Appendix B-Passenger demand & Train information

Table B.1 Hour-dependent passenger demand

OD									Pei	riod								
—UD	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1-2	25	29	38	40	64	56	47	48	46	39	40	44	50	30	42	36	15	20
1-3	28	48	57	32	51	64	40	45	30	56	42	68	46	34	35	32	38	30
1-4	32	40	38	40	52	61	24	35	37	30	44	48	34	20	24	37	32	20
1-5	19	28	28	33	34	33	44	48	34	43	41	42	47	32	22	42	32	18
1-6	17	51	43	72	70	91	65	36	56	35	56	64	86	71	48	56	41	64
1-7	17	32	30	54	46	51	48	36	31	39	56	45	75	28	48	46	22	40
1-8	24	20	44	41	44	42	45	36	30	48	32	61	60	25	28	30	28	43
1-9	35	51	60	60	81	51	34	53	40	27	51	58	46	48	58	20	20	20
1-10	28	17	25	45	48	60	24	22	29	35	28	61	52	42	48	38	17	14
1-11	28	38	38	30	36	55	29	32	38	34	25	44	60	32	34	37	25	28
1-12	20	16	37	40	60	58	27	38	38	40	25	40	32	30	36	38	36	32
1-13	12	17	36	44	58	48	25	44	32	42	25	47	43	28	33	38	13	41
1-14	28	40	37	24	64 52	34	43	42	22	22	35	42	54	30	47	41	21	47
1-15	28	29	32	22	53	62 52	42	28	42	39	43	44	45	25	44	34	0	35
1-16	13	24	30	57	66 57	53	52	60	58	34	36	76	60	35	38	51	30	44
1-17	48	48	65	70	57	86	63	44	42	52	58	54	92	34	57	51	54	28
2-3	13	0	15	12	32	35	22	17	25	15	25	26	31	28	31	23	0	22
2-4	0	0	15	12	13	20	0	0	12	12	17	22	16	0	10	0	0	0
2-5	0	0 28	0 22	12 29	22 58	16 44	0 30	17 45	0 29	15 32	16 42	15 54	22 60	0 48	0 32	13 29	0 28	0 14
2-6 2-7	16	25 25	17	12	26	31	28	22	29	22	22	35	20	15	25	13	10	27
2-7	0	13	0	0	20	17	12	0	0	0	17	0	12	0	12	13	0	0
2-8 2-9	12	16	16	22	28	33	18	16	22	12	12	24	24	16	17	12	21	17
2-10	0	15	15	0	22	15	0	14	0	0	17	17	13	0	12	0	0	0
2-11	11	0	0	0	22	13	0	0	11	16	0	19	20	0	0	0	0	15
2-12	0	0	0	12	0	17	0	17	12	14	0	16	17	17	0	0	0	0
2-13	0	0	0	0	17	12	11	0	0	15	0	13	12	0	12	0	0	12
2-14	0	0	0	0	19	13	12	0	0	0	12	20	22	0	16	0	0	0
2-15	0	0	0	12	12	19	12	16	17	0	10	16	13	12	0	0	0	0
2-16	20	12	13	21	23	32	19	30	18	24	20	35	38	20	25	27	20	20
2-17	32	38	33	25	41	44	21	38	32	30	24	60	63	28	38	36	17	35
3-4	13	16	12	12	29	35	19	32	17	22	19	23	31	25	19	23	12	10
3-5	0	27	16	17	36	40	22	17	17	30	12	30	28	17	31	0	22	24
3-6	16	22	53	60	79	64	58	54	46	51	38	64	75	34	44	28	25	30
3-7	19	25	28	36	33	48	35	36	20	38	42	45	32	34	20	35	16	20
3-8	12	0	25	31	38	25	22	13	12	16	24	29	28	12	21	16	0	0
3-9	27	28	30	38	38	32	19	42	29	32	42	30	33	33	24	24	0	16
3-10	18	19	20	29	22	32	30	25	22	28	25	32	28	18	12	10	0	22
3-11	12	25	28	28	34	22	12	20	22	23	32	28	25	32	15	25	12	24

									Per	riod								
OD -	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
3-12	22	16	12	25	27	35	19	17	13	19	20	40	35	26	32	18	0	24
3-13	10	25	16	20	25	30	31	25	15	19	18	22	32	28	17	12	20	22
3-14	17	16	25	28	38	36	25	27	25	27	22	25	22	16	25	25	0	0
3-15	0	24	22	25	35	36	25	28	22	16	24	30	25	32	20	20	0	12
3-16	0	32	38	24	33	48	35	16	17	24	36	32	40	33	24	20	31	32
3-17	28	28	30	54	68	56	32	28	46	44	54	73	64	44	41	44	20	34
4-5	12	0	15	15	0	22	12	10	13	17	10	19	17	0	0	12	0	0
4-6	20	30	34	47	44	37	48	48	34	20	21	48	50	25	0	30	0	41
4-7	18	16	12	28	29	20	23	17	12	28	22	32	24	21	0	15	16	0
4-8	0	0	0	0	12	12	13	0	17	0	17	0	22	0	0	13	0	0
4-9	0	15	25	25	39	22	14	25	26	14	29	37	37	16	0	23	23	20
4-10	0	0	0	0	20	20	12	0	0	0	16	13	17	12	0	0	0	0
4-11	0	0	0	0	22	21	0	14	0	15	0	16	22	17	0	0	0	0
4-12	12	0	0	16	20	0	17	11	0	12	0	17	22	12	0	0	0	0
4-13	0	0	16	15	12	12	0	0	0	12	16	20	23	13	0	0	10	0
4-14	0	0	0	0	17	19	0	17	17	0	0	13	24	16	0	12	0	0
4-15	12	12	0	12	19	22	12	10	17	14	0	12	12	10	0	0	0	0
4-16	22	25	19	22	35	32	15	13	20	24	30	38	28	30	0	14	14	28
4-17	29	28	24	48	32	53	28	28	34	29	22	55	53	25	0	39	15	36
5-6	24	41	22	44	52	54	41	48	44	44	46	60	45	42	0	32	17	16
5-7	0	16	20	20	35	25	32	12	12	24	13	40	28	25	0	18	20	25
5-8	0	0	0	17	12	12	17	12	16	0	0	19	17	0	0	0	0	0
5-9 5-10	0	26	14	17	32	38	22	16	25	28	22	37	40	22	0	17	0	0
5-10	0	0	12	13	16 13	17 13	0 13	0	0	17 0	0 17	21	15 22	0	0	0	0	16 0
5-11 5-12	0	0	12 0	16 13	13	12	12	17 17	0 16	15	0	0 24	22	0	0	0 13	0	12
5-12	0	0	17	0	24	21	0	12	13	0	10	18	22	12	0	0	0	0
5-13	0	12	0	0	12	22	0	16	0	0	0	22	20	12	0	0	0	0
5-14	10	12	0	0	19	16	12	15	12	0	12	17	17	0	0	10	0	0
5-16	20	20	28	29	32	32	15	18	28	16	30	38	22	12	0	20	17	13
5-17	30	38	28	44	52	55	27	44	47	41	28	64	64	21	0	20	13	44
6-7	28	34	51	28	76	44	54	28	60	56	51	68	48	40	53	0	34	22
6-8	34	28	38	40	58	39	27	24	42	34	28	32	60	40	32	0	12	12
6-9	20	49	60	34	51	61	44	37	31	54	53	54	56	27	43	0	20	40
6-10	33	20	38	28	48	33	25	45	28	28	48	40	38	38	36	0	28	43
6-11	34	30	40	27	47	32	45	32	39	42	44	46	48	48	29	0	20	20
6-12	11	24	31	20	34	32	37	22	38	25	24	38	48	37	32	0	17	32
6-13	16	16	24	48	35	34	33	28	20	24	33	50	57	31	34	0	12	24
6-14	12	42	36	24	60	64	39	48	32	33	24	64	48	42	45	0	17	24
6-15	36	25	47	35	32	53	45	42	37	37	45	56	64	25	48	0	17	44
6-16																		
0-10	17	34	44	28	64	48	31	35	32	60	51	49	67	36	51	0	46	43

									Pei	riod								
OD	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
7-8	12	17	30	13	26	27	22	14	25	25	24	22	30	16	14	0	20	20
7-9	19	24	36	21	44	42	28	28	22	20	34	35	52	24	24	0	0	40
7-10	0	17	16	13	34	30	12	19	31	20	31	32	28	18	17	0	20	14
7-11	0	17	26	20	40	28	16	25	30	32	28	33	36	25	22	0	10	26
7-12	15	22	16	20	24	22	13	32	14	13	25	32	39	14	28	0	0	16
7-13	11	16	17	30	32	25	12	15	25	12	16	20	40	25	19	0	0	22
7-14	20	28	15	19	31	32	17	16	25	20	17	35	24	28	17	0	11	0
7-15	18	0	19	20	32	34	12	18	15	17	32	20	36	29	28	0	19	14
7-16	25	36	32	32	48	40	22	40	31	25	40	51	40	20	20	0	12	14
7-17	38	51	58	38	49	56	39	31	37	53	56	71	79	52	52	0	16	52
8-9	20	12	24	12	35	36	21	28	12	12	16	22	32	15	22	17	0	17
8-10	0	12	0	12	20	22	13	0	17	0	15	22	12	15	0	0	0	0
8-11	0	0	16	12	12	0	10	14	10	17	0	19	12	16	0	0	0	0
8-12	12	12	16	0	13	22	11	12	17	0	0	0	0	12	0	0	0	0
8-13	0	0	0	14	22	16	0	16	0	0	12	19	22	0	12	13	0	0
8-14	0	0	17	0	12	13	12	0	16	16	0	15	20	16	16	0	0	0
8-15 8-16	0	0 16	0 28	12 22	15 30	19 30	12 12	0 16	12 13	16 22	16 21	12 38	20 36	12 15	11 12	0 16	0 10	12 16
8-10 8-17	24	39	28	22	54	36	33	28	32	38	40	38	35	36	30	22	10	13
9-10	24 16	25	17	13	36	25	32	26	12	36 16	18	22	36	32	25	17	0	0
9-10 9-11	0	21	21	20	21	20	16	30	12	16	30	40	38	32 17	12	12	0	0
9-12	20	25	12	28	22	34	31	28	30	32	30	40	36	20	27	17	0	0
9-13	21	19	28	30	37	21	24	30	25	12	22	25	35	12	28	10	0	0
9-14	0	22	30	21	35	38	20	18	13	24	20	26	36	25	12	19	0	0
9-15	0	0	13	20	36	22	13	17	30	12	17	35	27	30	24	13	0	0
9-16	17	32	38	19	32	44	42	24	40	27	20	28	33	42	17	31	0	0
9-17	32	22	54	52	76	42	52	56	52	52	51	80	71	25	31	38	0	0
10-11	0	0	10	12	13	12	0	17	12	0	0	17	19	13	16	0	0	0
10-12	0	0	15	0	17	0	16	0	0	0	0	0	12	0	0	10	0	0
10-13	0	12	17	0	16	16	0	0	0	16	16	20	17	0	12	0	0	0
10-14	0	0	0	16	21	22	12	0	0	13	0	21	12	0	0	0	0	0
10-15	0	0	0	17	15	22	0	12	16	0	12	18	17	0	17	12	0	0
10-16	0	18	23	20	23	22	30	27	15	25	15	32	26	20	31	13	0	0
10-17	33	39	38	41	62	42	27	27	40	32	44	35	47	35	37	42	0	0
11-12	0	0	0	0	0	12	17	0	0	0	15	22	0	16	0	13	0	0
11-13	0	0	0	16	22	12	12	0	16	0	0	12	20	16	12	0	0	0
11-14	10	15	0	12	12	20	16	0	12	0	16	21	22	12	0	0	0	0
11-15	0	10	12	0	15	0	16	17	14	17	16	20	12	0	12	0	12	0
11-16	0	20	16	13	21	39	28	22	13	24	16	28	20	13	12	17	0	0
11-17	13	28	44	36	48	62	25	24	24	33	32	56	52	44	22	24	33	0
12-13	0	0	10	0	17	17	0	0	0	0	11	12	20	0	16	0	0	0
12-14	0	0	0	0	19	16	16	15	17	0	12	15	16	0	0	12	0	0

OD									Per	riod								
OD	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
12-15	0	0	0	13	24	0	0	0	16	15	17	22	15	10	16	12	0	0
12-16	13	0	25	17	28	25	12	28	17	22	27	33	30	22	22	20	16	0
12-17	25	22	24	42	51	50	47	40	33	32	38	60	47	40	32	20	34	0
13-14	0	0	0	13	12	18	12	12	11	12	12	16	17	0	13	0	0	0
13-15	12	15	16	0	19	15	15	0	16	0	17	22	13	0	0	15	0	0
13-16	20	25	12	25	24	35	17	22	26	14	24	32	25	19	27	12	17	0
13-17	12	17	31	24	60	45	44	30	25	36	44	47	38	44	38	28	16	0
14-15	12	0	0	0	16	16	13	10	13	14	13	19	20	0	13	0	0	0
14-16	22	11	17	18	29	24	32	29	19	17	31	38	36	12	15	0	0	0
14-17	36	28	35	47	53	58	28	47	22	31	36	38	33	32	40	17	19	0
15-16	17	25	25	22	34	34	21	17	20	12	12	40	38	30	17	17	0	0
15-17	28	40	21	38	63	38	45	32	25	24	27	41	38	25	27	30	30	0
16-17	16	48	45	45	76	48	42	40	51	43	51	71	80	32	56	25	22	25

Table B.2 Train information

Train	Earliest	Latest			Train
I rain ID	departure times	departure times	Starting station	Ending station	capacity
0	2	22	Changsha	Guangzhou South	500
1	5	25	Wuhan	Guangzhou South	1000
2	13	33	Wuhan	Guangzhou South	1000
3	20	40	Changsha	Guangzhou South	500
4	26	46	Wuhan	Changsha	500
5	30	50	Changsha	Guangzhou South	500
6	36	56	Changsha	Guangzhou South	500
7	42	62	Wuhan	Guangzhou South	1000
8	48	68	Changsha	Guangzhou South	500
9	53	73	Changsha	Guangzhou South	500
10	57	77	Wuhan	Guangzhou South	1000
11	69	89	Changsha	Guangzhou South	500
12	75	95	Changsha	Guangzhou South	500
13	80	100	Changsha	Guangzhou South	500
14	89	109	Changsha	Guangzhou South	500
15	92	112	Wuhan	Guangzhou South	1000
16	140	160	Wuhan	Guangzhou South	1000
17	140	160	Changsha	Guangzhou South	500
18	145	165	Wuhan	Guangzhou South	1000
19	146	166	Changsha	Guangzhou South	500
20	157	177	Changsha	Guangzhou South	500
21	164	184	Wuhan	Guangzhou South	1000
22	170	190	Wuhan	Guangzhou South	1000
23	176	196	Changsha	Guangzhou South	500
24	185	205	Wuhan	Guangzhou South	1000
25	192	212	Changsha	Guangzhou South	500
26	198	218	Wuhan	Guangzhou South	1000
27	204	224	Changsha	Guangzhou South	500
28	207	227	Wuhan	Guangzhou South	1000
29	210	230	Changsha	Guangzhou South	500
30	222	242	Wuhan	Guangzhou South	1000
31	227	247	Wuhan	Guangzhou South	1000
32	235	255	Changsha	Guangzhou South	500
33	245	265	Wuhan	Changsha	500
34	250	270	Changsha	Guangzhou South	500
35	260	280	Changsha	Guangzhou South	500
36	266	286	Wuhan	Changsha	500
37	272	292	Wuhan	Guangzhou South	1000
38	278	298	Wuhan	Changsha	500
39	286	306	Wuhan	Guangzhou South	1000
40	294	314	Wuhan	Guangzhou South	1000

11 1296 316	Train	Earliest	Latest			Train
42 299 319 Wuhan Changsha 500 43 305 325 Wuhan Guangzhou South 1000 44 310 330 Wuhan Changsha 500 45 315 335 Changsha Guangzhou South 1000 46 326 346 Wuhan Guangzhou South 500 48 340 360 Wuhan Changsha 500 48 340 360 Wuhan Changsha 500 50 347 367 Changsha Guangzhou South 500 50 347 367 Changsha Guangzhou South 500 51 352 372 Changsha Guangzhou South 500 52 353 373 Wuhan Changsha 500 54 358 378 Wuhan Changsha 50 55 362 382 Changsha Guangzhou South 500	ID	departure times	departure times	Starting station	Ending station	capacity
43 305 325 Wuhan Guangzhou South 1000 44 310 330 Wuhan Changsha 500 45 315 335 Changsha Guangzhou South 500 46 326 346 Wuhan Guangzhou South 500 47 335 355 Changsha Guangzhou South 500 48 340 360 Wuhan Changsha 500 49 345 365 Wuhan Guangzhou South 500 50 347 367 Changsha Guangzhou South 500 51 352 372 Changsha Guangzhou South 500 52 353 373 Wuhan Changsha 500 54 358 378 Wuhan Changsha 500 55 362 382 Changsha Guangzhou South 500 57 376 396 Wuhan Guangzhou South 500	41	296	316	Changsha	Guangzhou South	500
44 310 330 Wuhan Changsha 500 45 315 335 Changsha Guangzhou South 500 46 326 346 Wuhan Guangzhou South 500 47 335 355 Changsha Guangzhou South 500 48 340 360 Wuhan Changsha 500 49 345 365 Wuhan Guangzhou South 500 50 347 367 Changsha Guangzhou South 500 51 352 372 Changsha Guangzhou South 500 52 353 373 Wuhan Changsha 500 53 357 377 Changsha Guangzhou South 500 54 358 378 Wuhan Changsha 500 55 362 382 Changsha Guangzhou South 500 57 376 396 Wuhan Guangzhou South 1000	42	299	319	Wuhan	Changsha	500
45 315 335 Changsha Guangzhou South 500 46 326 346 Wuhan Guangzhou South 1000 47 335 355 Changsha Guangzhou South 500 48 340 360 Wuhan Changsha 500 49 345 365 Wuhan Guangzhou South 500 50 347 367 Changsha Guangzhou South 500 51 352 372 Changsha Guangzhou South 500 52 353 373 Wuhan Changsha 500 54 358 378 Wuhan Changsha 500 55 362 382 Changsha Guangzhou South 500 56 367 387 Wuhan Guangzhou South 500 58 378 398 Changsha Guangzhou South 500 59 394 414 Wuhan Changsha 500	43	305	325	Wuhan	Guangzhou South	1000
46 326 346 Wuhan Guangzhou South 1000 47 335 355 Changsha Guangzhou South 500 48 340 360 Wuhan Changsha 500 49 345 365 Wuhan Guangzhou South 500 50 347 367 Changsha Guangzhou South 500 51 352 372 Changsha Guangzhou South 500 52 353 373 Wuhan Changsha 500 54 358 378 Wuhan Changsha 500 55 362 382 Changsha Guangzhou South 500 56 367 387 Wuhan Guangzhou South 1000 58 378 398 Changsha Guangzhou South 1000 59 394 414 Wuhan Guangzhou South 1000 60 404 424 Wuhan Changsha 500	44	310	330	Wuhan	Changsha	500
47 335 355 Changsha Guangzhou South 500 48 340 360 Wuhan Changsha 500 49 345 365 Wuhan Guangzhou South 1000 50 347 367 Changsha Guangzhou South 500 51 352 372 Changsha Guangzhou South 500 52 353 373 Wuhan Changsha 500 53 357 377 Changsha Guangzhou South 500 54 358 378 Wuhan Changsha 500 55 362 382 Changsha Guangzhou South 500 57 376 396 Wuhan Guangzhou South 100 58 378 398 Changsha Guangzhou South 1000 59 394 414 Wuhan Changsha 500 61 409 429 Wuhan Changsha 500 <	45	315	335	Changsha	Guangzhou South	500
48 340 360 Wuhan Changsha 500 49 345 365 Wuhan Guangzhou South 1000 50 347 367 Changsha Guangzhou South 500 51 352 372 Changsha Guangzhou South 500 52 353 353 373 Wuhan Changsha Goungzhou South 500 54 358 378 Wuhan Changsha Guangzhou South 500 55 362 382 Changsha Guangzhou South 500 56 367 387 Wuhan Changsha 500 57 376 396 Wuhan Guangzhou South 1000 58 378 398 Changsha Guangzhou South 1000 60 404 424 Wuhan Guangzhou South 500 61 409 429 Wuhan Changsha 500 62 410 430 <t< td=""><td>46</td><td>326</td><td>346</td><td>Wuhan</td><td>Guangzhou South</td><td>1000</td></t<>	46	326	346	Wuhan	Guangzhou South	1000
49 345 365 Wuhan Guangzhou South 1000 50 347 367 Changsha Guangzhou South 500 51 352 372 Changsha Guangzhou South 500 52 353 373 Wuhan Changsha 500 53 357 377 Changsha Guangzhou South 500 54 358 378 Wuhan Changsha 500 55 362 382 Changsha Guangzhou South 500 56 367 387 Wuhan Changsha 500 57 376 396 Wuhan Guangzhou South 1000 58 378 398 Changsha Guangzhou South 1000 60 404 424 Wuhan Changsha 500 61 409 429 Wuhan Changsha 500 62 410 430 Changsha Guangzhou South 500	47	335	355	Changsha	Guangzhou South	500
50 347 367 Changsha Guangzhou South 500 51 352 372 Changsha Guangzhou South 500 52 353 373 Wuhan Changsha 500 53 357 377 Changsha Guangzhou South 500 54 358 378 Wuhan Changsha 500 55 362 382 Changsha Guangzhou South 500 56 367 387 Wuhan Changsha 500 57 376 396 Wuhan Guangzhou South 1000 58 378 398 Changsha Guangzhou South 1000 60 404 424 Wuhan Changsha 500 61 409 429 Wuhan Changsha 500 62 410 430 Changsha Guangzhou South 500 63 414 434 Wuhan Changsha 500	48	340	360	Wuhan	Changsha	500
51 352 372 Changsha Guangzhou South 500 52 353 373 Wuhan Changsha 500 53 357 377 Changsha Guangzhou South 500 54 358 378 Wuhan Changsha 500 55 362 382 Changsha Guangzhou South 500 56 367 387 Wuhan Changsha 500 57 376 396 Wuhan Guangzhou South 1000 58 378 398 Changsha Guangzhou South 1000 60 404 424 Wuhan Changsha 500 61 409 429 Wuhan Changsha 500 62 410 430 Changsha Guangzhou South 500 63 414 434 Wuhan Changsha 500 64 420 440 Wuhan Guangzhou South 500	49	345	365	Wuhan	Guangzhou South	1000
52 353 373 Wuhan Changsha 500 53 357 377 Changsha Guangzhou South 500 54 358 378 Wuhan Changsha 500 55 362 382 Changsha Guangzhou South 500 56 367 387 Wuhan Changsha 500 57 376 396 Wuhan Guangzhou South 1000 58 378 398 Changsha Guangzhou South 500 60 404 424 Wuhan Guangzhou South 1000 60 404 424 Wuhan Changsha 500 61 409 429 Wuhan Changsha 500 62 410 430 Changsha Guangzhou South 500 63 414 434 Wuhan Ghangsha 500 64 420 440 Wuhan Guangzhou South 500 <	50	347	367	Changsha	Guangzhou South	500
53 357 377 Changsha Guangzhou South 500 54 358 378 Wuhan Changsha 500 55 362 382 Changsha Guangzhou South 500 56 367 387 Wuhan Changsha 500 57 376 396 Wuhan Guangzhou South 1000 58 378 398 Changsha Guangzhou South 1000 60 404 424 Wuhan Changsha 500 61 409 429 Wuhan Changsha 500 61 409 429 Wuhan Changsha 500 62 410 430 Changsha Guangzhou South 500 63 414 434 Wuhan Changsha 500 64 420 440 Wuhan Guangzhou South 1000 65 421 441 Changsha Guangzhou South 1000	51	352	372	Changsha	Guangzhou South	500
54 358 378 Wuhan Changsha 500 55 362 382 Changsha Guangzhou South 500 56 367 387 Wuhan Changsha 500 57 376 396 Wuhan Guangzhou South 1000 58 378 398 Changsha Guangzhou South 1000 69 394 414 Wuhan Guangzhou South 1000 60 404 424 Wuhan Changsha 500 61 409 429 Wuhan Changsha 500 62 410 430 Changsha Guangzhou South 500 63 414 434 Wuhan Changsha 500 64 420 440 Wuhan Guangzhou South 1000 65 421 441 Changsha Guangzhou South 1000 66 425 445 Wuhan Guangzhou South 1000 <tr< td=""><td>52</td><td>353</td><td>373</td><td>Wuhan</td><td>Changsha</td><td>500</td></tr<>	52	353	373	Wuhan	Changsha	500
55 362 382 Changsha Guangzhou South 500 56 367 387 Wuhan Changsha 500 57 376 396 Wuhan Guangzhou South 1000 58 378 398 Changsha Guangzhou South 500 59 394 414 Wuhan Guangzhou South 1000 60 404 424 Wuhan Changsha 500 61 409 429 Wuhan Changsha 500 62 410 430 Changsha Guangzhou South 500 63 414 434 Wuhan Changsha 500 64 420 440 Wuhan Guangzhou South 1000 65 421 441 Changsha Guangzhou South 500 66 425 445 Wuhan Guangzhou South 1000 68 443 463 Wuhan Guangzhou South 500	53	357	377	Changsha	Guangzhou South	500
56 367 387 Wuhan Changsha 500 57 376 396 Wuhan Guangzhou South 1000 58 378 398 Changsha Guangzhou South 500 59 394 414 Wuhan Guangzhou South 1000 60 404 424 Wuhan Changsha 500 61 409 429 Wuhan Changsha 500 62 410 430 Changsha Guangzhou South 500 63 414 434 Wuhan Changsha 500 64 420 440 Wuhan Guangzhou South 1000 65 421 441 Changsha Guangzhou South 500 66 425 445 Wuhan Guangzhou South 1000 68 443 463 Wuhan Guangzhou South 1000 69 447 467 Changsha Guangzhou South 1000	54	358	378	Wuhan	Changsha	500
57 376 396 Wuhan Guangzhou South 1000 58 378 398 Changsha Guangzhou South 500 59 394 414 Wuhan Guangzhou South 1000 60 404 424 Wuhan Changsha 500 61 409 429 Wuhan Changsha 500 62 410 430 Changsha Guangzhou South 500 63 414 434 Wuhan Changsha 500 64 420 440 Wuhan Guangzhou South 1000 65 421 441 Changsha Guangzhou South 500 66 425 445 Wuhan Guangzhou South 1000 68 443 463 Wuhan Guangzhou South 1000 69 447 467 Changsha Guangzhou South 500 70 448 468 Wuhan Guangzhou South 1000	55	362	382	Changsha	Guangzhou South	500
58 378 398 Changsha Guangzhou South 500 59 394 414 Wuhan Guangzhou South 1000 60 404 424 Wuhan Changsha 500 61 409 429 Wuhan Changsha 500 62 410 430 Changsha Guangzhou South 500 63 414 434 Wuhan Changsha 500 64 420 440 Wuhan Guangzhou South 1000 65 421 441 Changsha Guangzhou South 500 66 425 445 Wuhan Guangzhou South 1000 68 443 463 Wuhan Guangzhou South 1000 69 447 467 Changsha Guangzhou South 500 70 448 468 Wuhan Guangzhou South 1000 72 474 494 Changsha Guangzhou South 500	56	367	387	Wuhan	Changsha	500
59 394 414 Wuhan Guangzhou South 1000 60 404 424 Wuhan Changsha 500 61 409 429 Wuhan Changsha 500 62 410 430 Changsha Guangzhou South 500 63 414 434 Wuhan Changsha 500 64 420 440 Wuhan Guangzhou South 1000 65 421 441 Changsha Guangzhou South 500 66 425 445 Wuhan Guangzhou South 1000 68 443 463 Wuhan Guangzhou South 1000 69 447 467 Changsha Guangzhou South 500 70 448 468 Wuhan Guangzhou South 1000 72 474 494 Changsha Guangzhou South 500 73 479 499 Wuhan Ghangsha 500	57	376	396	Wuhan	Guangzhou South	1000
60 404 424 Wuhan Changsha 500 61 409 429 Wuhan Changsha 500 62 410 430 Changsha Guangzhou South 500 63 414 434 Wuhan Changsha 500 64 420 440 Wuhan Guangzhou South 1000 65 421 441 Changsha Guangzhou South 500 66 425 445 Wuhan Changsha 500 67 436 456 Wuhan Guangzhou South 1000 68 443 463 Wuhan Guangzhou South 1000 69 447 467 Changsha Guangzhou South 500 70 448 468 Wuhan Guangzhou South 1000 72 474 494 Changsha Guangzhou South 500 73 479 499 Wuhan Guangzhou South 500	58	378	398	Changsha	Guangzhou South	500
61 409 429 Wuhan Changsha 500 62 410 430 Changsha Guangzhou South 500 63 414 434 Wuhan Changsha 500 64 420 440 Wuhan Guangzhou South 1000 65 421 441 Changsha Guangzhou South 500 66 425 445 Wuhan Changsha 500 67 436 456 Wuhan Guangzhou South 1000 68 443 463 Wuhan Guangzhou South 500 70 448 468 Wuhan Changsha 500 71 460 480 Wuhan Guangzhou South 1000 72 474 494 Changsha Guangzhou South 500 73 479 499 Wuhan Changsha 500 75 489 509 Wuhan Changsha 500 <td< td=""><td>59</td><td>394</td><td>414</td><td>Wuhan</td><td>Guangzhou South</td><td>1000</td></td<>	59	394	414	Wuhan	Guangzhou South	1000
62 410 430 Changsha Guangzhou South 500 63 414 434 Wuhan Changsha 500 64 420 440 Wuhan Guangzhou South 1000 65 421 441 Changsha Guangzhou South 500 66 425 445 Wuhan Changsha 500 67 436 456 Wuhan Guangzhou South 1000 68 443 463 Wuhan Guangzhou South 500 70 448 468 Wuhan Changsha 500 71 460 480 Wuhan Guangzhou South 1000 72 474 494 Changsha Guangzhou South 500 73 479 499 Wuhan Changsha 500 75 489 509 Wuhan Changsha 500 76 490 510 Changsha Guangzhou South 500	60	404	424	Wuhan	Changsha	500
63 414 434 Wuhan Changsha 500 64 420 440 Wuhan Guangzhou South 1000 65 421 441 Changsha Guangzhou South 500 66 425 445 Wuhan Changsha 500 67 436 456 Wuhan Guangzhou South 1000 68 443 463 Wuhan Guangzhou South 1000 69 447 467 Changsha Guangzhou South 500 70 448 468 Wuhan Changsha 500 71 460 480 Wuhan Guangzhou South 1000 72 474 494 Changsha Guangzhou South 500 73 479 499 Wuhan Changsha 500 75 489 509 Wuhan Changsha 500 76 490 510 Changsha Guangzhou South 500	61	409	429	Wuhan	Changsha	500
64 420 440 Wuhan Guangzhou South 1000 65 421 441 Changsha Guangzhou South 500 66 425 445 Wuhan Changsha 500 67 436 456 Wuhan Guangzhou South 1000 68 443 463 Wuhan Guangzhou South 1000 69 447 467 Changsha Guangzhou South 500 70 448 468 Wuhan Changsha 500 71 460 480 Wuhan Guangzhou South 1000 72 474 494 Changsha Guangzhou South 1000 73 479 499 Wuhan Changsha 500 74 484 504 Wuhan Changsha 500 75 489 509 Wuhan Changsha 500 76 490 510 Changsha Guangzhou South 500	62	410	430	Changsha	Guangzhou South	500
65 421 441 Changsha Guangzhou South 500 66 425 445 Wuhan Changsha 500 67 436 456 Wuhan Guangzhou South 1000 68 443 463 Wuhan Guangzhou South 1000 69 447 467 Changsha Guangzhou South 500 70 448 468 Wuhan Changsha 500 71 460 480 Wuhan Guangzhou South 1000 72 474 494 Changsha Guangzhou South 500 73 479 499 Wuhan Guangzhou South 1000 74 484 504 Wuhan Changsha 500 75 489 509 Wuhan Changsha 500 76 490 510 Changsha Guangzhou South 500 77 494 514 Wuhan Changsha 500	63	414	434	Wuhan	Changsha	500
66 425 445 Wuhan Changsha 500 67 436 456 Wuhan Guangzhou South 1000 68 443 463 Wuhan Guangzhou South 500 69 447 467 Changsha Guangzhou South 500 70 448 468 Wuhan Changsha 500 71 460 480 Wuhan Guangzhou South 1000 72 474 494 Changsha Guangzhou South 1000 73 479 499 Wuhan Guangzhou South 1000 74 484 504 Wuhan Changsha 500 75 489 509 Wuhan Changsha 500 76 490 510 Changsha Guangzhou South 500 77 494 514 Wuhan Changsha 500 79 500 520 Changsha Guangzhou South 500	64	420	440	Wuhan	Guangzhou South	1000
67 436 456 Wuhan Guangzhou South 1000 68 443 463 Wuhan Guangzhou South 1000 69 447 467 Changsha Guangzhou South 500 70 448 468 Wuhan Changsha 500 71 460 480 Wuhan Guangzhou South 1000 72 474 494 Changsha Guangzhou South 500 73 479 499 Wuhan Guangzhou South 1000 74 484 504 Wuhan Changsha 500 75 489 509 Wuhan Changsha 500 76 490 510 Changsha Guangzhou South 500 77 494 514 Wuhan Guangzhou South 1000 78 500 520 Wuhan Changsha 500 79 500 520 Changsha Guangzhou South 500	65	421	441	Changsha	Guangzhou South	500
68 443 463 Wuhan Guangzhou South 1000 69 447 467 Changsha Guangzhou South 500 70 448 468 Wuhan Changsha 500 71 460 480 Wuhan Guangzhou South 1000 72 474 494 Changsha Guangzhou South 500 73 479 499 Wuhan Guangzhou South 1000 74 484 504 Wuhan Changsha 500 75 489 509 Wuhan Changsha 500 76 490 510 Changsha Guangzhou South 500 77 494 514 Wuhan Guangzhou South 1000 78 500 520 Wuhan Changsha 500 79 500 520 Changsha Guangzhou South 500 80 505 525 Wuhan Guangzhou South 1000 <	66	425	445	Wuhan	Changsha	500
69 447 467 Changsha Guangzhou South 500 70 448 468 Wuhan Changsha 500 71 460 480 Wuhan Guangzhou South 1000 72 474 494 Changsha Guangzhou South 500 73 479 499 Wuhan Guangzhou South 1000 74 484 504 Wuhan Changsha 500 75 489 509 Wuhan Changsha 500 76 490 510 Changsha Guangzhou South 500 77 494 514 Wuhan Guangzhou South 1000 78 500 520 Wuhan Changsha 500 79 500 520 Changsha Guangzhou South 500 80 505 525 Wuhan Guangzhou South 1000	67	436	456	Wuhan	Guangzhou South	1000
70 448 468 Wuhan Changsha 500 71 460 480 Wuhan Guangzhou South 1000 72 474 494 Changsha Guangzhou South 500 73 479 499 Wuhan Guangzhou South 1000 74 484 504 Wuhan Changsha 500 75 489 509 Wuhan Changsha 500 76 490 510 Changsha Guangzhou South 500 77 494 514 Wuhan Guangzhou South 1000 78 500 520 Wuhan Changsha 500 79 500 520 Changsha Guangzhou South 500 80 505 525 Wuhan Guangzhou South 1000	68	443	463	Wuhan	Guangzhou South	1000
71 460 480 Wuhan Guangzhou South 1000 72 474 494 Changsha Guangzhou South 500 73 479 499 Wuhan Guangzhou South 1000 74 484 504 Wuhan Changsha 500 75 489 509 Wuhan Changsha 500 76 490 510 Changsha Guangzhou South 500 77 494 514 Wuhan Guangzhou South 1000 78 500 520 Wuhan Changsha 500 79 500 520 Changsha Guangzhou South 500 80 505 525 Wuhan Guangzhou South 1000	69	447	467	Changsha	Guangzhou South	500
72 474 494 Changsha Guangzhou South 500 73 479 499 Wuhan Guangzhou South 1000 74 484 504 Wuhan Changsha 500 75 489 509 Wuhan Changsha 500 76 490 510 Changsha Guangzhou South 500 77 494 514 Wuhan Guangzhou South 1000 78 500 520 Wuhan Changsha 500 79 500 520 Changsha Guangzhou South 500 80 505 525 Wuhan Guangzhou South 1000		448		Wuhan	Changsha	
73 479 499 Wuhan Guangzhou South 1000 74 484 504 Wuhan Changsha 500 75 489 509 Wuhan Changsha 500 76 490 510 Changsha Guangzhou South 500 77 494 514 Wuhan Guangzhou South 1000 78 500 520 Wuhan Changsha 500 79 500 520 Changsha Guangzhou South 500 80 505 525 Wuhan Guangzhou South 1000	71	460	480	Wuhan	Guangzhou South	1000
74 484 504 Wuhan Changsha 500 75 489 509 Wuhan Changsha 500 76 490 510 Changsha Guangzhou South 500 77 494 514 Wuhan Guangzhou South 1000 78 500 520 Wuhan Changsha 500 79 500 520 Changsha Guangzhou South 500 80 505 525 Wuhan Guangzhou South 1000	72	474	494	Changsha	Guangzhou South	500
75 489 509 Wuhan Changsha 500 76 490 510 Changsha Guangzhou South 500 77 494 514 Wuhan Guangzhou South 1000 78 500 520 Wuhan Changsha 500 79 500 520 Changsha Guangzhou South 500 80 505 525 Wuhan Guangzhou South 1000	73	479	499	Wuhan	Guangzhou South	1000
76 490 510 Changsha Guangzhou South 500 77 494 514 Wuhan Guangzhou South 1000 78 500 520 Wuhan Changsha 500 79 500 520 Changsha Guangzhou South 500 80 505 525 Wuhan Guangzhou South 1000	74	484	504	Wuhan	Changsha	500
77 494 514 Wuhan Guangzhou South 1000 78 500 520 Wuhan Changsha 500 79 500 520 Changsha Guangzhou South 500 80 505 525 Wuhan Guangzhou South 1000	75	489			Changsha	
78 500 520 Wuhan Changsha 500 79 500 520 Changsha Guangzhou South 500 80 505 525 Wuhan Guangzhou South 1000	76	490	510	_	Guangzhou South	500
79 500 520 Changsha Guangzhou South 500 80 505 525 Wuhan Guangzhou South 1000	77	494	514	Wuhan	=	1000
80 505 525 Wuhan Guangzhou South 1000		500	520	Wuhan	Changsha	500
	79	500	520	Changsha	Guangzhou South	500
01 511 521 W.L. C 1 0 4 1000	80	505	525		Guangzhou South	1000
81 311 331 Wunan Guangzhou South 1000	81	511	531	Wuhan	Guangzhou South	1000
82 529 549 Wuhan Guangzhou South 1000	82	529	549	Wuhan	Guangzhou South	1000

Train	Earliest	Latest	G:	T. 1.	Train
ID	departure times	departure times	Starting station	Ending station	capacity
83	530	550	Changsha	Guangzhou South	500
84	540	560	Changsha	Guangzhou South	500
85	550	570	Wuhan	Guangzhou South	1000
86	555	575	Changsha	Guangzhou South	500
87	560	580	Wuhan	Guangzhou South	1000
88	572	592	Changsha	Guangzhou South	500
89	581	601	Wuhan	Guangzhou South	1000
90	586	606	Wuhan	Guangzhou South	1000
91	591	611	Wuhan	Guangzhou South	1000
92	603	623	Wuhan	Guangzhou South	1000
93	605	625	Changsha	Guangzhou South	500
94	608	628	Wuhan	Guangzhou South	1000
95	613	633	Wuhan	Guangzhou South	1000
96	618	638	Wuhan	Guangzhou South	1000
97	624	644	Wuhan	Guangzhou South	1000
98	629	649	Wuhan	Changsha	500
99	637	657	Wuhan	Changsha	500
100	643	663	Wuhan	Changsha	500
101	644	664	Changsha	Guangzhou South	500
102	648	668	Wuhan	Guangzhou South	1000
103	660	680	Wuhan	Guangzhou South	1000
104	665	685	Wuhan	Guangzhou South	1000
105	667	687	Changsha	Guangzhou South	500
106	677	697	Wuhan	Guangzhou South	1000
107	683	703	Wuhan	Changsha	500
108	688	708	Wuhan	Guangzhou South	1000
109	695	715	Wuhan	Guangzhou South	1000
110	701	721	Wuhan	Guangzhou South	1000
111	708	728	Wuhan	Guangzhou South	1000
112	680	700	Changsha	Guangzhou South	500
113	718	738	Wuhan	Guangzhou South	1000
114	724	744	Wuhan	Guangzhou South	1000
115	732	752	Wuhan	Changsha	500
116	740	760	Changsha	Guangzhou South	500
117	775	795	Changsha	Guangzhou South	500
118	745	765	Wuhan	Guangzhou South	1000
119	750	770	Wuhan	Guangzhou South	1000
120	790	810	Changsha	Guangzhou South	500
121	789	809	Wuhan	Changsha	500
122	799	819	Wuhan	Changsha	500
123	820	845	Changsha	Guangzhou South	500
124	828	848	Changsha	Guangzhou South	500

Train	Earliest	Latest	Starting station	Ending station	Train
ID	departure times	departure times	Starting station	Ending station	capacity
125	850	870	Changsha	Guangzhou South	500
126	843	863	Wuhan	Changsha	500
127	860	880	Changsha	Guangzhou South	500
128	859	879	Wuhan	Changsha	500
129	670	690	Changsha	Guangzhou South	500
130	865	885	Wuhan	Changsha	500
131	879	899	Wuhan	Changsha	500