	182	16	18	IAH	LGA	1416
##	88032	N19638	60	32	6	-1	IAH	AUS	140
##	88034	N59630	151	125	-13	5	IAH	CLE	1091
##	88037		NA	NA	NA	NA	IAH	RDU	1043
	88044	N76529	159	137	7	19	IAH	DCA	1208
	88048	N18220	296	277	14	2	IAH	SEA	1874
	88051	N37434	271	248	24	18	IAH	SF0	1635
	88052	N37252	178	138	34	11	IAH	DEN	862
	88055	N33264	67	42	7	6	IAH	SAT	191
	88056	N32626	210	186	-10	1	IAH	BOS	1597
	88064	N39418	237	209	26	2	IAH	LAS	1222
	88066	N76254	145	129	-4	3	IAH	DEN	862
	88071	N38417	291	269	24	12	IAH	PDX	1825
	88072	N77867	193	157	20	36	IAH	EWR	1400
	88076	N45440	176	152	-3	2	IAH	PHX	1009
	88078	N37273	63	45	-5	0	IAH	MSY	305
	88080	N87513	165	147	-10	-1	IAH	BWI	1235
	88084	N76265	195	165	-5	8	IAH	LGA	1416
	88096	N39726	172	150	0	-2	IAH	DCA	1208
##	88104	N14228	289	255	40	17	IAH	SF0	1635
##	88110	N17619	63	42	-1	-2	IAH	SAT	191

	88112	N33262	223	192	1	-1	IAH	BOS	1597
	88118	N24212	211	187	9	6	IAH	LAS	1222
	88120	N34282	140	99	0	2	IAH	IND	845
	88122	N37274	219	200	0	-5	IAH	SAN	1303
	88123	N23707	175	144	3	0	IAH	IAD	1190
	88125	N33203	154	136	10	28	IAH	IAD	1190
	88127	N66056	206	175	-2	-3	IAH	EWR	1400
	88129	N76502	156	138	-17	-1	IAH	IAD	1190
	88132	N76516	259	234	19	18	IAH	SJC	1609
	88134	N36207	59	42	-7	3	IAH	MSY	305
	88135	N78509	174	142	0	2	IAH	BWI	1235
	88138	N17730	200	178	-4	-3	IAH	LGA	1416
	88142	N27610	86	66	2	3	IAH	TUL	429
	88143	N76515	153	114	0	6	IAH	ORD	925
	88145	N12216	140	116	-19	-5	IAH	ORD	925
	88150	N14250	168	146	0	2	IAH	DCA	1208
	88154	N53442	284	265	27	23	IAH	SEA	1874
	88160	N13248	70	41	2	-2	IAH	SAT	191
	88163	N37293	214	187	-7	3	IAH	BOS	1597
	88168	N73860	225	192	20	3	IAH	LAS	1222
	88170	N38443	172	129	26	9	IAH	DEN	862
	88171	N16648	149	103	2	-2	IAH	IND	845
	88177	N37437	203	183	-1	1	IAH	EWR	1400
	88178	N34282	74	54	-1	2	IAH	MFE	316
	88184	N75432	187	157	9	3	IAH	PHX	1009
	88191	N73270	215	177	9	-1	IAH	LGA	1416
	88192	N72405	159	135	1	5	IAH	PIT	1117
	88197	N35407	208	187	18	7	IAH	SLC	1195
	88198	N19621	168	140	4	0	IAH	CLE	1091
	88199	N14214	154	116	-4	-1	IAH	ORD	925
	88209	N27724	163	139	-6	2	IAH	DCA	1208
	88211	N76517	215	200	3	18	IAH	SNA	1347
	88217	N75435	267	242	22	15	IAH	SF0	1635
	88222	N33209	214	186	9	13	IAH	BOS	1597
	88224	N14120	143	115	14	5	IAH	MCO	853
	88230	N14242	210	185	2	2	IAH	LAS	1222
	88232	N74856	165	132	16	7	IAH	DEN	862
	88234	N36207	166	127	28	18	IAH	DEN	862
	88236	N73283	116	94	-7	1	IAH	TPA	787
	88239	N24224	172	134	19	18	IAH	MSP	1034
	88243	N35260	69	48	2	0	IAH	MSY	305
	88246	N14604	171	150	-10	-1	IAH	BWI	1235
	88249	N33264	193	172	- 5	10	IAH	LGA	1416
	88253	N35260	150	125	-5	7	IAH	CLE	1091
	88258	N73276	166	136	2	5	IAH	DCA	1208
	88261	N34137	173	151	- 5	-1	IAH	EGE	935
	88262	N78866	291	272	20	7	IAH	SEA	1874
	88269	N17619	206	189	76	97	IAH	BOS	1597
	88272	N57857	141	102	9	1	IAH	MCO	853
	88278	N31412	229	194	19	0	IAH	LAS	1222
	88282	N15710	128	105	6	3	IAH	TPA	787
	88283	N35407	308	284	41	11	IAH	PDX	1825
	88286	N16217	62	41	2	6	IAH	MSY	305
##	88293	N13750	180	158	-3	12	IAH	LGA	1416

	88297	N35204	209	193	8	11	IAH	SAN	1303
	88298	N75435	210	190	-7	0	IAH	SAN	1303
##	88299	N38257	58	32	18	16	IAH	AUS	140
##	88300	N87512	165	130	10	8	IAH	CLE	1091
##	88301	N79521	147	120	-7	6	IAH	ORD	925
##	88302	N33286	209	188	8	-1	IAH	SLC	1195
##	88304		NA	NA	NA	NA	IAH	ATL	689
##	88307	N14242	60	44	9	17	IAH	MSY	305
	88308	N47414	292	266	29	21	IAH	SEA	1874
##	88311	N33203	254	230	17	24	IAH	SF0	1635
##	88312	N78285	285	256	20	5	IAH	SF0	1635
##	88313	N24211	187	159	-2	2	IAH	PHL	1324
##	88318	N57864	124	105	33	42	IAH	MCO	853
##	88320	N17620	164	139	-5	-2	IAH	DTW	1076
##	88322	N73256	231	206	8	5	IAH	LAX	1379
##	88325	N56859	169	134	39	32	IAH	DEN	862
##	88331	N78004	180	150	-10	15	IAH	EWR	1400
##	88336	N27733	180	159	3	0	IAH	PHX	1009
##	88342	N73299	119	91	-8	-3	IAH	TPA	787
##	88343	N73251	183	157	-9	18	IAH	EWR	1400
##	88352	N75410	128	110	28	52	IAH	ORD	925
##	88353	N37253	131	113	-15	-3	IAH	FLL	965
##	88357	N16709	153	136	-9	13	IAH	DCA	1208
##	88360	N37408	276	244	19	3	IAH	SF0	1635
##	88363	N33209	62	42	-4	-4	IAH	SAT	191
##	88365	N56859	118	101	2	23	IAH	MCO	853
	88367	N12216	153	129	-6	9	IAH	DTW	1076
##	88369	N17233	226	196	21	20	IAH	LAX	1379
	88370	N37427	223	198	13	-3	IAH	LAS	1222
##	88372	N38443	173	135	37	16	IAH	DEN	862
	88380	N77865	185	154	6	-2	IAH	PHX	1009
	88382	N17229	61	33	4	0	IAH	AUS	140
	88384	N73276	263	248	1	-3	IAH	SJC	1609
	88385	N16647	171	133	5	9	IAH	PIT	1117
	88389	N14645	60	42	-9	-3	IAH	MSY	305
	88391		NA	NA	NA	NA	IAH	CLT	913
	88397	N36280	143	112	4	8	IAH	FLL	965
	88401	N77510	218	200	-7	-2	IAH	SNA	1347
	88403	N17614	129	107	-7	7	IAH	RSW	861
	88410	N24224	194	159	22	20	IAH	PHL	1324
	88412	N33262	68	46	10	2	IAH	SAT	191
	88414	N39728	141	122	50	80	IAH	DTW	1076
	88417	N57869	236	209	16	6	IAH	LAX	1379
	88419	N75436	210	189	3	5	IAH	LAS	1222
	88420	N76265	168	141	-4	-2	IAH	DCA	1208
	88424	N73406	107	91	-18	1	IAH	TPA	787
	88426	N16709	228	200	-3	1	IAH	SNA	1347
	88431	N12216	48	28	8	15	IAH	AUS	140
	88433	N24633	62	31	4	-4	IAH	AUS	140
	88434	N62631	160	136	-9	-3	IAH	CLE	1091
	88436	N78285	155	117	32	34	IAH	ORD	925
	88438	N76254	132	114	-3	9	IAH	FLL	965
	88445	N77510	128	106	0	2	IAH	RSW	861
##	88447	N16703	106	90	-19	1	IAH	MCI	643

	88455	N35204	60	34	16	12	IAH	AUS	140
	88457	N57439	140	112	24	21	IAH	MCO	853
	88459	N34222	217	188	8	6	IAH	SAN	1303
	88460	N14228	129	112	-14	0	IAH	MIA	964
	88467	N76517	59	33	13	10	IAH	AUS	140
		N26210	239	202	22	8	IAH	LAX	1379
		N76519	173	153	-14	-3	IAH	PHX	1009
		N38727	71	52	-8	1	IAH	MFE	316
	88477	N29717	65	50	-3	0	IAH	MSY	305
		N27733	236	209	6	-3	IAH	SNA	1347
##		N13718	184	161	-9	4	IAH	LGA	1416
##		N17619	82	55	1	-3	IAH	MFE	316
##		N26210	249	224	10	16	IAH	SMF	1609
##		N79402	146	119	1	8	IAH	ORD	925
##		N24202	129	112	-18	-1	IAH	FLL	965
##		N39297	120	100	-14	-3	IAH	RSW	861
##		N24633	128	105	-7	-2	IAH	ELP	667
##		N26208	180	156	-1	11	IAH	PHL	1324
	88498	N87512	56	41	-9	0	IAH	SAT	191
	88503	N14653	162	131	-15	-4	IAH	DTW	1076
	88504	N39726	210	188	9	19	IAH	SAN	1303
##	88505	N73251	139	112	-6	3	IAH	MIA	964
	88509	N14231	227	202	15	19	IAH	LAX	1379
	88514	N32626	74	55	11	16	IAH	MFE	316
	88519	N14628	82	64	-4	2	IAH	OKC	395
	88521	N17229	270	243	8	-1	IAH	SMF	1609
	88522	N19623	148	117	162	164	IAH	ABQ	744
	88523	N24211	210	195	-6	-3	IAH	SAN	1303
	88525	N78511	216	195	-6	-4	IAH	ONT	1334
	88530	N31412	153	116	2	4	IAH	ORD	925
	88531	N37290	134	113	-13	-1	IAH	FLL	965
	88533		NA	NA	NA	NA	IAH	ATL	689
	88538	N33286	297	266	12	-1	IAH	SEA	1874
	88541	N54241	198	155	23	18	IAH	PHL	1324
##	88544	N77296	67	42	14	8	IAH	SAT	191
##	88545	N59630	189	141	32	19	IAH	TUS	936
	88548	N17627	81	41	7	-2	IAH	DFW	224
	88550	N12218	NA	NA	NA	6	IAH	MIA	964
	88553	N75858	227	196	21	21	IAH	LAX	1379
	88562	N17719	220	200	-12	-2	IAH	SNA	1347
	88563	N24633	64	42	-4	1	IAH	MSY	305
	88566	N37427	129	111	-11	2	IAH	PBI	956
	88568	N35271	184	160	-21	0	IAH	LGA	1416
	88569	N27205	173	156	-23	0	IAH	PHL	1324
	88570	N24702	154	131	15	27	IAH	CLE	1091
	88574	N19623	155	123	-4	-2	IAH	RDU	1043
	88577	N58606	136	108	38	37	IAH	AMO	781
##	88580	N38403	176	153	7	12	IAH	PHX	1009
	88582	N14230	134	105	-1	3	IAH	MCO	853
	88584	N16647	183	155	-7	-8	IAH	HDN	986
	88587	N37273	256	239	-5	0	IAH	SMF	1609
	88592	N69063	501	484	27	31	IAH	HNL	3904
	88597	N37274	68	41	2	3	IAH	MSY	305
##	88598	N14652	63	39	42	39	IAH	SAT	191

##	00600	N16640	60	16	_1	2	IAH	MCV	205
	88608 88610	N16642 N62631	62 58	46 32	-4	3 -5	IAH	MSY AUS	305 140
					0		IAH		
	88616	N76504	236	212	66	61		LAX	1379
	88619	N14106	234	201	7	-1 20	IAH	LAX	1379
	88624	N57868	159	120	41	39	IAH	DEN	862
	88625	N69154	191	170	-11	6	IAH	EWR	1400
	88627	N17105	190	162	4	26	IAH	EWR	1400
	88631	N24729	183	162	-8	1	IAH	EWR	1400
	88635	N68061	185	161	27	44	IAH	EWR	1400
	88640	N27733	58	43	-10	0	IAH	MSY	305
	88644	N14228	229	204	18	16	IAH	LAX	1379
	88646	N57864	134	109	-11	13	IAH	ORD	925
	88649	N77258	226	201	9	3	IAH	ONT	1334
	88652	N29717	162	137	6	14	IAH	DCA	1208
	88657	N30401	259	239	14	19	IAH	SFO	1635
	88668	N16217	133	112	30	40	IAH	MIA	964
	88673	N57862	192	173	18	27	IAH	LAS	1222
	88675	N73275	137	114	-22	-2	IAH	DEN	862
	88678	N78438	116	97	-3	5	IAH	TPA	787
##	88680	N16732	267	249	48	57	IAH	PDX	1825
	88681	N32404	194	169	-4	16	IAH	EWR	1400
##	88683	N47414	235	219	50	60	IAH	SJU	2007
##	88688	N29124	172	152	14	18	IAH	PHX	1009
##	88693	N58606	174	152	19	19	IAH	BWI	1235
##	88697	N59630	204	174	-2	0	IAH	LGA	1416
##	88704	N24633	62	32	6	-3	IAH	AUS	140
##	88706	N46625	169	131	0	0	IAH	CLE	1091
##	88709	N35204	142	118	9	22	IAH	RDU	1043
##	88718	N17245	271	255	-10	3	IAH	SEA	1874
##	88721	N75436	258	239	15	17	IAH	SFO	1635
##	88722	N37287	159	122	29	25	IAH	DEN	862
##	88723	N37252	59	41	6	8	IAH	SAT	191
##	88728	N75428	198	178	6	16	IAH	LAS	1222
##	88729	N73299	144	121	-8	0	IAH	DEN	862
##	88733	N75429	256	240	-4	14	IAH	PDX	1825
	88734	N75861	199	158	36	46	IAH	EWR	1400
##	88739	N75425	174	147	-3	4	IAH	PHX	1009
	88741	N33266	65	44	10	13	IAH	MSY	305
	88743	N78509	154	136	-13	7	IAH	BWI	1235
	88754	N27724	203	184	49	3	IAH	GUC	886
	88757	N37273	159	142	7	13	IAH	DCA	1208
	88764	N12216	275	255	20	11	IAH	SFO	1635
	88769	N13624	61	41	2	3	IAH	SAT	191
	88771	N11206	207	186	4	13	IAH	BOS	1597
	88777	N37413	212	191	5	1	IAH	LAS	1222
	88779	N16732	117	99	-22	6	IAH	IND	845
	88781	N16713	206	190	-2	1	IAH	SAN	1303
	88782	N76254	149	131	-18	5	IAH	IAD	1190
	88784	N14242	156	140	2	18	IAH	IAD	1190
	88786	N14242 N67058	183	167	-13	1	IAH	EWR	1400
	88788		171	134	106	107	IAH	IAD	1190
		N24212	261		106				1609
	88790	N77510		242		15	IAH	SJC	
	88792	N16642	104	59	45	10	IAH	MSY	305
##	88793	N58606	183	143	20	13	IAH	BWI	1235

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	88796 88800	N78285 N59630	192 91	165 68	1	5 16	IAH	LGA TUL	1416 429
	88801		153	117	20 19	25	IAH	ORD	925
	88807	N75429 N37290	158	142	-2	10	IAH	DCA	1208
	88811	N75436	264	247	101	117	IAH	SEA	1874
	88817	N76265	72	36	26	20	IAH	SAT	191
	88820	N76523	192	178	19	51	IAH	BOS	1597
	88825	N12109	191	173	-5	4	IAH	LAS	1222
	88827	N76502	145	120	10	15	IAH	DEN	862
	88828	N17627	149	101	0	-4	IAH	IND	845
	88832	N36247	198	173	13	12	IAH	EWR	1400
	88833	N14242	74	55	29	32	IAH	MFE	316
	88836	N39415	196	156	130	115	IAH	PHX	1009
	88842	N37267	187	165	-8	10	IAH	LGA	1416
	88843	N73406	141	124	-8	14	IAH	PIT	1117
	88847	N27205	177	160	26	41	IAH	SLC	1195
	88848	N78506	160	143	-2	-3	IAH	CLE	1091
	88849	N35204	134	104	-13	5	IAH	ORD	925
	88858	N13718	173	144	5	3	IAH	DCA	1208
	88863	N38403	285	257	49	24	IAH	SFO	1635
##	88869	N27239	209	185	12	21	IAH	BOS	1597
##	88870	N17105	122	101	-9	-2	IAH	MCO	853
##	88876	N78285	221	195	41	30	IAH	LAS	1222
##	88878	N57869	142	122	0	14	IAH	DEN	862
##	88880	N24211	143	119	-7	6	IAH	DEN	862
##	88882	N76508	120	98	28	32	IAH	TPA	787
##	88885	N73251	183	141	34	22	IAH	MSP	1034
##	88889	N33262	64	46	58	61	IAH	MSY	305
##	88893	N35271	195	166	5	18	IAH	LGA	1416
	88896	N39297	150	125	72	84	IAH	CLE	1091
	88900	N37273	170	139	15	14	IAH	DCA	1208
	88903	N34137	156	136	-15	1	IAH	EGE	935
	88904	N57855	277	256	18	19	IAH	SEA	1874
	88907	N76502	290	251	70	48	IAH	SF0	1635
	88912	N17233	214	179	22	35	IAH	BOS	1597
	88915	N74856	131	108	9	6	IAH	MCO	853
	88920	N37408	212	185	6	4	IAH	LAS	1222
	88924	N75410	290	257	18	6	IAH	PDX	1825
	88927	N76508	56	43	9	14	IAH	MSY	305
	88934 88937	N33262	204 202	166	68 -2	59 8	IAH IAH	LGA SAN	1416 1303
	88938	N24224 N37413	198	187 182	-11	3	IAH	SAN	1303
	88939	N87512	54	34	12	9	IAH	AUS	140
	88940	N26210	137	120	-29	-3	IAH	CLE	1091
	88941	N76517	134	109	-5	21	IAH	ORD	925
	88942	N14250	188	167	10	22	IAH	SLC	1195
	88944	N14200	NA	NA	NA	NA	IAH	ATL	689
	88945	N77510	217	194	-5	3	IAH	SNA	1347
	88949	N73278	NA	NA	NA	3	IAH	MSY	305
	88950	N73276	277	258	7	14	IAH	SEA	1874
	88953	N27213	283	258	42	20	IAH	SF0	1635
	88954	N38403	256	234	-15	-3	IAH	SF0	1635
	88959	N75854	127	101	8	14	IAH	MCO	853
	88961	N39726	151	132	-4	3	IAH	DTW	1076

##	88964	N17229		239	209	29	18	IAH	LAX	1379
##	88967	N57868		142	118	-8	7	IAH	DEN	862
##	88970	N77006		217	161	23	11	IAH	EWR	1400
##	88974	N79402		185	160	27	19	IAH	PHX	1009
	88981	N37253		120	97	11	10	IAH	TPA	787
	88982	N77261		187	159	-15	14	IAH	EWR	1400
	88990	N75854		130	112	-8	14	IAH	ORD	925
	88991	N76517		128	111	-12	-2	IAH	FLL	965
	88995	N14731		161	145	-10	-1	IAH	DCA	1208
	88998	N38268		286	247	32	6	IAH	SFO	1635
##	89001	N39415		61	40	36	37	IAH	SAT	191
##	89003	N56859		126	101	41	54	IAH	MCO	853
##	89005	N27213		154	131	-9	5	IAH	DTW	1076
##	89007	N26210		236	207	26	15	IAH	LAX	1379
##	89008	N38257		179	166	-22	1	IAH	LAS	1222
	89010	N33264		168	122	40	24	IAH	DEN	862
	89019	N73276		54	31	13	16	IAH	AUS	140
	89022	N76265		255	237	13	12	IAH	SJC	1609
	89023	N19638		164	132	11	22	IAH	PIT	1117
				64	39		8			
	89027	N73406				6		IAH	MSY	305
	89034	N15710		137	114	2	7	IAH	FLL	965
	89038	N87513		235	206	22	10	IAH	SNA	1347
	89046	N19638		176	153	6	23	IAH	PHL	1324
##	89048	N24224		56	37	-2	2	IAH	SAT	191
##		TaxiIn T	CaxiOut	Cancelled C	ancellat	ionCode D	iverted			
##	5424	7	13	0			0			
##	5425	6	9	0			0			
##	5426	5	17	0			0			
##	5427	9	22	0			0			
##	5428	9	9	0			0			
	5429	6	13	0			0			
	5430	12	15	0			0			
	5431	7	12	0			0			
	5432	8	22	0			0			
	5433	6	19	0			0			
	5434	8	20	0			0			
	5435	4	11	0			0			
	5436	6	13	0			0			
	5437	5	15	0			0			
	5438	6	10	0			0			
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##	5440	8	8	0			0			
##	5441	7	11	0			0			
##	5442	10	11	0			0			
##	5443	9	24	0			0			
	5444	6	9	0			0			
	5445	9	8	0			0			
	5446	7	18	0			0			
	5447	6	28	0			0			
	5448	7					0			
			13	0						
	5449	8	14	0			0			
	5450	12	10	0			0			
	5451	8	12	0			0			
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	6343	6	25		0
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	6351	11	13	0	0
	6352	8	11	0	0
	6353	7	12	0	0
	6354	10	8	0	0
	6355	16	14	0	0
##	6356	15	11	0	0
	6357	12	13	0	0
##	6358	5	10	0	0
##	6359	12	12	0	0
##	6360	7	13	0	0
##	6361	14	14	0	0
##	6362	8	11	0	0
##	6363	11	8	0	0
##	6364	18	7	0	0
##	6365	11	11	0	0
##	6366	14	37	0	0
##	6367	8	11	0	0
##	6368	10	14	0	0
##	6369	16	10	0	0
##	6370	7	14	0	0
##	6371	12	10	0	0
##	6372	11	9	0	0
##	6373	10	8	0	0
##	8186	12	11	0	0
##	8187	5	16	0	0
##	8188	3	22	0	0
	8189	13	11		0
##	8190	14	13	0	0
##	8191	3	10	0	0
	8192	11	15	0	0
##	8193	10	11	0	0
##	8194	3	11	0	0
##	8195	9	10	0	0
##	8196	4	8	0	0
##	8197	5	20	0	0
##	8198	18	23	0	0
##	8199	5	12		0
##	8200	10	15		0
##	8201	4	6	0	0
##	8202	7	25	0	0
##	8203	3	10		0
	8204	9	8		0
##	8205	4	11	0	0
##	8206	8	11	0	0

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	8207	9	6	0	0
	8208	2	9	0	0
	8209	8	11	0	0
	8210	10	40	0	0
	8211	11	22	0	0
##	19266	16	12	0	0
##	19267	24	13	0	0
##	19268	10	18	0	0
##	19269	9	11	0	0
##	19270	16	12	0	0
##	19271	13	11	0	0
##	19272	6	14	0	0
##	19273	13	11	0	0
##	19274	9	17	0	0
##	19275	8	12	0	0
##	19276	8	14	0	0
##	19277	5	19	0	0
##	19278	4	14	0	0
##	19279	8	10	0	0
##	19280	5	11	0	0
##	19281	12	17	0	0
##	19282	10	11	0	0
##	19283	10	20	0	0
##	19284	6	10	0	0
##	19285	5	25	0	0
##	19286	9	12	0	0
##	19287	15	17	0	0
##	19288	7	25	0	0
##	19289	10	35	0	0
##	19290	10	15	0	0
##	19291	7	23	0	0
##	19292	10	13	0	0
##	19293	10	11	0	0
##	19294	5	9	0	0
##	19295	9	10	0	0
##	19296	9	12	0	0
##	23655	9	14	0	0
##	23656	6	11	0	0
##	23657	5	14	0	0
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##	74852	<i>7</i> 5	33	0	0
##	74854	4	33 14	0	0
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##	75702	8	23	0	C

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##	75711	4	18	0	0
##	75715	3	11	0	0
##	75718	9	24	0	Э
##	75721	3	11	0	Э
##	75723	6	16	0	Э
##	75725	7	23	0	Э
##	75727	15	19	0	Э
##	75728	6	12	0	Э
##	75730	5	31	0	0
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##	75773	13	19	0	Э
##	75775	6	15	0	Э
##	75779	5	26	0	Э
##	75781	16	34	0	Э
##	75787	5	16	0	Э
##	75788	7	16	0	Э
##	75790	11	23	0	Э
##	75792	4	23	0	Э
##	75795	6	25	0	Э
##	75798	5	14	0	Э
##	75800	7	49	0	Э
##	75807	7	14	0	Э
##	75809	6	36	0	Э
##	75811	3	19	0 0)
##	75812	5	12	0 0)
##	75819	8	30	0 0)
##	75820	8	30	0	0
##	75827	6	35	0)
##	75828	5	20	0)
##	75829	3	16	0)
	75831	6	12		0
	75832	5	16		0
	75836	6	15	0	0
	75838	10	17		0
	75839	5	12	0	
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	75846	4	25	0	
	75847	5	22	0	
	75849	3	20	0	
	75854	8	20	0	
	75855	2	30	0	
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## ##	75999 76005	13 4	20 18	0	0
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##	76037	6	16	0	0
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##	76043	3	16	0	0
##	76046	11	14	0	0
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##	76050	5	20	0	0
##	76051	7	17	0	0
##	76057	7	15	0	0
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##	76352	5 5	11 12	0	0
##	76354			0	0
##	76356	4	18	0	0
## ##	76360	6 8	24 15	0	0
##	76362 76369	8 7	12	0	0
##	76369	9	14	0	0
##	10311	Э	14	U	U

##	76373	4	15	0	C
##	76374	6	15	0	C
##	76382	7	20	0	C
##	76383	8	10	0	C
##	76390	5	9	0	C
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## ##	76428 76429	2 6	18	0	C
##	76429	5	11 13	0	0
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##	76522	19	14	0	C
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##	76530	13	15	0	C

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##	76550	NA	NA	1	В	0
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##	76620	4	24 16	0		0
##	76623	6	19	0		0
##	76624	7	19	0		0
##	76627					0
##	76628	4	19 16	0		0
##	76635	9	16	0		0
##	76637	6	19 14	0		
##	76642	6	22	0		0
		5		0		
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##	76676 76682	5 3	34	0		0
##			11	0		0
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##	76690	8	19	0		0
## ##	76692 76694	5 3	15 18	0 0		0
##	76695	6	16	0		0
##	76697	7	15	0		0
						0
## ##	76699 76701	24 9	13 10	0 0		0
##	76701	6	16	0		0
##	76704	3	36	0		0
	76707					
## ##	76710	5 8	15 17	0 0		0
##	76714	4		0		0
			11			0
##	76715	6	21	0		0
	76717 76722	6 4	17 13	0 0		0
##		4		0		0
	76726		16			
##	76732	4	15	0		0

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##	76735	7	25	0	0
##	76740	7	21	0	0
##	76742	6	15	0	0
##	76743	7	17	0	0
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##	76781	NA	NA	1	В 0
##	76788	8	48	0	0
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	76974	6	16	0	0
	76976	4	26	0	0
	76983	12	19	0	0
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	76987	7	25		0
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	77068	12	15		0
π#	11000	12	10	· ·	,

##	77071	5	22	0		0
##			19			0
	77076	11		0		
##	77077	4	18	0		0
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	77202	13	23	0		0
	77208	NA	NA	1	В	0
	77212	108	14	0		0
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	77242	6	14	0		0
	77248	22	23	0		0
	77250	8	13	0		0
##	77255	7	13	0		0
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##	77258	3	8	0		0
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##						
##	77379	8 N A	13 NA	0	D	0
	77381	NA	NA	1	В	0
## ##	77383	9	13	0		0
	77386	4	17	0		0
	77388 77389	4	15	0		
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##	86966	10	21	0	-	0
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##	86974	10	11	0		0
##	86976	7	19	0		0
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	87153	4	13	0	0
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##	87300	4	38	0		0
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## ## ## ## ## ##	87315 87317 87327 87332 87333	6 4 11	27 19 18	0 0 0		0 0 0
## ## ## ## ## ##	87327 87332	11				
## ## ## ## ##	87332		18	0		Ω
## ## ## ##		10		· ·		•
## ## ## ##	87333	12	20	0		0
## ## ##		30	16	0		0
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##	88071	5	17	0	C
##	88072	9	27	0	C
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## ##	88142 88143	7	13	0	0
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##	88779	6	12	0	C
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##	88796	9	18	0	C
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##	88939	4	16	0	C
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## 88942
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## 88945
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## 88949
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## 89007
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## 89008
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## 89010
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## 89027
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## 89034
                4
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## 89038
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## 89048
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Subsetting

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# Extract by name - $
mpg$manufacturer
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##
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                                       "ford"
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                                                                    "ford"
    [81] "ford"
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    [91] "ford"
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                                                    "toyota"
                                                                   "toyota"
##
   [206] "toyota"
                        "toyota"
                                      "volkswagen"
                                                    "volkswagen"
                                                                  "volkswagen"
                        "volkswagen"
                                                    "volkswagen"
                                                                   "volkswagen"
   [211] "volkswagen"
                                      "volkswagen"
                                                                  "volkswagen"
  [216] "volkswagen"
                        "volkswagen"
                                      "volkswagen"
                                                    "volkswagen"
   [221] "volkswagen"
                        "volkswagen"
                                      "volkswagen"
                                                    "volkswagen"
                                                                  "volkswagen"
  [226] "volkswagen" "volkswagen"
                                      "volkswagen" "volkswagen"
                                                                  "volkswagen"
   [231] "volkswagen" "volkswagen"
                                      "volkswagen" "volkswagen"
```

Using with a pipe operator

mpg %>% .\$manufacturer

```
##
      [1] "audi"
                         "audi"
                                       "audi"
                                                      "audi"
                                                                     "audi"
##
                         "audi"
                                                                     "audi"
      [6] "audi"
                                       "audi"
                                                      "audi"
                         "audi"
                                       "audi"
                                                      "audi"
                                                                     "audi"
##
    [11] "audi"
                         "audi"
##
    [16] "audi"
                                       "audi"
                                                      "chevrolet"
                                                                     "chevrolet"
##
    [21] "chevrolet"
                         "chevrolet"
                                       "chevrolet"
                                                      "chevrolet"
                                                                     "chevrolet"
##
    [26] "chevrolet"
                         "chevrolet"
                                       "chevrolet"
                                                      "chevrolet"
                                                                     "chevrolet"
##
    [31] "chevrolet"
                         "chevrolet"
                                       "chevrolet"
                                                      "chevrolet"
                                                                     "chevrolet"
##
    [36]
          "chevrolet"
                         "chevrolet"
                                       "dodge"
                                                      "dodge"
                                                                     "dodge"
##
    [41] "dodge"
                         "dodge"
                                       "dodge"
                                                      "dodge"
                                                                     "dodge"
##
    [46] "dodge"
                         "dodge"
                                       "dodge"
                                                      "dodge"
                                                                     "dodge"
                         "dodge"
                                                                     "dodge"
##
    [51] "dodge"
                                       "dodge"
                                                      "dodge"
##
    [56] "dodge"
                         "dodge"
                                       "dodge"
                                                      "dodge"
                                                                     "dodge"
                                                      "dodge"
                                                                     "dodge"
##
    [61]
         "dodge"
                         "dodge"
                                       "dodge"
##
    [66]
          "dodge"
                         "dodge"
                                       "dodge"
                                                      "dodge"
                                                                     "dodge"
                         "dodge"
                                                                     "ford"
##
    [71]
          "dodge"
                                       "dodge"
                                                      "dodge"
##
    [76]
          "ford"
                         "ford"
                                       "ford"
                                                      "ford"
                                                                     "ford"
                                                                     "ford"
##
    [81] "ford"
                         "ford"
                                       "ford"
                                                      "ford"
##
    [86] "ford"
                         "ford"
                                       "ford"
                                                      "ford"
                                                                     "ford"
                                                                     "ford"
    [91] "ford"
                         "ford"
                                       "ford"
                                                      "ford"
##
                         "ford"
                                       "ford"
                                                      "ford"
                                                                     "honda"
##
    [96]
         "ford"
   [101]
         "honda"
                         "honda"
                                       "honda"
                                                      "honda"
                                                                     "honda"
##
                         "honda"
                                       "honda"
                                                                     "hvundai"
   Г1067
          "honda"
                                                      "hvundai"
##
   [111]
          "hyundai"
                         "hyundai"
                                       "hyundai"
                                                      "hyundai"
                                                                     "hyundai"
##
   [116]
         "hyundai"
                         "hyundai"
                                       "hyundai"
                                                      "hyundai"
                                                                     "hyundai"
   [121] "hyundai"
                                                      "jeep"
                                                                     "jeep"
                         "hyundai"
                                       "jeep"
```

```
## [126] "jeep"
                       "jeep"
                                      "jeep"
                                                    "jeep"
                                                                 "jeep"
   [131] "land rover"
                       "land rover"
                                     "land rover"
                                                   "land rover"
                                                                 "lincoln"
   [136] "lincoln"
                       "lincoln"
                                      "mercury"
                                                    "mercury"
                                                                 "mercury"
   [141] "mercury"
                        "nissan"
                                      "nissan"
                                                    "nissan"
                                                                  "nissan"
##
##
   [146] "nissan"
                       "nissan"
                                      "nissan"
                                                    "nissan"
                                                                 "nissan"
   [151] "nissan"
                                                                  "pontiac"
##
                       "nissan"
                                      "nissan"
                                                    "nissan"
   [156] "pontiac"
                       "pontiac"
                                      "pontiac"
                                                    "pontiac"
                                                                 "subaru"
                       "subaru"
##
   [161]
         "subaru"
                                      "subaru"
                                                    "subaru"
                                                                 "subaru"
##
   Г1667
         "subaru"
                       "subaru"
                                      "subaru"
                                                    "subaru"
                                                                  "subaru"
##
   [171]
         "subaru"
                       "subaru"
                                      "subaru"
                                                    "toyota"
                                                                 "toyota"
   [176] "toyota"
                       "toyota"
                                      "toyota"
                                                    "toyota"
                                                                 "toyota"
                                                                 "toyota"
                       "toyota"
                                                    "toyota"
##
   [181]
         "toyota"
                                      "toyota"
##
   [186]
                       "toyota"
                                      "tovota"
                                                    "tovota"
                                                                 "toyota"
         "toyota"
                                                                 "toyota"
##
   [191]
         "toyota"
                       "toyota"
                                      "toyota"
                                                    "toyota"
                       "toyota"
                                      "toyota"
                                                    "toyota"
                                                                 "toyota"
##
   [196]
         "toyota"
   [201]
         "toyota"
                        "toyota"
                                      "toyota"
                                                    "toyota"
                                                                  "toyota"
##
   [206]
         "toyota"
                       "toyota"
                                      "volkswagen"
                                                   "volkswagen"
                                                                 "volkswagen"
   [211] "volkswagen"
                       "volkswagen"
                                      "volkswagen"
                                                    "volkswagen"
                                                                 "volkswagen"
   [216] "volkswagen"
                       "volkswagen"
                                     "volkswagen"
                                                   "volkswagen"
                                                                 "volkswagen"
##
   [221] "volkswagen" "volkswagen" "volkswagen" "volkswagen" "volkswagen"
   [226] "volkswagen" "volkswagen" "volkswagen" "volkswagen"
  [231] "volkswagen" "volkswagen" "volkswagen" "volkswagen"
```

mpg %>% .[["manufacturer"]]

```
[1] "audi"
                         "audi"
                                       "audi"
                                                                     "audi"
##
                                                      "audi"
##
     [6] "audi"
                         "audi"
                                       "audi"
                                                      "audi"
                                                                     "audi"
##
    [11] "audi"
                         "audi"
                                       "audi"
                                                      "audi"
                                                                     "audi"
    [16] "audi"
                         "audi"
                                       "audi"
                                                                     "chevrolet"
##
                                                      "chevrolet"
##
    [21]
          "chevrolet"
                         "chevrolet"
                                       "chevrolet"
                                                      "chevrolet"
                                                                     "chevrolet"
##
    [26] "chevrolet"
                         "chevrolet"
                                       "chevrolet"
                                                                     "chevrolet"
                                                      "chevrolet"
##
    [31] "chevrolet"
                         "chevrolet"
                                       "chevrolet"
                                                      "chevrolet"
                                                                     "chevrolet"
                         "chevrolet"
                                                                     "dodge"
##
    [36] "chevrolet"
                                       "dodge"
                                                      "dodge"
##
    [41] "dodge"
                         "dodge"
                                       "dodge"
                                                      "dodge"
                                                                     "dodge"
                                                                     "dodge"
##
    [46]
         "dodge"
                         "dodge"
                                       "dodge"
                                                      "dodge"
##
    [51]
          "dodge"
                         "dodge"
                                       "dodge"
                                                      "dodge"
                                                                     "dodge"
                         "dodge"
                                                                     "dodge"
##
    [56]
          "dodge"
                                                      "dodge"
                                       "dodge"
##
    [61]
          "dodge"
                         "dodge"
                                       "dodge"
                                                      "dodge"
                                                                     "dodge"
                         "dodge"
                                                                     "dodge"
##
    [66]
          "dodge"
                                       "dodge"
                                                      "dodge"
                                                                     "ford"
##
    [71] "dodge"
                         "dodge"
                                       "dodge"
                                                      "dodge"
                                                                     "ford"
                         "ford"
##
    [76] "ford"
                                       "ford"
                                                      "ford"
##
    [81] "ford"
                         "ford"
                                       "ford"
                                                      "ford"
                                                                     "ford"
                         "ford"
                                                                     "ford"
##
    [86] "ford"
                                       "ford"
                                                      "ford"
##
    [91] "ford"
                         "ford"
                                       "ford"
                                                      "ford"
                                                                     "ford"
##
    [96] "ford"
                         "ford"
                                       "ford"
                                                      "ford"
                                                                     "honda"
   [101] "honda"
                         "honda"
                                       "honda"
                                                      "honda"
                                                                     "honda"
##
   [106] "honda"
                         "honda"
                                       "honda"
                                                      "hyundai"
                                                                     "hyundai"
                         "hyundai"
                                       "hyundai"
                                                      "hyundai"
                                                                     "hyundai"
##
   [111]
          "hyundai"
   [116]
          "hyundai"
                         "hyundai"
                                       "hyundai"
                                                      "hyundai"
                                                                     "hyundai"
##
   [121]
          "hyundai"
                         "hyundai"
                                       "jeep"
                                                      "jeep"
                                                                     "jeep"
          "jeep"
                         "jeep"
                                       "jeep"
                                                      "jeep"
                                                                     "jeep"
   [126]
                         "land rover"
                                                      "land rover"
                                                                     "lincoln"
          "land rover"
                                       "land rover"
##
   [131]
                         "lincoln"
##
   [136]
         "lincoln"
                                       "mercury"
                                                      "mercury"
                                                                     "mercury"
   [141] "mercury"
                         "nissan"
                                       "nissan"
                                                      "nissan"
                                                                     "nissan"
   [146] "nissan"
                         "nissan"
                                       "nissan"
                                                      "nissan"
                                                                     "nissan"
```

```
## [151] "nissan"
                       "nissan"
                                    "nissan"
                                                  "nissan"
                                                                "pontiac"
                                                  "pontiac"
## [156] "pontiac"
                       "pontiac"
                                                                "subaru"
                                    "pontiac"
                                    "subaru"
## [161] "subaru"
                       "subaru"
                                                  "subaru"
                                                                "subaru"
## [166] "subaru"
                       "subaru"
                                    "subaru"
                                                  "subaru"
                                                                "subaru"
## [171] "subaru"
                       "subaru"
                                    "subaru"
                                                  "toyota"
                                                                "toyota"
## [176] "toyota"
                       "toyota"
                                    "toyota"
                                                  "toyota"
                                                                "toyota"
## [181] "toyota"
                       "toyota"
                                    "toyota"
                                                  "toyota"
                                                                "toyota"
                       "toyota"
                                    "toyota"
                                                  "toyota"
                                                                "toyota"
## [186] "toyota"
## [191] "toyota"
                       "toyota"
                                    "toyota"
                                                  "toyota"
                                                                "toyota"
## [196] "toyota"
                       "toyota"
                                                                "toyota"
                                    "toyota"
                                                  "toyota"
## [201] "toyota"
                       "toyota"
                                    "toyota"
                                                  "toyota"
                                                                "toyota"
                       "toyota"
## [206] "toyota"
                                    "volkswagen" "volkswagen"
                                                                "volkswagen"
## [211] "volkswagen" "volkswagen" "volkswagen" "volkswagen" "volkswagen"
## [216] "volkswagen" "volkswagen" "volkswagen" "volkswagen" "volkswagen"
## [221] "volkswagen" "volkswagen" "volkswagen" "volkswagen" "volkswagen"
## [226] "volkswagen" "volkswagen" "volkswagen" "volkswagen" "volkswagen"
## [231] "volkswagen" "volkswagen" "volkswagen" "volkswagen"
```

Read files

c1 c2

сЗ

```
# Read inline csv file
read_csv("c1,c2,c3
          1,a,T,
          2,b,T,
          3,c,F")
## # A tibble: 3 x 3
        c1 c2
     <dbl> <chr> <chr>
##
## 1
         1 a
                 Τ,
         2 b
## 2
                 Τ,
## 3
         3 c
                 F
# Inline files with a meta header lines
read csv("First meta line
          Second meta line
          c1,c2,c3
          1,a,T,
          2, b, T,
          3,c,F'', skip = 2)
## # A tibble: 3 x 3
##
        c1 c2
##
     <dbl> <chr> <chr>
## 1
         1 a
                 Τ,
## 2
         2 b
                 Τ,
## 3
                 F
         3 c
   Inline files with comments
read csv("c1,c2,c3 # comment
          1,a,T,
                  # comment
          2, b, T,
          3,c,F", comment = "#")
## # A tibble: 3 x 3
```

```
## 3
         3 c
                 F
Read comma separated files - .csv from your disk
# Small mpg table
df <- read_csv(file = "./data/mpg_mini.csv")</pre>
# Small mpg table (column separator = ";)
df <- read_csv2(file = "./data/mpg_mini2.csv")</pre>
# Read tab separated files - .tsv from your disk
df <- read_tsv(file = "./data/mpg.tsv")</pre>
# Read files with selected delimiter
df <- read_delim(file = "./data/mpg_delim.txt", delim = "~")</pre>
# Read text file:
# - " " as separator
  - decimal separator ","
#
   - quotations around strings
# - meta lines in header
  - empty lines
  - missing values
#
df <- read_delim(file = "./data/mpg.txt",</pre>
                 col_names = T,
                 skip = 3,
                 skip_empty_rows = T,
                 delim = " ",
                 quote = "\"",
                 na = "")
# Read log based file:
read_log(file = "./data/example.log")
## # A tibble: 2 x 7
##
    X1
                                              Х4
                  X2
                        ХЗ
                                                                    Х5
                                                                             Х6
                                                                                    X7
##
     <chr>
                                              <chr>
                  <lgl> <chr>
                                                                    <chr> <dbl> <dbl>
                        "Microsoft\\JohnDoe" 08/Apr/2001:17:39:0~ GET ~
## 1 172.21.13.45 NA
                                                                            200
                                                                                 3401
## 2 127.0.0.1
                         "frank"
                                              10/Oct/2000:13:55:3~ GET ~
                                                                            200
                                                                                 2326
# Read large .csv file
# - read.csv VS read csv
# - execution times
system.time(df <- read.csv(file = "./data/mpg_maxi.csv"))</pre>
##
      user system elapsed
##
      2.29
              0.09
                      2.42
system.time(df <- read_csv(file = "./data/mpg_maxi.csv"))</pre>
##
      user system elapsed
##
      1.04
            0.08
                      0.50
```

<dbl> <chr> <chr>

1 a

2 b

Τ,

Τ,

1

2

Vector parsing

```
# Parse character vector
parse_character(c("one", "two", "three"))
## [1] "one" "two" "three"
parse_character(c("one", "two", 3))
## [1] "one" "two" "3"
# Other type encoding
konnichiwa <- "\x82\xb1\x82\xc9\x82\xbf\x82\xcd" # Japanese word
parse_character(konnichiwa) # UTF-8 encoding by default
## [1] "\x82\xb1\x82\xf1\x82\xbf\x82\xcd"
parse_character(konnichiwa, locale = locale(encoding = "Shift-JIS")) # switch encoding
## [1] "こんにちは"
# Parse logical vector
parse_logical(c("TRUE", "FALSE", "T", "F"))
## [1] TRUE FALSE TRUE FALSE
parse_logical(c("TRUE", "FALSE", "T", "F", "NA"))
## [1] TRUE FALSE TRUE FALSE
# check parsing problems
x <- parse_logical(c("TRUE", "FALSE", "T", "F", "NA", "string"))
problems(x)
## # A tibble: 1 x 4
##
      row col expected
                                   actual
##
    <int> <int> <chr>
                                   <chr>>
           NA 1/0/T/F/TRUE/FALSE string
       6
# Parse integer vector
parse_integer(c("10", "20", "30", "40"))
## [1] 10 20 30 40
parse_integer(c("10", "20", "30", "40.5"))
## [1] 10 20 30 NA
## attr(,"problems")
## # A tibble: 1 x 4
##
      row col expected
                                       actual
##
     <int> <int> <chr>
                                        <chr>
## 1
        4
             NA no trailing characters 40.5
# Parse factor
parse_factor(c("one", "two", "one"))
## [1] one two one
## Levels: one two
parse_factor(c("one", "two", "one"), levels = c("two", "one"))
## [1] one two one
```

```
## Levels: two one
# Parse double vector
parse_double(c("11.7", "4.13"))
## [1] 11.70 4.13
# Different decimal mark
parse_double(c("11,7", "4,13"))
## [1] NA NA
## attr(,"problems")
## # A tibble: 2 x 4
##
      row col expected
                                       actual
   <int> <int> <chr>
                                        <chr>>
## 1 1 NA no trailing characters 11,7
       2 NA no trailing characters 4,13
parse_double(c("11,7", "4,13"),
            locale = locale(decimal_mark = ","))
## [1] 11.70 4.13
# Parse number
parse_number(c("1", "2.2", "$1000", "20%", "1,000"))
## [1]
         1.0
                2.2 1000.0
                            20.0 1000.0
# Grouping mark specified
parse_number(c("100,000.2"), locale = locale(grouping_mark = ","))
## [1] 100000.2
# Parse date
parse_date("2021-12-31")
## [1] "2021-12-31"
# Specify date format
parse_date("20211231", "%Y%m%d")
## [1] "2021-12-31"
parse_date("21/12/31", "%y/%m/%d")
## [1] "2021-12-31"
# Parse time
parse_time("00:01")
## 00:01:00
parse_time("00:01 am")
## 00:01:00
parse_time("00:01:00")
## 00:01:00
# Parse datetime
parse_datetime("2021-12-31 00:01")
```

```
## [1] "2021-12-31 00:01:00 UTC"
```

File parsing

```
# Guess parser heuristic
guess_parser(c("T", "F"))
## [1] "logical"
guess_parser("2021-12-31")
## [1] "date"
guess_parser("2021-12-31 00:01")
## [1] "datetime"
guess_parser(c("5", "10"))
## [1] "double"
# Parse each column mpg table
read_tsv(file = "./data/mpg.tsv",
         col_types = cols(
          manufacturer = col_factor(),
          model = col_factor(),
          displ = col_double(),
          year = col_integer(),
          cyl = col_integer(),
          trans = col_character(),
          drv = col_character(),
          cty = col number(),
          hwy = col_number(),
          fl = col character(),
           class = col_character()
         ))
## # A tibble: 234 x 11
##
     manufacturer model
                                           cyl trans drv
                                                                   hwy fl
                             displ year
                                                             cty
                                                                             class
##
      <fct>
                  <fct>
                             <dbl> <int> <int> <chr> <dbl> <dbl> <chr> <chr>
##
                              1.8 1999
  1 audi
                  a4
                                             4 auto~ f
                                                              18
                                                                    29 p
                                                                             comp~
                                                                    29 p
##
   2 audi
                 a4
                              1.8 1999
                                             4 manu~ f
                                                              21
                                                                             comp~
##
   3 audi
                  a4
                               2
                                    2008
                                             4 manu~ f
                                                              20
                                                                    31 p
                                                                             comp~
##
  4 audi
                              2
                                    2008
                                                              21
                 a4
                                             4 auto~ f
                                                                    30 p
                                                                             comp~
                                                                    26 p
## 5 audi
                 a4
                              2.8 1999
                                             6 auto~ f
                                                            16
                                                                             comp~
## 6 audi
                              2.8 1999
                                                             18
                  a4
                                             6 manu~ f
                                                                    26 p
                                                                             comp~
                               3.1 2008
## 7 audi
                  a4
                                             6 auto~ f
                                                             18
                                                                    27 p
                                                                             comp~
## 8 audi
                  a4 quattro 1.8 1999
                                             4 manu~ 4
                                                              18
                                                                    26 p
                                                                             comp~
## 9 audi
                  a4 quattro 1.8 1999
                                             4 auto~ 4
                                                             16
                                                                    25 p
                                                                             comp~
## 10 audi
                                             4 manu~ 4
                                    2008
                                                              20
                  a4 quattro
                                                                    28 p
                                                                             comp~
## # i 224 more rows
# Import table
# - do not specify column types at import
# - change column types inside R
read_tsv(file = "./data/mpg.tsv") %>%
  mutate_at(.vars = c("year", "cyl"), .funs = as.integer) %>%  # integer conversion
 mutate_at(.vars = c("manufacturer", "model"), .funs = as.factor) # factor conversion
```

```
## # A tibble: 234 x 11
##
      manufacturer model
                                displ year
                                                cyl trans drv
                                                                          hwy fl
                                                                                     class
                                                                    cty
##
      <fct>
                    <fct>
                                <dbl> <int> <int> <chr> <dbl> <dbl> <dbl> <chr>
                                                                                     <chr>
                                                                           29 p
##
    1 audi
                    a4
                                   1.8
                                        1999
                                                  4 auto~ f
                                                                     18
                                                                                     comp~
##
    2 audi
                                  1.8
                                        1999
                                                                           29 p
                    a4
                                                  4 manu~ f
                                                                     21
                                                                                     comp~
##
    3 audi
                    a4
                                   2
                                        2008
                                                  4 manu~ f
                                                                     20
                                                                           31 p
                                                                                     comp~
##
    4 audi
                    a4
                                   2
                                        2008
                                                  4 auto~
                                                                     21
                                                                           30 p
                                                                                     comp~
##
    5 audi
                                   2.8
                                        1999
                    a4
                                                  6 auto~ f
                                                                     16
                                                                           26 p
                                                                                     comp~
##
    6 audi
                    a4
                                   2.8
                                        1999
                                                  6 manu~ f
                                                                     18
                                                                           26 p
                                                                                     comp~
##
    7 audi
                                        2008
                                                                           27 p
                    a4
                                   3.1
                                                  6 auto~ f
                                                                     18
                                                                                     comp~
##
    8 audi
                    a4 quattro
                                   1.8
                                        1999
                                                  4 manu~ 4
                                                                     18
                                                                           26 p
                                                                                     comp~
##
    9 audi
                                   1.8
                                        1999
                                                  4 auto~ 4
                                                                     16
                                                                           25 p
                    a4 quattro
                                                                                     comp~
## 10 audi
                    a4 quattro
                                        2008
                                                  4 manu~ 4
                                                                     20
                                                                           28 p
                                                                                     comp~
## # i 224 more rows
```

Other useful import libraries

```
# readxl
read_excel(path = "./data/mpg.xlsx")
## # A tibble: 234 x 11
      manufacturer model
                                displ year
                                                cyl trans drv
                                                                   cty
                                                                          hwy fl
                                                                                     class
##
      <chr>
                    <chr>>
                                <dbl> <dbl> <dbl> <chr> <chr> <dbl> <dbl> <chr>
                                                                                     <chr>
##
    1 audi
                    a4
                                  1.8
                                        1999
                                                  4 auto~ f
                                                                    18
                                                                           29 p
                                                                                     comp~
##
    2 audi
                                  1.8
                                        1999
                                                  4 manu~ f
                                                                    21
                                                                           29 p
                    a4
                                                                                     comp~
    3 audi
                                  2
                                        2008
                                                                    20
##
                    a4
                                                  4 manu~ f
                                                                           31 p
                                                                                     comp~
##
    4 audi
                                  2
                                        2008
                                                  4 auto~ f
                                                                    21
                                                                           30 p
                    a4
                                                                                     comp~
                                        1999
                                                                           26 p
    5 audi
                                  2.8
                                                  6 auto~ f
                                                                    16
                    a4
                                                                                     comp~
##
    6 audi
                                  2.8
                                        1999
                    a4
                                                  6 manu~ f
                                                                    18
                                                                           26 p
                                                                                     comp~
##
    7
      audi
                                  3.1
                                        2008
                                                                    18
                    a4
                                                  6 auto~ f
                                                                           27 p
                                                                                     comp~
                                                                           26 p
##
    8 audi
                    a4 quattro
                                  1.8
                                        1999
                                                  4 manu~ 4
                                                                    18
                                                                                     comp~
##
    9 audi
                    a4 quattro
                                  1.8
                                        1999
                                                  4 auto~ 4
                                                                    16
                                                                           25 p
                                                                                     comp~
## 10 audi
                                        2008
                                                                    20
                    a4 quattro
                                  2
                                                  4 manu~ 4
                                                                           28 p
                                                                                     comp~
## # i 224 more rows
read_excel(path = "./data/mpg.xlsx", sheet = "Sheet 1") # specify sheet
## # A tibble: 234 x 11
##
      manufacturer model
                                displ year
                                                cyl trans drv
                                                                   cty
                                                                          hwy fl
                                                                                     class
##
      <chr>
                    <chr>
                                <dbl> <dbl> <dbl> <chr> <chr> <dbl> <dbl> <chr>
                                                                                     <chr>
##
    1 audi
                                  1.8
                                       1999
                    a4
                                                  4 auto~ f
                                                                    18
                                                                           29 p
                                                                                     comp~
                                                  4 manu~ f
                                                                           29 p
##
    2 audi
                                  1.8
                                       1999
                                                                                     comp~
                    a4
                                                                    21
                                        2008
##
    3 audi
                    a4
                                  2
                                                  4 manu~ f
                                                                    20
                                                                           31 p
                                                                                     comp~
##
    4 audi
                    a4
                                  2
                                        2008
                                                  4 auto~ f
                                                                    21
                                                                           30 p
                                                                                     comp~
##
    5 audi
                    a4
                                  2.8
                                       1999
                                                  6 auto~ f
                                                                    16
                                                                           26 p
                                                                                     comp~
##
    6 audi
                                  2.8
                                        1999
                    a4
                                                  6 manu~ f
                                                                    18
                                                                           26 p
                                                                                     comp~
##
    7 audi
                    a4
                                  3.1
                                        2008
                                                  6 auto~ f
                                                                    18
                                                                           27 p
                                                                                     comp~
##
                                        1999
    8 audi
                                  1.8
                                                  4 manu~ 4
                                                                    18
                                                                           26 p
                    a4 quattro
                                                                                     comp~
##
    9 audi
                    a4 quattro
                                  1.8
                                        1999
                                                  4 auto~ 4
                                                                    16
                                                                           25 p
                                                                                     comp~
## 10 audi
                    a4 quattro
                                  2
                                        2008
                                                  4 manu~ 4
                                                                    20
                                                                           28 p
                                                                                     comp~
## # i 224 more rows
```

read_excel(path = "./data/mpg.xlsx", range = "A1:C10") # specify range

```
## # A tibble: 9 x 3
     manufacturer model
                                displ
##
     <chr>>
                    <chr>>
                                <dbl>
## 1 audi
                                  1.8
                   а4
## 2 audi
                    a4
                                  1.8
## 3 audi
                                  2
                    a4
## 4 audi
                                  2
                   a4
## 5 audi
                                  2.8
                    a4
## 6 audi
                    a4
                                  2.8
## 7 audi
                    a4
                                  3.1
## 8 audi
                    a4 quattro
                                  1.8
## 9 audi
                    a4 quattro
                                  1.8
read_excel(path = "./data/mpg.xlsx") %>% class()
## [1] "tbl_df"
                      "tbl"
                                    "data.frame"
# rio
rio::import(file = "./data/mpg.xlsx")
##
       manufacturer
                                         model displ year cyl
                                                                      trans drv cty hwy
## 1
                audi
                                            a4
                                                  1.8 1999
                                                                   auto(15)
                                                                               f
                                                                                  18
                                                                                       29
##
  2
                audi
                                                  1.8 1999
                                                              4 manual(m5)
                                                                               f
                                                                                  21
                                                                                       29
                                            а4
## 3
                audi
                                                  2.0 2008
                                                              4 manual(m6)
                                                                               f
                                                                                  20
                                                                                       31
                                            а4
## 4
                                                  2.0 2008
                                                                                  21
                                                                                       30
                audi
                                            a4
                                                                   auto(av)
                                                                               f
## 5
                audi
                                            a4
                                                  2.8 1999
                                                                   auto(15)
                                                                               f
                                                                                  16
                                                                                       26
## 6
                                                  2.8 1999
                                                                               f
                                                                                  18
                                                                                       26
                audi
                                            a4
                                                              6 manual(m5)
## 7
                                                                                  18
                audi
                                            a4
                                                  3.1 2008
                                                                   auto(av)
                                                                               f
                                                                                       27
## 8
                                                  1.8 1999
                                                              4 manual(m5)
                                                                               4
                                                                                  18
                                                                                       26
                audi
                                   a4 quattro
## 9
                                                                                       25
                audi
                                   a4 quattro
                                                  1.8 1999
                                                                   auto(15)
                                                                               4
                                                                                  16
## 10
                audi
                                   a4 quattro
                                                  2.0 2008
                                                              4 manual(m6)
                                                                               4
                                                                                  20
                                                                                       28
## 11
                audi
                                   a4 quattro
                                                  2.0 2008
                                                                  auto(s6)
                                                                               4
                                                                                  19
                                                                                       27
## 12
                                                                                  15
                                                                                       25
                audi
                                   a4 quattro
                                                  2.8 1999
                                                                   auto(15)
                                                                               4
##
  13
                audi
                                   a4 quattro
                                                  2.8 1999
                                                              6 manual(m5)
                                                                               4
                                                                                  17
                                                                                       25
## 14
                                                                                  17
                audi
                                   a4 quattro
                                                  3.1 2008
                                                                   auto(s6)
                                                                               4
                                                                                       25
                                                              6 manual(m6)
## 15
                                                  3.1 2008
                                                                               4
                                                                                  15
                                                                                       25
                audi
                                   a4 quattro
## 16
                audi
                                   a6 quattro
                                                  2.8 1999
                                                                   auto(15)
                                                                               4
                                                                                  15
                                                                                       24
## 17
                                   a6 quattro
                                                                                       25
                audi
                                                  3.1 2008
                                                                   auto(s6)
                                                                               4
                                                                                  17
## 18
                audi
                                                  4.2 2008
                                                                   auto(s6)
                                                                                  16
                                                                                       23
                                   a6 quattro
                          c1500 suburban 2wd
## 19
           chevrolet
                                                  5.3 2008
                                                                  auto(14)
                                                                                  14
                                                                                      20
                                                              8
                                                                               r
## 20
           chevrolet
                          c1500 suburban 2wd
                                                  5.3 2008
                                                                   auto(14)
                                                                                  11
                                                                                       15
                                                                               r
## 21
                          c1500 suburban 2wd
           chevrolet
                                                  5.3 2008
                                                                   auto(14)
                                                                               r
                                                                                  14
                                                                                       20
## 22
           chevrolet
                          c1500 suburban 2wd
                                                  5.7 1999
                                                                   auto(14)
                                                                                  13
                                                                                       17
                                                                               r
                                                                                      17
## 23
                          c1500 suburban 2wd
                                                  6.0 2008
                                                                                  12
           chevrolet
                                                              8
                                                                   auto(14)
                                                                               r
## 24
                                                                                  16
                                                                                       26
           chevrolet
                                     corvette
                                                  5.7 1999
                                                              8 manual(m6)
                                                                               r
## 25
           chevrolet
                                                  5.7 1999
                                                                   auto(14)
                                                                                  15
                                                                                       23
                                      corvette
                                                                               r
## 26
           chevrolet
                                     corvette
                                                  6.2 2008
                                                              8 manual(m6)
                                                                               r
                                                                                  16
                                                                                       26
## 27
           chevrolet
                                                  6.2 2008
                                                                   auto(s6)
                                                                                  15
                                                                                       25
                                      corvette
                                                                               r
## 28
           chevrolet
                                      corvette
                                                  7.0 2008
                                                              8 manual(m6)
                                                                                  15
                                                                                       24
                                                                               r
## 29
                              k1500 tahoe 4wd
                                                  5.3 2008
                                                                                  14
                                                                                      19
           chevrolet
                                                                   auto(14)
                                                                               4
## 30
           chevrolet
                              k1500 tahoe 4wd
                                                  5.3 2008
                                                                   auto(14)
                                                                               4
                                                                                  11
                                                                                      14
## 31
           chevrolet
                              k1500 tahoe 4wd
                                                  5.7 1999
                                                              8
                                                                   auto(14)
                                                                               4
                                                                                  11
                                                                                       15
## 32
           chevrolet
                              k1500 tahoe 4wd
                                                  6.5 1999
                                                              8
                                                                   auto(14)
                                                                               4
                                                                                  14
                                                                                       17
## 33
           chevrolet
                                        malibu
                                                  2.4 1999
                                                                   auto(14)
                                                                               f
                                                                                  19
                                                                                       27
                                                  2.4 2008
                                                                                  22
## 34
           chevrolet
                                       malibu
                                                                   auto(14)
                                                                                      30
                                                                               f
```

```
## 35
           chevrolet
                                         malibu
                                                   3.1 1999
                                                                    auto(14)
                                                                                 f
                                                                                    18
                                                                                         26
##
   36
                                                   3.5 2008
                                                                                 f
                                                                                    18
                                                                                         29
           chevrolet
                                        malibu
                                                                6
                                                                    auto(14)
                                                                    auto(s6)
##
   37
           chevrolet
                                        malibu
                                                   3.6 2008
                                                                                 f
                                                                                    17
                                                                                         26
##
  38
                                   caravan 2wd
                                                   2.4 1999
                                                                                 f
                                                                                    18
                                                                                         24
                dodge
                                                                    auto(13)
##
   39
                dodge
                                   caravan 2wd
                                                   3.0 1999
                                                                6
                                                                    auto(14)
                                                                                 f
                                                                                    17
                                                                                         24
##
   40
                                                   3.3 1999
                                                                                 f
                                                                                    16
                                                                                         22
                dodge
                                   caravan 2wd
                                                                6
                                                                    auto(14)
##
   41
                                                   3.3 1999
                                                                                 f
                dodge
                                   caravan 2wd
                                                                    auto(14)
                                                                                    16
## 42
                dodge
                                   caravan 2wd
                                                   3.3 2008
                                                                6
                                                                    auto(14)
                                                                                 f
                                                                                    17
                                                                                         24
##
   43
                dodge
                                   caravan 2wd
                                                   3.3 2008
                                                                6
                                                                    auto(14)
                                                                                 f
                                                                                    17
                                                                                         24
##
   44
                dodge
                                   caravan 2wd
                                                   3.3 2008
                                                                    auto(14)
                                                                                 f
                                                                                    11
                                                                                         17
   45
                                   caravan 2wd
                                                   3.8 1999
                                                                    auto(14)
                                                                                 f
                                                                                    15
                                                                                         22
                dodge
##
   46
                                                   3.8 1999
                                                                                 f
                                                                                    15
                                                                                         21
                dodge
                                   caravan 2wd
                                                                6
                                                                    auto(14)
##
   47
                                                   3.8 2008
                                                                6
                                                                    auto(16)
                                                                                f
                                                                                    16
                                                                                         23
                dodge
                                   caravan 2wd
##
   48
                dodge
                                   caravan 2wd
                                                   4.0 2008
                                                                    auto(16)
                                                                                 f
                                                                                    16
                                                                                         23
##
   49
                                                                                 4
                                                                                    15
                dodge
                            dakota pickup 4wd
                                                   3.7 2008
                                                                6 manual(m6)
                                                                                         19
##
  50
                            dakota pickup 4wd
                                                   3.7
                                                       2008
                                                                    auto(14)
                                                                                 4
                                                                                    14
                                                                                         18
                dodge
##
   51
                                                                                 4
                            dakota pickup 4wd
                                                   3.9 1999
                                                                6
                                                                    auto(14)
                                                                                    13
                                                                                         17
                dodge
##
   52
                            dakota pickup 4wd
                                                   3.9 1999
                                                                6 manual(m5)
                                                                                    14
                                                                                         17
                dodge
##
   53
                                                   4.7 2008
                                                                                    14
                                                                                         19
                            dakota pickup 4wd
                                                                    auto(15)
                                                                                 4
                dodge
##
   54
                dodge
                            dakota pickup 4wd
                                                   4.7
                                                       2008
                                                                    auto(15)
                                                                                 4
                                                                                    14
                                                                                         19
##
   55
                dodge
                            dakota pickup 4wd
                                                   4.7 2008
                                                                8
                                                                    auto(15)
                                                                                 4
                                                                                     9
                                                                                         12
##
   56
                            dakota pickup 4wd
                                                   5.2 1999
                                                                8 manual(m5)
                                                                                 4
                                                                                    11
                                                                                         17
                dodge
## 57
                                                   5.2 1999
                            dakota pickup 4wd
                                                                8
                                                                    auto(14)
                                                                                 4
                                                                                    11
                                                                                         15
                dodge
                                                   3.9 1999
                                                                                 4
                                                                                    13
##
   58
                dodge
                                   durango 4wd
                                                                6
                                                                    auto(14)
                                                                                         17
                                                                                 4
##
   59
                dodge
                                   durango 4wd
                                                   4.7 2008
                                                                8
                                                                    auto(15)
                                                                                    13
                                                                                         17
   60
                dodge
                                   durango 4wd
                                                   4.7 2008
                                                                8
                                                                    auto(15)
                                                                                 4
                                                                                     9
                                                                                         12
##
   61
                                                   4.7 2008
                                                                                 4
                                                                                    13
                                                                                         17
                dodge
                                   durango 4wd
                                                                8
                                                                    auto(15)
                dodge
##
   62
                                   durango 4wd
                                                   5.2
                                                       1999
                                                                8
                                                                    auto(14)
                                                                                 4
                                                                                    11
                                                                                         16
##
   63
                                                   5.7 2008
                                                                                 4
                                                                                    13
                dodge
                                   durango 4wd
                                                                    auto(15)
                                                                                         18
##
   64
                                                   5.9 1999
                                                                8
                                                                    auto(14)
                                                                                 4
                                                                                    11
                                                                                         15
                dodge
                                   durango 4wd
##
   65
                dodge
                          ram 1500 pickup 4wd
                                                   4.7
                                                       2008
                                                                8 manual(m6)
                                                                                 4
                                                                                    12
                                                                                         16
##
   66
                dodge
                          ram 1500 pickup 4wd
                                                   4.7 2008
                                                                8
                                                                    auto(15)
                                                                                 4
                                                                                     9
                                                                                         12
##
   67
                          ram 1500 pickup 4wd
                                                   4.7 2008
                                                                    auto(15)
                                                                                 4
                                                                                    13
                                                                                         17
                dodge
##
   68
                                                   4.7 2008
                                                                                         17
                          ram 1500 pickup 4wd
                                                                    auto(15)
                                                                                 4
                                                                                    13
                dodge
##
   69
                          ram 1500 pickup 4wd
                                                   4.7
                                                       2008
                                                                 manual(m6)
                                                                                 4
                                                                                    12
                                                                                         16
                dodge
##
   70
                                                                                 4
                                                                                     9
                                                                                         12
                dodge
                          ram 1500 pickup 4wd
                                                   4.7 2008
                                                                8 manual(m6)
##
   71
                dodge
                          ram 1500 pickup 4wd
                                                   5.2 1999
                                                                    auto(14)
                                                                                 4
                                                                                    11
                                                                                         15
##
  72
                          ram 1500 pickup 4wd
                                                   5.2 1999
                                                                8 manual(m5)
                                                                                 4
                                                                                    11
                                                                                         16
                dodge
##
   73
                          ram 1500 pickup 4wd
                                                   5.7 2008
                                                                                 4
                                                                                    13
                                                                                         17
                dodge
                                                                    auto(15)
##
   74
                                                   5.9 1999
                                                                                 4
                                                                                    11
                                                                                         15
                dodge
                          ram 1500 pickup 4wd
                                                                8
                                                                    auto(14)
                                expedition 2wd
                                                                                         17
   75
                 ford
                                                   4.6 1999
                                                                    auto(14)
                                                                                r
                                                                                    11
##
   76
                                expedition 2wd
                                                   5.4 1999
                                                                                    11
                                                                                         17
                 ford
                                                                8
                                                                    auto(14)
                                                                                r
##
   77
                 ford
                                expedition 2wd
                                                   5.4 2008
                                                                8
                                                                    auto(16)
                                                                                r
                                                                                    12
                                                                                         18
##
   78
                 ford
                                                   4.0 1999
                                                                6
                                                                    auto(15)
                                                                                 4
                                                                                    14
                                  explorer 4wd
                                                                                         17
   79
##
                 ford
                                  explorer 4wd
                                                   4.0 1999
                                                                6 manual(m5)
                                                                                 4
                                                                                    15
                                                                                         19
## 80
                                                   4.0 1999
                                                                                 4
                                                                                    14
                                                                                         17
                 ford
                                  explorer 4wd
                                                                6
                                                                    auto(15)
##
   81
                 ford
                                  explorer 4wd
                                                   4.0 2008
                                                                6
                                                                    auto(15)
                                                                                 4
                                                                                    13
                                                                                         19
##
   82
                                                                                         19
                 ford
                                  explorer 4wd
                                                   4.6 2008
                                                                    auto(16)
                                                                                 4
                                                                                    13
##
   83
                 ford
                                  explorer 4wd
                                                   5.0 1999
                                                                    auto(14)
                                                                                 4
                                                                                    13
                                                                                         17
##
   84
                 ford
                              f150 pickup 4wd
                                                   4.2 1999
                                                                    auto(14)
                                                                                 4
                                                                                    14
                                                                                         17
##
   85
                                                                                 4
                                                                                    14
                                                                                         17
                              f150 pickup 4wd
                                                   4.2 1999
                                                                6 manual(m5)
                 ford
                                                                                 4
##
   86
                 ford
                              f150 pickup 4wd
                                                   4.6 1999
                                                                8 manual(m5)
                                                                                    13
                                                                                         16
                                                                                    13
##
  87
                 ford
                              f150 pickup 4wd
                                                   4.6 1999
                                                                8
                                                                    auto(14)
                                                                                 4
                                                                                        16
## 88
                 ford
                              f150 pickup 4wd
                                                   4.6 2008
                                                                    auto(14)
                                                                                 4
                                                                                    13
                                                                                        17
```

```
## 89
                 ford
                              f150 pickup 4wd
                                                   5.4 1999
                                                                    auto(14)
                                                                                 4
                                                                                    11
                                                                                         15
##
   90
                                                   5.4 2008
                                                                                 4
                                                                                    13
                                                                                         17
                 ford
                              f150 pickup 4wd
                                                                8
                                                                    auto(14)
##
   91
                 ford
                                        mustang
                                                   3.8 1999
                                                                6 manual(m5)
                                                                                 r
                                                                                    18
                                                                                         26
                                                                                    18
##
   92
                 ford
                                                   3.8 1999
                                                                    auto(14)
                                                                                         25
                                        mustang
                                                                                 r
##
   93
                 ford
                                        mustang
                                                   4.0 2008
                                                                6
                                                                 manual(m5)
                                                                                 r
                                                                                    17
                                                                                         26
##
   94
                                                   4.0 2008
                                                                                    16
                 ford
                                        mustang
                                                                    auto(15)
                                                                                         24
                                                                                 r
##
   95
                 ford
                                        mustang
                                                   4.6 1999
                                                                    auto(14)
                                                                                 r
                                                                                    15
                                                                                         21
  96
##
                 ford
                                        mustang
                                                   4.6 1999
                                                                8 manual(m5)
                                                                                 r
                                                                                    15
                                                                                         22
##
   97
                 ford
                                        mustang
                                                   4.6 2008
                                                                8 manual(m5)
                                                                                 r
                                                                                    15
                                                                                         23
##
   98
                                                                                         22
                 ford
                                        mustang
                                                   4.6 2008
                                                                    auto(15)
                                                                                 r
                                                                                    15
   99
                 ford
                                        mustang
                                                   5.4 2008
                                                                8 manual(m6)
                                                                                    14
                                                                                         20
                                                                                 r
   100
##
                                                   1.6 1999
                                                                                 f
                                                                                    28
                                                                                         33
                honda
                                          civic
                                                                 manual(m5)
##
   101
                honda
                                                   1.6 1999
                                                                    auto(14)
                                                                                 f
                                                                                    24
                                                                                         32
                                          civic
##
   102
                honda
                                          civic
                                                   1.6 1999
                                                                4 manual(m5)
                                                                                 f
                                                                                    25
                                                                                         32
##
  103
                                                   1.6 1999
                                                                                 f
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                honda
                                          civic
                                                                 manual(m5)
##
   104
                honda
                                                   1.6
                                                       1999
                                                                    auto(14)
                                                                                 f
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                                          civic
  105
                                                                                 f
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##
                honda
                                                   1.8 2008
                                                                  manual(m5)
                                                                                    26
                                          civic
##
   106
                honda
                                                   1.8 2008
                                                                    auto(15)
                                                                                 f
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                                          civic
##
  107
                                          civic
                                                   1.8 2008
                                                                                         36
               honda
                                                                    auto(15)
                                                                                 f
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##
   108
                honda
                                          civic
                                                   2.0 2008
                                                                4 manual(m6)
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##
  109
             hyundai
                                         sonata
                                                   2.4 1999
                                                                    auto(14)
                                                                                 f
                                                                                    18
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## 110
             hyundai
                                                   2.4 1999
                                                                4 manual(m5)
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                                         sonata
## 111
             hyundai
                                                   2.4 2008
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                                         sonata
                                                                    auto(14)
## 112
                                                   2.4 2008
                                                                4 manual(m5)
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             hyundai
                                         sonata
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## 113
                                                   2.5 1999
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             hyundai
                                         sonata
                                                                    auto(14)
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  114
             hyundai
                                         sonata
                                                   2.5 1999
                                                                6 manual(m5)
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##
  115
             hyundai
                                                   3.3 2008
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                                                                                         28
                                         sonata
                                                                    auto(15)
##
   116
             hyundai
                                        tiburon
                                                   2.0 1999
                                                                    auto(14)
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## 117
                                                   2.0 1999
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             hyundai
                                        tiburon
                                                                4 manual(m5)
## 118
             hyundai
                                                   2.0 2008
                                                                4 manual(m5)
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                                                                                    20
                                                                                         28
                                        tiburon
## 119
             hyundai
                                        tiburon
                                                   2.0
                                                       2008
                                                                    auto(14)
                                                                                 f
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##
  120
             hyundai
                                        tiburon
                                                   2.7 2008
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                                                                    auto(14)
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##
   121
             hyundai
                                        tiburon
                                                   2.7 2008
                                                                6 manual(m6)
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  122
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##
             hyundai
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                                        tiburon
                                                                    auto(15)
##
   123
                           grand cherokee 4wd
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                 jeep
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  124
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                           grand cherokee 4wd
                                                   3.7 2008
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                                                                    auto(15)
                 jeep
## 125
                 jeep
                           grand cherokee 4wd
                                                   4.0 1999
                                                                    auto(14)
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## 126
                           grand cherokee 4wd
                                                   4.7 1999
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                                                                    auto(14)
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                 jeep
## 127
                           grand cherokee 4wd
                                                   4.7
                                                       2008
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                                                                    auto(15)
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                 jeep
## 128
                                                   4.7 2008
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                           grand cherokee 4wd
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                                                                    auto(15)
                 jeep
   129
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                 jeep
                           grand cherokee 4wd
                                                   5.7 2008
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                                                                    auto(15)
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##
  130
                           grand cherokee 4wd
                                                   6.1 2008
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                 jeep
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                                                                    auto(15)
##
   131
          land rover
                                   range rover
                                                   4.0 1999
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                                                                    auto(14)
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##
   132
          land rover
                                                   4.2 2008
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                                                                    auto(s6)
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                                   range rover
  133
          land rover
                                                   4.4 2008
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                                                                    auto(s6)
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                                   range rover
## 134
                                                   4.6 1999
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          land rover
                                   range rover
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                                                                    auto(14)
##
   135
             lincoln
                                 navigator 2wd
                                                   5.4 1999
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                                                                    auto(14)
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   136
                                                   5.4 1999
##
             lincoln
                                 navigator 2wd
                                                                    auto(14)
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##
   137
             lincoln
                                 navigator 2wd
                                                   5.4 2008
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                                                                    auto(16)
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##
   138
             mercury
                              mountaineer 4wd
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  139
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                              mountaineer 4wd
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             mercury
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## 140
             mercury
                              mountaineer 4wd
                                                   4.6 2008
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## 141
             mercury
                              mountaineer 4wd
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## 142
              nissan
                                         altima
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## 143
                                         altima
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              nissan
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  144
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##
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                                         altima
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   146
                                         altima
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              nissan
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   148
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## 150
              nissan
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   151
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                                pathfinder 4wd
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   152
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                                pathfinder 4wd
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   153
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                                pathfinder 4wd
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              nissan
                                pathfinder 4wd
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   155
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             pontiac
                                    grand prix
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   156
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                                    grand prix
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             pontiac
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   158
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             pontiac
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             pontiac
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   163
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               subaru
                                  forester awd
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   164
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   166
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                                   impreza awd
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##
   174
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                                   4runner 4wd
                                                   2.7 1999
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   175
                                   4runner 4wd
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                                   4runner 4wd
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               toyota
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   177
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               toyota
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   181
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                                          camry
                                  camry solara
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##
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##
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                                  camry solara
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               toyota
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                                                                    auto(s5)
               toyota
                                  camry solara
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## 194
               toyota
                                        corolla
                                                   1.8 1999
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## 195
               toyota
                                        corolla
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## 196
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                                        corolla
                                                   1.8 1999
                                                                4 manual(m5)
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## 198
                                                  1.8 2008
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              toyota
                                       corolla
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                                                                   auto(14)
              toyota land cruiser wagon 4wd
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## 199
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## 200
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              toyota land cruiser wagon 4wd
                                                  5.7 2008
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## 202
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              toyota
                            toyota tacoma 4wd
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              toyota
                            toyota tacoma 4wd
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## 204
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## 205
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                            toyota tacoma 4wd
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## 206
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              toyota
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## 207
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              toyota
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## 209
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          volkswagen
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## 210
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## 213
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          volkswagen
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## 215
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          volkswagen
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## 217
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## 222
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## 223
                                    new beetle
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                                    new beetle
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## 226
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## 227
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## 228
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## 229
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          volkswagen
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              compact
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corolla

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tovota

##	16	р	midsize
##	17	p	midsize
##	18	р	midsize
##	19	r	suv
##	20	е	suv
##	21	r	suv
##	22	r	suv
##	23	r	suv
##	24	р	2seater
##	25	р	2seater
##	26	p	2seater
##	27	p	2seater
##	28	p	2seater
##	29	r	suv
##	30	е	suv
##	31	r	suv
##	32	d	suv
##	33	r	midsize
##	34	r	midsize
##	35	r	midsize
##	36	r	midsize
##	37	r	midsize
##	38	r	minivan
##	39	r	minivan
##	40	r	minivan
##	41	r	minivan
##	42	r	minivan
##	43	r	minivan
##	44	е	minivan
##	45	r	minivan
##	46	r	minivan
##	47	r	minivan
##	48	r	minivan
##	49	r	pickup
##	50	r	pickup
##	51	r	pickup
##	52	r	pickup
##	53	r	pickup
##	54	r	pickup
##	55	е	pickup
##	56	r	pickup
##	57	r	pickup
##	58	r	suv
##	59	r	suv
##	60	е	suv
##	61	r	suv
##	62	r	suv
##	63	r	suv
##	64	r	suv
##	65	r	pickup
##	66	е	pickup
##	67	r	pickup
##	68	r	pickup
##	69	r	pickup

```
## 70
        е
               pickup
## 71
        r
              pickup
## 72
        r
              pickup
## 73
              pickup
        r
##
   74
        r
               pickup
##
  75
        r
                  suv
##
  76
                  suv
        r
## 77
        r
                  suv
##
   78
        r
                  suv
##
  79
        r
                  suv
##
   80
        r
                  suv
##
  81
        r
                  suv
##
   82
        r
                  suv
##
  83
        r
                  suv
## 84
               pickup
        r
## 85
        r
               pickup
##
   86
        r
               pickup
##
   87
        r
               pickup
##
  88
              pickup
        r
## 89
        r
               pickup
##
  90
        r
               pickup
## 91
        r subcompact
## 92
        r subcompact
##
  93
        r subcompact
## 94
        r subcompact
## 95
        r subcompact
## 96
        r subcompact
##
   97
        r subcompact
## 98
        r subcompact
## 99
        p subcompact
## 100
        r subcompact
   101
##
        r subcompact
##
   102
        r subcompact
## 103
        p subcompact
   104
        r subcompact
## 105
        r subcompact
## 106
        r subcompact
## 107
        c subcompact
## 108
        p subcompact
## 109
             midsize
        r
## 110
        r
             midsize
## 111
        r
             midsize
## 112
        r
             midsize
## 113
        r
             midsize
## 114
        r
             midsize
## 115
        r
             midsize
## 116
        r subcompact
## 117
        r subcompact
## 118
        r subcompact
## 119
        r subcompact
## 120
        r subcompact
## 121
        r subcompact
## 122
       r subcompact
## 123
        d
                  suv
```

```
## 124
        r
                  suv
## 125
        r
                  suv
## 126
        r
                  suv
## 127
                  suv
        е
## 128
        r
                  suv
## 129
        r
                  suv
## 130
                  suv
        p
## 131
        p
                  suv
## 132
        r
                  suv
## 133
        r
                  suv
## 134
        p
                  suv
## 135
        r
                  suv
##
  136
        p
                  suv
## 137
        r
                  suv
## 138
        r
                  suv
## 139
        r
                  suv
## 140
        r
                  suv
## 141
        r
                  suv
## 142
        r
              compact
## 143
              compact
        r
## 144
        r
              midsize
## 145
        r
              midsize
## 146
              midsize
        p
## 147
        p
              midsize
## 148
              midsize
        r
## 149
        r
              midsize
## 150
        p
              midsize
##
  151
        r
                  suv
## 152
        r
                  suv
## 153
        p
                  suv
## 154
        p
                  suv
## 155
        r
              midsize
##
  156
              midsize
        p
## 157
              midsize
        r
   158
##
        r
              midsize
## 159
              midsize
        p
## 160
        r
                  suv
## 161
        r
                  suv
## 162
        r
                  suv
## 163
        p
                  suv
  164
        r
                  suv
##
  165
        p
                  suv
##
   166
        r subcompact
##
        r subcompact
   167
## 168
        r subcompact
## 169
        r subcompact
## 170
        p
              compact
## 171
              compact
        r
## 172
        p
              compact
## 173
        r
              compact
## 174
                  suv
        r
## 175
        r
                  suv
## 176
        r
                  suv
## 177
                  suv
```

```
## 178
        r
                  suv
## 179
                  suv
        r
## 180
             midsize
        r
## 181
             midsize
        r
## 182
        r
             midsize
## 183
        r
             midsize
## 184
        r
             midsize
## 185
             midsize
        r
## 186
        r
             midsize
## 187
              compact
        r
## 188
        r
              compact
## 189
        r
              compact
## 190
        r
              compact
## 191
        r
              compact
## 192
        r
              compact
## 193
        r
              compact
## 194
        r
              compact
## 195
        r
              compact
## 196
              compact
        r
## 197
        r
              compact
## 198
        r
              compact
## 199
        r
                  suv
## 200
        r
                  suv
## 201
        r
               pickup
## 202
        r
               pickup
              pickup
## 203
        r
## 204
        r
               pickup
## 205
        r
               pickup
## 206
        r
               pickup
## 207
        r
              pickup
## 208
        r
              compact
## 209
        r
              compact
## 210
        p
              compact
## 211
        р
              compact
## 212
        r
              compact
## 213
        d
              compact
## 214
        r
              compact
## 215
        r
              compact
## 216
        р
              compact
## 217
              compact
## 218
              compact
        r
## 219
        r
              compact
## 220
        r
              compact
## 221
              compact
        r
## 222
        d subcompact
## 223
        d subcompact
## 224
        r subcompact
## 225
        r subcompact
## 226
        r subcompact
## 227
        r subcompact
## 228
             midsize
        р
## 229
             midsize
        p
## 230
        p
             midsize
## 231
             midsize
        р
```

```
## 232
              midsize
        р
## 233
              midsize
        р
## 234
              midsize
rio::import(file = "./data/mpg.xlsx") %>% class()
## [1] "data.frame"
rio::import(file = "./data/mpg.xlsx", sheet = "Sheet 1") # specify sheet
##
       manufacturer
                                         model displ year cyl
                                                                      trans drv cty hwy
## 1
                                                  1.8 1999
                                                                                   18
                audi
                                             a4
                                                                   auto(15)
                                                                                       29
## 2
                                                  1.8 1999
                                                              4 manual(m5)
                                                                                   21
                audi
                                             a4
                                                                               f
                                                                                       29
## 3
                audi
                                             a4
                                                  2.0 2008
                                                              4 manual(m6)
                                                                               f
                                                                                   20
                                                                                       31
## 4
                                                  2.0 2008
                                                                                       30
                audi
                                             a4
                                                                   auto(av)
                                                                               f
                                                                                   21
## 5
                audi
                                                  2.8 1999
                                                                   auto(15)
                                                                               f
                                                                                   16
                                                                                       26
                                             а4
                                                                                   18
## 6
                                                  2.8 1999
                                                                                       26
                audi
                                             a4
                                                               6 manual(m5)
                                                                               f
##
  7
                audi
                                             a4
                                                  3.1 2008
                                                                   auto(av)
                                                                               f
                                                                                   18
                                                                                       27
## 8
                audi
                                    a4 quattro
                                                  1.8 1999
                                                               4 manual(m5)
                                                                               4
                                                                                   18
                                                                                       26
## 9
                                    a4 quattro
                                                  1.8 1999
                                                                   auto(15)
                                                                               4
                                                                                   16
                                                                                       25
                audi
## 10
                                                  2.0 2008
                                                                                   20
                                                                                       28
                audi
                                    a4 quattro
                                                               4 manual(m6)
                                                                               4
## 11
                                                  2.0 2008
                                                                               4
                                                                                   19
                                                                                       27
                audi
                                    a4 quattro
                                                                   auto(s6)
                                                                                       25
## 12
                                    a4 quattro
                                                  2.8 1999
                                                                   auto(15)
                                                                                   15
                audi
## 13
                                                                                   17
                                                                                       25
                audi
                                   a4 quattro
                                                  2.8 1999
                                                               6 manual(m5)
                                                                               4
## 14
                                   a4 quattro
                                                  3.1 2008
                                                                   auto(s6)
                                                                               4
                                                                                   17
                                                                                       25
                audi
## 15
                                                  3.1 2008
                                                                               4
                                                                                   15
                                                                                       25
                audi
                                   a4 quattro
                                                               6 manual(m6)
## 16
                audi
                                   a6 quattro
                                                  2.8 1999
                                                                   auto(15)
                                                                               4
                                                                                   15
                                                                                       24
## 17
                                   a6 quattro
                                                  3.1 2008
                                                                               4
                                                                                   17
                                                                                       25
                audi
                                                              6
                                                                   auto(s6)
## 18
                                   a6 quattro
                                                  4.2 2008
                                                                               4
                                                                                   16
                                                                                       23
                audi
                                                              8
                                                                   auto(s6)
                                                                                   14
## 19
           chevrolet
                           c1500 suburban 2wd
                                                  5.3 2008
                                                              8
                                                                   auto(14)
                                                                                       20
                                                                               r
## 20
                           c1500 suburban 2wd
                                                  5.3 2008
           chevrolet
                                                                   auto(14)
                                                                               r
                                                                                   11
                           c1500 suburban 2wd
## 21
           chevrolet
                                                  5.3 2008
                                                                   auto(14)
                                                                                   14
                                                                                       20
                                                                               r
## 22
           chevrolet
                           c1500 suburban 2wd
                                                  5.7 1999
                                                              8
                                                                   auto(14)
                                                                               r
                                                                                   13
                                                                                       17
## 23
                           c1500 suburban 2wd
                                                  6.0 2008
                                                                                   12
                                                                                       17
           chevrolet
                                                                   auto(14)
                                                                               r
## 24
           chevrolet
                                      corvette
                                                  5.7 1999
                                                               8 manual(m6)
                                                                               r
                                                                                   16
                                                                                       26
## 25
                                                  5.7 1999
                                                                                   15
                                                                                       23
           chevrolet
                                      corvette
                                                                   auto(14)
                                                                               r
## 26
           chevrolet
                                                  6.2 2008
                                                               8 manual(m6)
                                                                                   16
                                                                                       26
                                      corvette
                                                                               r
## 27
                                                                                       25
           chevrolet
                                      corvette
                                                  6.2 2008
                                                                   auto(s6)
                                                                                   15
## 28
           chevrolet
                                      corvette
                                                  7.0 2008
                                                               8 manual(m6)
                                                                                   15
                                                                                       24
                                                                               r
## 29
           chevrolet
                              k1500 tahoe 4wd
                                                  5.3 2008
                                                                   auto(14)
                                                                               4
                                                                                   14
                                                                                       19
##
  30
           chevrolet
                              k1500 tahoe 4wd
                                                  5.3 2008
                                                                   auto(14)
                                                                               4
                                                                                   11
                                                                                       14
## 31
           chevrolet
                              k1500 tahoe 4wd
                                                  5.7 1999
                                                                   auto(14)
                                                                                   11
                                                                                       15
## 32
           chevrolet
                              k1500 tahoe 4wd
                                                  6.5 1999
                                                                   auto(14)
                                                                               4
                                                                                   14
                                                                                       17
                                                              8
## 33
           chevrolet
                                        malibu
                                                  2.4 1999
                                                                   auto(14)
                                                                               f
                                                                                   19
                                                                                       27
## 34
           chevrolet
                                        malibu
                                                  2.4 2008
                                                                   auto(14)
                                                                               f
                                                                                   22
                                                                                       30
## 35
           chevrolet
                                        malibu
                                                  3.1 1999
                                                                   auto(14)
                                                                               f
                                                                                   18
                                                                                       26
## 36
                                                  3.5 2008
                                                                                   18
                                                                                       29
           chevrolet
                                        malibu
                                                                   auto(14)
                                                                               f
                                                              6
## 37
                                                  3.6 2008
                                                                               f
                                                                                   17
                                                                                       26
           chevrolet
                                        malibu
                                                              6
                                                                   auto(s6)
                                                  2.4 1999
## 38
                                   caravan 2wd
                                                                   auto(13)
                                                                               f
                                                                                   18
                                                                                       24
               dodge
## 39
                                                  3.0 1999
               dodge
                                   caravan 2wd
                                                                   auto(14)
                                                                               f
                                                                                   17
                                                                                       24
## 40
               dodge
                                   caravan 2wd
                                                  3.3 1999
                                                              6
                                                                   auto(14)
                                                                               f
                                                                                   16
                                                                                       22
## 41
                                                  3.3 1999
                                                              6
                                                                   auto(14)
                                                                               f
                                                                                   16
                                                                                       22
               dodge
                                   caravan 2wd
## 42
                                                  3.3 2008
                                                                               f
                                                                                   17
                                                                                       24
               dodge
                                   caravan 2wd
                                                                   auto(14)
## 43
                                  caravan 2wd
                                                  3.3 2008
                                                                   auto(14)
                                                                               f
                                                                                   17
                                                                                       24
               dodge
                                                  3.3 2008
## 44
               dodge
                                   caravan 2wd
                                                                   auto(14)
                                                                               f
                                                                                   11
                                                                                       17
```

```
## 45
                dodge
                                                   3.8 1999
                                                                    auto(14)
                                                                                f
                                                                                    15
                                                                                        22
                                   caravan 2wd
##
                                                   3.8 1999
                                                                                f
                                                                                    15
                                                                                        21
   46
                                                               6
                                                                    auto(14)
                dodge
                                   caravan 2wd
##
   47
                dodge
                                   caravan 2wd
                                                   3.8 2008
                                                                    auto(16)
                                                                                f
                                                                                    16
                                                                                        23
##
   48
                                                   4.0 2008
                                                                                    16
                                                                                        23
                dodge
                                   caravan 2wd
                                                                6
                                                                    auto(16)
                                                                                f
                            dakota pickup 4wd
##
   49
                dodge
                                                   3.7 2008
                                                               6 manual(m6)
                                                                                4
                                                                                    15
                                                                                        19
   50
                                                                                4
                                                                                    14
##
                            dakota pickup 4wd
                                                   3.7 2008
                                                                    auto(14)
                                                                                        18
                dodge
##
   51
                dodge
                            dakota pickup 4wd
                                                   3.9 1999
                                                                6
                                                                    auto(14)
                                                                                4
                                                                                    13
                                                                                        17
## 52
                dodge
                            dakota pickup 4wd
                                                   3.9 1999
                                                                6 manual(m5)
                                                                                4
                                                                                    14
                                                                                        17
##
   53
                dodge
                            dakota pickup 4wd
                                                   4.7
                                                       2008
                                                               8
                                                                    auto(15)
                                                                                4
                                                                                    14
                                                                                        19
##
   54
                dodge
                            dakota pickup 4wd
                                                   4.7 2008
                                                                    auto(15)
                                                                                 4
                                                                                    14
                                                                                        19
##
   55
                            dakota pickup 4wd
                                                   4.7 2008
                                                                    auto(15)
                                                                                4
                                                                                     9
                                                                                        12
                dodge
##
   56
                                                   5.2 1999
                                                                                        17
                dodge
                            dakota pickup 4wd
                                                                8 manual(m5)
                                                                                4
                                                                                    11
                                                                    auto(14)
##
   57
                                                   5.2
                                                       1999
                                                                                4
                                                                                    11
                                                                                        15
                dodge
                            dakota pickup 4wd
                                                                8
  58
##
                dodge
                                   durango 4wd
                                                   3.9 1999
                                                                    auto(14)
                                                                                4
                                                                                    13
                                                                                        17
##
   59
                                                                                4
                                                                                    13
                                                                                        17
                dodge
                                   durango 4wd
                                                   4.7 2008
                                                               8
                                                                    auto(15)
##
   60
                                   durango 4wd
                                                   4.7
                                                       2008
                                                               8
                                                                    auto(15)
                                                                                4
                                                                                     9
                                                                                        12
                dodge
                                                                                4
                                                                                    13
                                                                                        17
##
   61
                                                   4.7 2008
                                                               8
                dodge
                                   durango 4wd
                                                                    auto(15)
##
   62
                                   durango 4wd
                                                   5.2 1999
                                                                                    11
                                                                                         16
                dodge
                                                                    auto(14)
##
   63
                                                   5.7 2008
                                   durango 4wd
                                                                    auto(15)
                                                                                4
                                                                                    13
                                                                                        18
                dodge
                                                               8
##
   64
                dodge
                                   durango 4wd
                                                   5.9
                                                       1999
                                                                    auto(14)
                                                                                4
                                                                                    11
                                                                                        15
##
   65
                dodge
                          ram 1500 pickup 4wd
                                                   4.7 2008
                                                               8 manual(m6)
                                                                                4
                                                                                    12
                                                                                        16
##
   66
                          ram 1500 pickup 4wd
                                                   4.7 2008
                                                                                4
                                                                                     9
                                                                                        12
                dodge
                                                                    auto(15)
                                                                                        17
  67
                          ram 1500 pickup 4wd
                                                   4.7 2008
                                                                                    13
##
                                                               8
                                                                    auto(15)
                                                                                4
                dodge
                                                   4.7 2008
                                                                                    13
##
   68
                dodge
                          ram 1500 pickup 4wd
                                                               8
                                                                    auto(15)
                                                                                4
                                                                                        17
##
   69
                dodge
                          ram 1500 pickup 4wd
                                                   4.7 2008
                                                                8 manual(m6)
                                                                                4
                                                                                    12
                                                                                        16
   70
                dodge
                          ram 1500 pickup 4wd
                                                   4.7 2008
                                                                8 manual(m6)
                                                                                4
                                                                                     9
                                                                                        12
##
   71
                                                   5.2
                                                       1999
                                                                                4
                                                                                    11
                                                                                        15
                dodge
                          ram 1500 pickup 4wd
                                                                    auto(14)
##
   72
                dodge
                          ram 1500 pickup 4wd
                                                   5.2
                                                       1999
                                                               8 manual(m5)
                                                                                4
                                                                                    11
                                                                                        16
##
   73
                                                   5.7 2008
                                                                                4
                                                                                    13
                dodge
                          ram 1500 pickup 4wd
                                                                    auto(15)
                                                                                        17
##
   74
                          ram 1500 pickup 4wd
                                                   5.9 1999
                                                               8
                                                                    auto(14)
                                                                                4
                                                                                    11
                                                                                        15
                dodge
##
  75
                 ford
                                expedition 2wd
                                                   4.6
                                                       1999
                                                               8
                                                                    auto(14)
                                                                                r
                                                                                    11
                                                                                        17
##
   76
                 ford
                                expedition 2wd
                                                   5.4 1999
                                                               8
                                                                    auto(14)
                                                                                    11
                                                                                        17
                                                                                r
##
   77
                 ford
                                expedition 2wd
                                                   5.4 2008
                                                                    auto(16)
                                                                                    12
                                                                                        18
                                                                                r
##
   78
                                                                                        17
                                  explorer 4wd
                                                   4.0 1999
                                                                    auto(15)
                                                                                4
                                                                                    14
                 ford
                                                                6
##
   79
                                  explorer 4wd
                                                   4.0
                                                       1999
                                                               6 manual(m5)
                                                                                4
                                                                                    15
                                                                                        19
                 ford
##
   80
                                                                                4
                                                                                    14
                                                                                        17
                 ford
                                  explorer 4wd
                                                   4.0 1999
                                                               6
                                                                    auto(15)
##
   81
                 ford
                                  explorer 4wd
                                                   4.0 2008
                                                                    auto(15)
                                                                                4
                                                                                    13
                                                                                        19
##
  82
                                  explorer 4wd
                                                   4.6 2008
                                                               8
                                                                    auto(16)
                                                                                4
                                                                                    13
                                                                                        19
                 ford
##
   83
                                  explorer 4wd
                                                   5.0 1999
                                                                                4
                                                                                    13
                                                                                        17
                 ford
                                                               8
                                                                    auto(14)
##
   84
                                                   4.2 1999
                                                                                4
                                                                                    14
                                                                                        17
                 ford
                              f150 pickup 4wd
                                                                    auto(14)
                                                                                    14
##
   85
                                                                                        17
                 ford
                              f150 pickup 4wd
                                                   4.2 1999
                                                                6 manual(m5)
                                                                                4
##
   86
                              f150 pickup 4wd
                                                   4.6 1999
                                                               8 manual(m5)
                                                                                4
                                                                                    13
                                                                                        16
                 ford
##
   87
                 ford
                              f150 pickup 4wd
                                                   4.6 1999
                                                               8
                                                                    auto(14)
                                                                                4
                                                                                    13
                                                                                        16
                                                                                4
##
   88
                              f150 pickup 4wd
                                                   4.6 2008
                                                                    auto(14)
                                                                                    13
                                                                                        17
                 ford
                                                                8
   89
##
                 ford
                              f150 pickup 4wd
                                                   5.4 1999
                                                                    auto(14)
                                                                                4
                                                                                    11
                                                                                        15
## 90
                                                   5.4 2008
                                                                                    13
                                                                                        17
                 ford
                              f150 pickup 4wd
                                                               8
                                                                    auto(14)
                                                                                4
##
   91
                 ford
                                       mustang
                                                   3.8 1999
                                                                6 manual(m5)
                                                                                r
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##
  92
                                                                                        25
                 ford
                                        mustang
                                                   3.8 1999
                                                                    auto(14)
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##
   93
                 ford
                                                   4.0 2008
                                                                6 manual(m5)
                                                                                        26
                                       mustang
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##
   94
                 ford
                                                   4.0
                                                       2008
                                                                    auto(15)
                                                                                    16
                                                                                        24
                                        mustang
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##
   95
                                                                                    15
                 ford
                                                   4.6 1999
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                                        mustang
                                                                    auto(14)
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## 96
                 ford
                                       mustang
                                                   4.6 1999
                                                                8 manual(m5)
                                                                                r
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                                                                                        22
                                                                8 manual(m5)
## 97
                 ford
                                       mustang
                                                   4.6 2008
                                                                                    15
                                                                                        23
                                                                                r
## 98
                 ford
                                       mustang
                                                   4.6 2008
                                                                    auto(15)
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## 99
                 ford
                                        mustang
                                                   5.4 2008
                                                                8 manual(m6)
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  100
                honda
                                                   1.6 1999
                                                                4 manual(m5)
                                                                                 f
                                                                                     28
                                                                                         33
                                          civic
##
   101
                honda
                                          civic
                                                   1.6 1999
                                                                    auto(14)
                                                                                 f
                                                                                     24
                                                                                         32
   102
                                                                                         32
##
                honda
                                          civic
                                                   1.6 1999
                                                                4 manual(m5)
                                                                                 f
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   103
                honda
                                          civic
                                                   1.6 1999
                                                                4 manual(m5)
                                                                                 f
                                                                                     23
                                                                                         29
##
   104
                                                   1.6 1999
                                                                    auto(14)
                                                                                 f
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                                                                                         32
                honda
                                          civic
##
  105
                honda
                                                   1.8 2008
                                                                4 manual(m5)
                                                                                 f
                                                                                     26
                                                                                         34
                                          civic
                                                   1.8 2008
                                                                                    25
## 106
               honda
                                          civic
                                                                    auto(15)
                                                                                 f
                                                                                         36
##
   107
                honda
                                          civic
                                                   1.8
                                                       2008
                                                                4
                                                                    auto(15)
                                                                                 f
                                                                                     24
                                                                                         36
##
   108
                                                                                         29
               honda
                                          civic
                                                   2.0 2008
                                                                  manual(m6)
                                                                                 f
                                                                                     21
   109
             hyundai
                                         sonata
                                                   2.4 1999
                                                                    auto(14)
                                                                                 f
                                                                                     18
                                                                                         26
                                                                                         27
##
   110
             hyundai
                                                   2.4 1999
                                                                                 f
                                                                                     18
                                         sonata
                                                                  manual(m5)
##
   111
             hyundai
                                                   2.4 2008
                                                                    auto(14)
                                                                                 f
                                                                                     21
                                                                                         30
                                         sonata
             hyundai
                                                   2.4 2008
                                                                                 f
## 112
                                         sonata
                                                                  manual(m5)
                                                                                     21
                                                                                         31
## 113
             hyundai
                                                   2.5 1999
                                                                    auto(14)
                                                                                 f
                                                                                     18
                                                                                         26
                                         sonata
## 114
             hyundai
                                                   2.5
                                                       1999
                                                                  manual(m5)
                                                                                 f
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                                                                                         26
                                         sonata
## 115
                                                   3.3 2008
                                                                                 f
                                                                                         28
             hyundai
                                                                    auto(15)
                                                                                     19
                                         sonata
##
   116
             hvundai
                                                   2.0 1999
                                                                    auto(14)
                                                                                 f
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                                        tiburon
##
  117
             hyundai
                                                   2.0 1999
                                                                4 manual(m5)
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                                        tiburon
                                                                                 f
##
   118
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                                        tiburon
                                                   2.0
                                                       2008
                                                                4 manual(m5)
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##
  119
             hyundai
                                        tiburon
                                                   2.0 2008
                                                                    auto(14)
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## 120
             hyundai
                                        tiburon
                                                   2.7 2008
                                                                    auto(14)
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## 121
             hyundai
                                                   2.7 2008
                                                                6 manual(m6)
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                                        tiburon
##
  122
             hyundai
                                                   2.7
                                                       2008
                                                                6 manual(m5)
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                                        tiburon
## 123
                                                   3.0 2008
                                                                    auto(15)
                                                                                 4
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                 jeep
                           grand cherokee 4wd
                                                                6
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   124
                 jeep
                           grand cherokee 4wd
                                                   3.7 2008
                                                                    auto(15)
                                                                                 4
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   125
##
                           grand cherokee 4wd
                                                   4.0
                                                       1999
                                                                    auto(14)
                                                                                 4
                                                                                     15
                                                                                         20
                 jeep
                                                                6
   126
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##
                 jeep
                           grand cherokee 4wd
                                                   4.7
                                                        1999
                                                                8
                                                                    auto(14)
                                                                                 4
                                                                                         17
##
  127
                                                   4.7
                                                       2008
                                                                                 4
                                                                                      9
                                                                                         12
                           grand cherokee 4wd
                                                                8
                                                                    auto(15)
                 jeep
                           grand cherokee 4wd
## 128
                                                   4.7 2008
                                                                8
                                                                    auto(15)
                                                                                 4
                                                                                    14
                                                                                         19
                 jeep
## 129
                 jeep
                           grand cherokee 4wd
                                                   5.7
                                                        2008
                                                                8
                                                                    auto(15)
                                                                                 4
                                                                                     13
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##
   130
                           grand cherokee 4wd
                                                   6.1 2008
                                                                8
                                                                    auto(15)
                                                                                 4
                                                                                     11
                                                                                         14
                 jeep
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##
   131
          land rover
                                   range rover
                                                   4.0 1999
                                                                    auto(14)
                                                                                 4
                                                                                     11
   132
                                                   4.2 2008
                                                                                    12
                                                                                         18
##
          land rover
                                                                    auto(s6)
                                                                                 4
                                   range rover
                                                                8
##
   133
          land rover
                                                   4.4
                                                       2008
                                                                8
                                                                     auto(s6)
                                                                                 4
                                                                                     12
                                                                                         18
                                   range rover
##
   134
          land rover
                                                   4.6 1999
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                                   range rover
                                                                8
                                                                    auto(14)
##
   135
             lincoln
                                 navigator 2wd
                                                   5.4 1999
                                                                    auto(14)
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##
   136
             lincoln
                                 navigator 2wd
                                                   5.4 1999
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                                                                    auto(14)
                                                                                    11
                                                                                         16
                                                                                 r
##
   137
             lincoln
                                 navigator 2wd
                                                   5.4 2008
                                                                8
                                                                    auto(16)
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##
   138
                              mountaineer 4wd
                                                   4.0 1999
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             mercury
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                                                                    auto(15)
   139
                                                   4.0 2008
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             mercury
                              mountaineer 4wd
                                                                    auto(15)
                                                                                 4
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##
   140
                              mountaineer 4wd
                                                   4.6 2008
                                                                    auto(16)
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             mercury
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                                                   5.0 1999
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##
   141
             mercury
                              mountaineer 4wd
                                                                8
                                                                    auto(14)
                                                                                 4
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                                                   2.4 1999
                                                                                 f
##
   142
              nissan
                                         altima
                                                                  manual(m5)
                                                                                     21
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## 143
                                                   2.4 1999
                                                                                     19
                                                                                         27
              nissan
                                         altima
                                                                    auto(14)
                                                                                 f
                                                   2.5 2008
                                                                                 f
                                                                                     23
## 144
                                                                4
                                                                    auto(av)
                                                                                         31
              nissan
                                         altima
##
   145
              nissan
                                         altima
                                                   2.5 2008
                                                                4 manual(m6)
                                                                                 f
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##
   146
                                                   3.5 2008
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              nissan
                                         altima
                                                                6 manual(m6)
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##
   147
              nissan
                                         altima
                                                   3.5 2008
                                                                    auto(av)
                                                                                 f
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##
   148
              nissan
                                         maxima
                                                   3.0 1999
                                                                    auto(14)
                                                                                 f
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##
   149
                                                   3.0 1999
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                                         maxima
                                                                6 manual(m5)
              nissan
## 150
                                                   3.5 2008
                                                                                 f
              nissan
                                         maxima
                                                                    auto(av)
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## 151
              nissan
                                pathfinder 4wd
                                                   3.3 1999
                                                                6
                                                                    auto(14)
                                                                                 4
                                                                                    14
                                                                                         17
## 152
              nissan
                                pathfinder 4wd
                                                   3.3 1999
                                                                6 manual(m5)
                                                                                 4
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## 153
                               pathfinder 4wd
                                                   4.0 2008
                                                                    auto(15)
                                                                                4
                                                                                    14
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              nissan
                                                               6
##
  154
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                                                                                        18
              nissan
                               pathfinder 4wd
                                                   5.6 2008
                                                               8
                                                                    auto(s5)
                                                                    auto(14)
##
   155
             pontiac
                                    grand prix
                                                   3.1 1999
                                                                                f
                                                                                    18
                                                                                        26
   156
                                    grand prix
                                                   3.8 1999
                                                                                f
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                                                                                        26
##
             pontiac
                                                               6
                                                                    auto(14)
##
   157
             pontiac
                                    grand prix
                                                   3.8 1999
                                                               6
                                                                    auto(14)
                                                                                f
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                                                                                        27
                                                   3.8 2008
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##
  158
             pontiac
                                    grand prix
                                                               6
                                                                    auto(14)
## 159
             pontiac
                                    grand prix
                                                   5.3 2008
                                                                    auto(s4)
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## 160
              subaru
                                  forester awd
                                                   2.5 1999
                                                               4 manual(m5)
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##
   161
               subaru
                                  forester awd
                                                   2.5 1999
                                                                    auto(14)
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                                                   2.5 2008
                                                                                        27
##
   162
               subaru
                                  forester awd
                                                               4 manual(m5)
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##
   163
              subaru
                                  forester awd
                                                   2.5 2008
                                                               4 manual(m5)
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   164
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##
              subaru
                                  forester awd
                                                                    auto(14)
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##
   165
               subaru
                                                   2.5 2008
                                                                    auto(14)
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                                  forester awd
##
   166
               subaru
                                   impreza awd
                                                   2.2 1999
                                                                    auto(14)
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## 167
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               subaru
                                   impreza awd
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                                                               4 manual(m5)
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## 168
               subaru
                                                   2.5 1999
                                                                 manual(m5)
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                                   impreza awd
  169
                                                   2.5 1999
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##
               subaru
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                                   impreza awd
                                                                    auto(14)
##
   170
               subaru
                                                   2.5 2008
                                                                    auto(s4)
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                                   impreza awd
  171
                                                   2.5 2008
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##
              subaru
                                                                    auto(s4)
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   172
               subaru
                                   impreza awd
                                                   2.5
                                                       2008
                                                               4 manual(m5)
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##
   173
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                                   impreza awd
                                                   2.5 2008
                                                               4 manual(m5)
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##
  174
                                   4runner 4wd
                                                   2.7 1999
                                                               4 manual(m5)
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               toyota
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                                                   2.7 1999
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## 175
               toyota
                                   4runner 4wd
                                                                    auto(14)
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                                                   3.4 1999
##
   176
               toyota
                                   4runner 4wd
                                                               6
                                                                    auto(14)
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                                                   3.4 1999
## 177
               toyota
                                   4runner 4wd
                                                               6 manual(m5)
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  178
               toyota
                                   4runner 4wd
                                                   4.0 2008
                                                                    auto(15)
                                                                                4
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##
   179
                                   4runner 4wd
                                                   4.7 2008
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               toyota
                                                               8
                                                                    auto(15)
                                                                                    21
##
   180
               toyota
                                                   2.2 1999
                                                               4 manual(m5)
                                                                                f
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                                          camry
##
   181
                                                   2.2 1999
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               toyota
                                          camry
                                                                    auto(14)
##
  182
                                                   2.4 2008
                                                               4 manual(m5)
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               toyota
                                          camry
##
  183
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                                          camry
                                                   2.4 2008
                                                                    auto(15)
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##
   184
               toyota
                                                   3.0 1999
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                                                                    auto(14)
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                                          camry
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   185
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               toyota
                                          camry
   186
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##
                                                   3.5 2008
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               toyota
                                          camry
                                                                    auto(s6)
##
   187
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                                                       1999
                                                                    auto(14)
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               tovota
                                  camry solara
   188
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##
               toyota
                                  camry solara
                                                   2.2 1999
                                                               4 manual(m5)
##
   189
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                                  camry solara
                                                   2.4 2008
                                                               4 manual(m5)
                                                                                f
                                                                                    21
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## 190
                                                   2.4 2008
                                                                    auto(s5)
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               toyota
                                  camry solara
##
  191
                                                   3.0 1999
                                                                    auto(14)
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                                                                                    18
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               toyota
                                  camry solara
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##
  192
                                                   3.0 1999
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               toyota
                                  camry solara
                                                               6 manual(m5)
   193
                                                                                        27
               toyota
                                  camry solara
                                                   3.3 2008
                                                                    auto(s5)
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##
  194
                                                   1.8 1999
                                                                    auto(13)
                                                                                f
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               toyota
                                       corolla
##
   195
               toyota
                                       corolla
                                                   1.8 1999
                                                                    auto(14)
                                                                                f
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##
   196
                                       corolla
                                                   1.8 1999
                                                               4 manual(m5)
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                                                                                    26
                                                                                        35
               toyota
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##
  197
               toyota
                                       corolla
                                                   1.8 2008
                                                               4 manual(m5)
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## 198
                                                   1.8 2008
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                                                                                        35
               toyota
                                       corolla
                                                                    auto(14)
##
  199
               toyota land cruiser wagon 4wd
                                                   4.7 1999
                                                               8
                                                                    auto(14)
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##
  200
                                                                                        18
               toyota land cruiser wagon 4wd
                                                   5.7 2008
                                                                    auto(s6)
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##
  201
                            toyota tacoma 4wd
                                                   2.7 1999
                                                               4 manual(m5)
                                                                                4
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               toyota
##
   202
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                                                   2.7
                                                       1999
                                                                    auto(14)
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                                                                                        20
                            toyota tacoma 4wd
##
   203
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                                                                                        22
                                                   2.7 2008
                                                               4 manual(m5)
               toyota
                            toyota tacoma 4wd
                                                                                4
## 204
               toyota
                            toyota tacoma 4wd
                                                   3.4 1999
                                                               6 manual(m5)
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## 205
               toyota
                            toyota tacoma 4wd
                                                   3.4 1999
                                                                    auto(14)
                                                                                4
                                                                                        19
## 206
              toyota
                            toyota tacoma 4wd
                                                   4.0 2008
                                                               6 manual(m6)
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## 207
              tovota
                            toyota tacoma 4wd
                                                  4.0 2008
                                                                   auto(15)
                                                                                4
                                                                                   16
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## 208
                                                  2.0 1999
                                                               4 manual(m5)
                                                                                f
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                                                                                        29
          volkswagen
                                            gti
                                            gti
                                                  2.0 1999
                                                                                        26
## 209
          volkswagen
                                                                   auto(14)
                                                                                f
                                                                                   19
## 210
                                                  2.0 2008
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          volkswagen
                                            gti
                                                               4 manual(m6)
                                                                                f
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## 211
          volkswagen
                                           gti
                                                  2.0 2008
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                                                                                f
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                                                                                        29
## 212
                                                  2.8 1999
                                                               6 manual(m5)
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          volkswagen
                                            gti
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## 213
                                                  1.9 1999
                                                               4 manual(m5)
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                                                                                        44
          volkswagen
                                         jetta
## 214
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          volkswagen
                                         jetta
                                                  2.0 1999
                                                               4 manual(m5)
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## 215
          volkswagen
                                         jetta
                                                  2.0 1999
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## 216
                                                  2.0 2008
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          volkswagen
                                         jetta
                                                                   auto(s6)
## 217
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                                         jetta
                                                  2.0 2008
                                                               4 manual(m6)
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## 218
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                                                  2.5 2008
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          volkswagen
                                         jetta
                                                                   auto(s6)
## 219
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          volkswagen
                                                  2.5 2008
                                                               5 manual(m5)
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                                         jetta
## 220
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                                                                                        23
          volkswagen
                                         jetta
                                                  2.8 1999
                                                                   auto(14)
## 221
                                                  2.8 1999
                                                               6 manual(m5)
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                                                                                        24
          volkswagen
                                         jetta
## 222
          volkswagen
                                    new beetle
                                                  1.9 1999
                                                                 manual(m5)
                                                                                f
                                                                                   35
                                                                                        44
## 223
                                                  1.9 1999
                                                                                f
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                                                                                        41
          volkswagen
                                    new beetle
                                                                   auto(14)
## 224
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                                                                                        29
                                    new beetle
                                                  2.0 1999
                                                               4 manual(m5)
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                                                                                   21
                                                                                   19
## 225
                                                  2.0 1999
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          volkswagen
                                   new beetle
                                                                   auto(14)
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## 226
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                                    new beetle
                                                  2.5 2008
                                                               5 manual(m5)
                                                                                f
                                                                                   20
                                                                                        28
## 227
          volkswagen
                                    new beetle
                                                  2.5 2008
                                                                   auto(s6)
                                                                                f
                                                                                   20
                                                                                        29
## 228
          volkswagen
                                                  1.8 1999
                                                               4 manual(m5)
                                                                                f
                                                                                   21
                                                                                        29
                                        passat
## 229
                                                  1.8 1999
                                                                                f
                                                                                   18
                                                                                        29
          volkswagen
                                                                   auto(15)
                                        passat
## 230
                                                  2.0 2008
                                                               4
                                                                   auto(s6)
                                                                                f
                                                                                   19
                                                                                        28
          volkswagen
                                        passat
                                                                                        29
## 231
                                                                                f
                                                                                   21
          volkswagen
                                        passat
                                                  2.0 2008
                                                               4 manual(m6)
                                                  2.8 1999
## 232
          volkswagen
                                        passat
                                                                   auto(15)
                                                                                f
                                                                                   16
                                                                                        26
##
  233
          volkswagen
                                                  2.8 1999
                                                               6 manual(m5)
                                                                                f
                                                                                   18
                                                                                        26
                                        passat
##
   234
                                                                                        26
          volkswagen
                                        passat
                                                  3.6 2008
                                                                   auto(s6)
                                                                                f
                                                                                   17
##
       fl
                class
##
  1
         p
              compact
##
   2
        p
              compact
##
   3
              compact
##
              compact
        p
##
   5
              compact
         p
##
   6
         p
              compact
##
   7
        p
              compact
## 8
        p
              compact
##
  9
              compact
        p
##
   10
        p
              compact
##
   11
              compact
##
   12
         p
              compact
##
   13
              compact
         p
##
   14
         p
              compact
##
   15
        p
              compact
##
   16
              midsize
        p
##
   17
              midsize
         p
##
   18
         p
              midsize
##
   19
                   suv
##
   20
                   suv
         е
   21
##
         r
                   suv
##
   22
                   suv
        r
## 23
         r
                   suv
## 24
              2seater
         p
## 25
              2seater
        р
```

##	26	р	2seater
##	27	p	2seater
##	28	р	2seater
##	29	r	suv
##	30	е	suv
##	31	r	suv
##	32	d	suv
##	33	r	midsize
##	34	r	midsize
##	35	r	midsize
##	36	r	midsize
##	37	r	midsize
##	38	r	minivan
##	39	r	minivan
##	40	r	minivan
##	41	r	minivan
##	42	r	minivan
##	43	r	minivan
##	44	е	minivan
##	45	r	minivan
##	46	r	minivan
##	47	r	minivan
##	48	r	minivan
##	49	r	pickup
##	50	r	pickup
##	51	r	pickup
##	52	r	pickup
##	53	r	pickup
##	54	r	pickup
##	55	e	pickup
##	56 57	r	pickup
## ##	58	r	pickup
##	59	r	suv
	60	r	suv
## ##	61	e	suv
##	62	r	suv
	63	r	suv
## ##	64	r	suv
##	65	r	suv
##	66	r e	pickup pickup
##	67	r	pickup
##	68	r	pickup
##	69	r	pickup
##	70	e	pickup
##	71		
##	72	r r	pickup pickup
##	73	r	pickup
##	74	r	pickup
##	7 4 75	r	pickup
##	76	r	suv
##	77	r	suv
##	78	r	suv
##	79		
##	19	r	suv

```
## 80
                  suv
        r
## 81
        r
                  suv
## 82
        r
                  suv
## 83
                  suv
        r
##
   84
        r
               pickup
##
  85
               pickup
        r
##
  86
        r
              pickup
## 87
        r
              pickup
##
   88
        r
               pickup
##
  89
               pickup
##
  90
        r
              pickup
## 91
        r subcompact
##
  92
        r subcompact
## 93
        r subcompact
## 94
        r subcompact
## 95
        r subcompact
##
  96
        r subcompact
##
  97
        r subcompact
##
  98
        r subcompact
## 99
        p subcompact
## 100
        r subcompact
## 101
        r subcompact
## 102
        r subcompact
## 103
        p subcompact
## 104
        r subcompact
## 105
        r subcompact
##
  106
        r subcompact
##
   107
        c subcompact
## 108
        p subcompact
## 109
        r
             midsize
## 110
        r
             midsize
## 111
        r
             midsize
## 112
             midsize
## 113
             midsize
        r
## 114
        r
             midsize
## 115
        r
             midsize
## 116
        r subcompact
## 117
        r subcompact
## 118
        r subcompact
## 119
        r subcompact
## 120
        r subcompact
## 121
        r subcompact
## 122
        r subcompact
## 123
        d
                  suv
## 124
        r
                  suv
## 125
        r
                  suv
## 126
        r
                  suv
## 127
                  suv
## 128
        r
                  suv
## 129
        r
                  suv
## 130
        p
                  suv
## 131
        p
                  suv
## 132
        r
                  suv
## 133
        r
                  suv
```

```
## 134
                  suv
        p
## 135
        r
                  suv
## 136
        p
                  suv
## 137
                  suv
        r
## 138
        r
                  suv
## 139
        r
                  suv
## 140
        r
                  suv
## 141
        r
                  suv
## 142
        r
              compact
## 143
        r
              compact
## 144
        r
             midsize
## 145
        r
             midsize
## 146
             midsize
        p
## 147
              midsize
        p
## 148
        r
             midsize
## 149
        r
             midsize
## 150
              midsize
        р
## 151
        r
                  suv
## 152
                  suv
        r
## 153
        p
                  suv
## 154
        p
                  suv
## 155
        r
              midsize
## 156
             midsize
        p
## 157
        r
             midsize
## 158
             midsize
        r
## 159
        p
             midsize
## 160
        r
                  suv
## 161
        r
                  suv
## 162
        r
                  suv
## 163
                  suv
        p
## 164
        r
                  suv
## 165
        p
                  suv
  166
        r subcompact
## 167
        r subcompact
  168
        r subcompact
## 169
        r subcompact
## 170
        p
              compact
## 171
        r
              compact
## 172
        р
              compact
## 173
              compact
        r
## 174
        r
                  suv
## 175
        r
                  suv
## 176
        r
                  suv
## 177
        r
                  suv
## 178
        r
                  suv
## 179
        r
                  suv
## 180
        r
             midsize
## 181
             midsize
## 182
             midsize
        r
## 183
             midsize
        r
## 184
             midsize
        r
## 185
        r
             midsize
## 186
        r
             midsize
## 187 r
              compact
```

```
## 188
       r
             compact
## 189
             compact
        r
## 190
             compact
## 191
        r
             compact
## 192
        r
             compact
## 193
             compact
        r
## 194
        r
             compact
## 195
        r
             compact
## 196
        r
             compact
## 197
        r
             compact
## 198
        r
             compact
## 199
        r
                 suv
## 200
        r
                  suv
## 201
        r
              pickup
## 202
        r
              pickup
## 203
        r
              pickup
## 204
        r
              pickup
## 205
        r
              pickup
## 206
        r
              pickup
## 207
              pickup
## 208
        r
             compact
## 209
        r
             compact
## 210
        р
             compact
## 211
             compact
        p
## 212
        r
             compact
## 213
        d
             compact
## 214
        r
             compact
## 215
        r
             compact
## 216
        р
             compact
## 217
        p
             compact
## 218
        r
             compact
## 219
        r
             compact
## 220
             compact
## 221
        r
             compact
## 222
        d subcompact
## 223
        d subcompact
## 224
        r subcompact
## 225
        r subcompact
## 226
        r subcompact
## 227
        r subcompact
## 228
        p
             midsize
## 229
        р
             midsize
## 230
             midsize
        р
## 231
             midsize
        p
## 232
             midsize
        p
## 233
             midsize
        р
## 234 p
             midsize
rio::import(file = "./data/mpg.xlsx", range = "A1:C10") # specify range
     manufacturer
##
                        model displ
## 1
             audi
                                1.8
                           a4
## 2
             audi
                           a4
                                1.8
## 3
                                2.0
             audi
                           a4
## 4
             audi
                           a4
                                2.0
```

```
## 5
            audi
                        a4
                               2.8
## 6
            andi
                              2.8
                         a4
## 7
            audi
                         a4
                              3.1
## 8
            audi a4 quattro
                              1.8
## 9
            audi a4 quattro
# Import large flat file with fread
df.f <- fread(file = "./data/mpg_maxi.csv", sep = ",")</pre>
# Read large .csv file
# - compare execution times
# - read.csv VS read_csv VS fread
print("Execution time read.csv():")
## [1] "Execution time read.csv():"
system.time(df1 <- read.csv(file = "./data/mpg_maxi.csv"))</pre>
##
      user system elapsed
##
      1.72
              0.03
                      1.84
print("Execution time read_csv():")
## [1] "Execution time read_csv():"
system.time(df2 <- read_csv(file = "./data/mpg_maxi.csv"))</pre>
##
      user system elapsed
##
              0.06
                      0.57
      1.11
print("Execution time fread():")
## [1] "Execution time fread():"
system.time(df3 <- fread(file = "./data/mpg_maxi.csv"))</pre>
##
      user system elapsed
##
      0.13
             0.04
                      0.16
Write files
# Comma separated
write_csv(x = mpg, file = "./output/mpg_w.csv", col_names = T)
# Semicolon separated
write_csv2(x = mpg, file = "./output/mpg_w2.csv", col_names = T)
# write a xlsx file
rio::export(x = mpg, file = "./output/mpg.xlsx")
# write/read to/from a .rds file
write_rds(x = mpg, file = "./output/mpg.rds")
read_rds(file = "./output/mpg.rds")
## # A tibble: 234 x 11
##
     manufacturer model
                             displ year
                                          cyl trans drv
                                                             cty hwy fl
                                                                              class
##
      <chr> <chr>
                              <dbl> <int> <int> <chr> <int> <int> <chr> <int> <int> <chr>
                 a4
## 1 audi
                               1.8 1999
                                             4 auto~ f
                                                               18
                                                                     29 p
                                                                              comp~
## 2 audi
                               1.8 1999
                                              4 manu~ f
                                                              21
                 a4
                                                                     29 p
                                                                              comp~
## 3 audi
                                     2008
                                            4 manu~ f
                                                             20
                 a4
                                                                     31 p
                                                                              comp~
```

```
## 4 audi
                                2
                                     2008
                                              4 auto~ f
                                                               21
                  a4
                                                                     30 p
                                                                               comp~
## 5 audi
                                2.8 1999
                  a4
                                              6 auto~ f
                                                               16
                                                                     26 p
                                                                               comp~
## 6 audi
                                2.8 1999
                                                               18
                   a4
                                              6 manu~ f
                                                                     26 p
                                                                               comp~
##
  7 audi
                   a4
                                3.1 2008
                                              6 auto~ f
                                                               18
                                                                     27 p
                                                                               comp~
## 8 audi
                   a4 quattro
                                1.8 1999
                                              4 manu~ 4
                                                               18
                                                                     26 p
                                                                               comp~
## 9 audi
                   a4 quattro
                                1.8 1999
                                              4 auto~ 4
                                                               16
                                                                     25 p
                                                                               comp~
## 10 audi
                   a4 quattro
                                2
                                     2008
                                              4 manu~ 4
                                                               20
                                                                     28 p
                                                                               comp~
## # i 224 more rows
# feather
write_feather(x = mpg, path = "./output/mpg.feather")
read_feather(path = "./output/mpg.feather")
```

```
## # A tibble: 234 x 11
##
      manufacturer model
                               displ year
                                             cyl trans drv
                                                                                 class
                                                                cty
                                                                      hwy fl
##
      <chr>
                   <chr>
                               <dbl> <int> <int> <chr> <int> <int> <int> <chr> <int> <int> <int> <chr>
##
   1 audi
                                 1.8 1999
                                               4 auto~ f
                   a4
                                                                 18
                                                                       29 p
                                                                                 comp~
                                               4 manu~ f
##
    2 audi
                                 1.8 1999
                   a4
                                                                 21
                                                                       29 p
                                                                                 comp~
## 3 audi
                   a4
                                 2
                                      2008
                                               4 manu~ f
                                                                 20
                                                                       31 p
                                                                                 comp~
## 4 audi
                   a4
                                 2
                                      2008
                                               4 auto~ f
                                                                 21
                                                                       30 p
                                                                                 comp~
## 5 audi
                                 2.8 1999
                                                                 16
                   a4
                                               6 auto~ f
                                                                       26 p
                                                                                 comp~
  6 audi
                                 2.8 1999
                                                                       26 p
##
                   a4
                                               6 manu~ f
                                                                 18
                                                                                 comp~
    7 audi
                                 3.1 2008
##
                   a4
                                               6 auto~ f
                                                                 18
                                                                       27 p
                                                                                 comp~
## 8 audi
                                 1.8 1999
                                                                       26 p
                   a4 quattro
                                               4 manu~ 4
                                                                 18
                                                                                 comp~
## 9 audi
                   a4 quattro
                                 1.8 1999
                                               4 auto~ 4
                                                                 16
                                                                       25 p
                                                                                 comp~
## 10 audi
                   a4 quattro
                                      2008
                                               4 manu~ 4
                                                                 20
                                                                       28 p
                                 2
                                                                                 comp~
## # i 224 more rows
```