House

January 2, 2019

0.0.1 House Prices

```
In [22]: #On importe les bibliothèques nécessaires
         import pandas as pd
         import numpy as np
         import seaborn as sns
         import matplotlib
         import matplotlib.pyplot as plt
         from scipy.stats import skew
         from scipy.stats.stats import pearsonr
         from IPython.display import display
         %config InlineBackend.figure_format = 'png' #set 'png' here when working on notebook
         %matplotlib inline
In [23]: #On importe nos données d'entrainement et de test.
         train = pd.read_csv("train.csv")
         test = pd.read_csv("test.csv")
         #Afficher toutes les colonnes
         pd.options.display.max_columns = None
In [24]: train.head()
Out [24]:
            Ιd
                MSSubClass MSZoning
                                      LotFrontage
                                                    LotArea Street Alley LotShape
         0
             1
                         60
                                  RL
                                              65.0
                                                       8450
                                                               Pave
                                                                      NaN
                                                                                Reg
             2
                         20
                                              80.0
         1
                                  RL
                                                       9600
                                                               Pave
                                                                      NaN
                                                                                Reg
         2
             3
                         60
                                  RL
                                              68.0
                                                      11250
                                                               Pave
                                                                      NaN
                                                                                IR1
                                              60.0
         3
             4
                         70
                                  R.T.
                                                       9550
                                                               Pave
                                                                      NaN
                                                                                TR.1
             5
                         60
                                  RL
                                              84.0
                                                      14260
                                                               Pave
                                                                      NaN
                                                                               IR1
           LandContour Utilities LotConfig LandSlope Neighborhood Condition1 \
                                     Inside
                                                   Gtl
         0
                   Lvl
                           AllPub
                                                             CollgCr
                                                                           Norm
                   Lvl
                           AllPub
                                        FR2
                                                   Gtl
                                                             Veenker
                                                                          Feedr
         1
                           AllPub
         2
                   Lvl
                                     Inside
                                                   Gtl
                                                             CollgCr
                                                                           Norm
         3
                   Lvl
                           AllPub
                                     Corner
                                                   Gtl
                                                             Crawfor
                                                                           Norm
                           AllPub
                   Lvl
                                        FR2
                                                   Gtl
                                                             NoRidge
                                                                           Norm
```

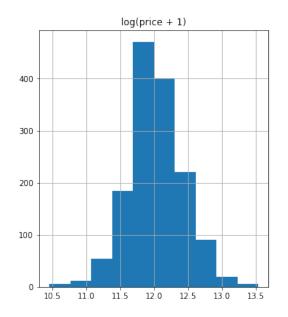
	Condition2 Blo	dgType House	eStyle	OverallQual	Overal	.lCond Ye	earBuilt	\	
0	Norm	1Fam 2	2Story	7		5	2003		
1	Norm	1Fam	1Story	6		8	1976		
2	Norm	1Fam 2	2Story	7		5	2001		
3	Norm	1Fam 2	2Story	7		5	1915		
4	Norm	1Fam 2	2Story	8		5	2000		
	${\tt YearRemodAdd}$	RoofStyle H	RoofMatl	Exterior1st	Exteri	or2nd Mas	sVnrType	\	
0	2003	Gable	CompShg	y VinylSo	l Vi	nylSd	${\tt BrkFace}$		
1	1976	Gable	CompShg	•	l Me	talSd	None		
2	2002	Gable	CompShg	y VinylSo		nylSd	${\tt BrkFace}$		
3	1970	Gable	CompShg		g Wd	Shng	None		
4	2000	Gable	CompShg	y VinylSo	l Vi	nylSd	BrkFace		
	MasVnrArea Ex						_		\
0	196.0	Gd	TA	PConc	Gd			No	
1	0.0	TA	TA	CBlock	Gd			Gd	
2	162.0	Gd	TA	PConc	Gd			Mn	
3	0.0	TA	TA	${\tt BrkTil}$	TA			No	
4	350.0	Gd	TA	PConc	Gd	l T	A	Av	
	BsmtFinType1		BsmtFin	Type2 BsmtI		BsmtUnfSl			\
0	GLQ	706		Unf	0	150		856	
1	ALQ	978		Unf	0	284		1262	
2	GLQ	486		Unf	0	434		920	
3	ALQ	216		Unf	0	540		756	
4	GLQ	655		Unf	0	490)	1145	
_	Heating Heating	_				2ndFlrSF	LowQual		\
0	GasA	Ex	Y	SBrkr	856	854		0	
1	GasA	Ex	Y	SBrkr	1262	0		0	
2	GasA	Ex	Y	SBrkr	920	866		0	
3	GasA	Gd	Y	SBrkr	961	756		0	
4	GasA	Ex	Y	SBrkr	1145	1053		0	
	a		ъ	3.CD . 1	D . 1 . 1		D 1 4	1 0	,
^		smtFullBath	BsmtHa			alfBath	BedroomA		\
0	1710	1		0	2	1		3	
1	1262	0		1	2	0		3	
2	1786	1		0	2	1		3	
3	1717	1		0	1	0		3	
4	2198	1		0	2	1		4	
	77.1 1 41 6	W. 1 0 -		A1 G 1 E			ъ.		
^	KitchenAbvGr	•		sAbvGrd Fund		Firepla	ces Firep		
0	1	Go		8	Тур		0	NaN	
1	1	TA		6	Тур		1	TA	
2	1	Go		6	Тур		1	TA	
3	1	Go	1	7	Тур		1	Gd	1

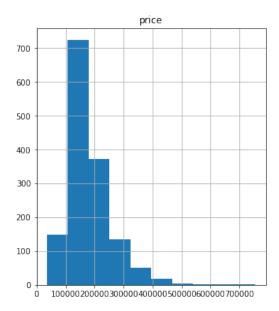
4		1	Gd		9	T	ур	1		TA
	GarageType	GarageYrBlt	Garage	eFinish	n Gar	ageCars	Garage	Area Gar	ageOnal	\
0	Attchd	2003.0	_	RFr		2		548	TA	•
1	Attchd	1976.0		RFr		2		460	TA	
2	Attchd	2001.0		RFr		2		608	TA	
3	Detchd	1998.0		Uni		3		642	TA	
4	Attchd	2000.0		RFr		3		836	TA	
	Q Q 1	D 1D	11 ID	-1-QE (D D -	l- OT	7 1) l		. \
0	GarageCond		WoodDed		JpenPo		Enclosed		SsnPorch	
0	TA TA	Y		0		61		0	(
1		Y		298		0		0	(
2 3	TA	Y		0		42		0	(
4	TA TA	Y Y		0		35 84		272	(
4	1 A	I		192		84		0	(,
	ScreenPord	h PoolArea	PoolQC	Fence	MiscF	'eature	${\tt MiscVal}$	MoSold	YrSolo	i \
0		0 0	NaN	NaN		NaN	0	2	2008	3
1		0 0	NaN	NaN		NaN	0	5	2007	7
2		0 0	NaN	NaN		NaN	0	S	2008	3
3		0 0	NaN	NaN		NaN	0	2	2006	3
4		0 0	NaN	NaN		NaN	0	12	2008	3
	SaleTune Sa	leCondition	SalePi	rice						
0	WD	Normal		3500						
1	WD	Normal		1500						
2	WD	Normal		3500						
3	WD	Abnorml		0000						
4	WD	Normal		0000						
-	,,,,	Normar	200							
In [25]: te	est.head()									
Out[25]:	Id MSSu	ıbClass MSZon	ing Lo	otFront	age	LotArea	Street A	Allev Lo	tShape	\
0	1461	20	RH		30.0	11622	Pave	NaN	Reg	•
1	1462	20	RL		31.0	14267		NaN	IR1	
2	1463	60	RL		74.0	13830	Pave	NaN	IR1	
3	1464	60	RL	7	78.0	9978	Pave	NaN	IR1	
4	1465	120	RL		13.0	5005	Pave	NaN	IR1	
		Utilities L		_	_	_				
0	Lvl		Insid		Gtl		NAmes	Feed		
1	Lvl		Corne		Gt1		NAmes	Nor		
2	Lvl		Insid		Gtl		ilbert	Nor		
3	Lvl		Insid		Gtl		ilbert	Nor		
4	HLS	AllPub	Insid	1e	Gtl	. S1	toneBr	Nor	m.	
	Condition2	BldgType Hou	seStyle	e Ovei	rallQu	al Ove	rallCond	YearBu	ilt \	
0	Norm	1Fam	1Story		-	5	6		961	

```
1
         Norm
                   1Fam
                             1Story
                                                 6
                                                                6
                                                                         1958
2
         Norm
                   1Fam
                             2Story
                                                 5
                                                                5
                                                                         1997
3
                                                                         1998
         Norm
                   1Fam
                             2Story
                                                 6
                                                                6
4
                 TwnhsE
                             1Story
                                                 8
                                                                5
                                                                         1992
         Norm
   YearRemodAdd RoofStyle RoofMatl Exterior1st Exterior2nd MasVnrType
                      Gable
0
            1961
                              CompShg
                                            VinylSd
                                                         VinylSd
            1958
                                            Wd Sdng
1
                         Hip
                              CompShg
                                                         Wd Sdng
                                                                      BrkFace
2
            1998
                      Gable
                                           VinylSd
                                                         VinylSd
                                                                         None
                              CompShg
            1998
                      Gable
                                                                      BrkFace
3
                              CompShg
                                            VinylSd
                                                         VinylSd
4
            1992
                              CompShg
                                            HdBoard
                                                         HdBoard
                      Gable
                                                                         None
   MasVnrArea ExterQual ExterCond Foundation BsmtQual BsmtCond BsmtExposure
0
           0.0
                       TA
                                   TA
                                          CBlock
                                                                   TA
                                                         TA
                                                                                  No
         108.0
                       TA
                                   ΤA
                                           CBlock
                                                         TA
                                                                   ΤA
1
                                                                                  No
2
                       TΑ
                                           PConc
           0.0
                                   TA
                                                         Gd
                                                                   TA
                                                                                  No
3
          20.0
                       TA
                                   TA
                                            PConc
                                                         TΑ
                                                                   TA
                                                                                  No
           0.0
                       Gd
                                   ΤA
                                            PConc
                                                         Gd
                                                                   TA
                                                                                  No
  BsmtFinType1
                 BsmtFinSF1 BsmtFinType2
                                              BsmtFinSF2
                                                           BsmtUnfSF
                                                                        TotalBsmtSF
0
            Rec
                       468.0
                                        LwQ
                                                    144.0
                                                                270.0
                                                                               882.0
1
            ALQ
                       923.0
                                        Unf
                                                      0.0
                                                                406.0
                                                                              1329.0
2
            GLQ
                       791.0
                                        Unf
                                                      0.0
                                                                137.0
                                                                               928.0
3
            GLQ
                       602.0
                                        Unf
                                                      0.0
                                                                324.0
                                                                               926.0
                                                      0.0
4
            ALQ
                       263.0
                                        Unf
                                                               1017.0
                                                                              1280.0
  Heating HeatingQC CentralAir Electrical
                                               1stFlrSF
                                                           2ndFlrSF
                                                                       LowQualFinSF
     GasA
                                Y
                                                                   0
0
                   TA
                                        SBrkr
                                                      896
                                                                                   0
                   TΑ
                                Y
                                                                   0
                                                                                   0
1
     GasA
                                        SBrkr
                                                     1329
2
     GasA
                   Gd
                                Y
                                        SBrkr
                                                      928
                                                                 701
                                                                                   0
                                Y
3
     GasA
                   Ex
                                        SBrkr
                                                      926
                                                                 678
                                                                                   0
4
     GasA
                   Ex
                                Y
                                        SBrkr
                                                     1280
   GrLivArea
               BsmtFullBath
                               BsmtHalfBath FullBath
                                                          HalfBath
                                                                      BedroomAbvGr
0
          896
                          0.0
                                         0.0
                                                       1
                                                                  0
                                                                                  2
1
                                                       1
                                                                                  3
         1329
                          0.0
                                         0.0
                                                                  1
2
                                                       2
                                                                                  3
         1629
                          0.0
                                         0.0
                                                                  1
3
         1604
                          0.0
                                         0.0
                                                       2
                                                                  1
                                                                                  3
                                                       2
                                                                                  2
4
         1280
                          0.0
                                         0.0
                                                                  0
                                TotRmsAbvGrd Functional Fireplaces FireplaceQu
   KitchenAbvGr KitchenQual
0
               1
                                             5
                                                                       0
                                                                                  NaN
                            TA
                                                       Тур
1
               1
                            Gd
                                             6
                                                       Тур
                                                                       0
                                                                                  NaN
2
               1
                            TA
                                             6
                                                                                   TA
                                                       Тур
                                                                       1
3
                            Gd
                                             7
               1
                                                                       1
                                                                                   Gd
                                                       Тур
4
                                                                       0
               1
                            Gd
                                                       Тур
                                                                                  NaN
```

GarageType GarageYrBlt GarageFinish GarageCars GarageArea GarageQual \

```
0
                Attchd
                              1961.0
                                                Unf
                                                             1.0
                                                                        730.0
                                                                                       TA
         1
                Attchd
                              1958.0
                                               Unf
                                                             1.0
                                                                        312.0
                                                                                       TΑ
         2
                Attchd
                              1997.0
                                               Fin
                                                             2.0
                                                                       482.0
                                                                                       TA
         3
                Attchd
                              1998.0
                                               Fin
                                                             2.0
                                                                       470.0
                                                                                       TA
         4
                                               RFn
                                                             2.0
                                                                        506.0
                                                                                       TA
                Attchd
                              1992.0
                                                                EnclosedPorch
            GarageCond PavedDrive
                                    WoodDeckSF
                                                  OpenPorchSF
                                                                                3SsnPorch
         0
                    TA
                                 Y
                                            140
                                                             0
                                                                                         0
         1
                    TA
                                 Y
                                            393
                                                            36
                                                                             0
                                                                                         0
         2
                    ТΑ
                                 Y
                                            212
                                                            34
                                                                             0
                                                                                         0
         3
                    TA
                                 Y
                                            360
                                                            36
                                                                             0
                                                                                         0
         4
                    TA
                                 Y
                                              0
                                                            82
                                                                             0
                                                                                         0
                           PoolArea PoolQC
             ScreenPorch
                                             Fence MiscFeature
                                                                  MiscVal
                                                                            MoSold
                                                                                    YrSold
         0
                     120
                                   0
                                        NaN
                                             MnPrv
                                                                                 6
                                                                                       2010
                                                             NaN
                                                                         0
                                                                    12500
                                                                                 6
         1
                       0
                                  0
                                        NaN
                                               NaN
                                                            Gar2
                                                                                       2010
         2
                        0
                                   0
                                        NaN
                                             MnPrv
                                                             NaN
                                                                         0
                                                                                 3
                                                                                       2010
         3
                                   0
                                                                         0
                                                                                 6
                        0
                                        NaN
                                               NaN
                                                             NaN
                                                                                       2010
         4
                     144
                                   0
                                        NaN
                                               NaN
                                                             NaN
                                                                         0
                                                                                 1
                                                                                       2010
            SaleType SaleCondition
         0
                  WD
                             Normal
                             Normal
         1
                  WD
         2
                             Normal
                  WD
         3
                  WD
                             Normal
         4
                  WD
                             Normal
In [26]: #On concatene es données d'entrainement et de test
         all_data = pd.concat((train.loc[:,'MSSubClass':'SaleCondition'],
                                 test.loc[:,'MSSubClass':'SaleCondition']))
In [27]: matplotlib.rcParams['figure.figsize'] = (12.0, 6.0)
         prices = pd.DataFrame({"price":train["SalePrice"], "log(price + 1)":np.log1p(train["SalePrice"])
         prices.hist()
Out[27]: array([[<matplotlib.axes._subplots.AxesSubplot object at 0x7fbbd93b7a20>,
                  <matplotlib.axes._subplots.AxesSubplot object at 0x7fbbd935b2b0>]],
                dtype=object)
```





5

5

1965

```
In [28]: #log transform the target:
         train["SalePrice"] = np.log1p(train["SalePrice"])
         #log transform skewed numeric features:
         numeric_feats = all_data.dtypes[all_data.dtypes != "object"].index
         skewed_feats = train[numeric_feats].apply(lambda x: skew(x.dropna())) #compute skewne
         skewed_feats = skewed_feats[skewed_feats > 0.75]
         skewed_feats = skewed_feats.index
         all_data[skewed_feats] = np.log1p(all_data[skewed_feats])
In [29]: all_data = pd.get_dummies(all_data)
In [30]: all_data
Out [30]:
               MSSubClass
                          LotFrontage
                                            LotArea
                                                     OverallQual
                                                                   OverallCond
                                                                                YearBuilt
                               4.189655
                                           9.042040
                                                                                      2003
         0
                 4.110874
                                                                7
                                                                              5
         1
                 3.044522
                               4.394449
                                           9.169623
                                                                6
                                                                              8
                                                                                      1976
         2
                               4.234107
                                                                7
                                                                              5
                 4.110874
                                           9.328212
                                                                                      2001
                                                                7
                                                                              5
         3
                 4.262680
                               4.110874
                                           9.164401
                                                                                      1915
         4
                 4.110874
                               4.442651
                                           9.565284
                                                                8
                                                                              5
                                                                                      2000
         5
                 3.931826
                               4.454347
                                           9.555064
                                                                5
                                                                              5
                                                                                      1993
         6
                 3.044522
                               4.330733
                                           9.218804
                                                                8
                                                                              5
                                                                                      2004
         7
                                           9.247925
                                                                7
                                                                              6
                 4.110874
                                    NaN
                                                                                      1973
                                                                7
         8
                 3.931826
                               3.951244
                                           8.719481
                                                                              5
                                                                                      1931
                                           8.912069
         9
                 5.252273
                               3.931826
                                                                5
                                                                              6
                                                                                      1939
```

9.323758

4.262680

10

3.044522

11	4.110874	4.454347	9.386392	9	5	2005
12	3.044522	NaN	9.470317	5	6	1962
13	3.044522	4.521789	9.273597	7	5	2006
14	3.044522	NaN	9.298443	6	5	1960
15	3.828641	3.951244	8.719481	7	8	1929
16	3.044522	NaN	9.327412	6	7	1970
17	4.510860	4.290459	9.286560	4	5	1967
18	3.044522	4.204693	9.524859	5	5	2004
19	3.044522	4.262680	8.930759	5	6	1958
20	4.110874	4.624973	9.562123	8	5	2005
21	3.828641	4.060443	8.915969	7	7	1930
22	3.044522	4.330733	9.184304	8	5	2002
23	4.795791	3.806662	8.348775	5	7	1976
24	3.044522	NaN	9.017605	5	8	1968
25	3.044522	4.709530	9.563178	8	5	2007
26	3.044522	4.110874	8.881975	5	7	1951
27	3.044522	4.595120	9.348275	8	5	2007
28	3.044522	3.871201	9.700269	5	6	1957
29	3.433987	4.110874	8.752265	4	6	1927
1429	3.433987	3.931826	8.858084	4	6	1925
1430	3.931826	4.330733	9.111735	6	5	1957
1431	3.433987	4.248495	9.422787	3	5	1945
1432	5.252273	3.931826	9.105091	5	6	1951
1433	3.931826	4.110874	9.050289	3	5	1916
1434	4.795791	3.737670	8.656781	8	5	2005
1435	4.795791	3.806662	8.254009	8	5	2004
1436	3.044522	4.248495	10.068197	6	6	1979
			9.034319		5	1979
1437	4.510860	4.189655	9.034319	6		
1438	3.044522	4.262680		8	5	2001
1439	4.394449	4.948760	9.312987	6	6	1975
1440	3.044522	NaN	10.821836	6	5	1958
1441	3.044522	NaN	8.999496	6	5	2000
1442	3.044522	4.564348	9.519221	8	5	2005
1443	3.044522	4.488636	9.356862	9	5	2005
1444	3.044522	4.836282	10.349807	1	3	1951
1445	4.510860	4.369448	8.856661	7	5	1997
1446	5.081404	3.737670	7.888335	5	6	1977
1447	3.044522	4.077537	9.227492	5	7	1968
1448	4.510860	NaN	9.378985	5	5	1970
1449	5.198497	3.091042	7.293698	4	6	1970
1450	5.081404	3.091042	7.303170	4	4	1972
1451	3.044522	4.394449	9.501890	5	5	1969
1452	5.081404	3.091042	7.335634	4	5	1970
1453	5.081404	3.091042	7.331060	4	5	1970
1454	5.081404	3.091042	7.568896	4	7	1970
1455	5.081404	3.091042	7.546974	4	5	1970
1456	3.044522	5.081404	9.903538	5	7	1960
	0.0-1022	0.001101	2.230000	Ü	•	1000

1457	4.454547	4.143133	9.200091	5	5	1992
1458	4.110874	4.317488	9.172431	7	5	1993
	YearRemodAdd	MasVnrArea	BsmtFinSF1	BsmtFinSF2	BsmtUnfSF	\
0	2003	5.283204	6.561031	0.000000	5.017280	
1	1976	0.000000	6.886532	0.000000	5.652489	
2	2002	5.093750	6.188264	0.000000	6.075346	
3	1970	0.000000	5.379897	0.000000	6.293419	
4	2000	5.860786	6.486161	0.000000	6.196444	
5	1995	0.000000	6.597146	0.000000	4.174387	
6	2005	5.231109	7.222566	0.000000	5.762051	
7	1973	5.484797	6.756932	3.496508	5.379897	
8	1950	0.000000	0.000000	0.000000	6.859615	
9	1950	0.000000	6.747587	0.000000	4.948760	
10	1965	0.000000	6.810142	0.000000	4.905275	
11	2006	5.659482	6.906755	0.000000	5.181784	
12	1962	0.000000	6.603944	0.000000	5.170484	
13	2007	5.726848	0.000000	0.000000	7.309881	
14	1960	5.361292	6.598509	0.000000	6.255750	
15	2001	0.000000	0.000000	0.000000	6.725034	
16	1970	5.198497	6.361302	0.000000	6.056784	
17	1967	0.000000	0.000000	0.000000	0.00000	
18	2004	0.000000	6.472346	0.000000	6.150603	
19	1965	0.000000	6.224558	0.00000	6.265301	
20	2006	5.942799	0.000000	0.000000	7.055313	
21	1950	0.000000	0.000000	0.000000	6.458338	
22	2002	5.641907	0.000000	0.000000	7.483244	
23	1976	0.000000	6.734592	0.000000	5.303305	
24	2001	0.000000	5.241747	6.505784	5.323010	
25	2007	6.463029	0.000000	0.000000	7.356918	
26	2000	0.000000	5.459586	6.188264	5.198497	
27	2008	5.303305	7.105786	0.000000	6.188264	
28	1997	0.000000	7.153052	0.000000	5.337538	
29	1950	0.000000	0.000000	0.000000	6.255750	
1429	1950	0.000000	0.000000	0.000000	6.464588	
1430	1957	5.793014	0.000000	0.000000	6.875232	
1431	1950	0.000000	0.000000	0.000000	0.000000	
1432	1951	0.000000	0.000000	0.000000	6.493754	
1433	1950	0.000000	0.000000	0.000000	5.379897	
1434	2006	6.161207	7.361375	0.000000	0.000000	
1435	2005	5.231109	7.355641	0.000000	3.433987	
1436	1979	0.000000	6.655440	0.000000	6.745236	
1437	1978	0.000000	0.000000	0.000000	7.417580	
1438	2001	0.000000	0.00000	0.00000	7.307873	
1439	1975	5.552960	6.357842	0.000000	6.315358	
1440	1958	0.000000	6.813445	0.000000	6.584791	
1441	2000	0.000000	7.036148	4.762174	4.867534	
1441	2000	0.00000	1.030140	7.102114	4.007004	

1457 4.454347 4.143135 9.253591

1442	2006	5.29330	7.20	8600	0.0000	00 5.9375	36	
1443	2006	5.94803	35 7.28	3448	0.00000	00 5.9506	43	
1444	1951	0.00000	0.00	0000	0.00000	0.0000	00	
1445	1997	5.30330	7.12	6087	0.0000	00 3.8286	41	
1446	1977	0.00000	0.00	0000	0.0000	00 5.5797	30	
1447	2003	0.00000		1310	0.0000			
1448	1970	0.00000		0635	0.0000			
1449	1970	0.00000			0.00000			
1450	1972	0.00000		3389	0.00000			
1451	1979	5.27300			5.84354			
1452	1970	0.00000			0.00000			
1453	1970	0.00000			0.00000			
1454	1970	0.00000			0.00000			
1455	1970	0.00000			0.00000			
1456	1996	0.00000			0.00000			
1457	1990	0.00000			0.00000			
1457	1992	4.55387		2002	0.00000			
1450	1994	4.00001	0.03	2002	0.00000	00 5.4764	04	
	TotalBsmtSF	1stFlrSF	2ndFlrSF	LowQı	ıalFinSF	GrLivArea	BsmtFullBath	\
0	6.753438	6.753438	6.751101		0.0	7.444833	1.0	•
1	7.141245	7.141245	0.000000		0.0	7.141245	0.0	
2	6.825460	6.825460	6.765039		0.0	7.488294	1.0	
3	6.629363	6.869014	6.629363		0.0	7.448916	1.0	
4	7.044033	7.044033	6.960348		0.0	7.695758	1.0	
5	6.680855	6.680855	6.340359		0.0	7.217443	1.0	
6	7.430707	7.435438	0.000000		0.0	7.435438	1.0	
7	7.010312	7.010312	6.891626		0.0	7.645398	1.0	
8	6.859615	6.930495	6.624065		0.0	7.481556	0.0	
9	6.899723	6.982863	0.000000		0.0	6.982863	1.0	
10	6.947937	6.947937	0.000000		0.0	6.947937	1.0	
11	7.069874	7.075809	7.041412		0.0	7.751475	1.0	
12	6.816736	6.816736	0.000000		0.0	6.816736	1.0	
13	7.309881	7.309881	0.000000		0.0	7.309881	0.0	
	7.134094		0.000000				1.0	
14 15	6.725034	7.134094 6.751101	0.000000		0.0	7.134094 6.751101		
16	6.912743				0.0		0.0	
		6.912743	0.000000		0.0	6.912743	1.0	
17	0.000000	7.167809	0.000000		0.0	7.167809	0.0	
18	7.016610	7.016610	0.000000		0.0	7.016610	1.0	
19	6.937314	7.200425	0.000000		0.0	7.200425	0.0	
20	7.055313	7.055313	7.105786		0.0	7.773594	0.0	
21	6.458338	7.011214	0.000000		0.0	7.011214	0.0	
22	7.483244	7.493317	0.000000		0.0	7.493317	0.0	
23	6.947937	6.966967	0.000000		0.0	6.966967	1.0	
24	6.966967	6.966967	0.000000		0.0	6.966967	1.0	
25	7.356918	7.378384	0.000000		0.0	7.378384	0.0	
26	6.803505	6.803505	0.000000		0.0	6.803505	0.0	
27	7.441320	7.441320	0.000000		0.0	7.441320	1.0	
28	7.303170	7.378384	0.000000		0.0	7.378384	1.0	

	0.200.00	0.200.00			0.200.00		
1.400							
1429	6.464588	6.464588	0.000000 6.510258	0.0	6.464588		0.0
1430 1431	6.875232 0.000000	6.875232 6.593045	0.000000	0.0	7.401842 6.593045		0.0
1431	6.493754	6.966967	5.820083	0.0	7.242082		0.0
1433	5.379897	6.357842	5.888878		6.842683		0.0
				0.0			
1434 1435	7.361375	7.483807	0.000000	0.0	7.483807		2.0
	7.374629	7.406711	0.000000	0.0	7.406711		1.0
1436	7.393878	7.393878		0.0	7.393878		0.0
1437	7.417580	7.417580	0.000000	0.0	7.417580		0.0
1438	7.307873	7.307873	0.000000	0.0	7.307873		0.0
1439	7.029088	7.099202	0.000000	0.0	7.099202		1.0
1440	7.398174	7.409136	0.000000	0.0	7.409136		1.0
1441	7.231287	7.247081	0.000000	0.0	7.247081		1.0
1442	7.455298	7.581210	0.000000	0.0	7.581210		1.0
1443	7.516977	7.516977	0.000000	0.0	7.516977		1.0
1444	0.000000	7.378384	0.000000	0.0	7.378384		0.0
1445	7.161622	7.221836	0.000000	0.0	7.221836		2.0
1446	5.579730	6.424869	6.535241	0.0	7.173958		0.0
1447	6.762730	6.774224	0.000000	0.0	6.774224		1.0
1448	7.410347	7.410347	0.000000	0.0	7.410347		0.0
1449	6.447306	6.447306	0.000000	0.0	6.447306		1.0
1450	6.304449	6.304449	6.304449	0.0	6.996681		0.0
1451	7.007601	7.215975	0.000000	0.0	7.215975		1.0
1452	6.304449	6.304449	6.304449	0.0	6.996681		0.0
1453	6.304449	6.304449	6.304449	0.0	6.996681		0.0
1454	6.304449	6.304449	6.304449	0.0	6.996681		0.0
1455	6.304449	6.304449	6.304449	0.0	6.996681		0.0
1456	7.110696	7.110696	0.000000	0.0	7.110696		1.0
1457	6.816736	6.878326	0.000000	0.0	6.878326		0.0
1458	6.904751	6.904751	6.912743	0.0	7.601402		0.0
	BsmtHalfBath	FullBath	${\tt HalfBath}$	${\tt BedroomAbvGr}$	KitchenAbvGr	\	
0	0.000000	2	1	3	0.693147		
1	0.693147	2	0	3	0.693147		
2	0.000000	2	1	3	0.693147		
3	0.000000	1	0	3	0.693147		
4	0.000000	2	1	4	0.693147		
5	0.000000	1	1	1	0.693147		
6	0.000000	2	0	3	0.693147		
7	0.000000	2	1	3	0.693147		
8	0.000000	2	0	2	1.098612		
9	0.000000	1	0	2	1.098612		
10	0.000000	1	0	3	0.693147		
11	0.000000	3	0	4	0.693147		
12	0.000000	1	0	2	0.693147		
13	0.000000	2	0	3	0.693147		
		-	· ·	<u> </u>	1.00011		

0.0 6.255750

0.0

29

6.255750 6.255750 0.000000

4.4	0 000000	4	4	0	0 000447
14	0.00000	1	1	2	0.693147
15	0.000000	1	0	2	0.693147
16	0.000000	1	0	2	0.693147
17	0.000000	2	0	2	1.098612
18	0.000000	1	1	3	0.693147
19	0.000000	1	0	3	0.693147
20	0.000000	3	1	4	0.693147
					0.693147
21	0.000000	1	0	3	
22	0.000000	2	0	3	0.693147
23	0.000000	1	0	3	0.693147
24	0.000000	1	0	3	0.693147
25	0.000000	2	0	3	0.693147
26	0.693147	1	0	3	0.693147
27	0.000000	2	0	3	0.693147
28	0.000000	1	0	2	0.693147
29		1	0	1	
29	0.000000	1	U	1	0.693147
		• • •			
1429	0.000000	1	0	2	0.693147
1430	0.00000	2	0	4	0.693147
1431	0.000000	1	0	2	0.693147
1432	0.000000	2	0	4	1.098612
1433	0.000000	1	0	2	0.693147
1434	0.000000	2	0	2	0.693147
1435	0.693147	2	0	2	0.693147
1436	0.693147	2	0	3	0.693147
1437	0.000000	2	0	4	1.098612
1438	0.000000	2	0	3	0.693147
1439	0.000000	2	0	3	0.693147
1440	0.000000	1	0	2	0.693147
1441	0.000000	2	0	2	0.693147
1442	0.000000	2	0	3	0.693147
1443	0.000000	2	0	3	0.693147
1444	0.00000	1	1	3	0.693147
1445	0.000000	2	0	2	1.098612
1446	0.000000			3	0.693147
		1	1		
1447	0.00000	1	0	3	0.693147
1448	0.000000	2	0	4	1.098612
1449	0.000000	1	0	1	0.693147
1450	0.000000	1	1	3	0.693147
1451	0.000000	1	0	3	0.693147
1452	0.000000	1	1	3	0.693147
1453	0.000000	1	1	3	0.693147
1454	0.000000	1	1	3	0.693147
	0.000000	1	1	3	0.693147
1455					
1456	0.000000	1	0	4	0.693147
1457	0.693147	1	0	3	0.693147
1458	0.000000	2	1	3	0.693147

	TotRmsAbvGrd	Fireplaces	GarageYrBlt	GarageCars	GarageArea	\
0	8	0	2003.0	2.0	548.0	
1	6	1	1976.0	2.0	460.0	
2	6	1	2001.0	2.0	608.0	
3	7	1	1998.0	3.0	642.0	
4	9	1	2000.0	3.0	836.0	
5	5	0	1993.0	2.0	480.0	
6	7	1	2004.0	2.0	636.0	
7	7	2	1973.0	2.0	484.0	
8	8	2	1931.0	2.0	468.0	
9	5	2	1939.0	1.0	205.0	
10	5	0	1965.0	1.0	384.0	
11	11	2	2005.0	3.0	736.0	
12	4	0	1962.0	1.0	352.0	
13	7	1	2006.0	3.0	840.0	
14	5	1	1960.0	1.0	352.0	
15	5	0	1991.0	2.0	576.0	
16	5	1	1970.0	2.0	480.0	
17	6	0	1967.0	2.0	516.0	
18	6	0	2004.0	2.0	576.0	
19	6	0	1958.0	1.0	294.0	
20	9	1	2005.0	3.0	853.0	
21	6	1	1930.0	1.0	280.0	
22	7	1	2002.0	2.0	534.0	
23	6	1	1976.0	2.0	572.0	
24	6	1	1968.0	1.0	270.0	
25	7	1	2007.0	3.0	890.0	
26	5	0	2005.0	2.0	576.0	
27	7	1	2008.0	3.0	772.0	
28	6	2	1957.0	1.0	319.0	
29	4	0	1920.0	1.0	240.0	
1429	4	0	1925.0	1.0	272.0	
1430	6	0	1957.0	1.0	384.0	
1431	5	0	NaN	0.0	0.0	
1432	8	0	NaN	0.0	0.0	
1433	6	0	NaN	0.0	0.0	
1434	5	1	2005.0	2.0	495.0	
1435	5	1	2004.0	2.0	525.0	
1436	6	1	1979.0	2.0	576.0	
1437	10	0	1978.0	2.0	616.0	
1438	7	0	2001.0	2.0	490.0	
1439	6	0	1975.0	2.0	528.0	
1440	6	2	1958.0	2.0	518.0	
1441	5	0	2000.0	2.0	470.0	
1442	8	2	2005.0	3.0	714.0	
1443	9	1	2005.0	3.0	682.0	
1444	6	0	1951.0	1.0	270.0	

1445		8 0	1997.0	4.0	784.0	
1446		5 1	1977.0	1.0	336.0	
1447		5 0	1968.0	1.0	288.0	
1448		8 0	1970.0	3.0	928.0	
1449		3 0	NaN	0.0	0.0	
1450		5 0	1972.0	1.0	253.0	
1451		8 1	1969.0	1.0	336.0	
1452		5 0	1970.0	1.0	286.0	
1453		5 0	NaN	0.0	0.0	
1454		5 0	NaN	0.0	0.0	
1455		6 0	1970.0	1.0	286.0	
1456		7 1	1960.0	2.0	576.0	
1457		6 0	NaN	0.0	0.0	
1458		9 1	1993.0	3.0	650.0	
	WoodDeckSF	OpenPorchSF	${\tt EnclosedPorch}$	3SsnPorch	ScreenPorch	\
0	0.000000	4.127134	0.000000	0.000000	0.000000	
1	5.700444	0.000000	0.000000	0.000000	0.000000	
2	0.000000	3.761200	0.000000	0.000000	0.000000	
3	0.000000	3.583519	5.609472	0.000000	0.000000	
4	5.262690	4.442651	0.000000	0.000000	0.000000	
5	3.713572	3.433987	0.000000	5.771441	0.000000	
6	5.545177	4.060443	0.000000	0.000000	0.000000	
7	5.463832	5.323010	5.433722	0.000000	0.000000	
8	4.510860	0.000000	5.327876	0.000000	0.000000	
9	0.000000	1.609438	0.000000	0.000000	0.000000	
10	0.000000	0.000000	0.000000	0.000000	0.000000	
11	4.997212	3.091042	0.000000	0.000000	0.000000	
12	4.948760	0.000000	0.000000	0.000000	5.176150	
13	5.081404	3.526361	0.000000	0.000000	0.000000	
14	0.000000	5.365976	5.176150	0.000000	0.000000	
15	3.891820	4.727388	0.000000	0.000000	0.000000	
16	0.000000	0.000000	0.000000	0.000000	0.000000	
17	0.000000	0.000000	0.000000	0.000000	0.000000	
18	0.000000	4.634729	0.000000	0.000000	0.000000	
19	0.000000	0.000000	0.000000	0.000000	0.000000	
20	5.484797	5.043425	0.000000	0.000000	0.000000	
21	0.000000	0.000000	5.327876	0.000000	0.000000	
22	5.147494	5.075174	0.000000	0.000000	0.000000	
23	4.615121	4.709530	0.000000	0.000000	0.000000	
24	6.008813	4.510860	0.000000	0.000000	0.000000	
25	0.000000	4.043051	0.000000	0.000000	0.000000	
26	5.407172	3.496508	0.000000	0.000000	0.000000	
27	0.000000	3.931826	0.000000	0.000000	0.000000	
28	5.666427	5.556828	0.000000	0.000000	0.000000	
29	3.912023	0.000000	4.477337	0.000000	0.000000	
					• • •	
1429	5.220356	0.000000	4.262680	0.000000	0.000000	

1430	0.00000	3.09	1042	0.000	000	0.000000	0.000000	
1431	0.000000	0.00	0000	3.178	054	0.00000	0.000000	
1432	0.000000	0.00	0000	0.000	000	0.00000	0.000000	
1433	0.000000	0.00	0000	0.000	000	0.00000	0.000000	
1434	4.820282	2 3.98	8984	0.000	000	0.00000	5.036953	
1435	4.859812	2 3.98	8984	0.000	000	0.00000	5.049856	
1436	4.919983	1 3.36	7296	0.000	000	0.00000	0.000000	
1437	0.000000	0.00	0000	0.000	000	0.00000	0.000000	
1438	4.795791	1 4.61	5121	0.000	000	0.00000	0.000000	
1439	0.000000	0.00	0000	0.000	000	0.00000	0.000000	
1440	0.000000	0.00	0000	0.000	000	0.00000	4.934474	
1441	0.000000	5.15	9055	0.000	000	0.00000	0.000000	
1442	5.153292	2 3.66	3562	0.000	000	0.00000	0.000000	
1443	5.087596	5.42	0535	0.000	000	0.00000	0.000000	
1444	0.000000	0.00	0000	4.912	655	0.00000	0.000000	
1445	0.000000	3.89	1820	0.000	000	0.00000	0.000000	
1446	4.955827	7 0.00	0000	0.000	000	0.00000	0.000000	
1447	0.000000	4.79	5791	0.000	000	0.00000	0.000000	
1448	0.000000	0.00	0000	0.000	000	0.00000	0.000000	
1449	0.000000	0.00	0000	0.000	000	0.00000	0.000000	
1450	0.000000	0.00	0000	0.000	000	0.00000	0.000000	
1451	5.081404	1 0.00	0000	0.000	000	0.00000	0.000000	
1452	0.000000	0.00	0000	0.000	000	0.00000	0.000000	
1453	0.000000	3.55	5348	0.000	000	0.00000	0.000000	
1454	0.000000	0.00	0000	0.000	000	0.00000	0.000000	
1455	0.000000	3.21	8876	0.000	000	0.00000	0.000000	
1456	6.163315	5 0.00	0000	0.000	000	0.00000	0.000000	
1457	4.394449	3.49	6508	0.000	000	0.00000	0.000000	
1458	5.252273	3.89	1820	0.000	000	0.00000	0.000000	
	PoolArea	MiscVal	MoSold	YrSold	MSZ	oning_C (all)	${ t MSZoning_FV}$	\
0	0.0	0.000000	2	2008		0	0	
1	0.0	0.000000	5	2007		0	0	
2	0.0	0.000000	9	2008		0	0	
3	0.0	0.000000	2	2006		0	0	
4	0.0	0.000000	12	2008		0	0	
5	0.0	6.552508	10	2009		0	0	
6	0.0	0.000000	8	2007		0	0	
7	0.0	5.860786	11	2009		0	0	
8	0.0	0.000000	4	2008		0	0	
9	0.0	0.000000	1	2008		0	0	
10	0.0	0.000000	2	2008		0	0	
11	0.0	0.000000	7	2006		0	0	
12	0.0	0.000000	9	2008		0	0	
13	0.0	0.000000	8	2007		0	0	
14	0.0	0.000000	5	2008		0	0	
15	0.0	0.000000	7	2007		0	0	
16	0.0	6.552508	3	2010		0	0	

17	0.0	6.216606	10	2006		0	0
18	0.0	0.00000	6	2008		0	0
19	0.0	0.000000	5	2009		0	0
20	0.0	0.00000	11	2006		0	0
21	0.0	0.00000	6	2007		0	0
22	0.0	0.000000	9	2008		0	0
23	0.0	0.000000	6	2007		0	0
24	0.0	0.000000	5	2010		0	0
25	0.0	0.000000	7	2009		0	0
26	0.0	0.000000	5	2010		0	0
27	0.0	0.000000	5	2010		0	0
28	0.0	0.000000	12	2006		0	0
29	0.0	0.000000	5	2008		0	0
1429	0.0	0.000000	3	2006		0	0
1430	0.0	0.000000	4	2006		0	0
1431	0.0	0.000000	10	2006		1	0
1432	0.0	0.000000	10	2006		1	0
1433	0.0	0.000000	4	2006		1	0
1434	0.0	0.000000	2	2006		0	0
1435	0.0	0.000000	12	2006		0	0
1436	0.0	0.000000	9	2006		0	0
1437	0.0	0.000000	10	2006		0	0
1438	0.0	0.000000	5	2006		0	0
1439	0.0	0.000000	5	2006		0	0
1440	0.0	0.000000	3	2006		0	0
1441	0.0	0.000000	10	2006		0	0
1442	0.0	0.000000	11	2006		0	0
1443	0.0	0.000000	9	2006		0	0
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1445	0.0	0.000000	11	2006		0	0
1446	0.0	0.000000	5	2006		0	0
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1449	0.0	0.000000	4	2006		0	0
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1451	0.0	0.000000	5	2006		0	0
1452	0.0	0.000000	12	2006		0	0
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1455	0.0	0.000000	4	2006		0	0
1456	0.0	0.000000	9	2006		0	0
1457	0.0	6.552508	7	2006		0	0
1458	0.0	0.000000	11	2006		0	0
		DII WCZ :	D	NG . 5	a	a	
0	MSZoning_		U -	SZoning_RM	Street_Grvl	Street_Pave	\
0		0	1	0	0	1	
1		0	1	0	0	1	

2	0	1	0	0	1
3	0	1	0	0	1
	0	1	0	0	
4					1
5	0	1	0	0	1
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7	0	1	0	0	1
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			1		1
9	0	1	0	0	1
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1448	0		1 0		1
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	Alley_Grvl		LotShape_IR1		
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27	0	0	0	0	0
28	0	0	1	0	0
29	0	0	1	0	0
		• • •	•••		•••
1429	0	0	0	0	0
1430	0	0	0	0	0
1431	0	0	0	0	0
1432	0	0	0	0	0
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1/157	0	0	0	0	0
1457	U	O	•	•	•
1457	0	0	0	0	0
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1458	0 LotShape_Reg	0 LandContour_Bnk	0 LandContour_HLS	0 LandCont	0 our_Low \
1458	0 LotShape_Reg 1	0 LandContour_Bnk 0	0 LandContour_HLS	0 LandCont	O our_Low \ O
1458 0 1	0 LotShape_Reg 1 1	0 LandContour_Bnk 0 0	0 LandContour_HLS 0	0 LandCont	0 our_Low \ 0 0
1458 0 1 2	0 LotShape_Reg 1 1 0	0 LandContour_Bnk 0 0 0	0 LandContour_HLS 0 0	0 LandCont	0 our_Low \ 0 0 0
1458 0 1 2 3	O LotShape_Reg 1 1 0 0	0 LandContour_Bnk 0 0 0 0	O LandContour_HLS 0 0 0 0	0 LandCont	0 our_Low \ 0 0 0 0 0
1458 0 1 2 3 4	0 LotShape_Reg 1 1 0 0	O LandContour_Bnk 0 0 0 0 0	O LandContour_HLS 0 0 0 0 0	0 LandCont	0 our_Low \ 0 0 0 0 0 0
1458 0 1 2 3 4 5	0 LotShape_Reg 1 1 0 0 0	O LandContour_Bnk 0 0 0 0 0 0 0	O LandContour_HLS 0 0 0 0 0 0	0 LandCont	0 our_Low \ 0 0 0 0 0 0 0 0
1458 0 1 2 3 4 5 6	0 LotShape_Reg 1 1 0 0 0 0	O LandContour_Bnk 0 0 0 0 0 0 0 0 0	O LandContour_HLS 0 0 0 0 0 0 0 0 0 0	0 LandCont	0 our_Low \ 0 0 0 0 0 0 0 0 0 0
1458 0 1 2 3 4 5 6 7	0 LotShape_Reg 1 1 0 0 0 0 1	0 LandContour_Bnk 0 0 0 0 0 0 0 0 0 0	O LandContour_HLS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 LandCont	0 cour_Low \ 0 0 0 0 0 0 0 0 0 0 0
1458 0 1 2 3 4 5 6 7 8	0 LotShape_Reg 1 1 0 0 0 1 0 1 1	0 LandContour_Bnk 0 0 0 0 0 0 0 0 0 0 0 0	O LandContour_HLS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 LandCont	0 our_Low \ 0 0 0 0 0 0 0 0 0 0 0 0 0
1458 0 1 2 3 4 5 6 7 8 9	0 LotShape_Reg 1 1 0 0 0 1 0 1 1 1	0 LandContour_Bnk 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O LandContour_HLS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 LandCont	0 cour_Low \ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1458 0 1 2 3 4 5 6 7 8 9 10	0 LotShape_Reg 1 1 0 0 0 1 1 1 1 1 1 1 1 1	0 LandContour_Bnk 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O LandContour_HLS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 LandCont	0 cour_Low \ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1458 0 1 2 3 4 5 6 7 8 9 10 11	0 LotShape_Reg 1 1 0 0 0 1 1 1 1 1 1 0	0 LandContour_Bnk 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O LandContour_HLS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 LandCont	0 our_Low \ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1458 0 1 2 3 4 5 6 7 8 9 10 11 12	0 LotShape_Reg 1 1 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0	0 LandContour_Bnk 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O LandContour_HLS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 LandCont	0 cour_Low \ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13	0 LotShape_Reg 1 1 0 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0	0 LandContour_Bnk 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 LandContour_HLS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 LandCont	0 cour_Low \ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	0 LotShape_Reg 1 1 0 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0	0 LandContour_Bnk 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 LandContour_HLS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 LandCont	0 our_Low \ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0 LotShape_Reg 1 1 0 0 0 1 0 1 1 1 0 0 0 1 1 1 1 1 0 0 0 1	0 LandContour_Bnk 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 LandContour_HLS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O	0 our_Low \ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0 LotShape_Reg 1 1 0 0 0 0 1 1 1 0 0 0 1 1 1 0 0 1 1 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	O LandContour_Bnk 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 LandContour_HLS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 LandCont	O cour_Low \ 0
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	0 LotShape_Reg 1 1 0 0 0 0 1 1 1 1 0 0 1 1 1 1 1 0 0 1 1 1 1 1 1 1 0 0 1	O LandContour_Bnk 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 LandContour_HLS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 LandCont	O cour_Low \ 0
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0 LotShape_Reg 1 1 0 0 0 0 1 1 1 0 0 0 1 1 1 0 0 1 1 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	O LandContour_Bnk 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 LandContour_HLS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 LandCont	O cour_Low \ 0

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	• • •	• • •	•••	• • •	
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	1				
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1456	1	0	0	0	
1457	1	0	0	0	
1458	1	0	0	0	
		***************************************		T . G . A G	
0			Utilities_NoSeWa		\
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	-	-	· ·	•
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29 	1	1	0	0
29 1429	1 1	1 1	0 0	0 0
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29 1429 1430 1431 1432	1 1 1 1	1 1 1 1	0 0 0 0	0 0 0 0
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29 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439	1 1 1 1 0 0 0 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0
29 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440	1 1 1 1 0 0 0 1 1 1 1 1 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0
29 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441	1 1 1 1 0 0 0 1 1 1 1 0 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0 0 0 0 0 0 0 0 0 0
29 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442	1 1 1 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0 0 0 0 0 0 0 0 0 0 0
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29 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446	1 1 1 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0 0
29 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447	1 1 1 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0 0
29 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447 1448	1 1 1 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0
29 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447	1 1 1 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0 0

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	LotConfig_CulDSac				\
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1438 0 0 0 0 1449 0 0 0 0 1440 0 0 0 1 1441 0 0 0 0 1442 0 0 0 0 1443 0 0 0 1 1444 0 0 0 1 1445 0 0 0 1 1446 0 0 0 1 1447 0 0 0 1 1448 0 0 0 0 1449 0 0 0 0 1449 0 0 0 1 1450 0 0 0 1 1451 0 0 0 1 1452 0 0 0 1 1453 0 0 0 1 1454 0 0 0 1 1455 0 0 0 1	1438 0 0 0 1439 0 0 0 1440 0 0 0 1441 0 0 0 1442 0 0 0 1443 0 0 0 1444 0 0 0 1445 0 0 0 1446 0 0 0 1447 0 0 0 1448 0 0 0 1449 0 0 0 1450 0 0 0 1451 0 0 0 1452 0 0 0 1453 0 0 0 1454 0 0 0 1455 0 0 0 1456 0 0 0 1457 0 0 0
1439 0 0 0 0 0 1440 0 0 0 0 1 1441 0 0 0 0 1 1442 0 0 0 0 1 1443 0 0 0 0 1 1444 0 0 0 0 1 1445 0 0 0 0 1 1446 0 0 0 0 1 1447 0 0 0 0 1 1448 0 0 0 0 1 1449 0 0 0 0 1 1450 0 0 0 1 1451 0 0 0 1 1452 0 0 0 1 1453 0 0 0 1 1454 0 0 0 1 1455 0 0 0 1 1456	1439 0 0 0 1440 0 0 0 1441 0 0 0 1442 0 0 0 1443 0 0 0 1444 0 0 0 1445 0 0 0 1446 0 0 0 1447 0 0 0 1448 0 0 0 1449 0 0 0 1450 0 0 0 1451 0 0 0 1452 0 0 0 1453 0 0 0 1454 0 0 0 1455 0 0 0 1456 0 0 0 1457 0 0 0
1440 0 0 0 1 1441 0 0 0 1 1442 0 0 0 0 1443 0 0 0 1 1444 0 0 0 1 1445 0 0 0 1 1446 0 0 0 1 1447 0 0 0 1 1448 0 0 0 0 1449 0 0 0 0 1450 0 0 0 1 1451 0 0 0 1 1452 0 0 0 1 1453 0 0 0 1 1454 0 0 0 1 1455 0 0 0 1 1456 0 0 0 1 1457 0 0 0 0 1458 0 0 0 0	1440 0 0 0 1441 0 0 0 1442 0 0 0 1443 0 0 0 1444 0 0 0 1445 0 0 0 1446 0 0 0 1447 0 0 0 1448 0 0 0 1449 0 0 0 1450 0 0 0 1451 0 0 0 1452 0 0 0 1453 0 0 0 1454 0 0 0 1455 0 0 0 1456 0 0 0 1457 0 0 0
1441 0 0 0 0 1442 0 0 0 0 1443 0 0 0 1 1444 0 0 0 1 1445 0 0 0 1 1446 0 0 0 1 1447 0 0 0 1 1448 0 0 0 0 1449 0 0 0 0 1450 0 0 0 1 1451 0 0 0 1 1452 0 0 0 1 1453 0 0 0 1 1454 0 0 0 1 1455 0 0 0 1 1456 0 0 0 1 1457 0 0 0 0 1458 0 0 0 0 1458 0 0 0 0	1441 0 0 0 1442 0 0 0 1443 0 0 0 1444 0 0 0 1445 0 0 0 1446 0 0 0 1447 0 0 0 1448 0 0 0 1449 0 0 0 1450 0 0 0 1451 0 0 0 1452 0 0 0 1453 0 0 0 1454 0 0 0 1455 0 0 0 1456 0 0 0 1457 0 0 0
1441 0 0 0 0 1442 0 0 0 0 1443 0 0 0 1 1444 0 0 0 1 1445 0 0 0 1 1446 0 0 0 1 1447 0 0 0 1 1448 0 0 0 0 1449 0 0 0 0 1450 0 0 0 1 1451 0 0 0 1 1452 0 0 0 1 1453 0 0 0 1 1454 0 0 0 1 1455 0 0 0 1 1456 0 0 0 1 1457 0 0 0 0 1458 0 0 0 0 1458 0 0 0 0	1441 0 0 0 1442 0 0 0 1443 0 0 0 1444 0 0 0 1445 0 0 0 1446 0 0 0 1447 0 0 0 1448 0 0 0 1449 0 0 0 1450 0 0 0 1451 0 0 0 1452 0 0 0 1453 0 0 0 1454 0 0 0 1455 0 0 0 1456 0 0 0 1457 0 0 0
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1444 0 0 0 1 1445 0 0 0 1 1446 0 0 0 1 1447 0 0 0 1 1448 0 0 0 0 1449 0 0 0 0 1450 0 0 0 1 1451 0 0 0 1 1452 0 0 0 1 1453 0 0 0 1 1454 0 0 0 1 1455 0 0 0 1 1456 0 0 0 1 1457 0 0 0 1 1458 0 0 0 0 LandSlope_Gt1 LandSlope_Mod LandSlope_Sev Neighborhood_Blmngtn	1444 0 0 0 1445 0 0 0 1446 0 0 0 1447 0 0 0 1448 0 0 0 1449 0 0 0 1450 0 0 0 1451 0 0 0 1452 0 0 0 1453 0 0 0 1454 0 0 0 1455 0 0 0 1456 0 0 0 1457 0 0 0
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1448 0 0 0 0 1449 0 0 0 1 1450 0 0 0 1 1451 0 0 0 1 1452 0 0 0 1 1453 0 0 0 1 1454 0 0 0 1 1455 0 0 0 1 1456 0 0 0 1 1457 0 0 0 1 1458 0 0 0 0 LandSlope_Gttl LandSlope_Mod LandSlope_Sev Neighborhood_Blmngtn	1448 0 0 0 1449 0 0 0 1450 0 0 0 1451 0 0 0 1452 0 0 0 1453 0 0 0 1454 0 0 0 1455 0 0 0 1456 0 0 0 1457 0 0 0
1449 0 0 0 1 1450 0 0 0 1 1451 0 0 0 1 1452 0 0 0 1 1453 0 0 0 1 1454 0 0 0 1 1455 0 0 0 1 1456 0 0 0 1 1457 0 0 0 1 1458 0 0 0 0 LandSlope_Gtl LandSlope_Mod LandSlope_Sev Neighborhood_Blmngtn	1449 0 0 0 1450 0 0 0 1451 0 0 0 1452 0 0 0 1453 0 0 0 1454 0 0 0 1455 0 0 0 1456 0 0 0 1457 0 0 0
1450 0 0 0 1 1451 0 0 0 1 1452 0 0 0 1 1453 0 0 0 1 1454 0 0 0 1 1455 0 0 0 1 1456 0 0 0 1 1457 0 0 0 1 1458 0 0 0 0 1 LandSlope_Gttl LandSlope_Mod LandSlope_Sev Neighborhood_Blmngtn	1450 0 0 0 1451 0 0 0 1452 0 0 0 1453 0 0 0 1454 0 0 0 1455 0 0 0 1456 0 0 0 1457 0 0 0
1451 0 0 0 1 1452 0 0 0 1 1453 0 0 0 1 1454 0 0 0 1 1455 0 0 0 1 1456 0 0 0 1 1457 0 0 0 1 1458 0 0 0 0 1 LandSlope_Gt1 LandSlope_Mod LandSlope_Sev Neighborhood_Blmngtn	1451 0 0 0 1452 0 0 0 1453 0 0 0 1454 0 0 0 1455 0 0 0 1456 0 0 0 1457 0 0 0
1452 0 0 0 1 1453 0 0 0 1 1454 0 0 0 1 1455 0 0 0 1 1456 0 0 0 1 1457 0 0 0 1 1458 0 0 0 0 1 LandSlope_Gtl LandSlope_Mod LandSlope_Sev Neighborhood_Blmngtn	1452 0 0 0 1453 0 0 0 1454 0 0 0 1455 0 0 0 1456 0 0 0 1457 0 0 0
1453 0 0 0 1 1454 0 0 0 1 1455 0 0 0 1 1456 0 0 0 1 1457 0 0 0 1 1458 0 0 0 0 1 LandSlope_Gtl LandSlope_Mod LandSlope_Sev Neighborhood_Blmngtn	1453 0 0 0 1454 0 0 0 1455 0 0 0 1456 0 0 0 1457 0 0 0
1454 0 0 0 1 1455 0 0 0 1 1456 0 0 0 1 1457 0 0 0 1 1458 0 0 0 1 LandSlope_Gt1 LandSlope_Mod LandSlope_Sev Neighborhood_Blmngtn	1454 0 0 0 1455 0 0 0 1456 0 0 0 1457 0 0 0
1455 0 0 0 1 1456 0 0 0 1 1457 0 0 0 1 1458 0 0 0 1 LandSlope_Gt1 LandSlope_Mod LandSlope_Sev Neighborhood_Blmngtn	1455 0 0 0 1456 0 0 0 1457 0 0 0
1455 0 0 0 1 1456 0 0 0 1 1457 0 0 0 1 1458 0 0 0 1 LandSlope_Gt1 LandSlope_Mod LandSlope_Sev Neighborhood_Blmngtn	1455 0 0 0 1456 0 0 0 1457 0 0 0
1456 0 0 0 1 1457 0 0 0 1 1458 0 0 0 1 LandSlope_Gtl LandSlope_Mod LandSlope_Sev Neighborhood_Blmngtn	1456 0 0 0 1457 0 0 0
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LandSlope_Gtl LandSlope_Mod LandSlope_Sev Neighborhood_Blmngtn	1400
	InndClana C+l InndClana Mad InndClana Cov. Naighborhead Plana
	1 0 0
	1 1 0 0 2 1 0 0
	1 1 0 0 2 1 0 0 3 1 0 0
	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0
	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0 5 1 0 0
	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0 5 1 0 0 6 1 0 0
6 1 0 0 0 7 1 0 0 0	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0 5 1 0 0 6 1 0 0
	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0 5 1 0 0 6 1 0 0 7 1 0 0
7 1 0 0 0	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0 5 1 0 0 6 1 0 0 7 1 0 0 8 1 0 0
7 1 0 0 0 0 8 1 0 0 0	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0 5 1 0 0 6 1 0 0 7 1 0 0 8 1 0 0 9 1 0 0
7 1 0 0 0 8 1 0 0 0 9 1 0 0 0 10 1 0 0 0	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0 5 1 0 0 6 1 0 0 7 1 0 0 8 1 0 0 9 1 0 0 10 1 0 0
7 1 0 0 0 8 1 0 0 0 9 1 0 0 0 10 1 0 0 0 11 1 0 0 0	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0 5 1 0 0 6 1 0 0 7 1 0 0 8 1 0 0 9 1 0 0 10 1 0 0 11 1 0 0
7 1 0 0 0 8 1 0 0 0 9 1 0 0 0 10 1 0 0 0 11 1 0 0 0 12 1 0 0 0	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0 5 1 0 0 6 1 0 0 7 1 0 0 8 1 0 0 9 1 0 0 10 1 0 0 11 1 0 0 12 1 0 0
7 1 0 0 0 8 1 0 0 0 9 1 0 0 0 10 1 0 0 0 11 1 0 0 0 12 1 0 0 0 13 1 0 0 0	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0 5 1 0 0 6 1 0 0 7 1 0 0 8 1 0 0 9 1 0 0 10 1 0 0 11 1 0 0 12 1 0 0 13 1 0 0
7 1 0 0 0 8 1 0 0 0 9 1 0 0 0 10 1 0 0 0 11 1 0 0 0 12 1 0 0 0 13 1 0 0 0 14 1 0 0 0	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0 5 1 0 0 6 1 0 0 7 1 0 0 8 1 0 0 9 1 0 0 10 1 0 0 11 1 0 0 12 1 0 0 13 1 0 0 14 1 0 0
7 1 0 0 0 8 1 0 0 0 9 1 0 0 0 10 1 0 0 0 11 1 0 0 0 12 1 0 0 0 13 1 0 0 0 14 1 0 0 0 15 1 0 0 0	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0 5 1 0 0 6 1 0 0 7 1 0 0 8 1 0 0 9 1 0 0 10 1 0 0 11 1 0 0 12 1 0 0 13 1 0 0 14 1 0 0 15 1 0 0
7 1 0 0 0 8 1 0 0 0 9 1 0 0 0 10 1 0 0 0 11 1 0 0 0 12 1 0 0 0 13 1 0 0 0 14 1 0 0 0 15 1 0 0 0 16 1 0 0 0	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0 5 1 0 0 6 1 0 0 7 1 0 0 8 1 0 0 9 1 0 0 10 1 0 0 11 1 0 0 12 1 0 0 13 1 0 0 14 1 0 0 15 1 0 0 16 1 0 0
7 1 0 0 0 8 1 0 0 0 9 1 0 0 0 10 1 0 0 0 11 1 0 0 0 12 1 0 0 0 13 1 0 0 0 14 1 0 0 0 15 1 0 0 0 16 1 0 0 0 17 1 0 0 0	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0 5 1 0 0 6 1 0 0 7 1 0 0 8 1 0 0 9 1 0 0 10 1 0 0 11 1 0 0 12 1 0 0 13 1 0 0 14 1 0 0 15 1 0 0 16 1 0 0 17 1 0 0
7 1 0 0 0 8 1 0 0 0 9 1 0 0 0 10 1 0 0 0 11 1 0 0 0 12 1 0 0 0 13 1 0 0 0 14 1 0 0 0 15 1 0 0 0 16 1 0 0 0 17 1 0 0 0 18 1 0 0 0	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0 5 1 0 0 6 1 0 0 7 1 0 0 8 1 0 0 9 1 0 0 10 1 0 0 11 1 0 0 12 1 0 0 13 1 0 0 14 1 0 0 15 1 0 0 16 1 0 0 17 1 0 0 18 1 0 0
7 1 0 0 0 8 1 0 0 0 9 1 0 0 0 10 1 0 0 0 11 1 0 0 0 12 1 0 0 0 13 1 0 0 0 14 1 0 0 0 15 1 0 0 0 16 1 0 0 0 17 1 0 0 0 18 1 0 0 0 19 1 0 0 0	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0 5 1 0 0 6 1 0 0 7 1 0 0 8 1 0 0 9 1 0 0 10 1 0 0 11 1 0 0 12 1 0 0 13 1 0 0 14 1 0 0 15 1 0 0 16 1 0 0 17 1 0 0 18 1 0 0 19 1 0 0
7 1 0 0 0 8 1 0 0 0 9 1 0 0 0 10 1 0 0 0 11 1 0 0 0 12 1 0 0 0 13 1 0 0 0 14 1 0 0 0 15 1 0 0 0 16 1 0 0 0 17 1 0 0 0 18 1 0 0 0 19 1 0 0 0 20 1 0 0 0	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0 5 1 0 0 6 1 0 0 7 1 0 0 8 1 0 0 9 1 0 0 10 1 0 0 11 1 0 0 12 1 0 0 13 1 0 0 14 1 0 0 15 1 0 0 16 1 0 0 17 1 0 0 18 1 0 0 19 1 0 0 20 1 0 0
7 1 0 0 0 8 1 0 0 0 9 1 0 0 0 10 1 0 0 0 11 1 0 0 0 12 1 0 0 0 13 1 0 0 0 14 1 0 0 0 15 1 0 0 0 16 1 0 0 0 17 1 0 0 0 18 1 0 0 0 19 1 0 0 0	1 1 0 0 2 1 0 0 3 1 0 0 4 1 0 0 5 1 0 0 6 1 0 0 7 1 0 0 8 1 0 0 9 1 0 0 10 1 0 0 11 1 0 0 12 1 0 0 13 1 0 0 14 1 0 0 15 1 0 0 16 1 0 0 17 1 0 0 18 1 0 0 20 1 0 0 21 1 0 0

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28	1	0	0	0
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	• • •	• • •		
1429	1	0	0	0
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1431	1	0	0	0
1432	1	0	0	0
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1458	0	1	0	0
	Neighborhood_Blueste	Neighborhood	l_BrDale Neighbor	hood_BrkSide \
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1	0		0	0
2	0		0	0
3	0		0	0
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7	0		0	0

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24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	1
• • •	• • •	• • •	• • •
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
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	Neighborhood_ClearCr	Neighborhood_CollgCr	${\tt Neighborhood_Crawfor}$	\
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2	0	1	0	
3	0	0	1	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	0	0	
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21	0	0	0	
22 23	0	1 0	0	
23 24	0	0	0	
25	0	0	0	
26	0	0	0	
27	0	0	0	
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•	Neighborhood_Edwards	Neighborhood_Gilbert	Neighborhood_IDOTRR \
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2	0	0	0
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4 5	0	0	0
4 5 6	0 0 0	0 0 0	0 0 0
4 5 6 7	0 0 0 0	0 0 0 0	0 0 0 0
4 5 6 7 8	0 0 0 0	0 0 0 0	0 0 0 0 0
4 5 6 7 8 9	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
4 5 6 7 8 9	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0
4 5 6 7 8 9 10	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0
4 5 6 7 8 9 10 11 12	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0
4 5 6 7 8 9 10 11 12 13	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
4 5 6 7 8 9 10 11 12 13 14	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
4 5 6 7 8 9 10 11 12 13 14 15	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0
4 5 6 7 8 9 10 11 12 13 14	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
4 5 6 7 8 9 10 11 12 13 14 15 16	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0
4 5 6 7 8 9 10 11 12 13 14 15 16 17	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	0 0 0 0 0 0 0 0 0 0		
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19			
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20			
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
	• • •	• • •	• • •
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1453	0	0	0
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1458	0	0	0
1100	Ŭ	O .	0
	Neighborhood_MeadowV	Neighborhood_Mitchel	Neighborhood_NAmes \
0	0	0	, o
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	1	0
6	0	0	0
7	0	0	0
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24	0	0	0
25	0	0	0
26	0	0	1
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28	0	0	1
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• • •			
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1457 1458	0	1 1	0
	Neighborhood_NPkVill		Neighborhood_NoRidge \
0	0	Neighborhood_wwmes	/ egginou_boomrodigiew 0
1	0	0	0
2	0	0	0
3	0	0	0
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1441	0	0	0
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1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
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1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0
1400	Ŭ	O	O
	Neighborhood_NridgHt	Neighborhood_OldTown	Neighborhood SWISH \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	1	0
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13			
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17			0
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23	0	0	0
24	0	0	0
25	1	0	0
26	0	0	0
27	1	0	0
28	0	0	0

29	0	0	0	
	•••	•••	• • •	
1429	0	0	0	
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1432	0	0	0	
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1434 1435	0	0	0	
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1442	0	0	0	
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1458	0	0	0	
	Neighborhood_Sawyer	Neighborhood_SawyerW	Neighborhood_Somerst \	
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3	0	0	0	
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12	1	0	0	
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22	0	0	0
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25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
1400	• • •		
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433 1434	0	0	0
1435	0 0	0	0
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1437	0	0	0
1438	0	0	0
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1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0
1400	O	J	U

			Neighborhood_Veenker \
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1	0	0	1
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
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1440	0	1	0
1440	0	1	0
1441	0	1	0
1442	0	1	0
1443	0	0	0
1444	0	0	U

1445		0	0	0	
1446		0	0	0	
1447		0	0	0	
1448		0	0	0	
1449		0	0	0	
1450		0	0	0	
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1454		0	0	0	
1455		0	0	0	
1456					
		0	0	0	
1457		0	0	0	
1458		0	0	0	
	Condition 1 Amtoni	Condition1 Foods	Condition 1 Norm	Condition 1 DogA	`
0	Condition1_Artery				\
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2	0	0	1	0	
3	0	0	1	0	
4	0	0	1	0	
5	0	0	1	0	
6	0	0	1	0	
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9	1	0	0	0	
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13	0	0	1	0	
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19	0	0	1	0	
20	0	0	1	0	
21	0	0	1	0	
22	0	0	1	0	
23	0	0	1	0	
24	0	0	1	0	
25					
25 26	0	0	1	0	
	0		1	0	
27	0	0	1	0	
28	0	0	1	0	
29	0	1	0	0	
	•••	•••	• • •	•••	
1429	0	0	1	0	

1430		0	0	1	0
1431		0	1	0	0
1432		0	0	1	0
1433		0	0	1	0
1434		0	0	1	0
1435		0	0	1	0
1436		0	0	1	0
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1439		0	0	1	0
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1447		0	0	1	0
1448		0	0	1	0
1449		0	0	1	0
1450		0	0	1	0
1451		0	0	1	0
1452		0	0	1	0
1453		0	0	1	0
1454		0	0	1	0
1455		0	0	1	0
1456		0	0	1	0
1457		0	0	1	0
1458		0	0	1	0
	Condition1_PosN	Condition1_RRAe	Condition1_RRAn	Condition1_RRNe	\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
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13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	

18	17	0	0	0	0
19					
20 0 0 0 0 21 0 0 0 0 23 0 0 0 0 24 0 0 0 0 25 0 0 0 0 26 0 0 0 0 27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 1429 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1438 0 0					
21 0 0 0 0 22 0 0 0 0 24 0 0 0 0 25 0 0 0 0 26 0 0 0 0 27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1434 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0					
22 0 0 0 0 24 0 0 0 25 0 0 0 26 0 0 0 27 0 0 0 28 0 0 0 29 0 0 0 1429 0 0 0 1431 0 0 0 1432 0 0 0 1433 0 0 0 1434 0 0 0 1433 0 0 0 1434 0 0 0 1435 0 0 0 1433 0 0 0 1434 0 0 0 1435 0 0 0 1436 0 0 0 1437 0 0 0 1438 0 0 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
23					
24 0 0 0 0 25 0 0 0 0 27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1435 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1449 0 0 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
25 0 0 0 0 26 0 0 0 0 27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1439 0 0 0 0 1444 0 0 0 0 1444 0 0 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
26 0 0 0 0 27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 1429 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1434 0 0 0 0 1434 0 0 0 0 1434 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1440 0 0 0 0 14440 0					
27 0 0 0 0 29 0 0 0 0 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1439 0 0 0 0 1443 0 0 0 0 1444 0 0 0 0 1442 0 0 0 0 1444 0 0 0 0 1444 0 <					
28 0 0 0 0 1 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1439 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0 1444 0 0 0 0 1444 0					
29 0 0 0 0 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1439 0 0 0 0 1443 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0 1444 0 0 0 0 1444 0 0 0 0 1444 0					
No. No.					
1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1439 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0 1444 0 0 0 0 1444 0 0 0 0 1444 0 0 0 0 1444 0					
1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1439 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0 1443 0 0 0 0 1444 0 0 0 0 1444 0 0 0 0 1444 0 0 0 0 1444 0					
1431					
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1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1449 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0 1443 0 0 0 0 1444 0 0 0 0 1444 0 0 0 0 1445 0 0 0 0 1446 0 0 0 0 1447 0 0 0 0 1448 0 0 0 0 1445 0 0 0 0 1450 0 0 0 0 1451 0					
1435					
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1437 0 0 0 0 1438 0 0 0 0 1449 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0 1443 0 0 0 0 1444 0 0 0 0 1444 0 0 0 0 1445 0 0 0 0 1447 0 0 0 0 1448 0 0 0 0 1449 0 0 0 0 1450 0 0 0 0 1451 0 0 0 0 1452 0 0 0 0 1453 0 0 0 0 1454 0 0 0 0 1455 0					
1438 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0 1443 0 0 0 0 1444 0 0 0 0 1445 0 0 0 0 1446 0 0 0 0 1447 0 0 0 0 1448 0 0 0 0 1449 0 0 0 0 1450 0 0 0 0 1451 0 0 0 0 1452 0 0 0 0 1453 0 0 0 0 1454 0 0 0 0 1455 0 0 0 0 1456 0					
1439					
1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0 1443 0 0 0 0 1444 0 0 0 0 1445 0 0 0 0 1446 0 0 0 0 1447 0 0 0 0 1448 0 0 0 0 1449 0 0 0 0 1450 0 0 0 0 1451 0 0 0 0 1452 0 0 0 0 1453 0 0 0 0 1454 0 0 0 0 1455 0 0 0 0 1456 0 0 0 0 1457 0					
1441 0 0 0 0 1442 0 0 0 0 1443 0 0 0 0 1444 0 0 0 0 1445 0 0 0 0 1446 0 0 0 0 1447 0 0 0 0 1448 0 0 0 0 1449 0 0 0 0 1450 0 0 0 0 1451 0 0 0 0 1452 0 0 0 0 1453 0 0 0 0 1454 0 0 0 0 1455 0 0 0 0 1456 0 0 0 0 1457 0 0 0 0 1458 0					
1442 0 0 0 0 1443 0 0 0 0 1444 0 0 0 0 1445 0 0 0 0 1446 0 0 0 0 1447 0 0 0 0 1448 0 0 0 0 1449 0 0 0 0 1450 0 0 0 0 1451 0 0 0 0 1452 0 0 0 0 1453 0 0 0 0 1454 0 0 0 0 1455 0 0 0 0 1456 0 0 0 0 1457 0 0 0 0 1458 0 0 0 0 0 0					
1443 0 0 0 0 1444 0 0 0 0 1445 0 0 0 0 1446 0 0 0 0 1447 0 0 0 0 1448 0 0 0 0 1449 0 0 0 0 1450 0 0 0 0 1451 0 0 0 0 1452 0 0 0 0 1453 0 0 0 0 1454 0 0 0 0 1455 0 0 0 0 1456 0 0 0 0 1457 0 0 0 0 1458 0 0 0 0 0 0 0 0 0 0 0 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
1444 0 0 0 0 1445 0 0 0 0 1446 0 0 0 0 1447 0 0 0 0 1448 0 0 0 0 1449 0 0 0 0 1450 0 0 0 0 1451 0 0 0 0 1452 0 0 0 0 1453 0 0 0 0 1454 0 0 0 0 1455 0 0 0 0 1457 0 0 0 0 1458 0 0 0 0 1457 0 0 0 0 1458 0 0 0 0 1459 0 0 0 0 1450 0 0 0 0 1450 0 0 0 0					
1445 0 0 0 0 1446 0 0 0 0 1447 0 0 0 0 1448 0 0 0 0 1449 0 0 0 0 1450 0 0 0 0 1451 0 0 0 0 1452 0 0 0 0 1453 0 0 0 0 1454 0 0 0 0 1455 0 0 0 0 1456 0 0 0 0 1457 0 0 0 0 1458 0 0 0 0 1458 0 0 0 0 1458 0 0 0 0 1458 0 0 0 0 0 1458					
1446 0 0 0 0 1447 0 0 0 0 1448 0 0 0 0 1449 0 0 0 0 1450 0 0 0 0 1451 0 0 0 0 1452 0 0 0 0 1453 0 0 0 0 1454 0 0 0 0 1455 0 0 0 0 1456 0 0 0 0 1457 0 0 0 0 1458 0 0 0 0 0 0 0 0 0 1458 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1458 0 0 0 0 0 0 0 0 0					
1447 0 0 0 0 1448 0 0 0 0 1449 0 0 0 0 1450 0 0 0 0 1451 0 0 0 0 1452 0 0 0 0 1453 0 0 0 0 1454 0 0 0 0 1455 0 0 0 0 1456 0 0 0 0 1457 0 0 0 0 1458 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1458 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
1448 0 0 0 0 1449 0 0 0 0 1450 0 0 0 0 1451 0 0 0 0 1452 0 0 0 0 1453 0 0 0 0 1454 0 0 0 0 1455 0 0 0 0 1456 0 0 0 0 1457 0 0 0 0 1458 0 0 0 0 Condition1_RRNn Condition2_Artery Condition2_Feedr Condition2_Norm 0 0 0 0 0					
1449 0 0 0 0 1450 0 0 0 0 1451 0 0 0 0 1452 0 0 0 0 1453 0 0 0 0 1454 0 0 0 0 1455 0 0 0 0 1456 0 0 0 0 1457 0 0 0 0 1458 0 0 0 0 Condition1_RRNn Condition2_Artery Condition2_Feedr Condition2_Norm 0 0 0 0 1					
1450 0 0 0 0 1451 0 0 0 0 1452 0 0 0 0 1453 0 0 0 0 1454 0 0 0 0 1455 0 0 0 0 1456 0 0 0 0 1457 0 0 0 0 1458 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
1451 0 0 0 0 1452 0 0 0 0 1453 0 0 0 0 1454 0 0 0 0 1455 0 0 0 0 1456 0 0 0 0 1457 0 0 0 0 1458 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
1452 0 0 0 0 1453 0 0 0 0 1454 0 0 0 0 1455 0 0 0 0 1456 0 0 0 0 1457 0 0 0 0 1458 0 0 0 0 Condition1_RRNn Condition2_Artery Condition2_Feedr Condition2_Norm 0 0 0 0 1					
1453 0 0 0 0 1454 0 0 0 0 1455 0 0 0 0 1456 0 0 0 0 1457 0 0 0 0 1458 0 0 0 0 Condition1_RRNn Condition2_Artery Condition2_Feedr Condition2_Norm 0 0 0 0 1					
1454 0 0 0 0 1455 0 0 0 0 1456 0 0 0 0 1457 0 0 0 0 1458 0 0 0 0 Condition1_RRNn Condition2_Artery Condition2_Feedr Condition2_Norm 0 0 0 0 1					
1455 0 0 0 0 0 0 1456 0 </td <td></td> <td>0</td> <td></td> <td></td> <td></td>		0			
1456 0 0 0 0 1457 0 0 0 0 1458 0 0 0 0 Condition1_RRNn Condition2_Artery Condition2_Feedr Condition2_Norm 0 0 0 1					
1457 0 0 0 0 1458 0 0 0 0 Condition1_RRNn Condition2_Artery Condition2_Feedr Condition2_Norm 0 0 0 0 1					
1458 0 0 0 0 Condition1_RRNn Condition2_Artery Condition2_Feedr Condition2_Norm 0 0 0 1					
Condition1_RRNn Condition2_Artery Condition2_Feedr Condition2_Norm 0 0 0 0 1					
0 0 0 1		·	-	-	-
		${\tt Condition1_RRNn}$	Condition2_Artery	Condition2_Feedr	${\tt Condition2_Norm}$
1 0 0 1					
	1	0	0	0	1

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6	0	0	0	1
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				1
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25	0	0	0	1
26	0	0	0	1
27	0	0	0	1
	0	0	0	1
28				
29	0	0	0	0
4.400		• • •	•••	• • •
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1430	0	0	0	1
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1446	0	0	0	1
1447	0	0	0	1
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1449	0		0	0	1
1450	0		0	0	1
1451	0		0	0	1
1452	0		0	0	1
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1455	0		0	0	1
1456	0		0	0	1
1457	0		0	0	1
1458	0		0	0	1
	Condition2 PosA	Condition2 PosN	Condition2_RRAe	Condition2 RRAn	\
0	_ 0	- 0	- 0	- 0	
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2	0	0	0	0	
3	0	0	0	0	
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5	0	0	0	0	
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28	0	0	0	0	
29	0	0	0	0	
		• • • •		•••	
1429	0	0	0	0	
1430	0	0	0	0	
1431	0	0	0	0	
1432	0	0	0	0	

1433	0		0	0	0
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1453	0		0	0	0
1454	0		0	0	0
1455	0		0	0	0
1456	0		0	0	0
4 4	^		_	_	^
1457	0		0	0	0
1457 1458	0		0	0	0
	0		0	0	0
1458	0 Condition2_RRNn		<pre>0 BldgType_2fmCon</pre>	O BldgType_Duplex	
1458 0	0 Condition2_RRNn 0	1	<pre>0 BldgType_2fmCon 0</pre>	<pre>0 BldgType_Duplex 0</pre>	0
1458 0 1	0 Condition2_RRNn 0 0	1 1	O BldgType_2fmCon O O	O BldgType_Duplex O O	0
1458 0 1 2	Condition2_RRNn 0 0 0	1 1 1	O BldgType_2fmCon O O O	O BldgType_Duplex O O O	0
1458 0 1 2 3	Condition2_RRNn 0 0 0 0 0	1 1 1	OBldgType_2fmCon O O O O	O BldgType_Duplex O O O O	0
1458 0 1 2 3 4	Condition2_RRNn 0 0 0 0 0 0	1 1 1 1	O BldgType_2fmCon 0 0 0 0 0 0	O BldgType_Duplex O O O O O	0
1458 0 1 2 3 4 5	Condition2_RRNn 0 0 0 0 0 0 0	1 1 1 1 1	O BldgType_2fmCon O O O O O O	O BldgType_Duplex O O O O O O	0
1458 0 1 2 3 4 5 6	0 Condition2_RRNn 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1	BldgType_2fmCon 0 0 0 0 0 0 0 0 0	O BldgType_Duplex O O O O O O O O	0
1458 0 1 2 3 4 5 6 7	O Condition2_RRNn 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 BldgType_2fmCon 0 0 0 0 0 0 0 0 0 0	O BldgType_Duplex O O O O O O O O O O O	0
1458 0 1 2 3 4 5 6 7 8	O Condition2_RRNn 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1	O BldgType_2fmCon 0 0 0 0 0 0 0 0 0 0 0 0	O BldgType_Duplex O O O O O O O O O O O O O O O O O	0
1458 0 1 2 3 4 5 6 7 8 9	O Condition2_RRNn 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 0	0 BldgType_2fmCon 0 0 0 0 0 0 0 0 0 0 1	OBldgType_Duplex OOO OOO OOO OOO OOO OOOO OOOO	0
1458 0 1 2 3 4 5 6 7 8 9 10	O Condition2_RRNn 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 0	0 BldgType_2fmCon 0 0 0 0 0 0 0 0 1	OBldgType_Duplex OOO OOO OOO OOO OOOO OOOO OOOOOOOOOO	0
1458 0 1 2 3 4 5 6 7 8 9 10 11	O Condition2_RRNn 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 0 1	0 BldgType_2fmCon 0 0 0 0 0 0 0 0 1 0 0 0	O BldgType_Duplex	0
1458 0 1 2 3 4 5 6 7 8 9 10 11 12	O Condition2_RRNn 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 0 1 1	0 BldgType_2fmCon 0 0 0 0 0 0 0 0 1 0 0 0 0	O BldgType_Duplex O O O O O O O O O O O O O O O O O O	0
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13	O Condition2_RRNn 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 0 1 1 1	0 BldgType_2fmCon 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0	O BldgType_Duplex 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	O Condition2_RRNn 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 0 1 1 1 1 1	O BldgType_2fmCon	O BldgType_Duplex 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	O Condition2_RRNn 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 0 1 1 1 1 1	0 BldgType_2fmCon 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0	O BldgType_Duplex O O O O O O O O O O O O O O O O O O	0
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	O Condition2_RRNn 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 0 1 1 1 1 1 1	0 BldgType_2fmCon 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0	O BldgType_Duplex 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	O Condition2_RRNn 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1	O BldgType_2fmCon 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0	O BldgType_Duplex 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	O Condition2_RRNn 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 0 1 1 1 1 1 1	0 BldgType_2fmCon 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0	O BldgType_Duplex 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0

	_		_	
20	0	1	0	0
21	0	1	0	0
22	0	1	0	0
23	0	0	0	0
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26	0	1	0	0
27	0	1	0	0
28	0	1	0	0
29		1	0	0
29	1	1	U	O
	• • • •	• • •	• • • •	• • •
1429	0	1	0	0
1430	0	1	0	0
1431	0	1	0	0
1432	0	0	1	0
1433	0	1	0	0
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1454	0	0	0	0
1455	0	0	0	0
1456	0	1	0	0
1457	0		0	0
		1		
1458	0	1	0	0
	D11	D11		T
	BldgType_Twnhs	BldgType_TwnhsE	HouseStyle_1.5Fin	
0	0	0	0	0
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0

5	0	0	1	0
6	0	0	0	0
7	0	0	0	0
8	0	0	1	0
9	0	0	0	1
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23	0	1	0	0
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25	0	0	0	0
26	0	0	0	0
27	0	0	0	0
28	0	0	0	0
29	0	0	0	0
• • •	• • •	• • •	• • •	• • •
1429	0	0	0	0
1430	0	0	1	0
1431	0	0	0	0
1432	0	0	1	0
1433	0	0	1	0
1434	0	1	0	0
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1445	0	0	0	0
1446	0	1	0	0
1447	0	0	0	0
1448	0	0	0	0
1449				
	1	0	0	0
1450	1 0	0 1	0 0	0

1451 1452 1453 1454 1455 1456 1457 1458	0 1 1 1 0 0 0	0 0 0 0 1 0 0	0 0 0 0 0 0
	HouseStyle 1Story	HouseStyle_2.5Fin	HouseStyle_2.5Unf \
0	0	0	0
1	1	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	1	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	1	0	0
11	0	0	0
12 13	1	0	0
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22	1	0	0
23	1	0	0
24	1	0	0
25	1	0	0
26	1	0	0
27 28	1	0	0
29	1	0	0
			• • • •
1429	1	0	0
1430	0	0	0
1431	1	0	0
1432	0	0	0
1433	0	0	0
1434	1	0	0
1435	1	0	0

1436	1	0		0	
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1438	1	0		0	
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1454	0	0		0	
1455	0	0		0	
1456	1	0		0	
1457	0	0		0	
1458	0	0		0	
1 100	v	v			
	HouseStvle 2Storv	HouseStvle SFover	HouseStvle SLvl	RoofStvle Flat \	
0		HouseStyle_SFoyer	HouseStyle_SLvl		
0	1	0	0	0	
1	1 0	0 0	0	0 0	
1 2	1 0 1	0 0 0	0 0 0	0 0 0	
1 2 3	1 0 1 1	0 0 0 0	0 0 0	0 0 0 0	
1 2 3 4	1 0 1 1	0 0 0 0	0 0 0 0	0 0 0 0	
1 2 3 4 5	1 0 1 1 1 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	
1 2 3 4	1 0 1 1 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	
1 2 3 4 5 6 7	1 0 1 1 1 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	
1 2 3 4 5 6 7 8	1 0 1 1 1 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	
1 2 3 4 5 6 7 8	1 0 1 1 1 0 0 0 1 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	
1 2 3 4 5 6 7 8 9 10	1 0 1 1 1 0 0 0 1 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	
1 2 3 4 5 6 7 8 9 10 11	1 0 1 1 1 0 0 0 1 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	
1 2 3 4 5 6 7 8 9 10 11 12	1 0 1 1 1 0 0 0 1 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	
1 2 3 4 5 6 7 8 9 10 11 12 13	1 0 1 1 1 0 0 0 1 0 0 0 1 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	1 0 1 1 1 0 0 0 0 1 0 0 0 1 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1 0 1 1 1 0 0 0 1 0 0 0 1 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0			
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	1 0 1 1 1 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	1 0 1 1 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	1 0 1 1 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	1 0 1 1 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	1 0 1 1 1 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	1 0 1 1 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0				

23		0	0	0	0
24		0	0	0	0
25		0	0	0	0
26		0	0	0	0
27		0	0	0	0
28		0	0	0	0
29		0	0	0	0
				• • •	
1429		0	0	0	0
1430		0	0	0	0
1431		0	0	0	0
1432		0	0	0	0
1433		0	0	0	0
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1443 1444		0	0	0	0
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1446			1	0	0
1447		1	0	0	0
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1452		1	0	0	0
1453		1	0	0	0
1454		1	0	0	0
1455		1	0	0	0
1456		0	0	0	0
1457		0	1	0	0
1458		1	0	0	0
0		RoofStyle_Gambrel		KoofStyle_Man	
0	1	0	0		0
1	1	0	0		0
2	1	0	0		0
3 4	1	0	0		0
4 5	1	0	0		0 0
6	1	0	0		0
7	1	0	0		0
ı	1	0	U		U

8	1	0	0	0
9	1	0	0	0
10	0	0	1	0
11	0	0	1	0
12	0	0	1	0
13	1	0	0	0
14	0	0	1	0
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25	1	0	0	0
26	1	0	0	0
27	1	0	0	0
28	1	0	0	0
29	1	0	0	0
• • •	• • •	• • •	• • •	• • •
1429	1	0	0	0
1430	1	0	0	0
1431	1	0	0	0
1432	1	0	0	0
1433	1	0	0	0
1434	0	0	1	0
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1455	1		0	0	0	
1456	1		0	0	0	
1457	1		0	0	0	
1458	1		0	0	0	
	D £0+] - 0} - 1	D £M - + 1	D £W-+1	Q Q1	D f M - + 7 M 1	,
0	RoofStyle_Shed 0	RoofMatl_ClyTile 0	RoofMatl_		RoofMatl_Membran 0	\
1	0	0		1 1	0	
2	0	0		1	0	
3	0	0		1	0	
4	0	0		1	0	
5	0	0		1	0	
6	0	0		1	0	
7	0	0		1	0	
8	0	0		1	0	
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25	0	0		1	0	
26	0	0		1	0	
27	0	0		1	0	
28	0	0		1	0	
29	0	0		1	0	
	• • •	• • •		• • •		
1429	0	0		1	0	
1430	0	0		1	0	
1431	0	0		1	0	
1432	0	0		1	0	
1433 1434	0	0		1	0	
1434	0	0		1	0	
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1438	0	0		1	0	
1-100	U	O		1	U	

1439	0		0	1	0
1440	0		0	0	0
1441	0		0	1	0
1442	0		0	1	0
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1455	0		0	1	0
1456	0		0	1	0
1457	0			1	
	0		0	1	0
1458	U		U	1	U
	RoofMatl_Metal	RoofMatl_Roll	RoofMatl_Tar&Grv	RoofMatl_WdShake	\
0	0	0	0	0	•
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
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23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
	U	U	U	V	

26	0	0	0	0
27	0	0	0	0
28	0	0	0	0
29	0	0	0	0
	• • •	• • •	• • •	
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1430	0	0	0	0
1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
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1441	0	0	0	0
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1454	0		0	0
		0		
1456	0	0	0	0
1457	0	0	0	0
1458	0	0	0	0
	D 014 . 2 . 11101 2		T	,
		Exterior1st_AsbShng		\
0	0	0	0	
1	0	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	0	0	
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9	0	0	0	
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19	0	0	0
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24	0	0	0
25	0	0	0
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27	0	0	0
28	0	0	0
29	0	0	0
4.400		•••	• • • •
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
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1451	0	0	0
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1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
_ 100	•	•	9

1458	0	0	0
	Exterior1st_BrkComm	Exterior1st_BrkFace	Exterior1st_CBlock \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
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23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
 1429		0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433		0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
	v	· ·	Ŭ

1442	0	0	0
1443	0	0	0
1444	0	0	1
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0
1100	· ·	v	v
	Exterior1st_CemntBd	Exterior1st_HdBoard	<pre>Exterior1st_ImStucc \</pre>
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	1	0
8	0	0	0
9	0	0	0
10	0	1	0
11	0	0	0
12	0	1	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	1	0	0
24	0	0	0
25	0	0	0
26 27	0	0	0
//	^	^	^
28	0	0	0

29	0	0		0
• • •	•••	• • •	• •	• •
1429	0	0		0
1430	0	0		0
1431	0	0		0
1432	0	0		0
1433	0	0		0
1434	1	0		0
1435	1	0		0
1436	0	0		0
1437	0	0		0
1438	0	0		0
1439	0	0		0
1440	0	0		0
1441	0	0		0
1442	0	0		0
1443	0	0		0
1444	0	0		0
1445	0	0		0
1446	1	0		0
1447	0	0		0
1448	0	0		0
1449	1	0		0
1450	1	0		0
1451	0	0		0
1452	1	0		0
1453	1	0		0
1454 1455	1	0		0
1456	0	0		0
1457	0	1		0
1458	0	1		0
1400	O	1		U
^	Exterior1st_MetalSd			\
0	0	0	0	
1	1	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	0	0	
8	0	0	0	
9	1	0	0	
10	0	0	0	
11	0	0	0	
12	0	0	0	
13	0	0	0	

14	1	0	0
15	0	0	0
16	0	0	0
17	1	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	1	0
25	0	0	0
26	0	0	0
27	0	0	0
28	1	0	0
29	1	0	0
• • •	• • •	• • •	• • •
1429	1	0	0
1430	1	0	0
1431	0	0	0
1432	0	0	0
1433	1	0	0
1434	0	0	0
1435	0	0	0
1436	0	1	0
1437	0	1	0
1438	0	0	0
1439	0	1	0
1440	0	1	0
1441 1442	0	0	0
	0	0	0
1443	0 0	0 0	0
1444			0
1445 1446	1 0	0	0
1446	0	1	0
1447	0	1	0
1449	0	0	0
1449	0	0	0
1450	0	1	
			0
1452 1453	0	0	0
1453 1454	0	0	0
		0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0

	Exterior1st_Stucco	Exterior1st_VinylSd	Exterior1st_Wd	Sdng	\
0	0	1		0	
1	0	0		0	
2	0	1		0	
3	0	0		1	
4	0	1		0	
5	0	1		0	
6	0	1		0	
7	0	0		0	
8	0	0		0	
9	0	0		0	
10	0	0		0	
11	0	0		0	
12 13	0	0 1		0	
14	0	0		0	
15	0	0		1	
16	0	0		1	
17	0	0		0	
18	0	1		0	
19	0	0		0	
20	0	1		0	
21	0	0		1	
22	0	1		0	
23	0	0		0	
24	0	0		0	
25	0	1		0	
26	0	0		1	
27	0	1		0	
28	0	0		0	
29	0	0		0	
1400				• • •	
1429 1430	0	0		0	
1431	0	0		1	
1432	0	0		0	
1433	0	0		0	
1434	0	0		0	
1435	0	0		0	
1436	0	0		0	
1437	0	0		0	
1438	0	1		0	
1439	0	0		0	
1440	0	0		0	
1441	0	1		0	
1442	0	1		0	
1443	0	1		0	
1444	0	0		0	

1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	1	0
1457	0	0	0
1458	0	0	0
	Exterior1st_WdShing	Exterior2nd_AsbShng	Exterior2nd_AsphShn \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0
11	1	0	0
12 13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
			• • •
1429	0	0	0

1430	0	0	0
1431	0	0	0
1432	1	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0
	Exterior2nd_Brk Cmn	Exterior2nd_BrkFace	<pre>Exterior2nd_CBlock \</pre>
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0

4 17		2	•
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	0
1457	0	0	0
1458	0	0	0
	Exterior2nd CmentBd	Exterior2nd_HdBoard	Exterior2nd ImStucc \
0	0	0	0
1	0	0	0
_	U	U	· ·

2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	1	0
8	0	0	0
9	0	0	0
10	0	1	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	1	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
• • •	• • •	• • •	
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	1	0	0
1435	1	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	0
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	1	0	0
1447	0	0	0

1448	0		0	0
1449	1		0	0
1450	1		0	0
1451	0		0	0
1452	1		0	0
1453	1		0	0
1454	1		0	0
1455	1		0	0
1456	0		0	0
1457	0		0	0
1458	0		1	0
	Exterior2nd_MetalSd	Exterior2nd_Other	Exterior2nd_Plywood	\
0	0	0	0	
1	1	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	0	0	
8	0	0	0	
9	1	0	0	
10	0	0	0	
11	0	0	0	
12	0	0	1	
13	0	0	0	
14	1	0	0	
15	0	0	0	
16	0	0	0	
17	1	0	0	
18	0	0	0	
19	0	0	1	
20	0	0	0	
21	0	0	0	
22	0	0	0	
23	0	0	0	
24 25	0	0	1 0	
26	0	0	0	
27	0	0	0	
28	1	0	0	
29	1	0	0	
1429	1	0	0	
1430	1	0	0	
1431	0	0	0	
1432	0	0	0	

1433		1 0	0
1434		0 0	0
1435		0 0	0
1436		0 0	1
1437		0 0	1
1438		0 0	0
1439		0 0	1
1440		0 0	1
1441		0 0	0
1442		0 0	0
1443		0 0	0
1444		0 0	0
1445		1 0	0
1446		0 0	0
1447		0 0	1
1448		0 0	1
1449		0 0	0
1450		0 0	0
1451		0 0	1
1452		0 0	0
1453		0 0	0
1454		0 0	0
1455		0 0	0
1456		0 0	0
1457		0	0
1401		0 0	0
1458		0 0	0
		0 0	
		0 0	0
1458 0 1	Exterior2nd_Stone 0 0	0 0 Exterior2nd_Stucco 0 0	0 Exterior2nd_Viny1Sd \ 1 0
1458 0 1 2	Exterior2nd_Stone 0 0 0	0 0 Exterior2nd_Stucco 0 0 0	<pre>Exterior2nd_VinylSd \</pre>
1458 0 1 2 3	Exterior2nd_Stone 0 0 0 0	0 0 Exterior2nd_Stucco 0 0 0 0	0 Exterior2nd_Viny1Sd \ 1 0
1458 0 1 2 3 4	Exterior2nd_Stone 0 0 0 0 0 0	0 0 Exterior2nd_Stucco 0 0 0 0 0	<pre>Exterior2nd_VinylSd \</pre>
1458 0 1 2 3 4 5	Exterior2nd_Stone 0 0 0 0 0 0 0 0	0 0 Exterior2nd_Stucco 0 0 0 0 0 0	<pre>Exterior2nd_Viny1Sd \</pre>
1458 0 1 2 3 4 5 6	Exterior2nd_Stone 0 0 0 0 0 0 0 0 0 0	0 0 Exterior2nd_Stucco 0 0 0 0 0 0 0 0 0	0 Exterior2nd_Viny1Sd \
1458 0 1 2 3 4 5 6 7	Exterior2nd_Stone	0 0 Exterior2nd_Stucco 0 0 0 0 0 0 0 0 0 0	0 Exterior2nd_Viny1Sd \ 1
1458 0 1 2 3 4 5 6 7 8	Exterior2nd_Stone 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 Exterior2nd_Stucco 0 0 0 0 0 0 0 0 0 0 0 0 0	<pre>D Exterior2nd_Viny1Sd \</pre>
1458 0 1 2 3 4 5 6 7 8 9	Exterior2nd_Stone	0 0 Exterior2nd_Stucco 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<pre>D Exterior2nd_VinylSd \</pre>
1458 0 1 2 3 4 5 6 7 8 9 10	Exterior2nd_Stone	0 0 Exterior2nd_Stucco 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<pre>D Exterior2nd_Viny1Sd \</pre>
1458 0 1 2 3 4 5 6 7 8 9 10 11	Exterior2nd_Stone 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 Exterior2nd_Stucco 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Exterior2nd_Viny1Sd \ 1
1458 0 1 2 3 4 5 6 7 8 9 10 11 12	Exterior2nd_Stone 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Exterior2nd_Stucco 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Exterior2nd_Viny1Sd \ 1
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13	Exterior2nd_Stone	Exterior2nd_Stucco 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Exterior2nd_Viny1Sd \ 1
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Exterior2nd_Stone 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Exterior2nd_Stucco 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Exterior2nd_Viny1Sd \ 1
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Exterior2nd_Stone 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Exterior2nd_Stucco 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Exterior2nd_Viny1Sd \ 1
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Exterior2nd_Stone	Exterior2nd_Stucco 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Exterior2nd_Viny1Sd \ 1
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Exterior2nd_Stone 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Exterior2nd_Stucco 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Exterior2nd_Viny1Sd \ 1
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Exterior2nd_Stone 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Exterior2nd_Stucco 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Exterior2nd_Viny1Sd \ 1 0 1 0 1 1 0 1 1 1 0 0 0 0 0 0 0 0 0
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Exterior2nd_Stone 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Exterior2nd_Stucco 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Exterior2nd_Viny1Sd \ 1

20	0	0	1
21	0	0	0
22	0	0	1
23	0	0	0
24	0	0	0
25	0	0	1
26	0	0	0
27	0	0	1
28	0	0	0
29	0	0	0
	• • •	• • •	• • •
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	1
1439	0	0	0
1440	0	0	0
1441	0	0	1
1442	0	0	1
1443	0	0	1
1444	0	0	1
1445	0	0	0
1446	0	0	0
1447	0	0	0
1448	0	0	0
1449	0	0	0
1450	0	0	0
1451	0	0	0
1452	0	0	0
1453	0	0	0
1454	0	0	0
1455	0	0	0
1456	0	0	1
1457	0	0	0
1458	0	0	0
	Exterior2nd_Wd Sdng	Exterior2nd_Wd Shng	MasVnrType_BrkCmn \
0	0	0	0
1	0	0	0
2	0	0	0
3	0	1	0
4	0	0	0
-	O .	O .	•

5	0	0	0
6	0	0	0
7	0	0	0
8	0	1	0
9	0	0	0
10	0	0	0
11	0	1	0
12	0	0	0
	0		
13		0	0
14	0	0	0
15	1	0	0
16	1	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	1	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	1	0	0
27	0	0	0
28	0	0	0
29	0	0	0
• • •	• • •		
1429	0	0	0
1430	0	0	0
			•
1431	1	0	0
1431 1432		0 1	
1431 1432 1433	1 0 0	0 1 0	0
1431 1432	1 0	0 1 0 0	0
1431 1432 1433	1 0 0	0 1 0	0 0 0
1431 1432 1433 1434	1 0 0 0	0 1 0 0	0 0 0
1431 1432 1433 1434 1435	1 0 0 0 0	0 1 0 0	0 0 0 0
1431 1432 1433 1434 1435 1436	1 0 0 0 0	0 1 0 0 0	0 0 0 0 0
1431 1432 1433 1434 1435 1436 1437	1 0 0 0 0 0	0 1 0 0 0 0	0 0 0 0 0 0
1431 1432 1433 1434 1435 1436 1437 1438	1 0 0 0 0 0 0	0 1 0 0 0 0 0	0 0 0 0 0 0
1431 1432 1433 1434 1435 1436 1437 1438 1439	1 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0	0 0 0 0 0 0 0
1431 1432 1433 1434 1435 1436 1437 1438 1439	1 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0	0 0 0 0 0 0 0
1431 1432 1433 1434 1435 1436 1437 1438 1439 1440	1 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441	1 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442	1 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443	1 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0
1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445	1 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0
1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446	1 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0	
1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447	1 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0	
1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446	1 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0	

1451	0		0	0	
1452	0		0	0	
1453	0		0	0	
1454	0		0	0	
1455	0		0	0	
1456	0		0	0	
1457	0		1	0	
1458	0		0	0	
	MasVnrType_BrkFace	MasVnrType_None	MasVnrType_Stone	ExterQual_Ex	\
0	1	0	0	0	
1	0	1	0	0	
2	1	0	0	0	
3	0	1	0	0	
4	1	0	0	0	
5	0	1	0	0	
6	0	0	1	0	
7	0	0	1	0	
8	0	1	0	0	
9	0	1	0	0	
10	0	1	0	0	
11	0	0	1	1	
12	0	1	0	0	
13	0	0	1	0	
14	1	0	0	0	
15	0	1	0	0	
16 17	1	0	0	0	
18	0	1	0	0	
19	0	1	0	0	
20	1	0	0	0	
21	0	1	0	0	
22	1	0	0	0	
23	0	1	0	0	
24	0	1	0	0	
25	0	0	1	0	
26	0	1	0	0	
27	0	0	1	0	
28	0	1	0	0	
29	0	1	0	0	
1429	0	1	0	0	
1430	1	0	0	0	
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1432	0	1	0	0	
1433	0	1	0	0	
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1435	0	0	1	0	

1436		0	1	0	0
1437		0	1	0	0
1438		0	1	0	0
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1440		0	1	0	0
1441		0	1	0	0
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1451		1	0	0	0
1452		0	1	0	0
1453		0	1	0	0
1454		0	1	0	0
1454		0	1	0	
					0
1456		0	1	0	0
1457		0	1	0	0
1458		1	0	0	0
	P+ O 1 P-	D+ O 1	D+ O 1 TA	P+ 0 1 P	P+ 0 1 P- \
0		ExterQual_Gd			
0	0	1	0	0	0
1	0 0	1 0	0 1	0 0	0 0
1 2	0 0 0	1 0 1	0 1 0	0 0 0	0 0 0
1 2 3	0 0 0 0	1 0 1 0	0 1 0 1	0 0 0 0	0 0 0 0
1 2 3 4	0 0 0 0	1 0 1 0	0 1 0 1 0	0 0 0 0	0 0 0 0
1 2 3 4 5	0 0 0 0 0	1 0 1 0 1 0	0 1 0 1 0	0 0 0 0 0	0 0 0 0 0
1 2 3 4 5 6	0 0 0 0 0 0	1 0 1 0 1 0	0 1 0 1 0 1	0 0 0 0 0	0 0 0 0 0 0
1 2 3 4 5 6 7	0 0 0 0 0 0	1 0 1 0 1 0	0 1 0 1 0 1 0	0 0 0 0 0 0	0 0 0 0 0 0
1 2 3 4 5 6 7 8	0 0 0 0 0 0 0	1 0 1 0 1 0 1 0	0 1 0 1 0 1 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0
1 2 3 4 5 6 7 8	0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 0	0 1 0 1 0 1 0 1 1 1	0 0 0 0 0 0 0	0 0 0 0 0 0 0
1 2 3 4 5 6 7 8 9	0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 0 0	0 1 0 1 0 1 0 1 1 1	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
1 2 3 4 5 6 7 8 9 10 11	0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 0 0 0	0 1 0 1 0 1 0 1 1 1 1	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
1 2 3 4 5 6 7 8 9 10 11 12	0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 0 0 0	0 1 0 1 0 1 0 1 1 1 1 1 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
1 2 3 4 5 6 7 8 9 10 11 12 13	0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 0 0 0 0 0	0 1 0 1 0 1 0 1 1 1 1 0 1		
1 2 3 4 5 6 7 8 9 10 11 12 13 14	0 0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 0 0 0 0 0 0	0 1 0 1 0 1 0 1 1 1 1 0 1 0		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 0 0 0 0	0 1 0 1 0 1 0 1 1 1 1 0 1		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0 0 0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 0 0 0 0 0 0	0 1 0 1 0 1 0 1 1 1 1 0 1 0		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		1 0 1 0 1 0 1 0 0 0 0 0 0 0	0 1 0 1 0 1 0 1 1 1 1 0 1 0 1		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0 0 0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 0 0 0 0 0 0 0 0	0 1 0 1 0 1 0 1 1 1 0 1 0 1 1 1 1 1 1		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17		1 0 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 1 0 1 0 1 1 1 0 1 1 0 1 1 1 1 1 1		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		1 0 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 1 0 1 0 1 1 1 1 0 1 1 0 1 1 1 1 1		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19		1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 1 0 1 1 1 1 0 1 0 1 1 1 1 1 1 1 1		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		1 0 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 1 0 1 1 1 1 1 0 1 1 0 1 1 1 1 1 1		

23	0	0	1	0	0
24	0	0	1	0	0
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26	0	0	1	0	0
27	0	1	0	0	0
28	0	0	1	0	0
29	0	0	1	0	0
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1432	1	0	0	0	1
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1451	0	0	1	0	0
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1454	0	0	1	0	0
1454	0	0		0	0
1456	0	0	1	0	0
1457	0	0	1	0	0
			1		0
1458	0	0	1	0	U
	ExterCond_Gd	FyterCond Po	FyterCond TA	Foundation_BrkTi	1 \
0	0	0	1		0
1	0	0	1		0
2	0	0	1		0
3	0	0	1		1
4	0	0	1		0
5	0	0	1		0
6	0	0	1		0
7	0	0	1		0
1	U	U	1	'	U

0	1	
		1
0	1	1
0	1	0
0	1	0
0	1	0
0	1	0
0	1	0
0	1	1
0	1	0
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0		0
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0	0	0
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		0
0	1	
		0
0	1	0
0 0	1 1	0
0 0 0	1 1 1	0 0 0
0 0 0 0	1 1 1	0 0 0 0
0 0 0 0	1 1 1 1	0 0 0 0
0 0 0 0 0	1 1 1 1 1	0 0 0 0 0
0 0 0 0 0 0	1 1 1 1 1 1	0 0 0 0 0 0
0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0
0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0
0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 0	0 0 0 0 0 0 0
0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 0 0	0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 0 0	0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 0 0	0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 0 0	0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 0 0 0 1 1 1	0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 0 0 0 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 0 0 0 1 1 1 1 1	
0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 0 0 0 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0
		0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

1454	0	0	1	0	
1455	0	0	1	0	
1456	0	0	1	0	
1457	0	0	1	0	
1458	0	0	1	0	
1100	v	v	-	· ·	
	Foundation_CBlock	Foundation PConc	Foundation Slab	Foundation Stone	\
0	- 0	1	0	- 0	
1	1	0	0	0	
2	0	1	0	0	
3	0	0	0	0	
4	0	1	0	0	
5	0	0	0	0	
6	0	1	0	0	
7	1	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
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27	0	1	0	0	
28	1	0	0	0	
29	0	0	0	0	
4.400					
1429	0	0	0	0	
1430	1	0	0	0	
1431	0	0	1	0	
1432	1	0	0	0	
1433 1434	0	1	0	0	
1434	0	1	0	0	
1435 1436	1	0	0	0	
1436	1	0	0	0	
1437	0	1	0	0	
1430	U	1	0	0	

1439		1	0	0		0
1440		1	0	0		0
1441		0	0	0		0
1442		0	1	0		0
1443		0	1	0		0
1444		1	0	0		0
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1446		0	1	0		0
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1448		1	0	0		0
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1451		0	1	0		0
1452		1	0	0		0
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1454		1	0	0		0
1455		1	0	0		0
1456		1	0	0		0
1457		0	1	0		0
1458		0	1	0		0
1400		O	1	O		U
	Foundation_Wood	RsmtOual Ex	RsmtΩual Fa	RsmtOual Gd	BsmtQual_TA	\
0	0	0	0	1	0	`
1	0	0	0	1	0	
2	0	0	0	1	0	
3	0	0	0	0	1	
4	0	0	0	1	0	
5	1	0	0	1	0	
6	0	1	0	0	0	
7	0	0	0	1	0	
8	0	0	0	0	1	
9	0	0	0	0	1	
10	0	0	0	0	1	
11	0	1	0	0	0	
12	0	0	0	0	1	
13	0	0	0	1	0	
14	0	0	0	0	1	
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16	0	0	0	0	1	
17	0	0	0	0	0	
18	0	0	0	0	1	
19	0	0	0	0	1	
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21	0	0	0	0	1	
22	0	0	0	1	0	
23	0	0	0	1	0	
24	0	0	0	0	1	
25	0	0	0	1	0	
20	ŏ	U	O	1	O	

0.0		^	•	•	0	_	
26		0	0	0	0	1	
27		0	1	0	0	0	
28		0	0	0	0	1	
29		0	0	0	0	1	
						• • •	
1429		0	0	0	0	1	
1430		0	0	0	0	1	
1431		0	0	0	0	0	
1432		0	0	0	0	1	
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1435		0	1	0	0	0	
1436		0	0	0	1	0	
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1439		0	0	0	0	1	
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1441		1	0	0	1	0	
1442		0	1	0	0	0	
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1446		0	0	0	1	0	
1447		0	0	0	0	1	
1448		0	0	0	0	1	
1449		0	0	0	1	0	
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1452		0	0	0	0	1	
1453		0	0	0	0	1	
1454		0	0	0	0	1	
1455		0	0	0	0	1	
1456		0	0	0	0	1	
1457		0	0	0	1	0	
1458		0	0	0	1	0	
	Dam+Cond E-	Dam+Comd Cd	Dam+Cond D-	Dam+Cond TA	Dam+ E	۸	١
0					BsmtExposure		\
0	0	0	0	1		0	
1	0	0	0	1		0	
2	0	0	0	1		0	
3	0	1	0	0		0	
4	0	0	0	1		1	
5	0	0	0	1		0	
6	0	0	0	1		1	
7	0	0	0	1		0	
8	0	0	0	1		0	
9	0	0	0	1		0	
10	0	0	0	1		0	

11	0	0	0	1	0
12	0	0	0	1	0
13	0	0	0	1	1
14	0	0	0	1	0
15	0	0	0	1	0
16	0	0	0	1	0
17	0	0	0	0	0
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19	0	0	0	1	0
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26	0	0	0	1	0
27	0	0	0	1	0
28	0	0	0	1	0
29	0	0	0	1	0
1400		•••			
1429	0	0	0	1	0
1430	0	0	0	1	0
1431	0	0	0	0	0
1432	0	0	0	1	0
1433	1	0	0	0	0
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1435	0	0	0	1	0
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1437	0	0	0	1	0
1438	0	0	0	1	0
1439	0	0	0	1	1
1440					
	0	0	0	1	0
1441	0	0	0	1	1
1442	0	1	0	0	1
1443	0	0	0	1	0
1444	0	0	0	0	0
1445	0	0	0	1	0
1446	0	0	0	1	0
1447	0	0	0	1	0
1448	0	0	0	1	0
1449	0	0	0	1	1
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1451	0	0	0	1	1
1452	0	0	0	1	0
1453	0	0	0	1	0
1454	0	0	0	1	0
1455	0	0	0	1	0
1456	0	0	0	1	0

1457 1458	0	0	0 1		
_				BsmtFinType1_ALQ	\
0	0	0	1	0	
1	1	0	0	1	
2	0	1	0	0	
3	0	0	1	1	
4	0	0	0	0	
5	0	0	1	0	
6	0	0	0	0	
7	0	1	0	1	
8 9	0	0	1	0	
9 10	0	0	1	0	
11	0	0	1	0	
12	0	0	1	1	
13	0	0	0	0	
14	0	0	1	0	
15	0	0	1	0	
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18	0	0	1	0	
19	0	0	1	0	
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22	0	0	1	0	
23	0	0	1	0	
24	0	1	0	0	
25	0	0	1	0	
26	0	1	0	0	
27	0	0	1	0	
28	1	0	0	0	
29	0	0	1	0	
• • •	• • •	• • •	• • •	• • •	
1429	0	0	1	0	
1430	0	0	1	0	
1431	0	0	0	0	
1432	0	1	0	0	
1433	0	0	1	0	
1434	1	0	0	0	
1435	1	0	0	0	
1436 1437	1 0	0	0	0	
143 <i>1</i> 1438	0	0	1	0	
1439	0	0	0	0	
1440	1	0	0	0	
1441	0	0	0	0	
1-1-11	O	O	U	U	

1442	0	0	0	0
1443	1	0	0	0
1444	0	0	0	0
1445	1	0	0	0
1446	0	1	0	0
1447	0	0	1	1
1448	0	0	1	0
1449	0	0	0	0
1450	0	0	1	0
1451	0	0	0	0
1452	0	0	1	0
1453	0	0	1	0
1454	0	0	1	0
1455	0	0	1	0
1456	0	0	1	1
1457	0	0	0	0
1458	0	0	0	0
	${\tt BsmtFinType1_BLQ}$	${\tt BsmtFinType1_GLQ}$	BsmtFinType1_LwQ	<pre>BsmtFinType1_Rec \</pre>
0	0	1	0	0
1	0	0	0	0
2	0	1	0	0
3	0	0	0	0
4	0	1	0	0
5	0	1	0	0
6	0	1	0	0
7	0	0	0	0
8	0	0	0	0
9	0	1	0	0
10	0	0	0	1
11	0	1	0	0
12	0	0	0	0
13	0	0	0	0
14	1	0	0	0
15	0	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0	1	0	0
19	0	0	1	0
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23	0	1	0	0
24	0	0	0	1
25	0	0	0	0
26	1	0	0	0
27	0	1	0	0
28	1	0	0	0

29	0	0	0	0	
	• • •			• • •	
1429	0	0	0	0	
1430	0	0	0	0	
1431	0	0	0	0	
1432	0	0	0	0	
1433 1434	0	0	0	0	
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1435	0	1	0	0	
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1445	0	1	0	0	
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1451	0	0	0	1	
1452	0	0	0	1	
1453	0	0	0	0	
1454	0	0	0	0	
1455	0	0	0	1	
1456	0	0	0	0	
1457	0	1	0	0	
1458	0	0	1	0	
	BsmtFinType1_Unf	PamtFinTuno AIO	PamtFinTune? DIO	Pam+FinTuno2 CIO \	
0	o o o o o o o o o o o o o o o o o o o	BsmtFinType2_ALQ 0	DSmtriniypez_btQ	BsmtFinType2_GLQ \ 0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	1	0	
8	1	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	1	0	0	0	

14	0	0	0	0
15	1	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	0	0	0
20	1	0	0	0
21	1	0	0	0
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25	1	0	0	0
26	0	0	0	0
27	0	0	0	0
28	0	0	0	0
29	1	0	0	0
	-	ŭ	V	Ŭ
	• • •	• • •	• • •	• • •
1429	1	0	0	0
1430	1	0	0	0
1431	0	0	0	0
1432	1	0	0	0
1433	1	0	0	0
1434	0	0	0	0
1435	0	0	0	0
1436	0	0	0	0
1437		0	0	0
	1			
1438	1	0	0	0
1439	0	0	0	0
1440	0	0	0	0
1441	0	0	1	0
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1451	0	0	1	0
1452	0	0	0	0
1453	1	0	0	0
1454	1	0	0	0
1455	0	0	0	0
1456	0	0	0	0
1457	0	0	0	0
1458	0	0	0	0

	BsmtFinType2_LwQ	BsmtFinType2_Rec	BsmtFinType2_Unf	<pre>Heating_Floor \</pre>
0	0	0	1	0
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2	0	0	1	0
3	0	0	1	0
4	0	0	1	0
5	0	0	1	0
6	0	0	1	0
7	0	0	0	0
8	0	0	1	0
9	0	0	1	0
10	0	0	1	0
11	0	0	1	0
12	0	0	1	0
13	0	0	1	0
14	0	0	1	0
15	0	0	1	0
16	0	0	1	0
17	0	0	0	0
18	0	0	1	0
19 20	0	0	1	0
21	0	0	1	0
22	0	0	1	0
23	0	0	1	0
24	0	0	0	0
25	0	0	1	0
26	0	1	0	0
27	0	0	1	0
28	0	0	1	0
29	0	0	1	0
1429	0	0	1	0
1430	0	0	1	0
1431	0	0	0	0
1432	0	0	1	0
1433	0	0	1	0
1434	0	0	1	0
1435	0	0	1	0
1436	0	0	1	0
1437	0	0	1	0
1438	0	0	1	0
1439	0	0	1	0
1440	0	0	1	0
1441	0	0	0	0
1442 1443	0	0	1	0
	0	0	1	0
1444	0	0	0	U

1445		0	0	1	0	
1446		0	0	1	0	
1447		0	0	1	0	
1448		0	0	1	0	
1449		0	0	1	0	
1450		0	0	1	0	
1451		0	0	0	0	
1452		0	0	1	0	
1453		0	0	1	0	
1454		0	0	1	0	
1455		0	0	1	0	
1456		0	0	1	0	
1457		0	0	1	0	
1458		0	0	1	0	
	Heating_GasA	Heating_GasW	Heating_Grav	Heating_OthW	Heating_Wall	\
0	1	0	0	0	0	
1	1	0	0	0	0	
2	1	0	0	0	0	
3	1	0	0	0	0	
4	1	0	0	0	0	
5	1	0	0	0	0	
6	1	0	0	0	0	
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8	1	0	0	0	0	
9	1	0	0	0	0	
10	1	0	0	0	0	
11	1	0	0	0	0	
12 13	1	0	0	0	0	
13 14	1	0	0	0	0	
15	1 1	0	0	0	0	
16	1	0	0	0	0	
17	1	0	0	0	0	
18	1	0	0	0	0	
19	1	0	0	0	0	
20	1	0	0	0	0	
21	1	0	0	0	0	
22	1	0	0	0	0	
23	1	0	0	0	0	
24	1	0	0	0	0	
25	1	0	0	0	0	
26	1	0	0	0	0	
27	1	0	0	0	0	
28	1	0	0	0	0	
29	1	0	0	0	0	
 1429						
1120	-	· ·	V	V	V	

1430	1	0	0	0	0	
1431	1	0	0	0	0	
1432	1	0	0	0	0	
1433	1	0	0	0	0	
1434	1	0	0	0	0	
1435	1	0	0	0	0	
1436	1	0	0	0	0	
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1439	1	0	0	0	0	
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1452	1	0	0	0	0	
1453	1	0	0	0	0	
1454	1	0	0	0	0	
1455	1	0	0	0	0	
1456	1	0	0	0	0	
1457	1	0	0	0	0	
1458	1	0	0	0	0	
	${\tt HeatingQC_Ex}$	${\tt HeatingQC_Fa}$	${\tt HeatingQC_Gd}$	${\tt HeatingQC_Po}$	${\tt HeatingQC_TA}$	\
0	1	0	0	0	0	
1	1	0	0	0	0	
2	1	0	0	0	0	
3	0	0	1	0	0	
4	1	0	0	0	0	
5	1	0	0	0	0	
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7	1	0	0	0	0	
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9	1	0	0	0	0	
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12	0	0	0	0	1	
13	1	0	0	0	0	
14	0	0	0	0	1	
15	1	0	0	0	0	
16	1	0	0	0	0	

17	0	0	0	0	1
18	1	0	0	0	0
19	0	0	0	0	1
20	1	0	0	0	0
21	1	0	0	0	0
22	1	0	0	0	0
23	0	0	0	0	1
24	1	0	0	0	0
25	1	0	0	0	0
26	0	0	0	0	1
27	1	0	0	0	0
28	0	0	0	0	1
29	0	1	0	0	0
1429	0	0	1	0	0
1430	0	0	1	0	0
1431	0	0	0	0	1
1432	0	0	0	0	1
1433	0	1	0	0	0
1434	1	0	0	0	0
1435	1	0	0	0	0
1436	0	0	0	0	1
1437	0	0	0	0	1
1438	1	0	0	0	0
1439	0	0	0	0	1
1440	0	0	0	0	1
1441	1	0	0	0	0
1442	1	0	0	0	0
1443	1	0	0	0	0
1444	0	0	0	0	1
1445	0	0	1	0	0
1446	0	0			
			0	0	1
1447	1	0	0	0	0
1448	0	0	0	0	1
1449	0	0	0	0	1
1450	0	0	0	0	1
1451	0	1	0	0	0
1452	0	0	0	0	1
1453	0	0	0	0	1
1454	0	0	1	0	0
1455	0	0	0	0	1
1456	1	0	0	0	0
1457	0	0	0	0	1
1458	1	0	0	0	0
1400	1	U	V	V	J
	Control Air M	Control Nin V	Flootrical Fuca	Flootrical Fugat	\
^	CentralAir_N		Electrical_FuseA		\
0	0	1	0	0	
1	0	1	0	0	

2	0	1	0	0
3	0	1	0	0
4	0	1	0	0
5	0	1	0	0
6				
	0	1	0	0
7	0	1	0	0
8	0	1	0	1
9	0	1	0	0
10	0	1	0	0
11	0	1	0	0
12	0	1	0	0
13	0	1	0	0
14	0	1	0	0
15	0	1	1	0
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1441	0	1	0	0
1442	0	1	0	0
1443	0	1	0	0
1444	0	1	1	0
1445	0	1	0	0
1446	0	1	0	0
1447	0	1	0	0
	•	-	~	•

1448	0	1	0	0	
1449	0	1	0	0	
1450	0	1	0	0	
1451	0	1	0	0	
1452	0	1	0	0	
1453	0	1	0	0	
1454	0	1	0	0	
1455	0	1	0	0	
1456	0	1	0	0	
1457	0	1	0	0	
1458	0	1	0	0	
	Electrical FuseP	Electrical Mix	Electrical_SBrkr	KitchenQual_Ex \	
0	0	0	1	0	
1	0	0	1	0	
2	0	0	1	0	
3	0	0	1	0	
4	0	0	1	0	
5	0	0	1	0	
6	0	0	1	0	
7		0			
	0		1	0	
8	0	0	0	0	
9	0	0	1	0	
10	0	0	1	0	
11	0	0	1	1	
12	0	0	1	0	
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1429	0	0	1	0	
1430	0	0	1	0	
1431	0	0	1	0	
1432	0	0	1	0	

1433		0	0	1	0
1434		0	0	1	1
1435			0	1	0
1436			0	1	0
1437			0	1	0
1438			0	1	0
1439			0	1	0
1440			0	1	0
1441			0	1	0
1442			0	1	0
1443			0	1	1
1444			0	0	0
1445			0	1	0
1446			0	1	0
1447			0	1	0
1448			0	1	0
1449			0	1	0
1450			0	1	0
1451			0	1	0
1452			0	1	0
1453			0	1	0
1454		0	0	1	0
1455		0	0	1	0
1456		0	0	1	0
1457		0	0	1	0
1458		0	0	1	0
	KitchenQual_Fa	KitchenQual_Gd	KitchenQual_TA	$Functional_Maj1$	\
0	0	1	0	0	
1	0	0	1	0	
2	0	1	0	0	
3	0	1	0	0	
4	0	1	0	0	
5	0	0	1	0	
6	0	1	0	0	
7	0	0	1	0	
8	0	0	1	0	
9	0	0	1	0	
10	0	0	1	0	
11	0	0	0	0	
12	0	0	1	0	
13	0	1	0	0	
14	0	0	1	0	
15	0	0	1	0	
16	0	0	1	0	
17	Ω	0	1	()	
17 18	0	0	1	0	
17 18 19	0 0	0 1 0	1 0 1	0	

20	0	1	0	0	
21	0	1	0	0	
22	0	1	0	0	
23	0	0	1	0	
24	0	1	0	0	
25	0	1	0	0	
26	0	1	0	0	
27	0	1	0	0	
28	0	0	1	0	
		0			
29	1	U	0	0	
4.400	• • •		• • •	• • • •	
1429	1	0	0	0	
1430	0	1	0	0	
1431	0	0	1	0	
1432	0	0	1	0	
1433	0	0	1	0	
1434	0	0	0	0	
1435	0	1	0	0	
1436	1	0	0	0	
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1444	0	0	1	0	
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1449	0	0	1	0	
1450	0	0	1	0	
1451	0	0	1	0	
1452	0	0	1	0	
1453	0	0	1	0	
1454	0	0	1	0	
1455	0	0	1	0	
1456	0	0		0	
			1		
1457	0	0	1	0	
1458	0	0	1	0	
	Functional_Maj2		Functional_Min2		\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	

_	_	_	_	_
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	1	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
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16	0	0	0	0
17	0	0	0	0
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19	0	1	0	0
20	0	0	0	0
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0
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25	0	0	0	0
26	0	0	0	0
27	0	0	0	0
28	0	0	0	0
29	0	0	0	0
	• • •	•••	• • •	
1429	0	0	0	0
1430	0	0	0	0
1431	0	0	0	1
1432	0	0	1	0
1433	0	0	0	0
1434	0	0	0	0
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1444	0	0	0	1
1445	0	0	0	0
1446	0	0	0	0
1447	0	0	0	0
1448	0	0	0	0
1448	0	0	0	0
1449	0	0	0	0
	, ,	1.7	()	()

1452	1451	0		0	0	0
1454 0						
1454 0		0		0	0	
1455						
1456						
1457						
Functional_Sev						
Functional_Sev						
0 0 1 0 0 1 0 0 0 2 0 1 0 0 3 0 1 0 0 4 0 1 0 0 5 0 1 0 0 6 0 1 0 0 7 0 1 0 0 8 0 0 0 0 9 0 1 0 0 10 0 1 0 0 9 0 1 0 0 11 0 0 0 0 11 0 1 0 0 12 0 1 0 0 13 0 1 0 0 14 0 1 0 0 14 0 1 0 0					-	_
1 0 1 0 0 2 0 1 0 0 3 0 1 0 0 4 0 1 0 0 5 0 1 0 0 6 0 1 0 0 7 0 1 0 0 8 0 0 0 0 9 0 1 0 0 10 0 1 0 0 10 0 1 0 0 11 0 1 0 0 12 0 1 0 0 13 0 1 0 0 14 0 1 0 0 14 0 1 0 0 14 0 1 0 0 15 0 1 0 0 16 0 1 0 0 18 0		Functional_Sev	Functional_Typ	FireplaceQu_Ex	FireplaceQu_Fa	\
2 0 1 0 0 3 0 1 0 0 4 0 1 0 0 5 0 1 0 0 6 0 1 0 0 7 0 1 0 0 8 0 0 0 0 9 0 1 0 0 10 0 1 0 0 10 0 1 0 0 11 0 0 0 0 12 0 1 0 0 12 0 1 0 0 13 0 1 0 0 14 0 1 0 0 14 0 1 0 0 15 0 1 0 0 17 0 1 0 0 18 0 1 0 0 20 0	0	0	1	0	0	
3 0 1 0 0 4 0 1 0 0 5 0 1 0 0 6 0 1 0 0 7 0 1 0 0 8 0 0 0 0 9 0 1 0 0 10 0 1 0 0 11 0 1 0 0 11 0 1 0 0 12 0 1 0 0 12 0 1 0 0 13 0 1 0 0 14 0 1 0 0 14 0 1 0 0 14 0 1 0 0 15 0 1 0 0 16 0 1 0 0 17 0 1 0 0 18 0	1	0	1	0	0	
4 0 1 0 0 5 0 1 0 0 6 0 1 0 0 7 0 1 0 0 8 0 0 0 0 9 0 1 0 0 10 0 1 0 0 11 0 1 0 0 11 0 1 0 0 12 0 1 0 0 13 0 1 0 0 13 0 1 0 0 13 0 1 0 0 14 0 1 0 0 14 0 1 0 0 15 0 1 0 0 16 0 1 0 0 18 0 1 0 0 19 0 0 0 0 20 0		0	1	0	0	
5 0 1 0 0 6 0 1 0 0 7 0 1 0 0 8 0 0 0 0 9 0 1 0 0 10 0 1 0 0 11 0 1 0 0 11 0 1 0 0 12 0 1 0 0 13 0 1 0 0 13 0 1 0 0 14 0 1 0 0 14 0 1 0 0 16 0 1 0 0 17 0 1 0 0 18 0 1 0 0 20 0 1 0 0 21 0 1 0	3	0	1	0	0	
6 0 1 0 0 7 0 1 0 0 8 0 0 0 0 9 0 1 0 0 10 0 1 0 0 11 0 1 0 0 11 0 1 0 0 12 0 1 0 0 13 0 1 0 0 13 0 1 0 0 14 0 1 0 0 14 0 1 0 0 16 0 1 0 0 17 0 1 0 0 18 0 1 0 0 19 0 0 0 0 20 0 1 0 0 21 0 1 0	4	0	1	0	0	
7 0 1 0 0 8 0 0 0 0 9 0 1 0 0 10 0 1 0 0 11 0 1 0 0 12 0 1 0 0 13 0 1 0 0 13 0 1 0 0 14 0 1 0 0 14 0 1 0 0 15 0 1 0 0 16 0 1 0 0 17 0 1 0 0 18 0 1 0 0 19 0 0 0 0 20 0 1 0 0 21 0 1 0 0 22 0 1 0 0 23 0 1 0 0 24 0 <td>5</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td></td>	5	0	1	0	0	
8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6	0	1	0	0	
9 0 1 0 0 10 0 1 0 0 11 0 1 0 0 12 0 1 0 0 13 0 1 0 0 14 0 1 0 1 15 0 1 0 0 16 0 1 0 0 17 0 1 0 0 18 0 1 0 0 19 0 0 0 0 20 0 1 0 0 21 0 1 0 0 22 0 1 0 0 23 0 1 0 0 24 0 1 0 0 24 0 1 0 0 25 0 1 0 0 28 0 1 0 0 29 0 </td <td>7</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td></td>	7	0	1	0	0	
10 0 1 0 0 11 0 1 0 0 12 0 1 0 0 13 0 1 0 0 14 0 1 0 0 15 0 1 0 0 16 0 1 0 0 17 0 1 0 0 18 0 1 0 0 19 0 0 0 0 20 0 1 0 0 21 0 1 0 0 22 0 1 0 0 23 0 1 0 0 24 0 1 0 0 25 0 1 0 0 26 0 1 0 0 28 0 1 0 0 29 0 1 0 0 1430	8	0	0	0	0	
11 0 1 0 0 12 0 1 0 0 13 0 1 0 0 14 0 1 0 1 15 0 1 0 0 16 0 1 0 0 17 0 1 0 0 18 0 1 0 0 19 0 0 0 0 20 0 1 0 0 21 0 1 0 0 21 0 1 0 0 22 0 1 0 0 23 0 1 0 0 24 0 1 0 0 25 0 1 0 0 26 0 1 0 0 28 0 1 0 0 29 0 1 0 0 1430	9	0	1	0	0	
12 0 1 0 0 13 0 1 0 0 14 0 1 0 1 15 0 1 0 0 16 0 1 0 0 17 0 1 0 0 18 0 1 0 0 19 0 0 0 0 20 0 1 0 0 21 0 1 0 0 21 0 1 0 0 22 0 1 0 0 23 0 1 0 0 24 0 1 0 0 25 0 1 0 0 26 0 1 0 0 28 0 1 0 0 29 0 1 0 0 1430 0 0 0 1431 0 <t< td=""><td>10</td><td>0</td><td>1</td><td>0</td><td>0</td><td></td></t<>	10	0	1	0	0	
12 0 1 0 0 13 0 1 0 0 14 0 1 0 1 15 0 1 0 0 16 0 1 0 0 17 0 1 0 0 18 0 1 0 0 19 0 0 0 0 20 0 1 0 0 21 0 1 0 0 21 0 1 0 0 22 0 1 0 0 23 0 1 0 0 24 0 1 0 0 25 0 1 0 0 26 0 1 0 0 27 0 1 0 0 28 0 1 0 0 29 0 1 0 0 1430	11	0	1	0	0	
14 0 1 0 0 15 0 1 0 0 16 0 1 0 0 17 0 1 0 0 18 0 1 0 0 19 0 0 0 0 20 0 1 0 0 21 0 1 0 0 22 0 1 0 0 23 0 1 0 0 24 0 1 0 0 25 0 1 0 0 26 0 1 0 0 28 0 1 0 0 29 0 1 0 0 1429 0 1 0 0 1430 0 0 0 1431 0 0 0 0 1432 0 0 0 0 0 1434	12	0	1	0		
14 0 1 0 0 15 0 1 0 0 16 0 1 0 0 17 0 1 0 0 18 0 1 0 0 19 0 0 0 0 20 0 1 0 0 21 0 1 0 0 22 0 1 0 0 23 0 1 0 0 24 0 1 0 0 25 0 1 0 0 26 0 1 0 0 28 0 1 0 0 29 0 1 0 0 1429 0 1 0 0 1430 0 0 0 1431 0 0 0 0 1432 0 0 0 0 0 1434	13	0	1	0	0	
15 0 1 0 0 16 0 1 0 0 17 0 1 0 0 18 0 1 0 0 19 0 0 0 0 20 0 1 0 0 21 0 1 0 0 22 0 1 0 0 23 0 1 0 0 24 0 1 0 0 25 0 1 0 0 26 0 1 0 0 27 0 1 0 0 28 0 1 0 0 29 0 1 0 0 1429 0 1 0 0 1430 0 0 0 1431 0 0 0 0 1432 0 0 0 0 0 1434		0	1	0		
16 0 1 0 0 17 0 1 0 0 18 0 1 0 0 19 0 0 0 0 20 0 1 0 0 21 0 1 0 0 22 0 1 0 0 23 0 1 0 0 24 0 1 0 0 25 0 1 0 0 26 0 1 0 0 27 0 1 0 0 28 0 1 0 0 29 0 1 0 0 1429 0 1 0 0 1430 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1434 0 1 0 0		0		0		
17 0 1 0 0 18 0 1 0 0 19 0 0 0 0 20 0 1 0 0 21 0 1 0 0 22 0 1 0 0 23 0 1 0 0 24 0 1 0 0 25 0 1 0 0 26 0 1 0 0 27 0 1 0 0 28 0 1 0 0 29 0 1 0 0 1429 0 1 0 0 1430 0 1 0 0 1431 0 0 0 0 1432 0 0 0 0 1434 0 1 0 0						
18 0 1 0 0 19 0 0 0 0 20 0 1 0 0 21 0 1 0 0 22 0 1 0 0 23 0 1 0 0 24 0 1 0 0 25 0 1 0 0 26 0 1 0 0 27 0 1 0 0 28 0 1 0 0 29 0 1 0 0 1429 0 1 0 0 1430 0 1 0 0 1431 0 0 0 0 1432 0 0 0 0 1434 0 1 0 0						
19 0 0 0 0 20 0 1 0 0 21 0 1 0 0 22 0 1 0 0 23 0 1 0 0 24 0 1 0 0 25 0 1 0 0 26 0 1 0 0 27 0 1 0 0 28 0 1 0 0 29 0 1 0 0 1429 0 1 0 0 1430 0 1 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 1 0 0 1434 0 1 0 0						
20 0 1 0 0 21 0 1 0 0 22 0 1 0 0 23 0 1 0 0 24 0 1 0 0 25 0 1 0 0 26 0 1 0 0 27 0 1 0 0 28 0 1 0 0 29 0 1 0 0 1429 0 1 0 0 1430 0 1 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 1 0 0 1434 0 1 0 0		0		0		
21 0 1 0 0 22 0 1 0 0 23 0 1 0 0 24 0 1 0 0 25 0 1 0 0 26 0 1 0 0 27 0 1 0 0 28 0 1 0 0 29 0 1 0 0 1429 0 1 0 0 1430 0 1 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 1 0 0 1434 0 1 0 0		0				
22 0 1 0 0 23 0 1 0 0 24 0 1 0 0 25 0 1 0 0 26 0 1 0 0 27 0 1 0 0 28 0 1 0 0 29 0 1 0 0 1429 0 1 0 0 1430 0 1 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 1 0 0 1434 0 1 0 0		0		0		
23 0 1 0 0 24 0 1 0 0 25 0 1 0 0 26 0 1 0 0 27 0 1 0 0 28 0 1 0 0 29 0 1 0 0 1429 0 1 0 0 1430 0 1 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 1 0 0 1434 0 1 0 0		0				
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1436	0	1	0	0	
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	${\tt FireplaceQu_Gd}$	FireplaceQu_Po	FireplaceQu_TA	<pre>GarageType_2Types</pre>	\
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1 2	0 0 0	0 0 0	0 1 1	0 0 0	\
1 2 3	0 0 0 1	0 0 0	0 1 1 0	0 0 0 0	\
1 2 3 4	0 0 0 1 0	0 0 0 0	0 1 1 0 1	0 0 0 0	\
1 2 3 4 5	0 0 0 1 0	0 0 0 0 0	0 1 1 0 1	0 0 0 0 0	\
1 2 3 4 5 6	0 0 0 1 0 0	0 0 0 0 0	0 1 1 0 1 0	0 0 0 0 0 0	\
1 2 3 4 5 6 7	0 0 1 0 0 1 0	0 0 0 0 0 0	0 1 1 0 1 0 0	0 0 0 0 0 0 0	\
1 2 3 4 5 6 7 8	0 0 0 1 0 0 1 0	0 0 0 0 0 0 0	0 1 1 0 1 0 0 1 1	0 0 0 0 0 0 0	\
1 2 3 4 5 6 7 8	0 0 0 1 0 0 1 0 0	0 0 0 0 0 0 0	0 1 1 0 1 0 0 1 1 1	0 0 0 0 0 0 0 0	\
1 2 3 4 5 6 7 8 9	0 0 1 1 0 0 1 0 0 0	0 0 0 0 0 0 0 0	0 1 1 0 1 0 0 1 1 1 1	0 0 0 0 0 0 0 0	\
1 2 3 4 5 6 7 8 9 10 11	0 0 0 1 0 0 1 0 0 0	0 0 0 0 0 0 0 0	0 1 1 0 1 0 0 1 1 1 1 0	0 0 0 0 0 0 0 0 0	\
1 2 3 4 5 6 7 8 9 10 11 12	0 0 1 0 0 0 1 0 0 0 0		0 1 1 0 1 0 0 1 1 1 1 0 0	0 0 0 0 0 0 0 0 0	\
1 2 3 4 5 6 7 8 9 10 11 12 13	0 0 0 1 0 0 1 0 0 0 0 1 0		0 1 1 0 0 0 1 1 1 1 0 0	0 0 0 0 0 0 0 0 0 0	\
1 2 3 4 5 6 7 8 9 10 11 12 13 14	0 0 0 1 0 0 1 0 0 0 0 1 0 0		0 1 1 0 0 0 1 1 1 1 1 0 0 0 0	0 0 0 0 0 0 0 0 0 0	\
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0 0 0 1 0 0 1 0 0 0 0 1 0 0		0 1 1 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	\
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0 0 0 1 0 0 0 0 0 0 0 1 0 0 1 0 0		0 1 1 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0		`
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	0 0 0 1 0 0 0 0 0 0 0 1 0 0 1 0 0 0		0 1 1 0 0 0 1 1 1 1 1 0 0 0 0 0 0 0 0 0		`
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	0 0 0 1 0 0 0 0 0 0 0 1 0 0 1 0 0 0		0 1 1 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0		`
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0		0 1 1 0 0 0 1 1 1 1 1 0 0 0 0 0 0 0 0 0		
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28 1 0 0 0 29 0 0 0 0 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 1 0 0 0 1435 1 0 0 0 1436 0 0 1 0 1437 0 0 0 0 1438 0 0 0 0 1439 0 0 0 0 1441 0 0 0 0 1442 1 0 0 0 1444 0 0 0 0 1445 0 0 0 0 1446 0 <	26	0	0	0	0
29	27	1	0	0	0
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1438	1436	0	0	1	0
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8	0	0	0
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14	1	0	0
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		0	1
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1448	0	0	0
1449 1450	1	0	0
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2	0	0		
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3 4	0	1 0	0	
4 5	0	0	0	
6	0	0	0	
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1439	C)	0	0	
1440	C)	0	0	
1441	C)	0	0	
1442	C)	0	1	
1443	C)	0	1	
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1450	C)	0	0	
1451	C)	0	0	
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1453	C)	0	0	
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0	1	0	0	0	
1	1	0	0	0	
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2	1	0	0	0	
2 3	0	1	0	0	
3 4					
3 4 5	0 1 0	1 0 1	0 0 0	0 0 0	
3 4 5 6	0 1 0 1	1 0 1 0	0 0 0	0 0 0	
3 4 5 6 7	0 1 0 1 1	1 0 1 0 0	0 0 0 0	0 0 0 0	
3 4 5 6 7 8	0 1 0 1 1	1 0 1 0 0	0 0 0 0 0	0 0 0 0 0	
3 4 5 6 7 8	0 1 0 1 1 0 1	1 0 1 0 0 1 0	0 0 0 0 0	0 0 0 0 0 1	
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3 4 5 6 7 8 9 10	0 1 0 1 1 0 1 0	1 0 1 0 0 1 0 1	0 0 0 0 0 0 0	0 0 0 0 0 1 0 0	
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3 4 5 6 7 8 9 10 11 12 13	0 1 0 1 1 0 1 0 0 0	1 0 1 0 0 1 0 1 0	0 0 0 0 0 0 0	0 0 0 0 0 1 0 0 0	
3 4 5 6 7 8 9 10 11 12 13 14	0 1 0 1 1 0 1 0 0 0 0	1 0 1 0 0 1 0 1 0 1 0	0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0 0 0	
3 4 5 6 7 8 9 10 11 12 13 14 15	0 1 0 1 1 0 1 0 0 0 0 1 1 1	1 0 1 0 0 1 0 1 0 1 0		0 0 0 0 0 1 1 0 0 0 0	
3 4 5 6 7 8 9 10 11 12 13 14 15 16	0 1 0 1 1 0 1 0 0 0 0 1 1 1 0	1 0 1 0 0 1 0 1 0 1 0 0		0 0 0 0 0 1 0 0 0 0 0	
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	0 1 0 1 1 0 1 0 0 0 0 1 1 1 0 0	1 0 1 0 0 1 0 1 0 1 0 0 1 0 0		0 0 0 0 0 1 0 0 0 0 0 0	
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	0 1 0 1 1 0 1 0 0 0 0 0 1 1 1 0 0	1 0 1 0 0 1 0 1 0 1 0 0 1 0 0		0 0 0 0 0 1 0 0 0 0 0 0	
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	0 1 0 1 1 0 0 0 0 0 0 1 1 1 0 0 0 0	1 0 1 0 0 1 0 1 0 0 1 0 0 1 0 1		0 0 0 0 0 1 0 0 0 0 0 0 0	
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	0 1 0 1 1 1 0 0 0 0 0 1 1 1 0 0 0 0 0	1 0 1 0 0 1 0 1 0 1 0 0 1 0 0 1 1 0		0 0 0 0 0 1 0 0 0 0 0 0 0 0	
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	0 1 0 1 1 1 0 0 0 0 0 1 1 1 0 0 0 0 0	1 0 1 0 0 1 0 1 0 0 1 0 0 1 1 0 0		0 0 0 0 0 1 0 0 0 0 0 0 0 0	
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	0 1 0 1 1 0 0 0 0 0 0 1 1 1 0 0 0 0 0	1 0 1 0 0 1 0 1 0 0 0 1 1 0 1 0 1 0 1		0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0	
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	0 1 0 1 1 1 0 0 0 0 0 1 1 1 0 0 0 0 0 0	1 0 1 0 0 1 0 1 0 0 1 0 0 1 1 0 1 1 0 1 1 0 1		0 0 0 0 1 0 0 0 0 0 0 0 0 0 0	
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	0 1 0 1 1 0 0 0 0 0 0 1 1 1 0 0 0 0 0	1 0 1 0 0 1 0 1 0 0 0 1 1 0 1 0 1 0 1		0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0	

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1457		0	0	0	0
1458		0		0	0
1450)	U	0	U	U
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1456	0	0	1	0

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1458	0	0	1	0	
	Cama ma Camala Ea	C C d	Carra ma Carral Da	Company Complete	\
0	GarageCond_Fa	GarageCond_Gd	GarageCond_Po 0		\
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2	0	0	0	1	
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1439	0	0	0	1	
1440	0	0	0	1	
1441	0	0	0	1	

1442	0		0	0	1	
1443	0		0	0	1	
1444	0		0	0	1	
1445	0		0	0	1	
1446	0		0	0	1	
1447	0		0	0	1	
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1454	0		0	0	0	
1455	0		0	0	1	
1456	0		0	0	1	
1457	0		0	0	0	
1458	0		0	0	1	
			PavedDrive_Y			\
0	0	0	1	0	0	
1	0	0	1	0	0	
2	0	0	1	0	0	
3	0	0	1	0	0	
4	0	0	1	0	0	
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9	0	0	1	0	0	
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11	0	0	1	0	0	
12	0	0	1	0	0	
13	0	0	1	0	0	
14	0	0	1	0	0	
15	0	0	1	0	0	
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17	0	0	1	0	0	
18	0	0	1	0	0	
19	0	0	1	0	0	
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23	0	0	1	0	0	
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26	0	0	1	0	0	
27	0	0	1	0	0	
28	0	0	1	0	0	

29		0	0	1	0	0
	•	• •	• • •	• • •		
1429		1	0	0	0	0
1430		0	0	1	0	0
1431		1	0	0	0	0
1432		0	0	1	0	0
1433		1	0	0	0	0
1434		0	0	1	0	0
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1436		0	0	1	0	0
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1451		0	0	1	0	0
1452		0	0	1	0	0
1453		0	0	1	0	0
1454		0	0	1	0	0
1455		0	0	1	0	0
1456		0	0	1	0	0
1457		0	0	1	0	0
1458		0	0	1	0	0
	PoolQC_Gd	Fence_GdPrv	Fence_GdWo	Fence_MnPrv	Fence_MnWw	\
0	0	0	0	0	0	
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2	0	0	0	0	0	
3	0	0	0	0	0	
4	0	0	0	0	0	
5	0	0	0	1	0	
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8	0	0	0	0	0	
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11	0	0	0	0	0	
12	0	0	0	0	0	
13	0	0	0	0	0	

14	0	0	1	0	0
15	0	1	0	0	0
16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
19	0	0	0	1	0
20	0	0	0	0	0
21	0	1	0	0	0
22	0	0	0	0	0
23	0	0	0	0	0
24	0	0	0	1	0
25	0	0	0	0	0
26	0	0	0	0	0
27	0	0	0	0	0
28	0	0	0	0	0
	0	0	0		
29	U	U	U	0	0
• • •	• • •	• • •	• • •	• • •	• • •
1429	0	0	0	1	0
1430	0	0	0	0	0
1431	0	0	0	0	0
1432	0	0	0	0	0
1433	0	0	0	0	0
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1442	0	0	0	0	0
1443	0	0	0	0	0
1444	0	0	0	0	0
1445	0	0	0	0	0
1446	0	0	0	0	0
1447	0	0	0	0	0
1448	0	0	0	0	0
1449	0	0	0	0	0
1450	0	0	0	0	0
1451	0	0	0	0	0
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1453	0	1	0	0	0
1454	0	0	0	0	0
1455	0	0	0	0	0
1456	0	0	0	0	0
1457	0	0	0	1	0
			0	0	0
1458	0	0	U	U	U

0 0		MiscFeature_Gar2	MiscFeature_Othr	MiscFeature_Shed	MiscFeature_TenC	\
2 0 0 0 0 0 3 0 0 0 0 0 4 0 0 0 0 0 5 0 0 0 0 0 6 0 0 0 0 0 7 0 0 0 0 0 8 0 0 0 0 0 9 0 0 0 0 0 10 0 0 0 0 0 11 0 0 0 0 0 12 0 0 0 0 0 0 13 0	0					
3 0	1	0	0	0	0	
4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2	0	0	0	0	
5 0 0 1 0 6 6 0 0 0 0 0 7 0 0 0 0 0 8 0 0 0 0 0 9 0 0 0 0 0 10 0 0 0 0 0 11 0 0 0 0 0 12 0	3	0	0	0	0	
6 0	4	0	0	0	0	
7 0 0 1 0 8 0 0 0 0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0	5	0	0	1	0	
8 0	6	0	0	0	0	
9 0 0 0 0 10 0 0 0 0 11 0 0 0 0 12 0 0 0 0 13 0 0 0 0 14 0 0 0 0 15 0 0 0 0 16 0 0 1 0 17 0 0 1 0 18 0 0 0 0 0 19 0 <td< td=""><td>7</td><td>0</td><td>0</td><td>1</td><td>0</td><td></td></td<>	7	0	0	1	0	
10 0 0 0 0 11 0 0 0 0 12 0 0 0 0 13 0 0 0 0 14 0 0 0 0 15 0 0 0 0 16 0 0 1 0 17 0 0 1 0 18 0 0 0 0 0 19 0 0 0 0 0 20 0 0 0 0 0 0 21 0	8	0	0	0	0	
11 0 0 0 0 12 0 0 0 0 13 0 0 0 0 14 0 0 0 0 15 0 0 0 0 16 0 0 1 0 17 0 0 1 0 18 0 0 0 0 0 19 0 0 0 0 0 0 20 0 <t< td=""><td>9</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td></t<>	9	0	0	0	0	
12 0 0 0 0 13 0 0 0 0 14 0 0 0 0 15 0 0 0 0 16 0 0 1 0 17 0 0 1 0 18 0 0 0 0 19 0 0 0 0 20 0 0 0 0 20 0 0 0 0 21 0 0 0 0 22 0 0 0 0 23 0 0 0 0 24 0 0 0 0 25 0 0 0 0 26 0 0 0 0 28 0 0 0 0 29 0 0 0 0 1430 0 0 0 1431 0 <t< td=""><td>10</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td></t<>	10	0	0	0	0	
13 0 0 0 0 14 0 0 0 0 15 0 0 0 0 16 0 0 1 0 17 0 0 1 0 18 0 0 0 0 19 0 0 0 0 20 0 0 0 0 21 0 0 0 0 21 0 0 0 0 22 0 0 0 0 23 0 0 0 0 24 0 0 0 0 25 0 0 0 0 26 0 0 0 0 27 0 0 0 0 28 0 0 0 0 1429 0 0 0 0 1430 0 0 0 1431 0		0	0	0	0	
14 0 0 0 0 15 0 0 0 0 16 0 0 1 0 17 0 0 1 0 18 0 0 0 0 19 0 0 0 0 20 0 0 0 0 21 0 0 0 0 22 0 0 0 0 23 0 0 0 0 23 0 0 0 0 24 0 0 0 0 25 0 0 0 0 26 0 0 0 0 27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432	12	0	0	0	0	
15 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 0 1 1 0 1 1 0 1 0 1 1 0 0 1 1 0 0 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	13	0	0	0	0	
16 0 0 1 0 17 0 0 1 0 18 0 0 0 0 19 0 0 0 0 20 0 0 0 0 21 0 0 0 0 21 0 0 0 0 22 0 0 0 0 23 0 0 0 0 24 0 0 0 0 25 0 0 0 0 26 0 0 0 0 27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1433 0 0 0 0 1434	14	0	0	0	0	
17 0 0 1 0 18 0 0 0 0 19 0 0 0 0 20 0 0 0 0 21 0 0 0 0 22 0 0 0 0 23 0 0 0 0 24 0 0 0 0 25 0 0 0 0 26 0 0 0 0 27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 29 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435	15	0	0	0	0	
18 0 0 0 0 19 0 0 0 0 20 0 0 0 0 21 0 0 0 0 22 0 0 0 0 23 0 0 0 0 24 0 0 0 0 25 0 0 0 0 26 0 0 0 0 27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 </td <td>16</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td></td>	16	0	0	1	0	
19 0 0 0 0 20 0 0 0 0 21 0 0 0 0 22 0 0 0 0 23 0 0 0 0 24 0 0 0 0 25 0 0 0 0 26 0 0 0 0 27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437	17	0	0	1	0	
19 0 0 0 0 20 0 0 0 0 21 0 0 0 0 22 0 0 0 0 23 0 0 0 0 24 0 0 0 0 25 0 0 0 0 26 0 0 0 0 27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437	18	0	0	0	0	
20 0 0 0 0 21 0 0 0 0 22 0 0 0 0 23 0 0 0 0 24 0 0 0 0 25 0 0 0 0 26 0 0 0 0 27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 29 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1438 0 0 0 0 1439		0	0	0	0	
22 0 0 0 0 23 0 0 0 0 24 0 0 0 0 25 0 0 0 0 26 0 0 0 0 27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1440 0 0 0 0 <t< td=""><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td></td></t<>		0	0	0	0	
23 0 0 0 0 24 0 0 0 0 25 0 0 0 0 26 0 0 0 0 27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0	21	0	0	0	0	
24 0 0 0 0 25 0 0 0 0 26 0 0 0 0 27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 <t< td=""><td>22</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td></t<>	22	0	0	0	0	
24 0 0 0 0 25 0 0 0 0 26 0 0 0 0 27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 <t< td=""><td></td><td>0</td><td></td><td></td><td>0</td><td></td></t<>		0			0	
25 0 0 0 0 26 0 0 0 0 27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0		0				
26 0 0 0 0 27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0		0				
27 0 0 0 0 28 0 0 0 0 29 0 0 0 0 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0		0				
28 0 0 0 0 29 0 0 0 0 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1439 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0		0				
29 0 0 0 0 1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1439 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0		0		0		
1429 0 0 0 0 1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1449 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0		0			0	
1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1439 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0						
1430 0 0 0 0 1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1439 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0	1429	0	0	0	0	
1431 0 0 0 0 1432 0 0 0 0 1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1439 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0		0	0	0	0	
1433 0 0 0 0 1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1439 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0	1431	0	0	0	0	
1434 0 0 0 0 1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1439 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0	1432	0	0	0	0	
1435 0 0 0 0 1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1439 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0	1433	0	0	0	0	
1436 0 0 0 0 1437 0 0 0 0 1438 0 0 0 0 1439 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0	1434	0	0	0	0	
1437 0 0 0 0 1438 0 0 0 0 1439 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0	1435	0	0	0	0	
1437 0 0 0 0 1438 0 0 0 0 1439 0 0 0 0 1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0	1436	0	0	0	0	
14390000144000001441000014420000	1437	0	0	0		
14390000144000001441000014420000						
1440 0 0 0 0 1441 0 0 0 0 1442 0 0 0 0						
1441 0 0 0 0 1442 0 0 0 0						
1442 0 0 0 0						
	1443	0	0	0	0	
1444 0 0 0 0						

1445		0	0	0	
1446		0	0	0	
1447		0	0	0	
1448		0	0	0	
1449		0	0	0	
1450		0	0	0	
1451		0	0	0	
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1453		0	0	0	
1454		0	0	0	
1455		0	0	0	
1456		0	0	0	
1457		0	0	1	
1458		0	0	0	
	SaleType_COD	SaleType_CWD	SaleType_Con	SaleType_ConLD	\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
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15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	1	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
• • •	• • •	• • •	• • •	• • •	

1430	0	0	0	0		
1431	0	0	0	0		
1432	0	0	0	0		
1433	0	0	0	0		
1434	0	0	0	0		
1435	0	0	0	0		
1436	0	0	0	0		
1437	0	0	0	0		
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1453	0	0	0	0		
1454	0	0	0	0		
1455	0	0	0	0		
1456	0	0	0	0		
1457	0	0	0	0		
1458	0	0	0	0		
	SaleType_ConLI	SaleType_ConLw			SaleType_WD	\
0	0	0	0	0	1	
1	0	0	0	0	1	
2	0	0	0	0	1	
3	0	0	0	0	1	
4	0	0	0	0	1	
5 6	0	0	0	0	1	
7	0	0	0	0	1 1	
8	0	0	0	0	1	
9	0	0	0	0	1	
10	0	0	0	0	1	
11	0	0	1	0	0	
12	0	0	0	0	1	
13	0	0	1	0	0	
14	0	0	0	0	1	
15	0	0	0	0	1	
16	0	0	0	0	1	
	v	ŭ	v	v	_	

17	0	0	0	0		1
18	0	0	0	0		1
19	0	0	0	0		0
20	0	0	1	0		0
21	0	0	0	0		
22						1
	0	0	0	0		1
23	0	0	0	0		1
24	0	0	0	0		1
25	0	0	0	0		1
26	0	0	0	0		1
27	0	0	0	0		1
28	0	0	0	0		1
29	0	0	0	0		1
1.400	• • •		• •		••	
1429	0	0	0	0		1
1430	0	0	0	0		1
1431	0	0	0	0		1
1432	0	0	0	0		1
1433	0	0	0	0		1
1434	0	0	1	0		0
1435	0	0	0	0		1
1436	0	0	0	0		1
1437	0	0	0	0		1
1438	0	0	0	0		1
1439	0	0	0	0		1
1440	0	0	0	0	:	1
1441	0	0	0	0	:	1
1442	0	0	1	0		0
1443	0	0	1	0	(0
1444	0	0	0	0		1
1445	0	0	0	0		1
1446	0	0	0	0		1
1447	0	0	0	0		1
1448	0	0	0	0	:	1
1449	0	0	0	0	:	1
1450	0	0	0	0		1
1451	0	0	0	0		1
1452	0	0	0	0		1
1453	0	0	0	0		1
1454	0	0	0	0	:	1
1455	0	0	0	0	:	1
1456	0	0	0	0		1
1457	0	0	0	0		1
1458	0	0	0	0		1
	SaleCondition_Abnorml	SaleCondition_AdjLar	nd	SaleCondition_Alloca	\	
0	0		0	0		
1	0		0	0		

2	0	0	0
3	1	0	0
4	0	0	0
5	0	0	0
6		0	
7	0		0
	0	0	0
8	1	0	0
9	0	0	0
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19	1	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
		• • •	
1429	0	0	0
1430	0	0	0
1431	1	0	0
1432	1	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
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1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	1
1441	0	0	0
1442	0	0	0
1443	0	0	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
1447	0	0	0

1448 1449 1450 1451 1452 1453	0 0 0 0 1 0		0 0 0 0 0 0 0 0 0 0 0 0
1454 1455 1456 1457 1458	0 1 1 0 0		0 0 0 0 0 0 0 0
0 1 2	SaleCondition_Family 0 0 0	SaleCondition_Normal 1 1 1	SaleCondition_Partial 0 0 0
3 4 5 6	0 0 0 0	0 1 1 1	0 0 0 0
7 8 9 10	0 0 0 0	1 0 1 1	0 0 0 0
11 12 13 14	0 0 0	0 1 0 1	1 0 1 0
15 16 17 18	0 0 0 0	1 1 1 1	0 0 0 0
19 20 21 22	0 0 0 0	0 0 1 1	0 1 0 0
23 24 25 26	0 0 0 0	1 1 1	0 0 0 0
27 28 29	0 0 0	1 1 1	0 0 0
1429 1430 1431 1432	0 0 0 0	1 1 0 0	0 0 0 0

1433	0	1	0
1434	0	0	1
1435	0	1	0
1436	0	1	0
1437	0	1	0
1438	0	1	0
1439	0	1	0
1440	0	0	0
1441	0	1	0
1442	0	0	1
1443	0	0	1
1444	0	1	0
1445	0	1	0
1446	0	1	0
1447	0	1	0
1448	0	1	0
1449	0	1	0
1450	0	1	0
1451	0	1	0
1452	0	0	0
1453	0	1	0
1454	0	1	0
1455	0	0	0
1456	0	0	0
1457	0	1	0
1458	0	1	0

[2919 rows x 288 columns]

In [32]: all_data

Out[32]:	MSSubClass	LotFrontage	${ t LotArea}$	OverallQual	OverallCond	YearBuilt	\
0	4.110874	4.189655	9.042040	7	5	2003	
1	3.044522	4.394449	9.169623	6	8	1976	
2	4.110874	4.234107	9.328212	7	5	2001	
3	4.262680	4.110874	9.164401	7	5	1915	
4	4.110874	4.442651	9.565284	8	5	2000	
5	3.931826	4.454347	9.555064	5	5	1993	
6	3.044522	4.330733	9.218804	8	5	2004	
7	4.110874	4.196175	9.247925	7	6	1973	
8	3.931826	3.951244	8.719481	7	5	1931	
9	5.252273	3.931826	8.912069	5	6	1939	
10	3.044522	4.262680	9.323758	5	5	1965	
11	4.110874	4.454347	9.386392	9	5	2005	
12	3.044522	4.196175	9.470317	5	6	1962	

13	3.044522	4.521789	9.273597	7	5	2006
14	3.044522	4.196175	9.298443	6	5	1960
15	3.828641	3.951244	8.719481	7	8	1929
16	3.044522	4.196175	9.327412	6	7	1970
17	4.510860	4.290459	9.286560	4	5	1967
18	3.044522	4.204693	9.524859	5	5	2004
19	3.044522	4.262680	8.930759	5	6	1958
20	4.110874	4.624973	9.562123	8	5	2005
21	3.828641	4.060443	8.915969	7	7	1930
22	3.044522	4.330733	9.184304	8	5	2002
23		3.806662		5	7	1976
	4.795791		8.348775			
24	3.044522	4.196175	9.017605	5	8	1968
25	3.044522	4.709530	9.563178	8	5	2007
26	3.044522	4.110874	8.881975	5	7	1951
27	3.044522	4.595120	9.348275	8	5	2007
28	3.044522	3.871201	9.700269	5	6	1957
29	3.433987	4.110874	8.752265	4	6	1927
• • •				• • •		
1429	3.433987	3.931826	8.858084	4	6	1925
1430	3.931826	4.330733	9.111735	6	5	1957
1431	3.433987	4.248495	9.422787	3	5	1945
1432	5.252273	3.931826	9.105091	5	6	1951
1433	3.931826	4.110874	9.050289	3	5	1916
1434	4.795791	3.737670	8.656781	8	5	2005
1435	4.795791	3.806662	8.254009	8	5	2004
1436	3.044522	4.248495	10.068197	6	6	1979
1437	4.510860	4.189655	9.034319	6	5	1978
1438	3.044522	4.262680	9.117896	8	5	2001
1439	4.394449	4.948760	9.312987	6	6	1975
1440	3.044522	4.196175	10.821836	6	5	1958
1441	3.044522	4.196175	8.999496	6	5	2000
1442	3.044522	4.564348	9.519221	8	5	2005
1443	3.044522	4.488636	9.356862	9	5	2005
1444	3.044522	4.836282	10.349807	1	3	1951
1445	4.510860	4.369448	8.856661	7	5	1997
1446	5.081404	3.737670	7.888335	5	6	1977
1447	3.044522	4.077537	9.227492	5	7	1968
1448	4.510860	4.196175	9.378985	5	5	1970
1449	5.198497	3.091042	7.293698	4	6	1970
1450	5.081404	3.091042	7.303170	4	4	1972
1451	3.044522	4.394449	9.501890	5	5	1969
1452	5.081404	3.091042	7.335634	4	5	1970
1453	5.081404	3.091042	7.331060	4	5	1970
1454	5.081404	3.091042	7.568896	4	7	1970
1455	5.081404	3.091042	7.546974	4	5	1970
1456	3.044522	5.081404	9.903538	5	7	1960
1457	4.454347	4.143135	9.253591	5	5	1992
1458	4.110874	4.317488	9.172431	7	5	1993

	YearRemodAdd	MasVnrArea	BsmtFinSF1	BsmtFinSF2	${\tt BsmtUnfSF}$	\
0	2003	5.283204	6.561031	0.000000	5.017280	
1	1976	0.000000	6.886532	0.000000	5.652489	
2	2002	5.093750	6.188264	0.000000	6.075346	
3	1970	0.000000	5.379897	0.000000	6.293419	
4	2000	5.860786	6.486161	0.000000	6.196444	
5	1995	0.000000	6.597146	0.000000	4.174387	
6	2005	5.231109	7.222566	0.000000	5.762051	
7	1973	5.484797	6.756932	3.496508	5.379897	
8	1950	0.000000	0.000000	0.000000	6.859615	
9	1950	0.000000	6.747587	0.000000	4.948760	
10	1965	0.000000	6.810142	0.000000	4.905275	
11	2006	5.659482	6.906755	0.000000	5.181784	
12	1962	0.000000	6.603944	0.000000	5.170484	
13	2007	5.726848	0.000000	0.000000	7.309881	
14	1960	5.361292	6.598509	0.000000	6.255750	
15	2001	0.000000	0.000000	0.000000	6.725034	
16	1970	5.198497	6.361302	0.000000	6.056784	
17	1967	0.000000	0.000000	0.000000	0.000000	
18	2004	0.000000	6.472346	0.000000	6.150603	
19	1965	0.000000	6.224558	0.000000	6.265301	
20	2006	5.942799	0.000000	0.000000	7.055313	
21	1950	0.000000	0.000000	0.000000	6.458338	
22	2002	5.641907	0.000000	0.000000	7.483244	
23	1976	0.000000	6.734592	0.000000	5.303305	
24	2001	0.000000	5.241747	6.505784	5.323010	
25	2007	6.463029	0.000000	0.000000	7.356918	
26	2000	0.000000	5.459586	6.188264	5.198497	
27	2008	5.303305	7.105786	0.000000	6.188264	
28	1997	0.000000	7.153052	0.000000	5.337538	
29	1950	0.000000	0.000000	0.000000	6.255750	
	• • •	• • •	• • •	• • •		
1429	1950	0.000000	0.000000	0.000000	6.464588	
1430	1957	5.793014	0.000000	0.000000	6.875232	
1431	1950	0.000000	0.000000	0.000000	0.000000	
1432	1951	0.000000	0.000000	0.000000	6.493754	
1433	1950	0.000000	0.000000	0.000000	5.379897	
1434	2006	6.161207	7.361375	0.000000	0.000000	
1435	2005	5.231109	7.355641	0.000000	3.433987	
1436	1979	0.000000	6.655440	0.000000	6.745236	
1437	1978	0.000000	0.000000	0.000000	7.417580	
1438	2001	0.000000	0.000000	0.000000	7.307873	
1439	1975	5.552960	6.357842	0.000000	6.315358	
1440	1958	0.000000	6.813445	0.000000	6.584791	
1441	2000	0.000000	7.036148	4.762174	4.867534	
1442	2006	5.293305	7.208600	0.000000	5.937536	
1443	2006	5.948035	7.283448	0.000000	5.950643	

1444	1951	0.00000	0.00	00000	0.0000	0.0000	00	
1445	1997	5.30330	5 7.12	26087	0.0000	00 3.8286	41	
1446	1977	0.00000	0.00	00000	0.0000	00 5.5797	30	
1447	2003	0.00000	0 6.09	91310	0.0000	00 6.0497	33	
1448	1970	0.00000	0 5.03	10635	0.0000	00 7.3158	84	
1449	1970	0.00000	0 6.29	59581	0.0000	00 4.6913	48	
1450	1972	0.00000	0 5.53	33389	0.0000	00 5.6869	75	
1451	1979	5.27300	0 4.78	87492	5.8435	44 6.4645	88	
1452	1970	0.00000	0 6.0	13715	0.0000	00 4.9344	74	
1453	1970	0.00000	0.00	00000	0.0000	00 6.3044	49	
1454	1970	0.00000	0.00	00000	0.0000	00 6.3044	49	
1455	1970	0.00000	0 5.53	33389	0.0000	00 5.6869	75	
1456	1996	0.00000	0 7.1	10696	0.0000	0.0000	00	
1457	1992	0.00000	0 5.82	23046	0.0000	00 6.3561	08	
1458	1994	4.55387	7 6.63	32002	0.0000	00 5.4764	64	
	${\tt TotalBsmtSF}$	1stFlrSF	2ndFlrSF	LowQ	ualFinSF	${\tt GrLivArea}$	${\tt BsmtFullBath}$	\
0	6.753438	6.753438	6.751101		0.0	7.444833	1.0	
1	7.141245	7.141245	0.000000		0.0	7.141245	0.0	
2	6.825460	6.825460	6.765039		0.0	7.488294	1.0	
3	6.629363	6.869014	6.629363		0.0	7.448916	1.0	
4	7.044033	7.044033	6.960348		0.0	7.695758	1.0	
5	6.680855	6.680855	6.340359		0.0	7.217443	1.0	
6	7.430707	7.435438	0.000000		0.0	7.435438	1.0	
7	7.010312	7.010312	6.891626		0.0	7.645398	1.0	
8	6.859615	6.930495	6.624065		0.0	7.481556	0.0	
9	6.899723	6.982863	0.000000		0.0	6.982863	1.0	
10	6.947937	6.947937	0.000000		0.0	6.947937	1.0	
11	7.069874	7.075809	7.041412		0.0	7.751475	1.0	
12	6.816736	6.816736	0.000000		0.0	6.816736	1.0	
13	7.309881	7.309881	0.000000		0.0	7.309881	0.0	
14	7.134094	7.134094	0.000000		0.0	7.134094	1.0	
15	6.725034	6.751101	0.000000		0.0	6.751101	0.0	
16	6.912743	6.912743	0.000000		0.0	6.912743	1.0	
17	0.000000	7.167809	0.000000		0.0	7.167809	0.0	
18	7.016610	7.016610	0.000000		0.0	7.016610	1.0	
19	6.937314	7.200425	0.000000		0.0	7.200425	0.0	
20	7.055313	7.055313	7.105786		0.0	7.773594	0.0	
21	6.458338	7.011214	0.000000		0.0	7.011214	0.0	
22	7.483244	7.493317	0.000000		0.0	7.493317	0.0	
23	6.947937	6.966967	0.000000		0.0	6.966967	1.0	
24	6.966967	6.966967	0.000000		0.0	6.966967	1.0	
25	7.356918	7.378384	0.000000		0.0	7.378384	0.0	
26	6.803505	6.803505	0.000000		0.0	6.803505	0.0	
27	7.441320	7.441320	0.000000		0.0	7.441320	1.0	
28	7.303170	7.378384	0.000000		0.0	7.378384	1.0	
29	6.255750	6.255750	0.000000		0.0	6.255750	0.0	

1429	6.464588	6.464588	0.000000	0.0	6.464588		0.0
1430	6.875232	6.875232	6.510258	0.0	7.401842		0.0
1431	0.000000	6.593045	0.000000	0.0	6.593045		0.0
1432	6.493754	6.966967	5.820083	0.0	7.242082		0.0
1433	5.379897	6.357842	5.888878	0.0	6.842683		0.0
1434	7.361375	7.483807	0.000000	0.0	7.483807		2.0
1435	7.374629	7.406711	0.000000	0.0	7.406711		1.0
1436	7.393878	7.393878	0.000000	0.0	7.393878		0.0
1437	7.417580	7.417580	0.000000	0.0	7.417580		0.0
1438	7.307873	7.307873	0.000000	0.0	7.307873		0.0
1439	7.029088	7.099202	0.000000	0.0	7.099202		1.0
1440	7.398174	7.409136	0.000000	0.0	7.409136		1.0
1441	7.231287	7.247081	0.000000	0.0	7.247081		1.0
1442	7.455298	7.581210	0.000000	0.0	7.581210		1.0
1443	7.516977	7.516977	0.000000	0.0	7.516977		1.0
1444	0.000000	7.378384	0.000000	0.0	7.378384		0.0
1445	7.161622	7.221836	0.000000	0.0	7.221836		2.0
1446	5.579730	6.424869	6.535241	0.0	7.173958		0.0
1447	6.762730	6.774224	0.000000	0.0	6.774224		1.0
1448	7.410347	7.410347	0.000000	0.0	7.410347		0.0
1449	6.447306	6.447306	0.000000	0.0	6.447306		1.0
1450	6.304449	6.304449	6.304449	0.0	6.996681		0.0
1451	7.007601	7.215975	0.000000	0.0	7.215975		1.0
1452	6.304449	6.304449	6.304449	0.0	6.996681		0.0
1453	6.304449	6.304449	6.304449	0.0	6.996681		0.0
1454	6.304449	6.304449	6.304449	0.0	6.996681		0.0
1455	6.304449	6.304449	6.304449	0.0	6.996681		0.0
1456	7.110696	7.110696	0.000000	0.0	7.110696		1.0
1457	6.816736	6.878326	0.000000	0.0	6.878326		0.0
1458	6.904751	6.904751	6.912743	0.0	7.601402		0.0
	BsmtHalfBath	FullBath	${\tt HalfBath}$	${\tt BedroomAbvGr}$	KitchenAbvGr	\	
0	0.000000	2	1	3	0.693147		
1	0.693147	2	0	3	0.693147		
2	0.000000	2	1	3	0.693147		
3	0.000000	1	0	3	0.693147		
4	0.000000	2	1	4	0.693147		
5	0.000000	1	1	1	0.693147		
6	0.000000	2	0	3	0.693147		
7	0.000000	2	1	3	0.693147		
8	0.000000	2	0	2	1.098612		
9	0.000000	1	0	2	1.098612		
10	0.000000	1	0	3	0.693147		
11	0.000000	3	0	4	0.693147		
12	0.000000	1	0	2	0.693147		
13	0.000000	2	0	3	0.693147		
14	0.000000	1	1	2	0.693147		
15	0.000000	1	0	2	0.693147		

16	0.000000	1	0	2	0.693147
17	0.000000	2	0	2	1.098612
18	0.000000	1	1	3	0.693147
19	0.000000	1	0	3	0.693147
20	0.000000	3	1	4	0.693147
21	0.000000	1	0	3	0.693147
22	0.000000	2	0	3	0.693147
23	0.000000	1	0	3	0.693147
24	0.000000	1	0	3	0.693147
25	0.000000	2	0	3	0.693147
26	0.693147	1	0	3	0.693147
27	0.000000	2	0	3	0.693147
28	0.000000	1	0	2	0.693147
29	0.000000	1	0	1	0.693147
• • •	• • •	• • •	• • •	• • •	• • •
1429		1	0	2	0.693147
1430		2	0	4	0.693147
1431	0.000000	1	0	2	0.693147
1432		2	0	4	1.098612
1433		1	0	2	0.693147
1434	0.000000	2	0	2	0.693147
1435	0.693147	2	0	2	0.693147
1436	0.693147	2	0	3	0.693147
1437	0.000000	2	0	4	1.098612
1438	0.000000	2	0	3	0.693147
1439	0.000000	2	0	3	0.693147
1440	0.000000	1	0	2	0.693147
1441	0.000000	2	0	2	0.693147
1442	0.000000	2	0	3	0.693147
1443	0.000000	2	0	3	0.693147
1444		1	1	3	0.693147
1445		2	0	2	1.098612
1446	0.000000	1	1	3	0.693147
1447		1	0	3	0.693147
1448		2	0	4	1.098612
1449		1	0	1	0.693147
1450		1	1	3	0.693147
1451		1	0	3	0.693147
1452		1	1	3	0.693147
1453		1	1	3	0.693147
					0.693147
1454		1	1	3	
1455		1	1	3	0.693147
1456		1	0	4	0.693147
1457		1	0	3	0.693147
1458	0.000000	2	1	3	0.693147
	m . D	.	a	a ~	a .
•	TotRmsAbvGrd	Fireplaces	GarageYrBlt	GarageCars	GarageArea
0	8	0	2003.000000	2.0	548.0

1	6	1	1976.000000	2.0	460.0
2	6	1	2001.000000	2.0	608.0
3	7	1	1998.000000	3.0	642.0
4	9	1	2000.000000	3.0	836.0
5	5	0	1993.000000	2.0	480.0
6	7	1	2004.000000	2.0	636.0
7	7	2	1973.000000	2.0	484.0
8	8	2	1931.000000	2.0	468.0
9	5	2	1939.000000	1.0	205.0
10	5	0	1965.000000	1.0	384.0
11	11	2	2005.000000	3.0	736.0
12	4	0	1962.000000	1.0	352.0
13	7	1	2006.000000	3.0	840.0
14	5	1	1960.000000	1.0	352.0
15	5	0	1991.000000	2.0	576.0
16	5	1	1970.000000	2.0	480.0
					516.0
17	6	0	1967.000000	2.0	
18	6	0	2004.000000	2.0	576.0
19	6	0	1958.000000	1.0	294.0
20	9	1	2005.000000	3.0	853.0
21	6	1	1930.000000	1.0	280.0
22	7	1	2002.000000	2.0	534.0
23	6	1	1976.000000	2.0	572.0
24	6	1	1968.000000	1.0	270.0
25	7	1	2007.000000	3.0	890.0
26	5	0	2005.000000	2.0	576.0
27	7	1	2008.000000	3.0	772.0
28	6	2	1957.000000	1.0	319.0
29	4	0	1920.000000	1.0	240.0
1429	4	0	1925.000000	1.0	272.0
1430	6	0	1957.000000	1.0	384.0
1431	5	0	1978.113406	0.0	0.0
1432	8	0	1978.113406	0.0	0.0
1433	6	0	1978.113406	0.0	0.0
1434	5	1	2005.000000	2.0	495.0
1435	5	1	2004.000000	2.0	525.0
1436	6	1	1979.000000	2.0	576.0
1437	10	0	1978.000000	2.0	616.0
1438	7	0	2001.000000	2.0	490.0
1439	6	0	1975.000000	2.0	528.0
1440	6	2	1958.000000	2.0	518.0
1441	5	0	2000.000000	2.0	470.0
1442	8	2	2005.000000	3.0	714.0
1443	9	1	2005.000000	3.0	682.0
1444	6	0	1951.000000	1.0	270.0
1445	8	0	1997.000000	4.0	784.0
1446	5	1	1977.000000	1.0	336.0
1110	J	_	1311.00000	1.0	000.0

1447		5 0	1968.000000	1.0	288.0	
1448		8 0	1970.000000	3.0	928.0	
1449		3 0	1978.113406	0.0	0.0	
1450		5 0	1972.000000	1.0	253.0	
1451		8 1		1.0	336.0	
1452		5 0	1970.000000	1.0	286.0	
1453		5 0	1978.113406	0.0	0.0	
1454		5 0	1978.113406	0.0	0.0	
			1970.000000	1.0	286.0	
1455						
1456		7 1	1960.000000	2.0	576.0	
1457		6 0	1978.113406	0.0	0.0	
1458		9 1	1993.000000	3.0	650.0	
	WoodDeckSF	OpenPorchSF	EnclosedPorch	3SsnPorch	ScreenPorch	\
0	0.000000	4.127134	0.000000	0.000000	0.000000	`
1	5.700444	0.000000	0.000000	0.000000	0.000000	
2	0.000000	3.761200	0.000000	0.000000	0.000000	
3	0.000000	3.583519	5.609472	0.000000	0.000000	
4	5.262690	4.442651	0.000000	0.000000	0.000000	
5	3.713572	3.433987	0.000000	5.771441	0.000000	
6	5.715572	4.060443	0.000000	0.000000	0.000000	
7	5.463832	5.323010	5.433722	0.000000	0.000000	
8	4.510860	0.000000	5.327876	0.000000	0.000000	
9	0.000000	1.609438	0.000000	0.000000	0.000000	
10	0.000000	0.000000	0.000000	0.000000	0.000000	
11	4.997212	3.091042	0.000000	0.000000	0.000000	
12	4.948760	0.000000	0.000000	0.00000	5.176150	
13	5.081404	3.526361	0.000000	0.000000	0.000000	
14	0.000000	5.365976	5.176150	0.000000	0.000000	
15	3.891820	4.727388	0.000000	0.000000	0.000000	
16	0.000000	0.000000	0.000000	0.000000	0.000000	
17	0.000000	0.000000	0.000000	0.000000	0.000000	
18	0.000000	4.634729	0.000000	0.000000	0.000000	
19	0.000000	0.000000	0.000000	0.000000	0.000000	
20	5.484797	5.043425	0.000000	0.000000	0.000000	
21	0.000000	0.000000	5.327876	0.000000	0.000000	
22	5.147494	5.075174	0.000000	0.000000	0.000000	
23	4.615121	4.709530	0.000000	0.000000	0.000000	
24	6.008813	4.510860	0.000000	0.000000	0.000000	
25	0.000000	4.043051	0.000000	0.000000	0.000000	
26	5.407172	3.496508	0.000000	0.000000	0.000000	
27	0.000000	3.931826	0.000000	0.00000	0.000000	
28	5.666427	5.556828	0.000000	0.000000	0.000000	
29	3.912023	0.000000	4.477337	0.000000	0.000000	
		3.00000				
1429	5.220356	0.000000	4.262680	0.000000	0.000000	
1430	0.000000	3.091042	0.000000	0.000000	0.000000	
1431	0.000000	0.000000	3.178054	0.000000	0.000000	
1401	0.00000	0.00000	0.110004	0.00000	0.00000	

143	2 0.00000	0.00	0000	0.000	000	0.000000	0.000000	
143	3 0.000000	0.00	0000	0.000	000	0.000000	0.000000	
143			8984	0.000	000	0.000000	5.036953	
143			8984	0.000		0.000000	5.049856	
143			7296	0.000		0.000000	0.000000	
143			0000	0.000		0.000000	0.000000	
143			5121	0.000		0.000000	0.000000	
143			0000	0.000		0.000000	0.000000	
144			0000	0.000		0.000000	4.934474	
144			9055	0.000		0.000000	0.000000	
144			3562	0.000		0.000000	0.000000	
144			0535	0.000		0.000000	0.000000	
144			0000	4.912		0.000000	0.000000	
144			1820	0.000		0.000000	0.000000	
144			0000	0.000		0.000000	0.000000	
144			5791	0.000		0.000000	0.000000	
144			0000	0.000		0.000000	0.000000	
144			0000	0.000		0.000000	0.000000	
145			0000	0.000		0.000000	0.000000	
145			0000	0.000		0.000000	0.000000	
145			0000	0.000		0.000000	0.000000	
145			5348	0.000		0.000000	0.000000	
145			0000	0.000		0.000000	0.000000	
145			8876	0.000	000	0.000000	0.000000	
145	6.16331	5 0.00	0000	0.000	000	0.000000	0.000000	
145	7 4.394449	9 3.49	6508	0.000	000	0.000000	0.000000	
145	8 5.252273	3 3.89	1820	0.000	000	0.000000	0.000000	
	PoolArea	${ t MiscVal}$	MoSold	YrSold	MSZ	oning_C (all)	MSZoning_F	V \
0	0.0	0.000000	2	2008		0	()
1	0.0	0.000000	5	2007		0	()
2	0.0	0.000000	9	2008		0	()
3	0.0	0.000000	2	2006		0	()
4	0.0	0.000000	12	2008		0	()
5	0.0	6.552508	10	2009		0	()
6	0.0	0.000000	8	2007		0	()
7	0.0	5.860786	11	2009		0	(0
8	0.0	0.000000	4	2008		0	()
9	0.0	0.000000	1	2008		0	()
10	0.0	0.000000	2	2008		0	()
11	0.0	0.000000	7	2006		0	()
12	0.0	0.000000	9	2008		0)
13	0.0	0.000000	8	2007		0)
14	0.0	0.000000	5	2008		0)
15	0.0	0.000000	7	2007		0)
16	0.0	6.552508	3	2010		0)
17	0.0	6.216606	10	2006		0)
18	0.0	0.000000	6	2008		0)
10	0.0	3.00000	J	2000		V	`	-

19	0.0	0.000000	5	2009		0	0
20	0.0	0.000000	11	2006		0	0
21	0.0	0.000000	6	2007		0	0
22	0.0	0.000000	9	2008		0	0
23	0.0	0.000000	6	2007		0	0
24	0.0	0.000000	5	2010		0	0
25	0.0	0.000000	7	2009		0	0
26	0.0	0.000000	5	2010		0	0
27	0.0	0.000000	5	2010		0	0
28	0.0	0.000000	12	2006		0	0
29	0.0	0.000000	5	2008		0	0
1429	0.0	0.000000	3	2006		0	0
1430	0.0	0.000000	4	2006		0	0
1431	0.0	0.000000	10	2006		1	0
1432	0.0	0.000000	10	2006		1	0
1433	0.0	0.000000	4	2006		1	0
1434	0.0	0.000000	2	2006		0	0
1435	0.0	0.000000	12	2006		0	0
1436	0.0	0.000000	9	2006		0	0
1437	0.0	0.000000	10	2006		0	0
1438	0.0	0.000000	5	2006		0	0
1439	0.0	0.000000	5	2006		0	0
1440	0.0	0.000000	3	2006		0	0
1441	0.0	0.000000	10	2006		0	0
1442	0.0	0.000000	11	2006		0	0
1443	0.0	0.000000	9	2006		0	0
1444	0.0	0.000000	5	2006		0	0
1445	0.0	0.000000	11	2006		0	0
1446	0.0	0.000000	5	2006		0	0
1447	0.0	0.000000	10	2006		0	0
1448	0.0	0.000000	3	2006		0	0
1449	0.0	0.000000	4	2006		0	0
1450	0.0	0.000000	5	2006		0	0
1451	0.0	0.000000	5	2006		0	0
1452	0.0	0.000000	12	2006		0	0
1453	0.0	0.000000	6	2006		0	0
1454	0.0	0.000000	6	2006		0	0
1455	0.0	0.000000	4	2006		0	0
1456	0.0	0.000000	9	2006		0	0
1457	0.0	6.552508	7	2006		0	0
1458	0.0	0.000000	11	2006		0	0
				••		-	•
	MSZoning_	RH MSZoniı	ng_RL MSZ	Coning_RM	Street_Grvl	Street_Pave	\
0	0_	0	1	0	0	1	
1		0	1	0	0	1	
2		0	1	0	0	1	
3		0	1	0	0	1	

1	0	1	0	0	1
4 5	0	1	0	0	1
6	0	1	0	0	1
7	0	1		0	1
			0		
8	0	0	1	0	1
9	0	1	0	0	1
10	0	1	0	0	1
11	0	1	0	0	1
12	0	1	0	0	1
13	0	1	0	0	1
14	0	1	0	0	1
15	0	0	1	0	1
16	0	1	0	0	1
17	0	1	0	0	1
18	0	1	0	0	1
19	0	1	0	0	1
20	0	1	0	0	1
21	0	0	1	0	1
22	0	1	0	0	1
23	0	0	1	0	1
24	0	1	0	0	1
25	0	1	0	0	1
26	0	1	0	0	1
27	0	1	0	0	1
28	0	1	0	0	1
29	0	0	1	0	1
• • •	• • •	• • •	• • •	• • •	• • •
1429	0	0	1	0	1
1430	0	0	1	0	1
1431	0	0	0	0	1
1432	0	0	0	0	1
1433	0	0	0	1	0
1434	0	0	1	0	1
1435	0	0	1	0	1
1436	0	1	0	0	1
1437	0	1	0	0	1
1438	0	1	0	0	1
1439	0	1	0	0	1
1440	0	1	0	0	1
1441	0	1	0	0	1
1442	0	1	0	0	1
1443	0	1	0	0	1
1444	0	0	0	0	1
1445	0	0	1	0	1
1446	0	0	1	0	1
1447	0	1	0	0	1
1448	0	1	0	0	1
1449	0	0	1	0	1

1450	0		0 1	0	1
1451	0		1 0	0	1
1452	0		0 1	0	1
1453	0		0 1	0	1
1454	0		0 1	0	1
1455	0		0 1	0	1
1456	0		1 0	0	1
1457	0		1 0	0	1
1458	0		1 0	0	1
	Alley_Grvl	Alley_Pave	LotShape_IR1	LotShape_IR2	LotShape_IR3 \
0	0	0	0	0	0
1	0	0	0	0	0
2	0	0	1	0	0
3	0	0	1	0	0
4	0	0	1	0	0
5	0	0	1	0	0
6	0	0	0	0	0
7	0	0	1	0	0
8	0	0	0	0	0
9	0	0	0	0	0
10	0	0	0	0	0
11	0	0	1	0	0
12	0	0	0	1	0
13	0	0	1	0	0
14	0	0	1	0	0
15 16	0	0	0 1	0	0
17	0	0	0	0	0
18	0	0	0	0	0
19	0	0	0	0	0
20	0	0	1	0	0
21	1	0	0	0	0
22	0	0	0	0	0
23	0	0	0	0	0
24	0	0	1	0	0
25	0	0	0	0	0
26	0	0	0	0	0
27	0	0	0	0	0
28	0	0	1	0	0
29	0	0	1	0	0
• • •	• • •	• • •	•••	• • •	•••
1429	0	0	0	0	0
1430	0	0	0	0	0
1431	0	0	0	0	0
1432	0	0	0	0	0
1433	0	0	0	0	0
1434	0	0	1	0	0

1435	0	0	1	0	0
1436	0	0	1	0	0
1437	0	0	0	0	0
1438	0	0	0	0	0
1439	0	0	0	0	0
1440	0	0	1	0	0
1441	0	0	1	0	0
1442	0	0	0	0	0
1443	0	0	0	0	0
1444	0	0	0	0	0
1445	0	0	0	0	0
1446	0	0	0	0	0
1447	0	0	1	0	0
1448	0	0	1	0	0
1449	0	0	0	0	0
1450	0	0	0	0	0
1451	0	0	0	0	0
1452	0	0	0	0	0
1453	0	0	0	0	0
1454	0	0	0	0	0
1455	0	0	0	0	0
1456	0	0	0	0	0
1457	0	0	0	0	0
1458	0	0	0	0	0
	LotShape_Reg	LandContour_Bnk	LandContour_HLS	LandCont	our_Low \
0	LotShape_Reg	LandContour_Bnk 0	LandContour_HLS		0
0 1	1 1	0	0		0 0
0 1 2	1 1 0	0	0 0 0		0 0 0
0 1 2 3	1 1 0 0	0	0 0 0		0 0 0
0 1 2 3 4	1 1 0 0 0	0 0 0 0	0 0 0 0		0 0 0 0
0 1 2 3 4 5	1 1 0 0 0 0	0 0 0 0 0	0 0 0 0 0		0 0 0 0 0
0 1 2 3 4 5	1 1 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		0 0 0 0 0
0 1 2 3 4 5 6 7	1 1 0 0 0 0 0 1	0 0 0 0 0 0	0 0 0 0 0 0		0 0 0 0 0 0
0 1 2 3 4 5 6 7 8	1 1 0 0 0 0 0 1	0 0 0 0 0 0 0	0 0 0 0 0 0 0		0 0 0 0 0 0
0 1 2 3 4 5 6 7 8	1 1 0 0 0 0 1 0 1 1	0 0 0 0 0 0 0	0 0 0 0 0 0 0		0 0 0 0 0 0 0
0 1 2 3 4 5 6 7 8 9	1 1 0 0 0 0 1 0 1 1 1	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0		0 0 0 0 0 0 0
0 1 2 3 4 5 6 7 8 9 10 11	1 1 0 0 0 0 1 0 1 1 1 1	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0
0 1 2 3 4 5 6 7 8 9 10 11 12	1 1 0 0 0 0 1 1 1 1 1 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0
0 1 2 3 4 5 6 7 8 9 10 11 12 13	1 1 0 0 0 0 1 1 1 1 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0		
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	1 1 0 0 0 0 1 1 1 1 1 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0		
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1 1 0 0 0 0 1 1 1 1 1 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0		
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	1 1 0 0 0 0 1 1 0 1 1 1 0 0 0 0 0				
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	1 1 0 0 0 0 1 1 1 1 1 0 0 0 0 0 1 1 0 0 0				
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	1 1 0 0 0 0 1 1 1 1 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 0				
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	1 1 0 0 0 0 1 1 1 1 1 0 0 0 0 0 0 1 1 1 1 1 0 0 0 0 0 1				
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	1 1 0 0 0 0 1 1 1 1 1 0 0 0 0 0 1 1 1 1				
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	1 1 0 0 0 0 1 1 1 1 1 0 0 0 0 0 0 1 1 1 1 1 0 0 0 0 0 1				

22	1	0	0	0	
23	1	0	0	0	
24	0	0	0	0	
25	1	0	0	0	
26	1	0	0	0	
27	1	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
	O				
 1429	1	0	0	0	
1430	1	0	0	0	
1431	1	0	0	0	
1431	1	0	0	0	
1433	1	1	0	0	
1434	0	0	1	0	
1435	0	0	1	0	
1436	0	0	0	0	
1436		0			
	1		0	0	
1438	1	0	0	0	
1439	1	0	0	0	
1440	0	0	0	1	
1441	0	0	0	0	
1442	1	0	0	0	
1443	1	0	0	0	
1444	1	0	0	0	
1445	1	0	0	0	
1446	1	0	0	0	
1447	0	0	0	0	
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1450	1	0	0	0	
1451	1	0	0	0	
1452	1	0	0	0	
1453	1	0	0	0	
1454	1	0	0	0	
1455	1	0	0	0	
1456	1	0	0	0	
1457	1	0	0	0	
1458	1	0	0	0	
	LandContour_Lvl	Utilities_AllPub	Utilities_NoSeWa	LotConfig_Corner	\
0	1	1	0	0	
1	1	1	0	0	
2	1	1	0	0	
3	1	1	0	1	
4	1	1	0	0	
5	1	1	0	0	
6	1	1	0	0	

7	1	1	0	1
8	1	1	0	0
9	1	1	0	1
10	1	1	0	0
11	1	1	0	0
12	1	1	0	0
13	1	1	0	0
14	1	1	0	1
15	1	1	0	1
16	1	1	0	0
17	1	1	0	0
18	1	1	0	0
19	1	1	0	0
20	1	1	0	1
21	0	1	0	0
22	1	1	0	0
23	1	1	0	0
24	1	1	0	0
25	1	1	0	1
26	1	1	0	1
27	1	1	0	0
28	1	1	0	0
29	1	1	0	0
• • •	• • •	• • •	• • •	• • •
1429	1	1	0	0
1430	1	1	0	0
1431	1	1	0	0
1432	1	1	0	0
1433	0	1	0	0
1434	0	1	0	0
1435	0	1	0	0
1436	1	1	0	0
1437	1	1	0	0
1438	1	1	0	1
1439	1	1	0	1
1440	0	1	0	0
1441	1	1	0	0
1442	1	1	0	1
1443	1	1	0	0
1444	1	1	0	0
1445	1	1	0	0
1446	1	1	0	0
1447	1	1	0	0
1448	1	1	0	1
1449	1	1	0	0
1450	1	1	0	0
1451				^
1452	1 1	1 1	0 0	0

1453 1454	1 1	1		0 0	0
1454	1	1		0	0
1456					
	1	1		0	0
1457	1	1		0	0
1458	1	1		0	0
	LotConfig_CulDSac				\
0	0	0	0	1	
1	0	1	0	0	
2	0	0	0	1	
3	0	0	0	0	
4	0	1	0	0	
5	0	0	0	1	
6	0	0	0	1	
7	0	0	0	0	
8	0	0	0	1	
9	0	0	0	0	
10	0	0	0	1	
11	0	0	0	1	
12	0	0	0	1	
13	0	0	0	1	
14	0	0	0	0	
15	0	0	0	0	
16	1	0	0	0	
17	0	0	0	1	
18	0	0	0	1	
19 20	0	0	0	1 0	
21	0	0	0	1	
22	0	0	0	1	
23	0	0	0	1	
24	0	0	0	1	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	1	
28	1	0	0	0	
29	0	0	0	1	
1429	0	0	0	1	
1430	0	0	0	1	
1431	0	0	0	1	
1432	0	0	0	1	
1433	0	0	0	1	
1434	0	0	0	1	
1435	0	0	0	1	
1436	0	0	0	1	
1437	0	0	0	1	

1438		0	0		0	0	
1439		0	0		0	0	
1440		0	0		0	1	
1441		0	0		0	1	
1442		0	0		0	0	
1443		0	0		0	1	
1444		0	0		0	1	
1445		0	0		0	1	
1446		0	0		0	1	
1447		0	0		0	1	
1448		0	0		0	0	
1449		0	0		0	1	
1450		0	0		0	1	
1451		0	0		0	1	
1452		0	0		0	1	
1453		0	0		0	1	
1454		0	0		0	1	
1455		0	0		0	1	
1456		0	0		0	1	
1457		0	0		0	1	
1458		0	0		0	1	
	LandSlope_Gtl	LandSlope_Mod	LandSlor	oe Sev	Neighborhood_Blm	ngtn	\
0	1	0	1	0	0 -	0	·
1	1	0		0		0	
2	1	0		0		0	
3	1	0		0		0	
4	1	0		0		0	
5	1	0		0		0	
6	1	0		0		0	
7	1	0		0		0	
8	1	0		0		0	
9	1	0		0		0	
10	1	0		0		0	
11	1	0		0		0	
12	1	0		0		0	
13	1	0		0		0	
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18	1	0		0		0	
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22	-			-			
	1	0		0		0	
23	1			0 0		0	
23 24	1 1 1	0 0 0				0 0 0	

25	1	0	0	0
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1450	1	0	0	0
1451	0	1	0	0
1452	1	0	0	0
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1454	1	0	0	0
1455	1	0	0	0
1456	1	0	0	0
1457 1458	1 0	0 1	0	0
1100	v	1		Ū
	Neighborhood_Blueste		Neighborhood_BrkSide	
0	0	0	(
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3	0	0	(
4	0	0	(
5	0	0	(
6	0	0	(
7	0	0	(
8	0	0	(
9	0	0	1	L

10	0	0	0
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12	0	0	0
13	0	0	0
14	0	0	0
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16	0	0	0
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18	0	0	0
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23	0	0	0
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26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	1
	• • •	•••	• • •
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436 1437	0 0	0 0	0
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1439	0	0	0
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1441	0	0	0
1442	0	0	0
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1453	0	0	0
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1455	0	0	0
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1456 1457	0	0	0
1457	0	0	0
1100	·	•	·
	Neighborhood_ClearCr	Neighborhood_CollgCr	Neighborhood_Crawfor \
0	0	1	0
1	0	0	0
2	0	1	0
3	0	0	1
4	0	0	0
5	0	0	0
6 7	0	0	0
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22	0	1	0
23	0	0	0
24 25	0	0	0
25 26	0	0	0
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	•••	•••	
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	${\tt Neighborhood_Edwards}$	${\tt Neighborhood_Gilbert}$	Neighborhood_IDOTRR \
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20	0	0	0
21	0	0	1
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0

28 29	0	0	0
	• • •	• • •	• • •
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1431	0	0	1
1432	0	0	1
1433	0	0	1
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1456 1457	0	0	0
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1456			
	Neighborhood_MeadowV	Neighborhood_Mitchel	_
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1	0	0	0
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3	0	0	0
4	0	0	0
5	0	1	0
6	0	0	0
7 8	0	0	0
9	0	0	0
9 10	0	0	0
11	0	0	0
12	0	0	0
12	0	0	U

13	0	0	0
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15	0	0	0
16	0	0	1
17	0	0	0
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19	0	0	1
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21	0	0	0
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23	1	0	0
24	0	0	0
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26	0	0	1
27	0	0	0
28	0	0	1
29	0	0	0
	•••	•••	
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1430	0	0	0
1431	0	0	0
1432	0	0	0
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1455	1	0	0
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1457	0	1	0
1458	0	1	0

			Neighborhood_NoRidge	\
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2	0	0	0	
3	0	0	0	
4	0	0	1	
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6	0	0	0	
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25	0	0	0	
26	0	0	0	
27	0	0	0	
28	0	0	0	
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• • •	• • •	• • •	• • •	
1429	0	0	0	
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1432	0	0	0	
1433	0	0	0	
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1456	0	0	0	
1457	0	0	0	
1458	0	0	0	
	Neighborhood_NridgHt	Neighborhood_OldTown	Neighborhood SWISU \	\
0	0	0	0	`
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3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	
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1454	0	0	0	
1455	0	0	0	
1456	0	0	0	
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1458	0	0	0	
	Neighborhood_Sawyer	Neighborhood_SawyerW	Neighborhood_Somerst	\
0	0	0	0	
1	0	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
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8	0	0	0	
9	0	0	0	
10	1	0	0	
11	0	0	0	
12	1	0	0	
13	0	0	0	
14	0	0	0	
15	0	0	0	

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17	1	0	0	
18	0	1	0	
19	0	0	0	
20	0	0	0	
21	0	0	0	
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24	1	0	0	
25	0	0	0	
26	0	0	0	
27	0	0	0	
28	0	0	0	
29	0	0	0	
	• • •	•••	• • •	
1429	0	0	0	
1430	0	0	0	
1431	0	0	0	
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1433	0	0	0	
1434	0	0	0	
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1454	0	0	0	
1455	0	0	0	
1456	0	0	0	
1456				
	0	0	0	
1458	0	0	0	
	Noighbombord Ctor De	Noighbombood Timber	Noighbombood Variation	`
^	Neighborhood_StoneBr	_	_	'
0	0	0	0	

1	0	0	1
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
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10	0	0	0
11	0	0	0
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23	0	0	0
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25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
	• • •		
1429	0	0	0
1430	0	0	0
1431	0	0	0
1432	0	0	0
1433	0	0	0
1434	0	0	0
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1441	0	1	0
1442	0	1	0
1443	0	1	0
1444	0	0	0
1445	0	0	0
1446	0	0	0
	*	•	-

1447		0	0	0	
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1449		0	0	0	
1450		0	0	0	
1451		0	0	0	
1452		0	0	0	
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1455		0	0	0	
1456		0	0	0	
1457		0	0	0	
1458		0	0	0	
	Condition1_Artery	Condition1_Feedr	Condition1_Norm	Condition1_PosA	\
0	0	0	1	0	
1	0	1	0	0	
2	0	0	1	0	
3	0	0	1	0	
4	0	0	1	0	
5	0	0	1	0	
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			1		
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28	0	0		0	
29	0	1	0	0	
1420				• • • •	
1429	0	0	1	0	
1430	0	0	1	0	
1431	0	1	0	0	

1432		0	0	1	0
1433		0	0	1	0
1434		0	0	1	0
1435		0	0	1	0
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1449		0	0	1	0
1450		0			
1451		0	0	1	0
1452			0	1	0
1453		0	0	1	0
				1	
1455		0	0	1	0
1456		0	0	1	0
1457		0	0	1	0
1458		0	0	1	0
	G 1:.: 4 D N	Q 1::: 4 DD4	0 1:1: 4 DD4	G 1:1: 4 DDM	,
0	Condition1_PosN		Condition1_RRAn		\
0	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
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14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17					
17 18	0	0 1	0	0	

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27	0	0	0	0
28	0	0	0	0
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		• • •	• • •	
1429	0	0	0	0
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1431	0	0	0	0
1432	0	0	0	0
1433	0	0	0	0
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1446	0	0	0	0
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1448	0	0	0	0
		0	0	0
1449	0	v	v	
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1452	0	0	0	0
1453	0	0	0	0
1454	0	0	0	0
1455	0	0	0	0
1456	0	0	0	0
1457	0	0	0	0
1458	0	0	0	0
	a 1 4 55	a 11.1 a 1	a 11.1 0.5 5	a
	Condition1_RRNn	Condition2_Artery	Condition2_Feedr	Condition2_Norm \
0	0	0	0	1
1	0	0	0	1
2	0	0	0	1
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12	0	0	0	1
13	0	0	0	1
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25	0	0	0	1
26	0	0	0	1
27	0	0	0	1
28	0	0	0	1
29	0	0	0	0
• • •	• • •	• • •	• • •	
1429	0	0	0	1
1430	0	0	0	1
1431	0	0	0	1
1432	0	0	0	1
1433	0	0	0	1
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1447	0	0	0	1
1448	0	0	0	1
1449	0	0	0	1

1450 1451 1452 1453 1454 1455	0 0 0 0 0		0 0 0 0 0	0 0 0 0 0	1 1 1 1 1
1456	0		0	0	1
1457	0		0	0	1
1458	0		0	0	1
	Condition2 PosA	Condition2_PosN	Condition2 RRAe	Condition2 RRAn	. \
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
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9 10	0	0	0	0	
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2 4 25	0	0	0	0	
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1434	0	0	0	0	

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1439	0				0
1440	0				0
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1451	0				0
1452	0				0
1453	0				0
1454	0				0
1455	0				0
1456	0				0
1457	0				0
1/152	()		()	\cap	()
1458	0		0	0	0
1458					
	Condition2_RRNn	BldgType_1Fam	BldgType_2fmCon	BldgType_Duplex	0
0	Condition2_RRNn 0	BldgType_1Fam 1	BldgType_2fmCon 0	BldgType_Duplex 0	
	Condition2_RRNn	BldgType_1Fam	BldgType_2fmCon	BldgType_Duplex	
0	Condition2_RRNn 0 0	BldgType_1Fam 1 1	BldgType_2fmCon 0 0	BldgType_Duplex 0 0	
0 1 2	Condition2_RRNn 0 0 0	BldgType_1Fam 1 1 1	BldgType_2fmCon 0 0 0	BldgType_Duplex 0 0 0	
0 1 2 3	Condition2_RRNn 0 0 0 0	BldgType_1Fam 1 1 1 1	BldgType_2fmCon 0 0 0 0	BldgType_Duplex 0 0 0 0	
0 1 2 3 4	Condition2_RRNn 0 0 0 0 0 0	BldgType_1Fam 1 1 1 1 1	BldgType_2fmCon 0 0 0 0 0	BldgType_Duplex 0 0 0 0 0 0	
0 1 2 3 4 5	Condition2_RRNn 0 0 0 0 0 0 0	BldgType_1Fam 1 1 1 1 1 1	BldgType_2fmCon 0 0 0 0 0 0 0	BldgType_Duplex 0 0 0 0 0 0 0	
0 1 2 3 4 5	Condition2_RRNn 0 0 0 0 0 0 0 0 0	BldgType_1Fam	BldgType_2fmCon 0 0 0 0 0 0 0 0 0 0	BldgType_Duplex 0 0 0 0 0 0 0 0 0	
0 1 2 3 4 5 6 7	Condition2_RRNn 0 0 0 0 0 0 0 0 0 0	BldgType_1Fam	BldgType_2fmCon	BldgType_Duplex 0 0 0 0 0 0 0 0 0 0	
0 1 2 3 4 5 6 7	Condition2_RRNn	BldgType_1Fam	BldgType_2fmCon	BldgType_Duplex 0 0 0 0 0 0 0 0 0 0 0 0	
0 1 2 3 4 5 6 7 8	Condition2_RRNn	BldgType_1Fam	BldgType_2fmCon	BldgType_Duplex 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0 1 2 3 4 5 6 7 8 9	Condition2_RRNn 0 0 0 0 0 0 0 0 0 0 0 0 0	BldgType_1Fam 1 1 1 1 1 1 1 1 0 1	BldgType_2fmCon	BldgType_Duplex 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0 1 2 3 4 5 6 7 8 9 10 11	Condition2_RRNn	BldgType_1Fam 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BldgType_2fmCon	BldgType_Duplex	
0 1 2 3 4 5 6 7 8 9 10 11 12	Condition2_RRNn	BldgType_1Fam 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BldgType_2fmCon	BldgType_Duplex	
0 1 2 3 4 5 6 7 8 9 10 11 12 13	Condition2_RRNn	BldgType_1Fam 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BldgType_2fmCon	BldgType_Duplex	
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Condition2_RRNn	BldgType_1Fam 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BldgType_2fmCon	BldgType_Duplex	
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Condition2_RRNn	BldgType_1Fam 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BldgType_2fmCon	BldgType_Duplex	
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Condition2_RRNn	BldgType_1Fam 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BldgType_2fmCon	BldgType_Duplex	
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Condition2_RRNn 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BldgType_1Fam 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BldgType_2fmCon	BldgType_Duplex	
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Condition2_RRNn 0 0 0 0 0 0 0 0 0 0 0 0 0	BldgType_1Fam 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BldgType_2fmCon	BldgType_Duplex	

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1431	0		0	0	
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1433	0		0	0	
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	0			0	
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3	0	0	0	0	
4	0	0	0	0	
5	0	0	1	0	
6	0	0	0	0	

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12	0	0	0	0
13	0	0	0	0
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25	0	0	0	0
26	0	0	0	0
27	0	0	0	0
28	0	0	0	0
29	0	0	0	0
		•••	•••	
1429	0	0	0	0
1430	0	0	1	0
1431	0	0	0	0
1432	0	0	1	0
1433	0	0	1	0
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1449	1	0	0	0
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1702	1	U	U	U

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1455	0	1	0	
1456	0	0	0	
1457	0	0	0	
1458	0	0	0	
•		HouseStyle_2.5Fin		\
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3	0	0	0	
4	0	0	0	
5	0	0	0	
6	1	0	0	
7	0	0	0	
8 9	0	0	0	
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11 12	0	0	0	
13	1	0	0	
14	1	0	0	
15	0	0	0	
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25	1	0	0	
26	1	0	0	
27	1	0	0	
28	1	0	0	
29	1	0	0	
	• • •	• • •	• • •	
1429	1	0	0	
1430	0	0	0	
1431	1	0	0	
1432	0	0	0	
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1456	1	0		0	
1457	0	0		0	
1458	0	0		0	
1430	U	U		U	
	HouseStyle 2Story	HouseStyle_SFoyer	HouseStyle SIyl	RoofStyle_Flat	\
0	1	0	0	0	`
•	_				
1	0				
1	0	0	0	0	
2	1	0 0	0	0	
2	1 1	0 0 0	0 0 0	0 0 0	
2 3 4	1 1 1	0 0 0 0	0 0 0 0	0 0 0	
2 3 4 5	1 1 1 0	0 0 0 0	0 0 0 0	0 0 0 0	
2 3 4 5 6	1 1 1 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	
2 3 4 5 6 7	1 1 1 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	
2 3 4 5 6 7 8	1 1 1 0 0 1 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	
2 3 4 5 6 7 8	1 1 1 0 0 1 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9	1 1 1 0 0 1 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9 10	1 1 1 0 0 1 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9 10 11 12	1 1 1 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9 10 11 12 13	1 1 1 0 0 0 1 0 0 0 1 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9 10 11 12 13 14	1 1 1 0 0 0 1 0 0 0 1 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9 10 11 12 13 14 15	1 1 1 0 0 0 1 0 0 0 1 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	1 1 1 0 0 0 1 0 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	1 1 1 0 0 0 1 0 0 0 1 0 0 0 0 0 0				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0				
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0				

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1453		1	0	0	0	
1454		1	0	0	0	
1455		1				
1456		0	0	0	0	
1457 1458		0	1	0	0	
1450		1	O	O	U	
	RoofStyle_Gable	RoofStyle_Gambrel	RoofStyle_Hip	RoofStyle_Mans	ard	\
0	1	0	0	7 –	0	
1	1	0	0		0	
2	1	0	0		0	
3	1	0	0		0	
4	1	0	0		0	
5	1	0	0		0	
6	1	0	0		0	
7	1	0	0		0	
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9	1	0	0		0	

4.0		^		•
10	0	0	1	0
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12	0	0	1	0
13	1	0	0	0
14	0	0	1	0
15	1	0	0	0
16	1	0	0	0
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25	1	0	0	0
26	1	0	0	0
27	1	0	0	0
28	1	0	0	0
29	1	0	0	0
	• • •	• • •	• • •	
1429	1	0	0	0
1430	1	0	0	0
1431	1	0	0	0
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1433	1	0	0	0
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1457	1		0 0	0	
1458	1		0 0	0	
	RoofStyle_Shed	RoofMatl_ClyTile	RoofMatl CompShg	RoofMatl_Membran	\
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3	0	0	1	0	
4	0	0	1	0	
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27	0	0	0	0	

28 29	0	0 0	0	
			• • •	
1429	0	0	0	
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1456	0	0	0
1457	0	0	0
1458	0	0	0
1400	U	V	U

	Exterior1st_BrkComm	Exterior1st_BrkFace	Exterior1st_CBlock	\
0	0	0	0	
1	0	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
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1400	O	O	O	
		Exterior1st_HdBoard		·
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3	0	0	0	
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23	1	0	0	
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25	0	0	0	
26	0	0	0	
27	0	0	0	
28 29	0	0	0	
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1429	0	0	0
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2	0	0	0
3	0	0	0
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7	0	0	0
8	0	0	0
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10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	1	0	0
15	0	0	0

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16
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17
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18
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19
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20
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22
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23
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24
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25
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26
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27
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28
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29
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1429
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1446
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1448
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1450
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1454
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1456
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1457
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1458
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       Exterior1st_Stucco Exterior1st_VinylSd Exterior1st_Wd Sdng
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1457	0	0	0
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	Exterior1st_WdShing	Exterior2nd_AsbShng	Exterior2nd_AsphShn \
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3	0	0	0
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8	0	0	0
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23	0	0	0
24	0	0	0
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29	0	0	0
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		Exterior2nd_BrkFace	
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2 3	0 0 0	0 0 0	0 0 0
2 3 4	0 0 0	0 0 0 0	0 0 0 0
2 3 4 5	0 0 0 0	0 0 0 0	0 0 0 0
2 3 4 5 6	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
2 3 4 5 6 7	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0
2 3 4 5 6 7 8	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0
2 3 4 5 6 7 8 9	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0
2 3 4 5 6 7 8 9	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0
2 3 4 5 6 7 8 9 10 11	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
2 3 4 5 6 7 8 9 10 11 12	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
2 3 4 5 6 7 8 9 10 11 12 13	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0
2 3 4 5 6 7 8 9 10 11 12 13 14	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0
2 3 4 5 6 7 8 9 10 11 12 13 14 15	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0
2 3 4 5 6 7 8 9 10 11 12 13 14 15	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0

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27	0	0	0	
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	• • • • • • • • • • • • • • • • • • • •		•••	
1429		0	0	
1430		0	0	
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		0		
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1457		0	0	
1458	0	0	0	
	Exteriorand Constant	EvtoriorOnd UdDoomd	ExteriorOnd ImCtuce	\
0		Exterior2nd_HdBoard		\
0	0	0	0	
1 2	0	0	0	
3	0	0	0	
J	U	U	U	
		150		
		153		

4	0	0	0
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6	0	0	0
7	0	1	0
8		0	0
9	0		
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10	0	1	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
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25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
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1433 1434	0	0 0	0
	1		0
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1448	0	0	0
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1450 1451 1452 1453	1 0 1 1		0 0 0 0	0 0 0
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1455	1		0	0
1456 1457	0		0	0
1458	0		1	0
	Exterior2nd_MetalSd		Exterior2nd_Plywood	
0	0	0	0	
1 2	1 0	0	0	
3	0	0	0	
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6	0	0	0	
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23 24	0	0	0	
25	0	0	0	
26	0	0	0	
27	0	0	0	
28	1	0	0	
29	1	0	0	
	•••	•••	• • •	
1429	1	0	0	
1430	1 0	0	0	
1431 1432	0	0	0	
1433	1	0	0	
1434	0	0	0	
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1435		0 0	0
1436		0 0	1
1437		0 0	1
1438		0 0	0
1439		0 0	1
1440		0 0	1
1441		0 0	0
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1452		0 0	0
1453		0 0	0
1454		0 0	0
1455		0 0	0
1456		0 0	0
1457		0 0	0
1458		0 0	0
	Exterior2nd_Stone	Exterior2nd_Stucco	Exterior2nd_VinylSd \
0	Exterior2nd_Stone 0	Exterior2nd_Stucco	Exterior2nd_VinylSd \
1			
1 2	0	0	1 0 1
1 2 3	0 0 0 0	0 0 0	1 0
1 2 3 4	0 0 0 0	0 0 0 0	1 0 1 0 1
1 2 3 4 5	0 0 0 0	0 0 0	1 0 1 0 1 1
1 2 3 4	0 0 0 0	0 0 0 0	1 0 1 0 1
1 2 3 4 5 6 7	0 0 0 0 0 0	0 0 0 0 0 0 0	1 0 1 0 1 1 1 0
1 2 3 4 5 6 7 8	0 0 0 0 0 0 0	0 0 0 0 0 0 0	1 0 1 0 1 1 1 0 0
1 2 3 4 5 6 7 8	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	1 0 1 0 1 1 1 0
1 2 3 4 5 6 7 8 9	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	1 0 1 0 1 1 1 0 0
1 2 3 4 5 6 7 8 9 10 11	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	1 0 1 0 1 1 1 1 0 0 0 0
1 2 3 4 5 6 7 8 9 10 11 12	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	1 0 1 0 1 1 1 1 0 0 0 0
1 2 3 4 5 6 7 8 9 10 11 12 13		0 0 0 0 0 0 0 0 0 0	1 0 1 0 1 1 1 1 0 0 0 0
1 2 3 4 5 6 7 8 9 10 11 12 13 14		0 0 0 0 0 0 0 0 0 0	1 0 1 0 1 1 1 1 0 0 0 0 0 0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		0 0 0 0 0 0 0 0 0 0 0	1 0 1 0 1 1 1 1 0 0 0 0 0 0 0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16			1 0 1 0 1 1 1 1 0 0 0 0 0 0 0 0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17			1 0 1 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18			1 0 1 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19			1 0 1 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20			1 0 1 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19			1 0 1 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0

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23	0	0	0	
24	0	0	0	
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26	0	0	0	
27	0	0	1	
28	0	0	0	
29	0	0	0	
	• • • •	•••		
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1430	0	0	0	
1431	0	0	0	
1432	0	0	0	
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1458	0	0	0	
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6	0	0	0	

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12	0	0	0
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15	1	0	0
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26	0	1	0	0	
27	0	0	1	0	
28	0	1	0	0	
29	0	1	0	0	
1400	• • • •			• • • •	
1429 1430	0	1 0	0	0	
	1		0	0	
1431	0	1	0	0	
1432	0	1	0	0	
1433 1434	0	1	0		
1434	0			0	
1435	0	0	1 0	0	
1436	0	1	0	0	
1437	U	1	U	U	

		_		_	_	
1438		0	1	0	0	
1439		1	0	0	0	
1440		0	1	0	0	
1441		0	1	0	0	
1442		0	0	1	0	
1443		1	0	0	1	
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1445		1	0	0	0	
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1447		0	1	0	0	
1448		0	1	0	0	
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1454		0	1	0	0	
1455		0	1	0	0	
1456		0	1	0	0	
1457		0	1	0	0	
1458		1	0	0	0	
	ExterQual_Fa	ExterQual_Gd	ExterQual TA	ExterCond Ex	ExterCond_Fa	\
0	0	1	0	_ 0	_ 0	
1	0	0	1	0	0	
1 2	0	0 1	1 0	0	0	
2	0	1			0	
2	0 0	1 0	0 1	0 0	0	
2 3 4	0 0 0	1 0 1	0	0 0 0	0 0 0	
2 3 4 5	0 0	1 0 1 0	0 1 0 1	0 0 0	0	
2 3 4 5 6	0 0 0 0	1 0 1 0	0 1 0	0 0 0 0	0 0 0 0	
2 3 4 5 6 7	0 0 0 0 0	1 0 1 0 1 0	0 1 0 1 0	0 0 0 0 0	0 0 0 0 0	
2 3 4 5 6	0 0 0 0	1 0 1 0 1 0 0	0 1 0 1 0	0 0 0 0 0 0	0 0 0 0 0 0	
2 3 4 5 6 7 8	0 0 0 0 0 0	1 0 1 0 1 0 0	0 1 0 1 0 1 1 1	0 0 0 0 0 0	0 0 0 0 0 0	
2 3 4 5 6 7 8 9	0 0 0 0 0 0 0	1 0 1 0 1 0 0 0	0 1 0 1 0 1 1 1	0 0 0 0 0 0 0	0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9 10 11	0 0 0 0 0 0 0	1 0 1 0 1 0 0 0 0	0 1 0 1 0 1 1 1 1	0 0 0 0 0 0 0	0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9 10 11 12	0 0 0 0 0 0 0 0	1 0 1 0 1 0 0 0 0 0	0 1 0 1 0 1 1 1 1 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9 10 11 12 13	0 0 0 0 0 0 0 0	1 0 1 0 1 0 0 0 0 0 0	0 1 0 1 0 1 1 1 1 0 1 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9 10 11 12 13 14	0 0 0 0 0 0 0 0	1 0 1 0 1 0 0 0 0 0 0	0 1 0 1 0 1 1 1 1 0 1 0 1	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9 10 11 12 13 14 15	0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 0 0 0 0 0 0	0 1 0 1 0 1 1 1 1 0 1 0 1	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0 0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 0 0 0 0 0 0 1 0 0	0 1 0 1 0 1 1 1 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	0 0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 0 0 0 0 0 0 0 0 0	0 1 0 1 0 1 1 1 1 0 1 0 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 1 0 1 1 1 1 0 1 0 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	0 0 0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 1 0 1 1 1 1 0 1 0 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 1 0 1 1 1 0 1 0 1 1 1 1 1 1 1		0 0 0 0 0 0 0 0 0 0 0 0	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 1 0 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1			
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 1 1 0 1 1 1 0 1 1 1 1 1 1 1 1 1 1			
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 1 0 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1			

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27	0	1	0	0	0
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29	0	0	1	0	0
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1430	0	0	1	0	0
1431	0	0	1	0	0
1432	1	0	0	0	1
1433	0	0	1	0	0
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1438	0	1	0	0	0
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1456	0	0	1	0	0
1457	0	0	1	0	0
1458	0	0	1	0	0
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2	0	0	1	0	
3	0	0	1	1	
4	0	0	1	0	
5	0	0	1	0	
6	0	0	1	0	
7	0	0	1	0	
8	0	0	1	1	
9	0	0	1	1	

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12	0	0	1	0
13	0	0	1	0
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				0
24	1	0	0	0
25	0	0	1	0
26	0	0	1	0
27	0	0	1	0
28	0	0	1	0
29	0	0	1	1
	• • •	• • •	• • •	• • •
1429	0	0	1	1
1430	0	0	1	0
1431	0	0	1	0
1432	0	0	0	0
1433	0	0	1	0
1434	0	0	1	0
1435	0	0	1	0
1436	0	0	1	0
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1453	0	0	1	0
1454	0	0	1	0
1455	0	0	1	0
1400	U	U	1	U

1457	0	0	1	0	
1458	0	0	1	0	
	Foundation_CBlock	Foundation PConc	Foundation Slab	Foundation Stone	\
0	0	1	0	0	•
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2	0	1	0	0	
3	0	0	0	0	
4	0	1	0	0	
5	0	0	0	0	
6	0	1	0	0	
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22	0	1	0	0	
23 24	0 1	1 0	0	0	
25	0	1	0	0	
26	1	0	0	0	
27	0	1	0	0	
28	1	0	0	0	
29	0	0	0	0	
				• • •	
1429	0	0	0	0	
1430	1	0	0	0	
1431	0	0	1	0	
1432	1	0	0	0	
1433	0	1	0	0	
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1438	0	1	0	0	
1439	1	0	0	0	
1440	1	0	0	0	

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1441		0	0	0		0
1442		0	1	0		0
1443		0	1	0		0
1444		1	0	0		0
1445		0	1	0		0
1446		0	1	0		0
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1454		1	0	0		0
1455		1	0	0		0
1456		1	0	0		0
1457		0	1	0		0
1458		0	1	0		0
	${\tt Foundation_Wood}$	${\tt BsmtQual_Ex}$	${\tt BsmtQual_Fa}$	${\tt BsmtQual_Gd}$	${\tt BsmtQual_TA}$	\
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2	0	0	0	1	0	
3	0	0	0	0	1	
4	0	0	0	1	0	
5	1	0	0	1	0	
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22	0	0	0	1	0	
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27	0	1	0	0	0	

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1430		0	0	0		0	1	
1431		0	0	0		0	0	
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1436		0	0	0		1	0	
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1442		0	1	0		0	0	
1443		0	0	0		1	0	
1444		0	0	0		0	0	
1445		0	0	0		1	0	
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1455		0	0	0		0	1	
1456		0	0	0		0	1	
1457		0	0	0		1	0	
1458		0	0	0		1	0	
1100		•	· ·	ŭ		=	v	
	BsmtCond Fa	BsmtCond_Gd	Bsmt.Cond P	o Bsmt.Cor	AT b	Bsmt.Expo	sure Av	\
0	0	0	-	0	1	Быновиро	0	`
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3	0	1		0	0		0	
4	0	0		0	1		1	
5	0	0		0	1		0	
6	0	0		0	1		1	
7	0	0		0	1		0	
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10	0	0		0	1		0	
11	0	0		0	1		0	
12	0	0		0	1		0	
14	U	U		· ·	т.		U	

13	0	0	0	1	1
14	0	0	0	1	0
15	0	0	0	1	0
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17	0	0	0	0	0
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26	0	0	0	1	0
27	0	0	0	1	0
28	0	0	0	1	0
29	0	0	0	1	0
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1440	0	0	0	1	0
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1442	0	1	0	0	1
1443	0	0	0	1	0
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1446	0	0	0	1	0
1447	0	0	0	1	0
1448	0	0	0	1	0
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1453	0	0	0	1	0
1454	0	0	0	1	0
1455	0	0	0	1	0
1456	0	0	0	1	0
1457	0	0	0	1	1
1458	0	0	0	1	1

	BsmtExposure_Gd	BsmtExposure_Mn	BsmtExposure_No	BsmtFinType1_ALQ \	\
0	0	0	1	0	
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2	0	1	0	0	
3	0	0	1	1	
4	0	0	0	0	
5	0	0	1	0	
6	0	0	0	0	
7	0	1	0	1	
8	0	0	1	0	
9	0	0	1	0	
10	0	0	1	0	
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25	0	0	1	0	
26	0	1	0	0	
27	0	0	1	0	
28	1	0	0	0	
29	0	0	1	0	
			• • •	• • • •	
1429	0	0	1	0	
1430	0	0	1	0	
1431	0	0	0	0	
1432	0	1	0	0	
1433 1434	0	0	1 0	0	
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1437	0	0	1	0	
1439	0	0	0	0	
1440	1	0	0	0	
1441	0	0	0	0	
1441	0	0	0	0	
1443	1	0	0	0	
1 1 1 1 0	1	O	O	J	

1444	0	0	0	0
1445	1	0	0	0
1446	0	1	0	0
1447	0	0	1	1
1448	0	0	1	0
1449	0	0	0	0
1450	0	0	1	0
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1453	0	0	1	0
1454	0	0	1	0
1455	0	0	1	0
1456	0	0	1	1
1457	0	0	0	0
1458	0	0	0	0
	RsmtFinTvpe1 BLO	BsmtFinType1_GLQ	BsmtFinType1_LwQ	BsmtFinType1 Rec \
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2	0	1	0	0
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4	0	1	0	0
5	0	1	0	0
6	0	1	0	0
7	0	0	0	0
8				0
9	0	0	0	
9 10	0	1	0	0
	0	0	0	1
11	0	1	0	0
12	0	0	0	0
13	0	0	0	0
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27	0	1	0	0
28	1	0	0	0
29	0	0	0	0

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1430	0	0	0	0	
1431	0	0	0	0	
1432	0	0	0	0	
1433	0	0	0	0	
1434	0	1	0	0	
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1452	0	0	0	1	
1453	0	0	0	0	
1454	0	0	0	0	
1455	0	0	0	1	
1456	0	0	0	0	
1457	0	1	0	0	
1458	0	0	1	0	
1100	v	· ·	-	· ·	
_		BsmtFinType2_ALQ			\
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
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8	1	0	0	0	
9	0	0	0	0	
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11	0	0	0	0	
12	0	0	0	0	
13	1	0	0	0	
14	0	0	0	0	
15	1	0	0	0	

16 17 18 19 20 21 22 23 24 25 26 27 28 29	0 0 0 1 1 1 0 0 0 1	0 0 0 0 0 0 0 0 1 0 0 0			0 0 0 0 0 0 0 0 0 0 0 0 0
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1430	1	0	0		0
1431	0	0	0		0
1432	1	0	0		0
1433	1	0	0		0
1434	0	0	0		0
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1453	1	0	0		0
1454	1	0	0		0
1455	0	0	0		0
1456	0	0	0		0
1457	0	0	0		0
1458	0	0	0		0
0	BsmtFinType2_LwQ 0	BsmtFinType2_Rec 0	BsmtFinType2_Unf	Heating_Floor	\

4	•		4	•
1	0	0	1	0
2	0	0	1	0
3	0	0	1	0
4	0	0	1	0
5	0	0	1	0
6	0	0	1	0
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8	0	0	1	0
9	0	0	1	0
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12	0	0	1	0
13	0	0		
			1	0
14	0	0	1	0
15	0	0	1	0
16	0	0	1	0
17	0	0	0	0
18	0	0	1	0
19	0	0	1	0
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21	0	0	1	0
22	0	0	1	0
23	0	0	1	0
24	0	0	0	0
25	0	0	1	0
26	0	1	0	0
27	0	0	1	0
28	0	0	1	0
29	0	0	1	0
	U	U	1	U
1.400		•••		
1429	0	0	1	0
1430	0	0	1	0
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1432						
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			U	O	O	
	1	^	0	^	0	
1457	1	0	0	0	0	
145 <i>7</i> 1458	1	0	0	0	0	
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1458 0 1 2 3 4 5 6	1 HeatingQC_Ex	0 HeatingQC_Fa 0 0 0 0 0 0 0 0	0 HeatingQC_Gd 0 0 1 0 0 0 0	0 HeatingQC_Po 0 0 0 0 0 0 0 0	0 HeatingQC_TA 0 0 0 0 0 0 0 0	\
1458 0 1 2 3 4 5 6 7	1 HeatingQC_Ex	0 HeatingQC_Fa 0 0 0 0 0 0 0 0 0	0 HeatingQC_Gd 0 0 1 0 0 0 0 0 0 0	0 HeatingQC_Po 0 0 0 0 0 0 0 0 0	0 HeatingQC_TA 0 0 0 0 0 0 0 0 0 0	\
1458 0 1 2 3 4 5 6 7 8	1 HeatingQC_Ex 1 1 0 1 1 1 1 1 1 0 0 1 1 0	0 HeatingQC_Fa 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_Gd 0 0 1 0 0 0 0 1 0 0 1 1 1 1 1 1 1 1 1	0 HeatingQC_Po 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_TA 0 0 0 0 0 0 0 0 0 0 0	\
1458 0 1 2 3 4 5 6 7 8 9	1 HeatingQC_Ex 1 1 0 1 1 0 1 1 1 1 1 1 1 1	0 HeatingQC_Fa 0 0 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_Gd 0 0 1 0 0 0 1 0 1 0 1 0 0	0 HeatingQC_Po 0 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_TA 0 0 0 0 0 0 0 0 0 0 0 0 0	\
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1458 0 1 2 3 4 5 6 7 8 9 10 11	1 HeatingQC_Ex 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	0 HeatingQC_Fa 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_Gd 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_Po 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_TA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\
1458 0 1 2 3 4 5 6 7 8 9 10 11 12	1 HeatingQC_Ex 1 1 1 0 1 1 1 1 1 1 1 0 1 1 0 1 0 1 0	0 HeatingQC_Fa 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_Gd 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_Po 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_TA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1	`
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13	1 HeatingQC_Ex 1 1 1 0 1 1 1 1 1 1 0 1 1 0 1 1 1 1 1	0 HeatingQC_Fa 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_Gd 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_Po 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_TA 0 0 0 0 0 0 0 0 0 0 0 0 1 0	`
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	1 HeatingQC_Ex 1 1 1 0 1 1 1 1 1 0 1 1 0 1 1 0 1 1 0 1 0 1 0 1	0 HeatingQC_Fa 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_Gd 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_Po 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_TA 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1	
1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1 HeatingQC_Ex 1 1 0 1 1 0 1 1 1 1 0 1 0 1 1 0 1	0 HeatingQC_Fa 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_Gd 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_Po 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 HeatingQC_TA 0 0 0 0 0 0 0 0 0 0 0 1 0 1	
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22	1	0	0	0		C
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28	0	0	0	0		1
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				0	(Э
 1429	0	0	1	0	(· ጎ
1430	0				(
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1457	0	0	0	0		1
1458	1	0	0	0		-)
1100	-	· ·	v	v	`	•
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0	0	1	0	0	•	
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2	0	1	0	0		
3	0	1	0	0		
J	O	1	U	U		

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1 2 3 4	0 0 0 0	1 0 1 1	0 1 0 0	0 0 0 0	\
1 2 3 4 5	0 0 0 0 0	1 0 1 1 1 0	0 1 0 0 0	0 0 0 0 0	\
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1 2 3 4 5 6 7	0 0 0 0 0 0	1 0 1 1 1 0 1	0 1 0 0 0 1 0	0 0 0 0 0 0	\
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1 2 3 4 5 6 7 8	0 0 0 0 0 0 0	1 0 1 1 1 0 1 0 0	0 1 0 0 0 1 0 1 1 1	0 0 0 0 0 0 0	\
1 2 3 4 5 6 7 8	0 0 0 0 0 0 0	1 0 1 1 1 0 1 0	0 1 0 0 0 1 0 1	0 0 0 0 0 0 0	\
1 2 3 4 5 6 7 8	0 0 0 0 0 0 0	1 0 1 1 1 0 1 0 0	0 1 0 0 0 1 0 1 1 1	0 0 0 0 0 0 0	\
1 2 3 4 5 6 7 8 9 10	0 0 0 0 0 0 0 0	1 0 1 1 1 0 1 0 0 0	0 1 0 0 0 1 0 1 1 1	0 0 0 0 0 0 0 0	\
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1 2 3 4 5 6 7 8 9 10 11 12	0 0 0 0 0 0 0 0	1 0 1 1 1 0 1 0 0 0 0 0	0 1 0 0 0 1 0 1 1 1 1 1 0	0 0 0 0 0 0 0 0 0	\
1 2 3 4 5 6 7 8 9 10 11 12 13 14	0 0 0 0 0 0 0 0 0	1 0 1 1 1 0 0 0 0 0 0	0 1 0 0 0 1 0 1 1 1 1 0 1 0	0 0 0 0 0 0 0 0 0 0	\
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0 0 0 0 0 0 0 0 0 0	1 0 1 1 1 0 0 0 0 0 0 0 0	0 1 0 0 0 1 0 1 1 1 1 0 1 0 1	0 0 0 0 0 0 0 0 0 0	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		1 0 1 1 1 0 0 0 0 0 0 0 0 0	0 1 0 0 0 1 1 1 1 0 1 0 1 1 1 0	0 0 0 0 0 0 0 0 0 0 0	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17		1 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 1 0 1 1 1 0 1 0 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		1 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 1 0 1 1 1 1 0 1 0 1 1 1 1 1 1		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19		1 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 1 0 1 1 1 1 0 1 0 1 1 1 1 1 1		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		1 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 1 0 1 1 1 1 0 1 0 1 1 1 1 1 1		

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CarageQual_Gd	1457		0	0	0	0
GarageQual_Gd GarageQual_Po GarageQual_TA GarageCond_Ex \ 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1			0	0	0	0
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	PoolQC_Gd	Fence_GdPrv	Fence_GdWo	Fence_MnPrv	Fence_MnWw	\
0	0	_ 0	_ 0	0	0	
1	0	0	0	0	0	
2	0	0	0	0	0	
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4	0	0	0	0	0	
5	0	0	0	1	0	
6	0	0	0	0	0	
7	0	0	0	0	0	
8	0	0	0	0	0	
9	0	0	0	0	0	
10	0	0	0	0	0	
11	0	0	0	0	0	
12	0	0	0	0	0	
13	0	0	0	0	0	
14	0	0	1	0	0	
15	0	1	0	0	0	

16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
19	0	0	0	1	0
20	0	0	0	0	0
21	0	1	0	0	0
22	0	0	0	0	0
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1429	0	0	0	1	0
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1457	0	0	0	1	0
1458	0	0	0	0	0

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5	0	0	1	0
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7	0	0	1	0
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17	0	0	0	0	
18	0	0	0	0	
19	1	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
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1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13	O SaleType_ConLI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O SaleType_ConLw 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O SaleType_New 0 0 0 0 0 0 0 0 0 0 1 0 1	O SaleType_Oth 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 0 1	\
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1458 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0 SaleType_ConLI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O SaleType_ConLw 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O SaleType_New 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0	O SaleType_Oth O O O O O O O O O O O O O O O O O O	1 1 1 1 1 1 1 1 1 0 1 0 1	\
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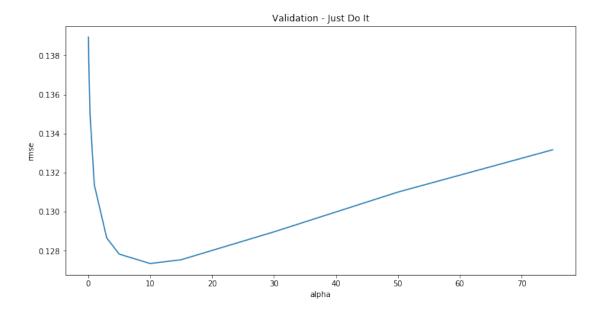
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20	0	0	1	0	0
21	0	0	0	0	1
22	0	0	0	0	1
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25	0	0	0	0	1
26	0	0	0	0	1
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28	0	0	0	0	1
29	0	0	0	0	1
1429	0	0	0	0	1
1430	0	0	0	0	1
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1448	0	0	0	0	1
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1450	0	0	0	0	1
1451	0	0	0	0	1
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16	0	0	0
17	0	0	0
18	0	0	0
19	1	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
1429	0	0	0
1430	0	0	0
1431	1	0	0
1432	1	0	0
1433	0	0	0
1434	0	0	0
1435	0	0	0
1436	0	0	0
1437	0	0	0
1438	0	0	0
1439	0	0	0
1440	0	0	1
1441	0	0	0
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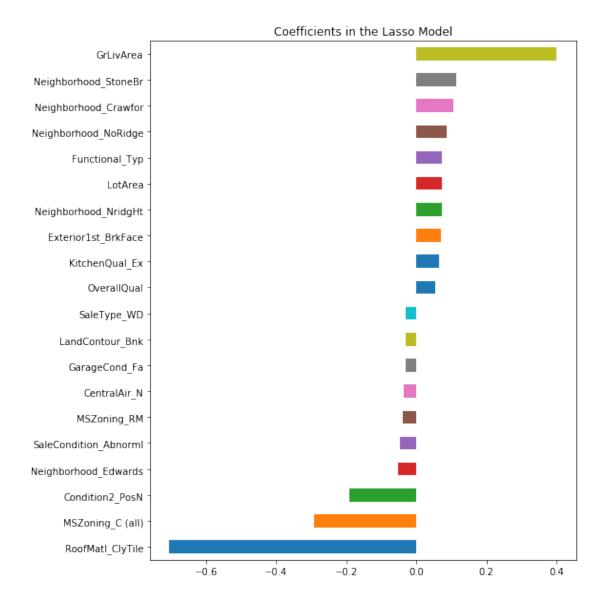
1450 1451 1452 1453	0 0 1 0		0 0 0 0 0 0 0 0 0
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6	0	1	0
7	0	1	0
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9	0	1	0
10	0	1	0
11	0	0	1
12	0	1	0
13	0	0	1
14 15	0	1	0
16	0	1	0
17	0	1	0
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19	0	0	0
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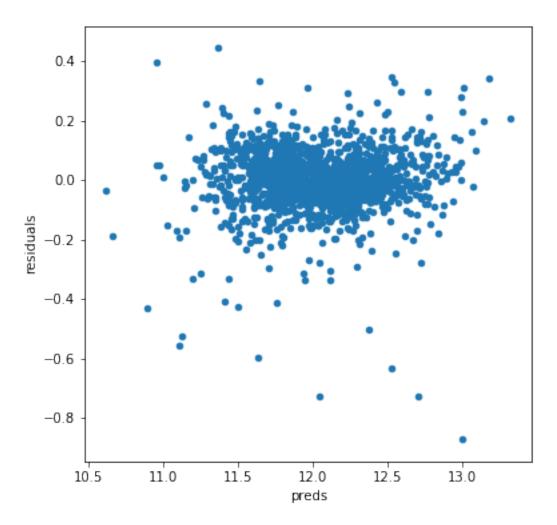
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         [2919 rows x 288 columns]
In [33]: #creating matrices for sklearn:
         X_train = all_data[:train.shape[0]]
         X_test = all_data[train.shape[0]:]
         y = train.SalePrice
In [34]: from sklearn.linear_model import Ridge, RidgeCV, ElasticNet, LassoCV, LassoLarsCV
         from sklearn.model_selection import cross_val_score
         def rmse_cv(model):
             rmse= np.sqrt(-cross_val_score(model, X_train, y, scoring="neg_mean_squared_error")
             return(rmse)
In [35]: model_ridge = Ridge()
In [36]: alphas = [0.05, 0.1, 0.3, 1, 3, 5, 10, 15, 30, 50, 75]
         cv_ridge = [rmse_cv(Ridge(alpha = alpha)).mean()
                     for alpha in alphas]
In [37]: cv_ridge = pd.Series(cv_ridge, index = alphas)
         cv_ridge.plot(title = "Validation - Just Do It")
         plt.xlabel("alpha")
         plt.ylabel("rmse")
```

```
Out[37]: Text(0,0.5,'rmse')
```



In [38]: model_lasso = LassoCV(alphas = [1, 0.1, 0.001, 0.0005]).fit(X_train, y)





In [46]: preds.shape

Out[46]: (1460, 3)

The most important positive feature is GrLivArea - the above ground area by area square feet. This definitely sense. Then a few other location and quality features contributed positively. Some of the negative features make less sense and would be worth looking into more - it seems like they might come from unbalanced categorical variables.

Also note that unlike the feature importance you'd get from a random forest these are actual coefficients in your model - so you can say precisely why the predicted price is what it is. The only issue here is that we log_transformed both the target and the numeric features so the actual magnitudes are a bit hard to interpret.

```
In [47]: !pip install --user xgboost
```

Requirement already satisfied: xgboost in /home/zy/.local/lib/python3.6/site-packages (0.81)
Requirement already satisfied: numpy in /home/zy/.local/lib/python3.6/site-packages (from xgboost)

```
Requirement already satisfied: scipy in /usr/local/lib/python3.6/dist-packages (from xgboost)
```

```
In [48]: import xgboost as xgb
In [49]: dtrain = xgb.DMatrix(X_train, label = y)
        dtest = xgb.DMatrix(X_test)
        params = {"max_depth":2, "eta":0.1}
        model = xgb.cv(params, dtrain, num_boost_round=500, early_stopping_rounds=100)
[07:42:03] /workspace/src/tree/updater_prune.cc:74: tree pruning end, 1 roots, 0 extra nodes,
[07:42:03] /workspace/src/tree/updater prune.cc:74: tree pruning end, 1 roots, 0 extra nodes,
[07:42:03] /workspace/src/tree/updater_prune.cc:74: tree pruning end, 1 roots, 0 extra nodes,
[07:42:03] /workspace/src/tree/updater_prune.cc:74: tree pruning end, 1 roots, 0 extra nodes,
[07:42:03] /workspace/src/tree/updater_prune.cc:74: tree pruning end, 1 roots, 0 extra nodes,
[07:42:03] /workspace/src/tree/updater_prune.cc:74: tree pruning end, 1 roots, 0 extra nodes,
[07:42:03] /workspace/src/tree/updater_prune.cc:74: tree pruning end, 1 roots, 0 extra nodes,
[07:42:03] /workspace/src/tree/updater_prune.cc:74: tree pruning end, 1 roots, 0 extra nodes,
[07:42:03] /workspace/src/tree/updater_prune.cc:74: tree pruning end, 1 roots, 0 extra nodes,
[07:42:03] /workspace/src/tree/updater_prune.cc:74: tree pruning end, 1 roots, 0 extra nodes,
[07:42:03] /workspace/src/tree/updater_prune.cc:74: tree pruning end, 1 roots, 0 extra nodes,
[07:42:03] /workspace/src/tree/updater_prune.cc:74: tree pruning end, 1 roots, 2 extra nodes,
[07:42:03] /workspace/src/tree/updater_prune.cc:74: tree pruning end, 1 roots, 2 extra nodes,
[07:42:03] /workspace/src/tree/updater_prune.cc:74: tree pruning end, 1 roots, 2 extra nodes,
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[07:42:03] /workspace/src/tree/updater_prune.cc:74: tree pruning end, 1 roots, 2 extra nodes,
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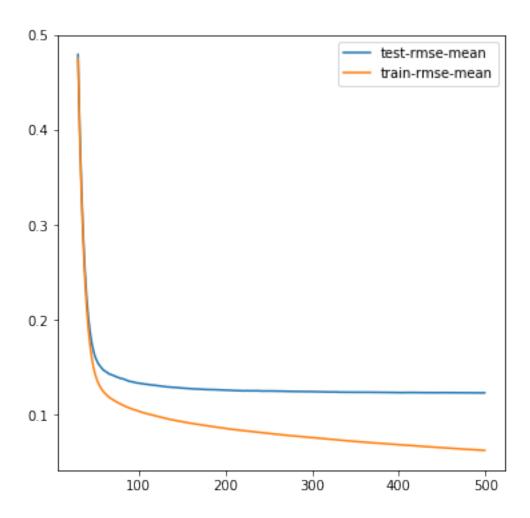
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[07:42:09] /workspace/src/tree/updater_prune.cc:74: tree pruning end, 1 roots, 4 extra nodes,
[07:42:09] /workspace/src/tree/updater prune.cc:74: tree pruning end, 1 roots, 6 extra nodes,
[07:42:09] /workspace/src/tree/updater_prune.cc:74: tree pruning end, 1 roots, 6 extra nodes,
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[07:42:09] /workspace/src/tree/updater_prune.cc:74: tree pruning end, 1 roots, 6 extra nodes,
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[07:42:10] /workspace/src/tree/updater_prune.cc:74: tree pruning end, 1 roots, 6 extra nodes,
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```
In [50]: model.loc[30:,["test-rmse-mean", "train-rmse-mean"]].plot()
```

Out[50]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbbf7d1e860>




```
In [54]: preds = 0.7*lasso_preds + 0.3*xgb_preds
In [55]: solution = pd.DataFrame({"id":test.Id, "SalePrice":preds})
        solution.to_csv("ridge_sol.csv", index = False)
In [56]: solution
Out [56]:
                         SalePrice
                 id
               1461 120129.316383
         0
         1
               1462 153008.789313
         2
               1463 181999.671772
         3
               1464 195952.284998
         4
               1465 197477.812587
        5
               1466 171222.843737
         6
               1467 178212.017796
         7
               1468 161123.612160
```

```
8
      1469
            193898.478815
9
      1470
            119925.604790
10
      1471
            189952.674572
11
      1472
              97385.924169
12
      1473
              96173.518674
13
      1474
            146413.762693
14
      1475
             113408.513514
15
      1476
            363558.841940
16
      1477
            250762.128194
17
      1478
            294599.181529
      1479
            299293.445657
18
19
      1480
            474977.588036
20
      1481
            325368.597602
21
      1482
            210850.565264
22
      1483
            177057.720710
23
            162710.845122
      1484
24
      1485
            191473.765547
25
      1486
            193107.961777
26
      1487
            339866.029546
27
      1488
            238341.335320
28
      1489
             193749.616018
29
      1490
            231349.062041
       . . .
      2890
             81209.646858
1429
1430
      2891
            136254.987964
1431
      2892
              43176.515636
1432
      2893
             71641.531833
1433
      2894
              55114.149013
1434
      2895
            323044.109690
1435
      2896
            278984.085940
1436
      2897
            207862.690891
1437
      2898
            150512.818029
1438
      2899
            215656.430102
1439
      2900
            158554.324639
1440
      2901
            212379.573163
1441
      2902
             183428.493529
1442
      2903
            332198.342980
1443
      2904
            347781.763762
1444
      2905
             85715.757683
1445
      2906
            196983.947192
      2907
1446
             114498.924928
1447
      2908
             130027.782835
      2909
1448
             154385.553893
1449
      2910
              78097.500073
1450
      2911
              83366.933998
1451
      2912
            148245.268896
1452
      2913
              84248.767523
1453
      2914
             80139.648963
```

1454	2915	87496.343669
1455	2916	85034.583020
1456	2917	165128.542251
1457	2918	119034.149412
1458	2919	227808.934762

[1459 rows x 2 columns]