

Market 1 2021 Prediction Prognose.sps

\* Encoding: UTF-8.

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***** MARKET 1 REGRESSION  
ANALYSIS*****  
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GET FILE= !ModelData1 + 'MARKET 1 RESIDENTIAL MASTER POPULATION WITH SALES FOR  
PROGNOSE.sav'.  
DATASET NAME DataSet1.  
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* COMPUTE OUT2 = OUT.  
* INSERT FILE = !Modelsyntax1 + 'Market 1 Outliers.sps'  
SYNTAX = INTERACTIVE  
ERROR = STOP.  
* TEMPORARY.  
* SELECT IF PARCEL_TYPE EQ 'S'.  
* FREQUENCIES OUT.  
* IF (OUT NE 0) VALIDITYCODE = 'Invalid'.  
COMPUTE KEEP = 1.  
IF(ValidityCode EQ 'Invalid' AND PARCEL_TYPE EQ 'S')KEEP = 0.  
* CROSSTABS KEEP BY PARCEL_TYPE.  
* CROSSTABS KEEP BY OUT.  
* SELECT IF(KEEP EQ 1).  
EXECUTE.  
  
DO IF(PARCEL_TYPE EQ 'P' AND SFLA_ECON GT 0).  
COMPUTE VPPSF = APRTOT / SFLA_ECON.  
END IF.  
  
DO IF(PARCEL_TYPE EQ 'S' AND SFLA_ECON GT 0).  
COMPUTE SPPSF = SOLDPRICE / SFLA_ECON.  
END IF.  
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STRING NBHDGroup (A50).  
COMPUTE NBHDGroup = NBHD_Label.  
DO IF(NBHD GT 0 AND CHAR.INDEX(NBHD_Label,"-") GT 0).
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COMPUTE NBHDGroup = LTRIM(RTRIM(CHAR.SUBSTR(NBHD_Label,1,(CHAR.INDEX(NBHD_Label,"-1")))).
END IF.
DO IF(CHAR.INDEX(NBHD_Label,"(") GT 0 AND NBHD GT 0).
COMPUTE NBHDGroup = LTRIM(RTRIM(CHAR.SUBSTR(NBHD_Label,1,(CHAR.INDEX(NBHD_Label,"(")-1))).
END IF.
RECODE NBHDGroup ('Village of Seacliff' = 'Village of Sea Cliff').
FREQUENCIES NBHDGroup.

*Run this the first time and then comment it out and use the second one.
* AUTORECODE VARIABLES=NBHDGroup
/INTO NBHDGroupNum
/SAVE TEMPLATE= !ResSINTAX1 + 'NBHD Desc Template.sat'
/PRINT.

* AUTORECODE VARIABLES=NBHDGroup
/INTO NBHDGroupNum
/APPLY TEMPLATE= !Modelsyntax1 + 'NBHD Desc Template.sat'
/PRINT.

RECODE NBHDGroup ('East Williston' = 1)('Garden City' = 2)('Glen Cove' =
3)('Mineola' = 4)
('North Shore' = 5)('Rockville Centre' = 6)('Roslyn' = 7)('Village of Sea Cliff'
=8) INTO NBHDGroupNum.

VALUE LABELS NBHDGroupNum
1 'East Williston'
2 'Garden City'
3 'Glen Cove'
4 'Mineola'
5 'North Shore'
6 'Rockville Centre'
7 'Roslyn'
8 'Village of Sea Cliff'.

* FREQUENCIES NBHDGroupNum.
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COMPUTE TGROUP = NBHDGROUPNUM.
RECODE TGROUP (1 = 1) (2 = 1) (5 = 1) (7 = 1) (3 = 2) (4 = 3) (6 = 4) (8 = 5).
VALUE LABELS TGROUP 1 'East Williston',\nGarden City,\nNorth Shore,\nRoslyn' 2 'Glen
Cove' 3 'Mineola' 4 'Rockville Centre' 5 'Village of Sea Cliff'.
* set tnumbers = labels.
* FREQUENCIES TGROUP.
* set tnumbers = both.

IF (NBHD EQ 20)TGROUP EQ 20.
IF (NBHD EQ 22)TGROUP EQ 22.
IF (NBHD EQ 123)TGROUP EQ 123.
IF (NBHD EQ 124)TGROUP EQ 124.
IF (NBHD EQ 126)TGROUP EQ 126.
IF (NBHD EQ 155)TGROUP EQ 155.
IF (NBHD EQ 157)TGROUP EQ 157.
IF (NBHD EQ 230)TGROUP EQ 230.
IF (NBHD EQ 231)TGROUP EQ 231.

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IF (NBHD EQ 233)TGROUP EQ 233.  
IF (NBHD EQ 234)TGROUP EQ 234.  
IF (NBHD EQ 236)TGROUP EQ 236.  
IF (NBHD EQ 237)TGROUP EQ 237.  
IF (NBHD EQ 242)TGROUP EQ 242.  
IF (NBHD EQ 317)TGROUP EQ 317.  
IF (NBHD EQ 322)TGROUP EQ 322.  
IF (NBHD EQ 321)TGROUP EQ 321.  
* CROSSTABS SMONTH BY SYEAR.  
  
DO IF(SYEAR GT 0).  
COMPUTE SDATE = DATE.MOYR(SMONTH,SYEAR).  
END IF.  
FORMATS SDATE (MOYR6).  
*****  
*  
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*  
  
*ENTER YOUR STARTING DATE, BASE VALUATION DATE - FORMAT IS MONTH THEN YEAR.  
COMPUTE STARTDATE = DATE.MOYR(1,2012).  
COMPUTE BASEDATE = DATE.MOYR(12, 2018).  
COMPUTE TIMEPERIOD = DATEDIFF(BASEDATE,STARTDATE,"MONTHS") .  
COMPUTE MONTHS = DATEDIFF(SDATE,STARTDATE,"MONTHS") .  
COMPUTE MONTH = TIMEPERIOD - MONTHS.  
EXECUTE .  
  
* SORT CASES BY TGROUP (A).  
* SPLIT FILE BY TGROUP.  
* GRAPH /SCATTERPLOT SDATE WITH SPPSF BY QUAL  
/TEMPLATE = !TEMPLATE + 'Loess2015.sgt'.  
* SPLIT FILE OFF.  
  
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***** SPLINES *****  
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COMPUTE SPLINEDATE1 = BASEDATE.  
COMPUTE SPLINEDATE2 = BASEDATE.  
COMPUTE SPLINEDATE3 = BASEDATE.  
COMPUTE SPLINEDATE4 = BASEDATE.  
COMPUTE SPLINEDATE5 = BASEDATE.  
  
IF (TGROUP EQ 1) SPLINEDATE1 = DATE.MOYR(8, 2013).  
IF (TGROUP EQ 1) SPLINEDATE2 = DATE.MOYR(10, 2014).  
IF (TGROUP EQ 1) SPLINEDATE3 = DATE.MOYR(9, 2015).  
IF (TGROUP EQ 1) SPLINEDATE4 = DATE.MOYR(12, 2016).  
IF (TGROUP EQ 1) SPLINEDATE5 = DATE.MOYR(7, 2018).  
  
IF (TGROUP EQ 2) SPLINEDATE1 = DATE.MOYR(8, 2013).  
IF (TGROUP EQ 2) SPLINEDATE2 = DATE.MOYR(1, 2015).  
IF (TGROUP EQ 2) SPLINEDATE3 = DATE.MOYR(2, 2016).  
IF (TGROUP EQ 2) SPLINEDATE4 = DATE.MOYR(3, 2017).  
IF (TGROUP EQ 2) SPLINEDATE5 = DATE.MOYR(7, 2018).
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IF (TGROUP EQ 3) SPLINEDATE1 = DATE.MOYR(5, 2014).
IF (TGROUP EQ 3) SPLINEDATE2 = DATE.MOYR(1, 2016).
IF (TGROUP EQ 3) SPLINEDATE3 = DATE.MOYR(7, 2018).
* IF (TGROUP EQ 3) SPLINEDATE4 = DATE.MOYR(10, 2016).

IF (TGROUP EQ 4) SPLINEDATE1 = DATE.MOYR(6, 2013).
IF (TGROUP EQ 4) SPLINEDATE2 = DATE.MOYR(8, 2014).
IF (TGROUP EQ 4) SPLINEDATE3 = DATE.MOYR(9, 2015).
IF (TGROUP EQ 4) SPLINEDATE4 = DATE.MOYR(8, 2016).
IF (TGROUP EQ 4) SPLINEDATE5 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 5) SPLINEDATE1 = DATE.MOYR(1, 2014).
IF (TGROUP EQ 5) SPLINEDATE2 = DATE.MOYR(3, 2015).
IF (TGROUP EQ 5) SPLINEDATE3 = DATE.MOYR(11, 2016).
IF (TGROUP EQ 5) SPLINEDATE4 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 20) SPLINEDATE1 = DATE.MOYR(8, 2015).
IF (TGROUP EQ 20) SPLINEDATE2 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 22) SPLINEDATE1 = DATE.MOYR(8, 2015).
IF (TGROUP EQ 22) SPLINEDATE2 = DATE.MOYR(8, 2016).
IF (TGROUP EQ 22) SPLINEDATE3 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 123) SPLINEDATE1 = DATE.MOYR(1, 2015).
IF (TGROUP EQ 123) SPLINEDATE2 = DATE.MOYR(3, 2016).
IF (TGROUP EQ 123) SPLINEDATE3 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 124) SPLINEDATE1 = DATE.MOYR(10, 2013).
IF (TGROUP EQ 124) SPLINEDATE2 = DATE.MOYR(9, 2014).
IF (TGROUP EQ 124) SPLINEDATE3 = DATE.MOYR(11, 2016).
IF (TGROUP EQ 124) SPLINEDATE4 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 126) SPLINEDATE1 = DATE.MOYR(1, 2016).
IF (TGROUP EQ 126) SPLINEDATE2 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 155) SPLINEDATE1 = DATE.MOYR(8, 2013).
IF (TGROUP EQ 155) SPLINEDATE2 = DATE.MOYR(3, 2017).
IF (TGROUP EQ 155) SPLINEDATE3 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 157) SPLINEDATE1 = DATE.MOYR(1, 2014).
IF (TGROUP EQ 157) SPLINEDATE2 = DATE.MOYR(1, 2015).
IF (TGROUP EQ 157) SPLINEDATE3 = DATE.MOYR(7, 2016).
IF (TGROUP EQ 157) SPLINEDATE4 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 230) SPLINEDATE1 = DATE.MOYR(3, 2015).
IF (TGROUP EQ 230) SPLINEDATE2 = DATE.MOYR(10, 2016).
IF (TGROUP EQ 230) SPLINEDATE3 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 231) SPLINEDATE1 = DATE.MOYR(1, 2014).
IF (TGROUP EQ 231) SPLINEDATE2 = DATE.MOYR(9, 2016).
IF (TGROUP EQ 231) SPLINEDATE3 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 233) SPLINEDATE1 = DATE.MOYR(9, 2014).
IF (TGROUP EQ 233) SPLINEDATE2 = DATE.MOYR(9, 2015).
IF (TGROUP EQ 233) SPLINEDATE3 = DATE.MOYR(1, 2017).
IF (TGROUP EQ 233) SPLINEDATE4 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 234) SPLINEDATE1 = DATE.MOYR(9, 2014).
IF (TGROUP EQ 234) SPLINEDATE2 = DATE.MOYR(3, 2016).
IF (TGROUP EQ 234) SPLINEDATE3 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 236) SPLINEDATE1 = DATE.MOYR(10, 2016).
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IF (TGROUP EQ 236) SPLINEDATE2 = DATE.MOYR(7, 2018).
* IF (TGROUP EQ 236) SPLINEDATE3 = DATE.MOYR(10, 2016).

IF (TGROUP EQ 237) SPLINEDATE1 = DATE.MOYR(5, 2016).
IF (TGROUP EQ 237) SPLINEDATE2 = DATE.MOYR(7, 2018).
* IF (TGROUP EQ 237) SPLINEDATE3 = DATE.MOYR(8, 2016).

IF (TGROUP EQ 242) SPLINEDATE1 = DATE.MOYR(1, 2014).
IF (TGROUP EQ 242) SPLINEDATE2 = DATE.MOYR(7, 2015).
IF (TGROUP EQ 242) SPLINEDATE3 = DATE.MOYR(11, 2016).
IF (TGROUP EQ 242) SPLINEDATE4 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 317) SPLINEDATE1 = DATE.MOYR(6, 2015).
IF (TGROUP EQ 317) SPLINEDATE2 = DATE.MOYR(1, 2017).
IF (TGROUP EQ 317) SPLINEDATE3 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 321) SPLINEDATE1 = DATE.MOYR(5, 2014).
* IF (TGROUP EQ 321) SPLINEDATE2 = DATE.MOYR(8, 2016).
IF (TGROUP EQ 321) SPLINEDATE2 = DATE.MOYR(3, 2017).
IF (TGROUP EQ 321) SPLINEDATE3 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 322) SPLINEDATE1 = DATE.MOYR(11, 2013).
IF (TGROUP EQ 322) SPLINEDATE2 = DATE.MOYR(5, 2016).
IF (TGROUP EQ 322) SPLINEDATE3 = DATE.MOYR(7, 2018).

FORMATS STARTDATE BASEDATE SPLINEDATE1 SPLINEDATE2 SPLINEDATE3 SPLINEDATE4 (DATE9).

COMPUTE SPLINE_DIFF1 = DATEDIFF(SPLINEDATE1,STARTDATE,"MONTHS") .
COMPUTE SPLINE_DIFF2 = DATEDIFF(SPLINEDATE2,STARTDATE,"MONTHS") .
COMPUTE SPLINE_DIFF3 = DATEDIFF(SPLINEDATE3,STARTDATE,"MONTHS") .
COMPUTE SPLINE_DIFF4 = DATEDIFF(SPLINEDATE4,STARTDATE,"MONTHS") .
COMPUTE SPLINE_DIFF5 = DATEDIFF(SPLINEDATE5,STARTDATE,"MONTHS") .

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COMPUTE MONTHS1 = MONTHS.
IF(MONTHS GT SPLINE_DIFF1)MONTHS1 = SPLINE_DIFF1.
COMPUTE MONTHS2 = MONTHS - SPLINE_DIFF1.
RECODE MONTHS2 (LO THRU 0 = 0).
IF(MONTHS GT SPLINE_DIFF2)MONTHS2 = SPLINE_DIFF2 - SPLINE_DIFF1.
COMPUTE MONTHS3 = MONTHS - SPLINE_DIFF2 .
RECODE MONTHS3 (LO THRU 0 = 0).
IF(MONTHS GT SPLINE_DIFF3)MONTHS3 = SPLINE_DIFF3 - SPLINE_DIFF2.
COMPUTE MONTHS4 = MONTHS - SPLINE_DIFF3 .
RECODE MONTHS4 (LO THRU 0 = 0).
IF(MONTHS GT SPLINE_DIFF4)MONTHS4 = SPLINE_DIFF4 - SPLINE_DIFF3.
COMPUTE MONTHS5 = MONTHS - SPLINE_DIFF4 .
RECODE MONTHS5 (LO THRU 0 = 0).
IF(MONTHS GT SPLINE_DIFF5)MONTHS5 = SPLINE_DIFF5 - SPLINE_DIFF4.
COMPUTE MONTHS6 = MONTHS - SPLINE_DIFF5 .
RECODE MONTHS6 (LO THRU 0 = 0).

COMPUTE SPLINE = 1.
IF(MONTHS2 GT 0)SPLINE = 2.
IF(MONTHS3 GT 0)SPLINE = 3.
IF(MONTHS4 GT 0)SPLINE = 4.
IF(MONTHS5 GT 0)SPLINE = 5.
IF(MONTHS6 GT 0)SPLINE = 6.
FREQUENCIES SPLINE.

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* SORT CASES BY TGROUP (A).
* SPLIT FILE BY TGROUP.
* GRAPH /SCATTERPLOT SDATE WITH SPPSF BY SPLINE
  /TEMPLATE = !TEMPLATE + 'Loess2015.sgt'.
* SPLIT FILE OFF.
*****MONTH*****
*****TGROUP
MONTHS*****.
*****.
* IF (TGROUP EQ 1) MONTHS1_1 = MONTHS1.
* IF (TGROUP EQ 1) MONTHS2_1 = MONTHS2.
* IF (TGROUP EQ 1) MONTHS3_1 = MONTHS3.
* IF (TGROUP EQ 1) MONTHS4_1 = MONTHS4.
* IF (TGROUP EQ 1) MONTHS5_1 = MONTHS5.

* IF (TGROUP EQ 2) MONTHS1_2 = MONTHS1.
* IF (TGROUP EQ 2) MONTHS2_2 = MONTHS2.
* IF (TGROUP EQ 2) MONTHS3_2 = MONTHS3.
* IF (TGROUP EQ 2) MONTHS4_2 = MONTHS4.
* IF (TGROUP EQ 2) MONTHS5_2 = MONTHS5.

* IF (TGROUP EQ 3) MONTHS1_3 = MONTHS1.
* IF (TGROUP EQ 3) MONTHS2_3 = MONTHS2.
* IF (TGROUP EQ 3) MONTHS3_3 = MONTHS3.
* IF (TGROUP EQ 3) MONTHS4_3 = MONTHS4.
* IF (TGROUP EQ 3) MONTHS5_3 = MONTHS5.

* IF (TGROUP EQ 4) MONTHS1_4 = MONTHS1.
* IF (TGROUP EQ 4) MONTHS2_4 = MONTHS2.
* IF (TGROUP EQ 4) MONTHS3_4 = MONTHS3.
* IF (TGROUP EQ 4) MONTHS4_4 = MONTHS4.
* IF (TGROUP EQ 4) MONTHS5_4 = MONTHS5.

* IF (TGROUP EQ 5) MONTHS1_5 = MONTHS1.
* IF (TGROUP EQ 5) MONTHS2_5 = MONTHS2.
* IF (TGROUP EQ 5) MONTHS3_5 = MONTHS3.
* IF (TGROUP EQ 5) MONTHS4_5 = MONTHS4.

* IF (TGROUP EQ 20) MONTHS1_20 = MONTHS1.
* IF (TGROUP EQ 20) MONTHS2_20 = MONTHS2.
* IF (TGROUP EQ 20) MONTHS3_20 = MONTHS3.

* IF (TGROUP EQ 22) MONTHS1_22 = MONTHS1.
* IF (TGROUP EQ 22) MONTHS2_22 = MONTHS2.
* IF (TGROUP EQ 22) MONTHS3_22 = MONTHS3.

* IF (TGROUP EQ 123) MONTHS1_123 = MONTHS1.

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* IF (TGROUP EQ 123) MONTHS2_123 = MONTHS2.  
* IF (TGROUP EQ 123) MONTHS3_123 = MONTHS3.  
  
* IF (TGROUP EQ 124) MONTHS1_124 = MONTHS1.  
* IF (TGROUP EQ 124) MONTHS2_124 = MONTHS2.  
* IF (TGROUP EQ 124) MONTHS3_124 = MONTHS3.  
* IF (TGROUP EQ 124) MONTHS4_124 = MONTHS4.  
  
* IF (TGROUP EQ 126) MONTHS1_126 = MONTHS1.  
* IF (TGROUP EQ 126) MONTHS2_126 = MONTHS2.  
* IF (TGROUP EQ 126) MONTHS3_126 = MONTHS3.  
  
* IF (TGROUP EQ 155) MONTHS1_155 = MONTHS1.  
* IF (TGROUP EQ 155) MONTHS2_155 = MONTHS2.  
* IF (TGROUP EQ 155) MONTHS3_155 = MONTHS3.  
  
* IF (TGROUP EQ 157) MONTHS1_157 = MONTHS1.  
* IF (TGROUP EQ 157) MONTHS2_157 = MONTHS2.  
* IF (TGROUP EQ 157) MONTHS3_157 = MONTHS3.  
* IF (TGROUP EQ 157) MONTHS4_157 = MONTHS4.  
  
* IF (TGROUP EQ 230) MONTHS1_230 = MONTHS1.  
* IF (TGROUP EQ 230) MONTHS2_230 = MONTHS2.  
* IF (TGROUP EQ 230) MONTHS3_230 = MONTHS3.  
  
* IF (TGROUP EQ 231) MONTHS1_231 = MONTHS1.  
* IF (TGROUP EQ 231) MONTHS2_231 = MONTHS2.  
* IF (TGROUP EQ 231) MONTHS3_231 = MONTHS3.  
  
* IF (TGROUP EQ 233) MONTHS1_233 = MONTHS1.  
* IF (TGROUP EQ 233) MONTHS2_233 = MONTHS2.  
* IF (TGROUP EQ 233) MONTHS3_233 = MONTHS3.  
* IF (TGROUP EQ 233) MONTHS4_233 = MONTHS4.  
  
* IF (TGROUP EQ 234) MONTHS1_234 = MONTHS1.  
* IF (TGROUP EQ 234) MONTHS2_234 = MONTHS2.  
* IF (TGROUP EQ 234) MONTHS3_234 = MONTHS3.  
  
* IF (TGROUP EQ 236) MONTHS1_236 = MONTHS1.  
* IF (TGROUP EQ 236) MONTHS2_236 = MONTHS2.  
* IF (TGROUP EQ 236) MONTHS3_236 = MONTHS3.  
* IF (TGROUP EQ 236) MONTHS4_236 = MONTHS4.  
  
* IF (TGROUP EQ 237) MONTHS1_237 = MONTHS1.  
* IF (TGROUP EQ 237) MONTHS2_237 = MONTHS2.  
* IF (TGROUP EQ 237) MONTHS3_237 = MONTHS3.  
  
* IF (TGROUP EQ 237) MONTHS4_237 = MONTHS4.  
  
* IF (TGROUP EQ 242) MONTHS1_242 = MONTHS1.  
* IF (TGROUP EQ 242) MONTHS2_242 = MONTHS2.  
* IF (TGROUP EQ 242) MONTHS3_242 = MONTHS3.  
* IF (TGROUP EQ 242) MONTHS4_242 = MONTHS4.  
  
* IF (TGROUP EQ 317) MONTHS1_317 = MONTHS1.  
* IF (TGROUP EQ 317) MONTHS2_317 = MONTHS2.  
* IF (TGROUP EQ 317) MONTHS3_317 = MONTHS3.  
  
* IF (TGROUP EQ 321) MONTHS1_321 = MONTHS1.  
* IF (TGROUP EQ 321) MONTHS2_321 = MONTHS2.  
* IF (TGROUP EQ 321) MONTHS3_321 = MONTHS3.  
* IF (TGROUP EQ 321) MONTHS4_321 = MONTHS4.
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* IF (TGROUP EQ 322) MONTHS1_322 = MONTHS1.  
* IF (TGROUP EQ 322) MONTHS2_322 = MONTHS2.  
* IF (TGROUP EQ 322) MONTHS3_322 = MONTHS3.  
  
* RECODE MONTHS1_1 TO MONTHS3_322 (SYSMIS = 0).
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***** RATES *****  
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COMPUTE RATE1 = 1.  
COMPUTE RATE2 = 1.  
COMPUTE RATE3 = 1.  
COMPUTE RATE4 = 1.  
COMPUTE RATE5 = 1.  
COMPUTE RATE6 = 1.
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IF(TGROUP EQ 1 )RATE1 = 1.00368**MONTH1 .  
IF(TGROUP EQ 1 )RATE2 = 1.00534**MONTH2 .  
IF(TGROUP EQ 1 )RATE3 = 1.00000**MONTH3 .  
IF(TGROUP EQ 1 )RATE4 = 1.00464**MONTH4 .  
IF(TGROUP EQ 1 )RATE5 = 1.00000**MONTH5 .  
  
IF(TGROUP EQ 2 )RATE1 = 1.00590**MONTH1 .  
IF(TGROUP EQ 2 )RATE2 = 1.00000**MONTH2 .  
IF(TGROUP EQ 2 )RATE3 = 1.00000**MONTH3 .  
IF(TGROUP EQ 2 )RATE4 = 1.00734**MONTH4 .  
IF(TGROUP EQ 2 )RATE5 = 1.00000**MONTH5 .  
  
IF(TGROUP EQ 3 )RATE1 = 1.00790**MONTH1 .  
IF(TGROUP EQ 3 )RATE2 = 1.00000**MONTH2 .  
IF(TGROUP EQ 3 )RATE3 = 1.00480**MONTH3 .  
  
IF(TGROUP EQ 4 )RATE1 = 1.00000**MONTH1 .  
IF(TGROUP EQ 4 )RATE2 = 1.00572**MONTH2 .  
IF(TGROUP EQ 4 )RATE3 = 1.00000**MONTH3 .  
IF(TGROUP EQ 4 )RATE4 = 1.00000**MONTH4 .  
IF(TGROUP EQ 4 )RATE5 = 1.00359**MONTH5 .  
  
IF(TGROUP EQ 5 )RATE1 = 1.00000**MONTH1 .  
IF(TGROUP EQ 5 )RATE2 = 1.00740**MONTH2 .  
IF(TGROUP EQ 5 )RATE3 = 1.00000**MONTH3 .  
IF(TGROUP EQ 5 )RATE4 = 1.01158**MONTH4 .  
  
IF(TGROUP EQ 20 )RATE1 = 1.00519**MONTH1 .  
IF(TGROUP EQ 20 )RATE2 = 1.00362**MONTH2 .  
  
IF(TGROUP EQ 22 )RATE1 = 1.00633**MONTH1 .  
IF(TGROUP EQ 22 )RATE2 = 1.00000**MONTH2 .  
IF(TGROUP EQ 22 )RATE3 = 1.00299**MONTH3 .
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IF(TGROUP EQ 123)RATE1 = 1.00000***MONTH1 .
IF(TGROUP EQ 123)RATE2 = 1.00000***MONTH2 .
IF(TGROUP EQ 123)RATE3 = 1.00825***MONTH3 .

IF(TGROUP EQ 124)RATE1 = 1.00000***MONTH1 .
IF(TGROUP EQ 124)RATE2 = 1.00700***MONTH2 .
IF(TGROUP EQ 124)RATE3 = .99718***MONTH3 .
IF(TGROUP EQ 124)RATE4 = 1.01095***MONTH4 .

IF(TGROUP EQ 126)RATE1 = 1.00505***MONTH1 .
IF(TGROUP EQ 126)RATE2 = 1.00000***MONTH2 .

IF(TGROUP EQ 155)RATE1 = 1.00000***MONTH1 .
IF(TGROUP EQ 155)RATE2 = 1.00446***MONTH2 .
IF(TGROUP EQ 155)RATE3 = 1.00000***MONTH3 .

IF(TGROUP EQ 157)RATE1 = 1.00956***MONTH1 .
IF(TGROUP EQ 157)RATE2 = .99318***MONTH2 .
IF(TGROUP EQ 157)RATE3 = 1.00730***MONTH3 .
IF(TGROUP EQ 157)RATE4 = .99601***MONTH4 .

IF(TGROUP EQ 230)RATE1 = 1.00979***MONTH1 .
IF(TGROUP EQ 230)RATE2 = .99196***MONTH2 .
IF(TGROUP EQ 230)RATE3 = 1.00760***MONTH3 .

IF(TGROUP EQ 231)RATE1 = .99532***MONTH1 .
IF(TGROUP EQ 231)RATE2 = 1.00815***MONTH2 .
IF(TGROUP EQ 231)RATE3 = 1.00000***MONTH3 .

IF(TGROUP EQ 233)RATE1 = 1.00619***MONTH1 .
IF(TGROUP EQ 233)RATE2 = 1.00000***MONTH2 .
IF(TGROUP EQ 233)RATE3 = 1.00672***MONTH3 .
IF(TGROUP EQ 233)RATE4 = 1.00664***MONTH4 .

IF(TGROUP EQ 234)RATE1 = 1.00567***MONTH1 .
IF(TGROUP EQ 234)RATE2 = 1.00627***MONTH2 .
IF(TGROUP EQ 234)RATE3 = 1.00000***MONTH3 .

IF(TGROUP EQ 236)RATE1 = 1.00461***MONTH1 .
IF(TGROUP EQ 236)RATE2 = 1.00000***MONTH2 .

IF(TGROUP EQ 237)RATE1 = 1.00323***MONTH1 .
IF(TGROUP EQ 237)RATE2 = 1.00000***MONTH2 .

IF(TGROUP EQ 242)RATE1 = 1.00000***MONTH1 .
IF(TGROUP EQ 242)RATE2 = 1.00000***MONTH2 .
IF(TGROUP EQ 242)RATE3 = 1.00688***MONTH3 .
IF(TGROUP EQ 242)RATE4 = 1.00000***MONTH4 .

IF(TGROUP EQ 317)RATE1 = 1.00460***MONTH1 .
IF(TGROUP EQ 317)RATE2 = 1.00000***MONTH2 .
IF(TGROUP EQ 317)RATE3 = 1.00000***MONTH3 .

IF(TGROUP EQ 321)RATE1 = 1.00000***MONTH1 .
IF(TGROUP EQ 321)RATE2 = 1.00667***MONTH2 .
IF(TGROUP EQ 321)RATE3 = 1.00000***MONTH3 .

IF(TGROUP EQ 322)RATE1 = 1.00000***MONTH1 .
IF(TGROUP EQ 322)RATE2 = 1.00260***MONTH2 .
IF(TGROUP EQ 322)RATE3 = 1.00533***MONTH3 .

COMPUTE ADJRATE = RATE1 * RATE2 * RATE3 * RATE4 * RATE5 * RATE6.
```

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```
SORT CASES BY TGROUP (A).
SPLIT FILE BY TGROUP.
GRAPH /SCATTERPLOT SDATE WITH ADJRATE BY SPLINE
  /TEMPLATE = !TEMPLATE + 'Time Rates.sgt'.
SPLIT FILE OFF.

DO IF(PARCEL_TYPE EQ 'S').
  COMPUTE TASP = SOLDPRICE * ADJRATE.
END IF.
FORMATS TASP (COMMA10.0).
* DESCRIPTIVES SOLDPRICE TASP.
* COMPUTE INV_RATE = 1 / ADJRATE.

*TIMEREVIEW.
* SORT CASES BY TGROUP.
* AGGREGATE OUTFILE = * MODE = ADDVARIABLES OVERWRITE = YES
/BREAK TGROUP
/MEAN_INVRATE = MEAN(INV_RATE)
/MEAN_ADJRATE = MEAN(ADJRATE).

* COMPUTE INV_RATE_ALIGNED = INV_RATE * MEAN_ADJRATE. /*ALIGN INVERSE RATE WITH
ADJRATE DATA.

*VIEW REASONABLENESS OF TIME ADJUSTMENT FACTORS.
* SPLIT FILE BY TGROUP.
* GRAPH /LINE (MULTIPLE) = MEDIAN (SPPSF_RATIO) MEDIAN(INV_RATE_ALIGNED) BY MONTHS.
* SPLIT FILE OFF.

*****LANDSQFT*****
*****LANDSQFT*****.
*****LANDSQFT*****.

COMPUTE LandIssuePCTx = 1.
IF(LandIssuePCT LT 0)LandIssuePCTx = 1 + (LandIssuePCT / 100).

COMPUTE LandIssuePCT_ECONx = 1.
IF(LandIssuePCT_ECON LT 0)LandIssuePCT_ECONx = 1 + (LandIssuePCT_ECON / 100).

COMPUTE UNDERWATER_SF_ECONx = UNDERWATER_SF_ECON.
IF(LandIssueSF_Sum EQ UNDERWATER_SF_ECON)UNDERWATER_SF_ECONx = 0.

COMPUTE UNDERWATER_SFx = UNDERWATER_SF.
IF(LandIssueSF EQ UNDERWATER_SF)UNDERWATER_SFx = 0.

IF(LandIssueSF GT 0)UNDERWATER_SFx = 0.
IF(LandIssueSF_Sum GT 0)UNDERWATER_SFx = 0.

COMPUTE SUMLANDX = SUMLAND - UNDERWATER_SF_ECONx - LandIssueSF_Sum.
IF(EconType EQ '')SUMLANDX = SUMLAND - UNDERWATER_SFx - LandIssueSF.

COMPUTE LANDSQFTx = LANDSQFT - UNDERWATER_SFx - LandIssueSF.

FORMATS SUMLANDX LANDSQFTx UNDERWATER_SFx UNDERWATER_SF_ECONx (COMMA10.0).

DESCRIPTIVES SUMLANDX LANDSQFTx.
IF(NBHDGroupNum EQ 3 AND SUMLANDX > 100000)SUMLANDX = RND(100000 + ((SUMLANDX -
100000) ** 1.15)).
* DO IF(SUMLANDX GT 0).
* COMPUTE LANDSQFTx = LANDSQFT.
* IF(LANDSQFT GE 130680)LANDSQFTx EQ RND(130680 + ((LANDSQFT - 130680) ** .75)).
* COMPUTE LN_SUMLANDX = LN(SUMLANDX).
* END IF.
```

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\* RECODE LN\_SUMLANDX (SYSMIS = 0).  
EXECUTE.

\* MEANS LANDSQFT /CELLS MIN MAX MEAN MEDIAN COUNT.

\*\*\*\*\*  
\*\*\*\*\*BREAK\*\*\*\*\*  
\*\*\*\*\*  
\* GRAPH /SCATTERPLOT LN\_LANDSQFT WITH sppsf BY qual  
/TEMPLATE = !TEMPLATE + 'Loess2015.sgt'.  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

COMPUTE LANDSIZERATIO = 1.  
IF (SUMLANDX GT 0) LANDSIZERATIO = (SUMLANDX / 21780).

COMPUTE LN\_LANDSIZERATIO = LN(LANDSIZERATIO).  
COMPUTE LN\_LANDSIZERATIO1 = 0.  
COMPUTE LN\_LANDSIZERATIO2 = 0.  
DO IF(ANY( NBHDGroupNum, 1, 2, 3, 6, 7, 8)).  
IF(LANDSIZERATIO LT 1)LN\_LANDSIZERATIO1 = LN\_LANDSIZERATIO.  
IF(LANDSIZERATIO GT 1)LN\_LANDSIZERATIO2 = LN\_LANDSIZERATIO.  
END IF.  
EXECUTE.  
IF(NBHDGroupNum EQ 4)LANDMineola = LN(SUMLANDx).  
RECODE LANDMineola (SYSMIS = 0).  
IF(NBHDGroupNum EQ 5 AND SUMLANDX GT 0)NorthShoreRatio = (SUMLANDX / 11000).  
RECODE NorthShoreRatio (SYSMIS = 1).  
COMPUTE LN\_NorthShoreRatio = LN(NorthShoreRatio).  
IF(NorthShoreRatio LT 1)LN\_NorthshoreRatio1 = LN\_NorthshoreRatio.  
IF(NorthShoreRatio GT 1)LN\_NorthshoreRatio2 = LN\_NorthshoreRatio.  
  
RECODE LN\_LANDSIZERATIO1 LN\_LANDSIZERATIO2 LN\_NorthShoreRatio1 LN\_NorthShoreRatio2  
(SYSMIS = 0).  
EXECUTE.  
\* TEMPORARY.  
\* SELECT IF(LANDSQFT GT 0).  
\* GRAPH /SCATTERPLOT(BIVAR)= LANDSQFT WITH SPPSF .  
  
\* TEMPORARY.  
\* SELECT IF(LANDSQFT GT 300000).  
\* LIST RECEPTIONNO ACCOUNTNO LANDSQFT.

\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*LIVING AREA.  
\*\*\*\*\*  
\*\*\*\*\*  
  
COMPUTE BASEADJ = STORIES.  
RECODE BASEADJ (1.7 = 1.75)(2.7 = 2.75)(3.7 = 3.75).  
\* FREQUENCIES BASEADJ.

\*\*\*\*\*  
\*\*\*\*\*  
\* this code when used will match SFLA.  
\* COMPUTE AtticSF = 0.  
\* IF(ATTIC EQ 3)AtticSF = FLR1AREA \* .20.  
\* IF(ATTIC EQ 4)AtticSF = FLR1AREA \* .40.

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```
* COMPUTE SQFT = RND((FLR1AREA * BASEADJ) + RND(AtticSF) + FINBSMTAREA + FirstSF +
HalfStory + Story34
                                         + AtticFinished + AtticPartFinished +
FinBsmt + Solarium).
*****
*****COMPUTE AtticSF = AtticFinished + AtticPartFinished .
IF(ATTIC EQ 3)AtticSF = AtticSF + FLR1AREA *.20.
IF(ATTIC EQ 4)AtticSF = AtticSF + FLR1AREA *.40.

COMPUTE SQFT = RND((FLR1AREA * BASEADJ) + RND(AtticSF) + FirstSF + HalfStory +
Story34 + Solarium).

COMPUTE UPERSF = RND((FLR1AREA * BASEADJ) - FLR1AREA + HalfStory + Story34) .
COMPUTE FINBSMTX = FINBSMTAREA + FinBsmt.
COMPUTE UNFBSMTX = UNFINAREA + UnfBsmt.
COMPUTE RECBSMTX = RECROMAREA + RecRoom.

FORMATS AtticSF SQFT FINBSMTX UNFBSMTX RECBSMTX (COMMA10.0).

COMPUTE SQFTX = SQFT.
* IF(SFLA2 GT 0)SQFTX = SQFT + ( SFLA2 *.30).
DO IF(SFLA_ECON GT 0).
COMPUTE LnSQFTX= LN(SQFTX).
END IF.
RECODE LnSQFTX (SYSMIS = 0).
EXECUTE.

* MEANS SQFTX /CELLS MIN MAX MEAN MEDIAN COUNT.

*****
*****BREAK*****
*****
* GRAPH /SCATTERPLOT LnSQFTZ WITH LN_PRICEa BY qual
/TEMPLATE = !TEMPLATE + 'Loess2015.sgt'.
*****
*****
DO IF(SQFTX GT 0).
COMPUTE SQFTXRATIO = (SQFTX / 2200). /*MEAN OF SALES IS 2228.
END IF.
RECODE SQFTXRATIO (SYSMIS = 1).
COMPUTE LN_SQFTXRATIO = LN(SQFTXRATIO).
COMPUTE LN_SQFTXRATIO1 = 0.
IF(SQFTXRATIO LT 1)LN_SQFTXRATIO1 = LN_SQFTXRATIO.
COMPUTE LN_SQFTXRATIO2 = 0.
IF(SQFTXRATIO GT 1)LN_SQFTXRATIO2 = LN_SQFTXRATIO.
EXECUTE.

DO IF(SFLA2 GT 0),
COMPUTE LnSFLA2= LN(SFLA2).
END IF.
RECODE LnSFLA2 (SYSMIS = 0).
EXECUTE.

COMPUTE SFLA2_RATIO = 1 + (SFLA2 / 1000).
COMPUTE LN_SFLA2_RATIO = LN(SFLA2_RATIO).

* TEMP.
* SELECT IF UPERSF GT 0.
* MEANS UPERSF /CELL MIN MAX MEAN MEDIAN COUNT.
```

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```
COMPUTE UPERSF_RATIO = 1 + (UPERSF / 1000).
COMPUTE LN_UPERSF_RATIO = LN(UPERSF_RATIO).

* TEMP.
* SELECT IF ATTICSF GT 0.
* DESCRIPTIVES ATTICSF.

COMPUTE AtticSF_RATIO = 1 + (AtticSF / 1000).
COMPUTE LN_AtticSF_RATIO = LN(AtticSF_RATIO).

*****.
*BSMT.

RECODE FINBSMTX UNFBSMTX RECBSMTX (LO THRU 10 = 0).
IF(UNFBSMTX GT 0)LNUNFBSMTX = LN(UNFBSMTX).
IF(FINBSMTX GT 0)LNFINBSMTX = LN(FINBSMTX).
IF(RECBSMTX GT 0)LNRECBSMTX = LN(RECBSMTX).
RECODE LNUNFBSMTX LNFINBSMTX LNRECBSMTX (SYSMIS = 0).

COMPUTE UNFBSMTX_RATIO = 1 + (UNFBSMTX / 1000).
COMPUTE LN_UNFBSMTX_RATIO = LN(UNFBSMTX_RATIO).

COMPUTE FINBSMTX_RATIO = 1 + (FINBSMTX / 1000).
COMPUTE LN_FINBSMTX_RATIO = LN(FINBSMTX_RATIO).

COMPUTE RECBSMTX_RATIO = 1 + (RECBSMTX / 1000).
COMPUTE LN_RECBSMTX_RATIO = LN(RECBSMTX_RATIO).

COMPUTE LIN_BSMTX = RND(FINBSMTX + (UNFBSMTX * 0.9)).
COMPUTE LIN_BSMTX_Ratio = 1 + (LIN_BSMTX / 1000).
COMPUTE LN_LIN_BSMTX_Ratio = LN(LIN_BSMTX_Ratio).

* EXAMINE UNFBSMTX_RATIO FINBSMTX_RATIO RECBSMTX_RATIO /PLOT = NONE /PERCENTILES
/NOTOTAL.

*****.
***** EFFECTIVE
AGE*****.
*****.

DO IF(DEPR GT 0).
COMPUTE PCT_GOOD= DEPR/100.
COMPUTE LN_PCT_GOOD = LN(PCT_GOOD).
END IF.
* DESCRIPTIVES PCT_GOOD.
* EXAMINE PCT_GOOD /PLOT = STEMLEAF /PERCENTILES /STATISTICS = NONE /NOTOTAL.
VARIABLE LABELS PCT_GOOD 'PERCENTAGE OF VALUE LEFT IN UNIT'.
RECODE LN_PCT_GOOD (SYSMIS = 0).
EXECUTE.

*****.
***** GARAGES ****.
*****.

COMPUTE ShedX = UtilityBldg + UtilShed_SF + Greenhouse + Greenhouse_SF.
RECODE ShedX (LO THRU 9 = 0).

COMPUTE ATTGARx = Garage.
```

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COMPUTE BLTINGARx = BsmtGarage.
COMPUTE DETGARx = GarageDetached_SF.
COMPUTE CARPORTx = CARPORT + Carport_SF.
RECODE ATTGARx BLTINGARx DETGARx CARPORTx (LO THRU 10 = 0).

COMPUTE ATTGARx_RATIO = 1 + (ATTGARx / 480).
COMPUTE LN_ATTGARx_RATIO = LN(ATTGARx_RATIO).

COMPUTE BLTINGARx_RATIO = 1 + (BLTINGARx / 480).
COMPUTE LN_BLTINGARx_RATIO = LN(BLTINGARx_RATIO).

COMPUTE DETGARx_RATIO = 1 + (DETGARx / 480).
COMPUTE LN_DETGARx_RATIO = LN(DETGARx_RATIO).

COMPUTE CARPORTx_RATIO = 1 + (CARPORTx / 480).
COMPUTE LN_CARPORTx_RATIO = LN(CARPORTx_RATIO).
EXECUTE.

COMPUTE AttBltGar = ATTGARx + BLTINGARx.
COMPUTE AttBltGar_RATIO = 1+ (AttBltGar / 480).
* COMPUTE LN_AttBltGar_RATIO = LN(AttBltGar_RATIO).

COMPUTE LIN_GARx = ATTGARx + BLTINGARx + (DETGARx * .75) + (CARPORTx * .250) +
(ShedX * .75).
COMPUTE LIN_GARx_RATIO = 1 + (LIN_GARx / 480).
COMPUTE LN_LINGARx_RATIO = LN(LIN_GARx_RATIO).

COMPUTE LinDetGarCarport = DETGARx + (CARPORTx *.250).
COMPUTE LinDetGarCarport_RATIO = 1 + (LinDetGarCarport / 480).
COMPUTE LN_LinDetGarCarport_RATIO = LN(LinDetGarCarport_RATIO).

DO IF( GarageDetached_Depr GT 0).
COMPUTE GarageDetachedPctGood= GarageDetached_Depr/100.
END IF.
RECODE GarageDetachedPctGood (SYSMIS = 1).
COMPUTE LN_GarageDetachedPctGood = LN(GarageDetachedPctGood).
EXECUTE.

*****.
*Porch.

COMPUTE TerraceX = RaisedTerrace + Terrace_SF. /* not coming in, at least needs to
be the same as patio.
COMPUTE CanopyX = Canopy + Canopy_SF. /* Forcing it in and it comes in slightly
higher than open porch, so combined with open porch.
COMPUTE PatioX = Patio + PatioPool_SF + RaisedTerrace + Terrace_SF.
COMPUTE OpenPorchX = OpenPorch + OpenFramePorch_SF + PorchScreened_SF + Gazebo_SF +
CanopyX + PatioCovered_SF.
COMPUTE EnclPorchX = EnclPorch + PoolEnclosure_SF.
COMPUTE PorchX = OpenPorchX + (1.05 * EnclPorch) .
COMPUTE WoodDeckX = WoodDeck + WoodDeck_SF.
COMPUTE GreenhouseX = Greenhouse + Greenhouse_SF.

* COMPUTE TerraceX_RATIO = 1 + ((TerraceX) / 350).
* COMPUTE LN_TerraceX_RATIO = LN(TerraceX_RATIO).

COMPUTE PatioX_RATIO = 1 + ((PatioX) / 115).
COMPUTE LN_PatioX_RATIO = LN(PatioX_RATIO).

* COMPUTE OpenPorchX_RATIO = 1 + ((OpenPorchX) / 115).
* COMPUTE LN_OpenPorchX_RATIO = LN(OpenPorchX_RATIO).

* COMPUTE EnclPorch_RATIO = 1 + ((EnclPorch) / 115).

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* COMPUTE LN_EnclPorch_RATIO = LN(EnclPorch_RATIO).

COMPUTE PorchX_RATIO = 1 + ((PorchX) / 115).
COMPUTE LN_PorchX_RATIO = LN(PorchX_RATIO).

COMPUTE WoodDeckX_RATIO = 1 + ((WoodDeckx) / 145).
COMPUTE LN_WoodDeckX_RATIO = LN(WoodDeckX_RATIO).

* COMPUTE CanopyX_RATIO = 1 + ((CanopyX) / 230).
* COMPUTE LN_CanopyX_RATIO = LN(CanopyX_RATIO).

* COMPUTE GreenhouseX_RATIO = 1 + ((GreenhouseX) / 500).
* COMPUTE LN_GreenhouseX_RATIO = LN(GreenhouseX_RATIO).

* COMPUTE Gazebo_SF_RATIO = 1 + ((Gazebo_SF) / 180). /* only 10 sales added to open porch.
* COMPUTE LN_Gazebo_SF_RATIO = LN(Gazebo_SF_RATIO).

COMPUTE CabinX = Cabin_SF + OfficeStudio_SF.

COMPUTE CabinX_RATIO = 1 + ((CabinX) / 180).
COMPUTE LN_CabinX_RATIO = LN(CabinX_RATIO).

* COMPUTE BathHouse_SF_RATIO = 1 + ((BathHouse_SF) / 180).
* COMPUTE LN_BathHouse_SF_RATIO = LN(BathHouse_SF_RATIO).

COMPUTE PoolX = PoolVinyl + PoolConc + PoolConc_SF + PoolFbg1_SF + PoolGuni_SF +
Poolvinyl_SF + SpaJacuzzi_SF.
COMPUTE EnclPoolX = (EnclPoolLow * .75) + EnclPoolHigh + PoolEnclosure_SF. /* 0 sales.

COMPUTE PoolX_RATIO = 1 + ((PoolX) / 400).
COMPUTE LN_PoolX_RATIO = LN(PoolX_RATIO).

* COMPUTE EnclPoolX_RATIO = 1 + ((EnclPoolX) / 400).
* COMPUTE LN_EnclPoolX_RATIO = LN(EnclPoolX_RATIO).

* COMPUTE TennisCourt_SF_RATIO = 1 + ((TennisCourt_SF) / 180). /* only 1 sale.
* COMPUTE LN_TennisCourt_SF_RATIO = LN(TennisCourt_SF_RATIO).

* TEMPORARY.
* SELECT IF(PoolX GT 0).
* LIST PARID BathHouse_SF PoolX EnclPoolX .

*****.
*****QUALITATIVE VARIABLES*****.
*****.

***STYLE VARIABLE***.

* RECODE STYLE (1 = 1)(ELSE = 0) INTO ST_Ranch. /* 593 SALES - 2881 POP;
*****BASE.
RECODE STYLE (2 = 1)(12 = 1.25)(ELSE = 0) INTO ST_RaisedRanch_HiRanch. /* 104 SALES - 677 POP.
RECODE STYLE (3, 18 = 1)(ELSE = 0) INTO ST_SplitLevel. /* 552 SALES - 2533 POP.
RECODE STYLE (4 = 1)(ELSE = 0) INTO ST_ModifiedRanch. /* 75 SALES - 382 POP.
RECODE STYLE (5 = 1)(ELSE = 0) INTO ST_Cape. /* 1149 SALES - 5672 POP.
RECODE STYLE (6 = 1)(ELSE = 0) INTO ST_Colonial. /* 2391 SALES - 11290 POP.
* RECODE STYLE (7 = 1)(ELSE = 0) INTO ST_Victorian. /* 13 SALES - 44 POP.
RECODE STYLE (8 = 1)(ELSE = 0) INTO ST_Contemporary. /* 53 SALES - 280 POP.

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RECODE STYLE (9 = 1)(ELSE = 0) INTO ST_OldStyle. /* 770 SALES - 4266 POP.
RECODE STYLE (10 = 1)(ELSE = 0) INTO ST_BungalowCottage. /* 110 SALES - 513 POP.
RECODE STYLE (11 = 1)(ELSE = 0) INTO ST_DuplexOrTriplex. /* 42 SALES - 339 POP.
* RECODE STYLE (12 = 1)(ELSE = 0) INTO ST_MansionEstate. /* 3 SALES - 32 POP.
RECODE STYLE (13 = 1)(ELSE = 0) INTO ST_Townhouse. /* 24 SALES - 124 POP.
* RECODE STYLE (14 = 1)(ELSE = 0) INTO ST_Condo. /* 0 SALES - 0 POP.
* RECODE STYLE (15 = 1)(ELSE = 0) INTO ST_Coop. /* 0 SALES - 0 POP.
* RECODE STYLE (16 = 1)(ELSE = 0) INTO ST_HomeownerAssoc. /* 0 SALES - 1 POP.
* RECODE STYLE (17 = 1)(ELSE = 0) INTO ST_Other. /* 0 SALES - 0 POP.
RECODE STYLE (18 = 1)(ELSE = 0) INTO ST_Splanch. /* 20 SALES - 118 POP.
* RECODE STYLE (19 = 1)(ELSE = 0) INTO ST_CarriageHouse. /* 0 SALES - 1 POP.
RECODE STYLE (20 = 1)(ELSE = 0) INTO ST_Tudor. /* 34 SALES - 197 POP.
* RECODE STYLE (21 = 1)(ELSE = 0) INTO ST_Store_Dwell. /* 0 SALES - 0 POP.

/*Might be stretching on these.
IF (NBHD EQ 17 AND STYLE EQ 9) stNbhd_17_Oldstyle = 1.
IF (NBHD EQ 20 AND STYLE EQ 9) stNbhd_20_Oldstyle = 1.
IF (NBHD EQ 20 AND STYLE EQ 6) stNbhd_20_Colonial = 1.
IF (NBHD EQ 22 AND STYLE EQ 4) stNbhd_22_ModRanch = 1.

IF(NBHDGROUPNUM EQ 7 AND STYLE EQ 4) stNbhd_7_ModRanch = 1.
IF(NBHDGROUPNUM EQ 8 AND STYLE EQ 7) stNbhd_8_ST_Victorian = 1.

IF (NBHD EQ 22 AND STYLE EQ 8) stNbhd_22_Contemp = 1.
IF (NBHD EQ 22 AND STYLE EQ 1) stNbhd_22_Ranch = 1.
IF (ANY(NBHD,124,125) AND STYLE EQ 1) stNbhd_1245_Ranch = 1.
* IF (NBHD EQ 157 AND STYLE EQ 3) stNbhd_157_Splitlevel = 1.
IF (NBHD EQ 157 AND STYLE EQ 1) stNbhd_157_Ranch = 1.
IF (NBHD EQ 157 AND STYLE EQ 5) stNbhd_157_cape = 1.
IF (NBHD EQ 160 AND STYLE EQ 3) stNbhd_160_Splitlevel = 1.
IF (NBHD EQ 161 AND STYLE EQ 13) stNbhd_161_Townhouse = 1.
IF (NBHD EQ 161 AND STYLE EQ 3) stNbhd_161_Splitlevel = 1.
IF (NBHD EQ 230 AND STYLE EQ 3) stNbhd_230_Splitlevel = 1.
* IF (NBHD EQ 233 AND STYLE EQ 13) stNbhd_233_Townhouse = 1.
IF (NBHD EQ 235 AND STYLE EQ 3) stNbhd_235_Splitlevel = 1.
IF (NBHD EQ 235 AND STYLE EQ 4) stNbhd_235_ModRanch = 1.
IF (NBHD EQ 237 AND STYLE EQ 5) stNbhd_237_cape = 1.
IF (NBHD EQ 237 AND STYLE EQ 3) stNbhd_237_Splitlevel = 1.
IF (NBHD EQ 240 AND STYLE EQ 9) stNbhd_240_Oldstyle = 1.
IF (NBHD EQ 240 AND STYLE EQ 5) stNbhd_240_cape = 1.
IF (NBHD EQ 241 AND STYLE EQ 6) stNbhd_241_Colonial = 1.
IF (NBHD EQ 317 AND STYLE EQ 9) stNbhd_317_Oldstyle = 1.
IF (NBHD EQ 320 AND STYLE EQ 10) stNbhd_320_Bungalow = 1.
IF (NBHD EQ 320 AND STYLE EQ 3) stNbhd_320_Splitlevel = 1.
IF (NBHD EQ 321 AND STYLE EQ 1) stNbhd_321_Ranch = 1.
IF (NBHD EQ 322 AND STYLE EQ 6) stNbhd_241_Colonial = 1.
IF (NBHD EQ 324 AND STYLE EQ 5) stNbhd_324_cape = 1.
IF (NBHD EQ 324 AND STYLE EQ 9) stNbhd_324_Oldstyle = 1.
RECODE stNbhd_17_Oldstyle TO stNbhd_324_Oldstyle(SYSMIS = 0.).
EXECUTE.
*****.
*LUC.

RECODE LUC ("2150" = 1)(ELSE = 0) INTO OneFamilyWApt.
RECODE LUC ("2200" = 1)(ELSE = 0) INTO TwoFamily.
RECODE LUC ("2300" = 1)(ELSE = 0) INTO ThreeFamily.
* RECODE LUC ("2500" = 1)(ELSE = 0) INTO LUXURY.
RECODE LUC ("2800" = 1)(ELSE = 0) INTO MultiRes.
COMPUTE ConvertedResidenceX = 0.
IF(LUC_NUM GE 4830) ConvertedResidenceX = 1.
EXECUTE.

*****

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\*QUAL.

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* RECODE QUAL (1 = 1)(ELSE = 0) INTO QualEMinus. /* 0 SALES - 0 POP.
* RECODE QUAL (2 = 1)(ELSE = 0) INTO QualE. /* 0 SALES - 1 POP.
* RECODE QUAL (3 = 1)(ELSE = 0) INTO QualEPlus. /* 0 SALES - 0 POP.
* RECODE QUAL (4 = 1)(ELSE = 0) INTO QualDMinus. /* 11 SALES - 69 POP.
RECODE QUAL (1 = 2.5)(2 = 2)(3 = 1.75)(4 = 1.5)(5 = 1)(ELSE = 0) INTO
QualEMinusQualD. /* 48 SALES - 243 POP.
* RECODE QUAL (6 = 1)(ELSE = 0) INTO QualDPlus. /* 54 SALES - 259 POP.
RECODE QUAL (6 = 1.25)(7 = 1)(ELSE = 0) INTO QualDPlusQualCMinus. /* 414 SALES -
2467 POP.
RECODE QUAL (8 = 1)(ELSE = 0) INTO QualC. /* 1254 SALES - 6672 POP.
* RECODE QUAL (9 = 1)(ELSE = 0) INTO QualCPlus. /* 1943 SALES - 9687 POP;
*****BASE.
RECODE QUAL (10 = 1)(ELSE = 0) INTO QualBMinus. /* 962 SALES - 4544 POP.
RECODE QUAL (11 = 1)(12 = 1.25)(ELSE = 0) INTO QualBQualBPlus. /* 656 SALES - 3022
POP.
* RECODE QUAL (12 = 1)(ELSE = 0) INTO QualBPlus. /* 340 SALES - 1402 POP.
* RECODE QUAL (13 = 1)(ELSE = 0) INTO QualAMinus. /* 132 SALES - 511 POP.
RECODE QUAL (13 = 1)(14 = 1.01)(15 = 1.075)(16 = 1.15)(17 = 1.17)(18 = 1.19)(19 =
1.21)(20 = 1.23)(21 = 1.25)(ELSE = 0) INTO QualAMinusQualAQualSPlus. /* 83 SALES -
328 POP.
* RECODE QUAL (15 = 1)(ELSE = 0) INTO QualAPlus. /* 33 SALES - 118 POP.
* RECODE QUAL (16 = 1)(ELSE = 0) INTO QualXMinus. /* 1 SALES - 16 POP.
* RECODE QUAL (17 = 1)(ELSE = 0) INTO QualX. /* 1 SALES - 7 POP.
* RECODE QUAL (18 = 1)(ELSE = 0) INTO QualXPlus. /* 1 SALES - 3 POP.
* RECODE QUAL (19 = 1)(ELSE = 0) INTO QualSMinus. /* 0 SALES - 0 POP.
* RECODE QUAL (20 = 1)(ELSE = 0) INTO QualS. /* 0 SALES - 1 POP.
* RECODE QUAL (21 = 1)(ELSE = 0) INTO QualSPlus. /* 0 SALES - 0 POP.
* RECODE QUAL (22 = 1)(ELSE = 0) INTO QualZMinus. /* 0 SALES - 0 POP.
* RECODE QUAL (23 = 1)(ELSE = 0) INTO QualZ. /* 0 SALES - 0 POP.
* RECODE QUAL (24 = 1)(ELSE = 0) INTO QualZPlus. /* 0 SALES - 0 POP.

DO IF(NBHD EQ 22).
RECODE QUAL (11 = 1)(ELSE = 0) INTO QualB_NB22.
RECODE QUAL (12 = 1)(ELSE = 0) INTO QualBPlus_NB22.
RECODE QUAL (13 = 1)(ELSE = 0) INTO QualAMinus_NB22.
RECODE QUAL (14 = 1)(15 = 1.075)(16 = 1.15)(17 = 1.17)(18 = 1.19)(19 = 1.21)(20 =
1.23)(21 = 1.25)(ELSE = 0) INTO QualAQualSPlus_NB22.
END IF.
RECODE QualB_NB22 TO QualAQualSPlus_NB22 (SYSMIS = 0).
IF(NBHD EQ 22)QualBQualBPlus = 0.
IF(NBHD EQ 22)QualAMinusQualAQualSPlus = 0.

* DO IF(NBHD EQ 125).
* RECODE QUAL (1 = 2.5)(2 = 2)(3 = 1.75)(4 = 1.5)(5 = 1.3)(6 = 1.2)(7 = 1.1)(8 =
1)(ELSE = 0) INTO QualCx_NB125.
* RECODE QualEMinusQualD TO QualC (LO THRU HI = 0)(ELSE = 0).
* END IF.
* RECODE QualCx_NB125 (SYSMIS = 0).

DO IF(NBHD EQ 157).
* RECODE QUAL (10 = 1)(ELSE = 0) INTO QualBMinus_NB157.
* RECODE QUAL (11 = 1)(ELSE = 0) INTO QualB_NB157.
* RECODE QUAL (12 = 1)(ELSE = 0) INTO QualBPlus_NB157.
* RECODE QUAL (13 = 1)(14 = 1)(15 = 1.05)(16 = 1.15)(17 = 1.17)(18 = 1.19)(19 =
1.21)(20 = 1.23)(21 = 1.25)(ELSE = 0) INTO QualAMinusQualAQualSPlus_NB157.
RECODE QUAL (11 = 1)(12= 1.05)(13 = 1.1)(14 = 1.15)(15 = 1.2)(16 = 1.25)(17 =
1.27)(18 = 1.29)(19 = 1.31)(20 = 1.33)(21 = 1.35)(ELSE = 0) INTO QualBup_NB157.
END IF.
IF(NBHD EQ 157)QualBQualBPlus = 0.
IF(NBHD EQ 157)QualAMinusQualAQualSPlus = 0.

```

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RECODE QualBUp\_NB157 (SYSMIS = 0).

```
DO IF(NBHD EQ 234).
  * RECODE QUAL (13 = 1)(ELSE = 0) INTO QualAMinus_NB235.
  RECODE QUAL (11 = 1)(12 = 1.05)(13= 1.10)(14=1.15)(15 = 1.175)(16 = 1.2)(17 =
  1.215)(18 = 1.23)(19 = 1.245)(20 = 1.5)(21 = 1.27)(ELSE = 0) INTO QualBUp_NB234.
END IF.
IF(NBHD EQ 234)QualBQualBPlus = 0.
IF(NBHD EQ 234)QualAMinusQualAQualSPlus = 0.
RECODE QualBUp_NB234 (SYSMIS = 0).

DO IF(NBHD EQ 235).
  * RECODE QUAL (13 = 1)(ELSE = 0) INTO QualAMinus_NB235.
  RECODE QUAL (13 = .93)(14 = 1)(15 = 1.075)(16 = 1.15)(17 = 1.17)(18 = 1.19)(19 =
  1.21)(20 = 1.23)(21 = 1.25)(ELSE = 0) INTO QualAMinusUp_NB235.
END IF.
IF(NBHD EQ 235)QualAMinusQualAQualSPlus = 0.
RECODE QualAMinusUp_NB235 (SYSMIS = 0).

DO IF(NBHD EQ 317).
  RECODE QUAL (11 = 1)(ELSE = 0) INTO QualB_NB317.
  RECODE QUAL (12 = 1)(ELSE = 0) INTO QualBPlus_NB317.
  RECODE QUAL (13 = 1)(14 = 1)(15 = 1.05)(16 = 1.15)(17 = 1.17)(18 = 1.19)(19 =
  1.21)(20 = 1.23)(21 = 1.25)(ELSE = 0) INTO QualAMinusQualAQualSPlus_NB317.
END IF.
IF(NBHD EQ 317)QualBQualBPlus = 0.
IF(NBHD EQ 317)QualAMinusQualAQualSPlus = 0.
RECODE QualB_NB317 TO QualAMinusQualAQualSPlus_NB317 (SYSMIS = 0).
```

```
*****
* SECOND RESIDENCE QUALITY GRADE.
* RECODE QUAL2 (10 THRU 6 = 1)(ELSE = 0) INTO Qual2D.
* RECODE QUAL2 (7 = 1)(ELSE = 0) INTO Qual2CMinus.
* RECODE QUAL2 (8 = 1)(ELSE = 0) INTO Qual2C. /* Base.
* RECODE QUAL2 (9 = 1)(ELSE = 0) INTO Qual2CPlus.
* RECODE QUAL2 (10 = 1)(ELSE = 0) INTO Qual2BMinus.
* RECODE QUAL2 (11 = 1)(ELSE = 0) INTO Qual2B.
* RECODE QUAL2 (12 = 1)(ELSE = 0) INTO Qual2BPlus.
* RECODE QUAL2 (13 = 1)(ELSE = 0) INTO Qual2AUp.
```

```
*****
*CDU.
```

```
* RECODE CDU (1 = 1)(ELSE=0) INTO CDU_Unsound. /* 0 SALES - 0 POP.
* RECODE CDU (2 = 1)(ELSE=0) INTO CDU_VeryPoor. /* 1 SALES - 1 POP.
* RECODE CDU (3 = 1)(ELSE=0) INTO CDU_Poor. /* 0 SALES - 7 POP.
* RECODE CDU (4 = 1)(ELSE=0) INTO CDU_Fair. /* 336 SALES - 1924 POP.
* RECODE CDU (5 = 1)(ELSE=0) INTO CDU_Average. /* 2046 SALES - 9916 POP.
* RECODE CDU (6 = 1)(ELSE=0) INTO CDU_Good. /* 3347 SALES - 16651 POP; BASE.
* RECODE CDU (7 = 1)(ELSE=0) INTO CDU_VeryGood. /* 188 SALES - 788 POP.
RECODE CDU (8 = 1)(ELSE=0) INTO CDU_Excellent. /* 15 SALES - 63 POP.
* Will just test Condition - Should be Colinear with CDU.
```

EXECUTE.

```
*****
*EXTWALL.
```

```
* RECODE EXTWALL (1 = 1)(ELSE=0) INTO EXT_Frame. /* 1830 SALES - 8638 POP; PLACING
IN BASE.
RECODE EXTWALL (2, 9 = 1)(7 = 1.25)(10 = 1.35)(ELSE=0) INTO EXT_Brick. /* 526 SALES
- 2402 POP.
```

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```

* RECODE EXTWALL (3 = 1)(ELSE=0) INTO EXT_MasFrame. /* 1020 SALES - 4793 POP.
* RECODE EXTWALL (4 = 1)(ELSE=0) INTO EXT_ConcBlock. /* 5 SALES - 20 POP.
RECODE EXTWALL (5 = 1)(11 = 1.2)(ELSE=0) INTO EXT_Stucco. /* 321 SALES - 1699 POP.
* RECODE EXTWALL (6 = 1)(ELSE=0) INTO EXT_AlumVinyl. /* 1884 SALES - 9961 POP;
BASE.
* RECODE EXTWALL (7 = 1)(ELSE=0) INTO EXT_Stone. /* 8 SALES - 34 POP.
* RECODE EXTWALL (8 = 1)(ELSE=0) INTO EXT_Composition. /* 295 SALES - 1557 POP.
* RECODE EXTWALL (9 = 1)(ELSE=0) INTO EXT_Masonry. /* 25 SALES - 150 POP.
* RECODE EXTWALL (10 = 1)(ELSE=0) INTO EXT_Log. /* 0 SALES - 2 POP.
* RECODE EXTWALL (11 = 1)(ELSE=0) INTO EXT_CementFiber. /* 19 SALES - 94 POP.
*****.
*BSMT.

* RECODE BSMT (0 = 1)(ELSE=0) INTO BSMT_None. /* 287 SALES - 1303 POP.
* RECODE BSMT (1 = 1)(ELSE=0) INTO BSMT_14orSlab. /* 28 SALES - 187 POP.
* RECODE BSMT (2 = 1)(ELSE=0) INTO BSMT12orCrawl. /* 234 SALES - 1076 POP.
* RECODE BSMT (3 = 1)(ELSE=0) INTO BSMT34. /* 294 SALES - 1283 POP.
* RECODE BSMT (4 = 1)(ELSE=0) INTO BSMT_Full. /* 5090 SALES - 25501 POP; BASE.

*****.
*HEAT.
* Will use Heat System Rather Than variable Heat.
* RECODE HEAT (0, 1 = 1)(ELSE=0) INTO HEAT_None. /* 1 SALES - 8 POP.
* RECODE HEAT (2 = 1)(ELSE=0) INTO HEAT_NonCntrl. /* 1 SALES - 7 POP.
* RECODE HEAT (3 = 1)(ELSE=0) INTO HEAT_CntrlHt. /* 3134 SALES - 15465 POP; BASE.
* RECODE HEAT (4 = 1)(ELSE=0) INTO HEAT_CntrlHtAc. /* 2797 SALES - 13870 POP.

*****.
*FUEL.

* RECODE FUEL (1 = 1)(ELSE=0) INTO Oil. /* 4239 SALES - 20393 POP; BASE.
* RECODE FUEL (2 = 1)(ELSE=0) INTO CoalStoker. /* 7 SALES - 37 POP.
* RECODE FUEL (3 = 1)(ELSE=0) INTO Gas. /* 1530 SALES - 8164 POP.
* RECODE FUEL (4 = 1)(ELSE=0) INTO CoalHand Fired. /* 8 SALES - 24 POP.
* RECODE FUEL (5, 8 = 1)(ELSE=0) INTO SolarGeothermal. /* 3 SALES - 12 POP.
* RECODE FUEL (6 = 1)(ELSE=0) INTO Electric. /* 6 SALES - 38 POP.
* RECODE FUEL (7 = 1)(ELSE=0) INTO FUELOther. /* 140 SALES - 676 POP.
* RECODE FUEL (8 = 1)(ELSE=0) INTO Geothermal. /* 0 SALES - 6 POP.

*****.
*HEATSYS.

* Will use Heat System Rather Than variable Heat.

RECODE HEATSYS (1 = 1)(ELSE=0) INTO HtSysSteamVapor. /* 948 SALES - 4677 POP.
RECODE HEATSYS (2 = 1)(ELSE=0) INTO HtSysHotWater. /* 1943 SALES - 9549 POP.
* RECODE HEATSYS (3 = 1)(ELSE=0) INTO HtSysElectricSolar. /* 2 SALES - 35 POP;
PLACING IN BASE.
RECODE HEATSYS (4 = 1)(ELSE=0) INTO HtSysForcedHotAir. /* 204 SALES - 946 POP.
* RECODE HEATSYS (5 = 1)(ELSE=0) INTO HtSysCentralwithAC. /* 2779 SALES - 13789
POP; BASE.
* RECODE HEATSYS (6 = 1)(ELSE=0) INTO HtSysUnused. /* 0 SALES - 0 POP.
RECODE HEATSYS (7 = 1)(ELSE=0) INTO HtSysHotAir. /* 18 SALES - 91 POP.
RECODE HEATSYS (8 = 1)(ELSE=0) INTO HtSysPipeless. /* 29 SALES - 156 POP.
RECODE HEATSYS (9, 0 = 1)(ELSE=0) INTO HtSysNoHeat. /* 10 SALES - 107 POP.

*****.
*ATTIC.
* WILL USE SQFT INSTEAD.

```

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\*\*\*\*\*  
\*ROOFCOVER ROOFTYPE HVACTYPE - WILL TEST IN RATIO STUDY.

```
COMPUTE Fireplacedx = WBFP_O + WBFP_S + WBFP_PF.  
DO IF(Fireplacedx GT 0).  
COMPUTE LNFireplacedx = LN(Fireplacedx).  
END IF.  
RECODE LNFireplacedx (SYSMIS = 0).
```

\*\*\*\*\*  
\*BATHS.

```
DO IF(FIXTOT GT 0).  
COMPUTE LNFixtot = LN(FIXTOT).  
END IF.  
RECODE LNFixtot (SYSMIS = 0).
```

```
* COMPUTE FULL_BATH = FIXBATH.  
* COMPUTE HALF_BATH = FIXHALF.  
* COMPUTE ADD_FIX = FIXADDL.
```

\*\*\*\*\*  
\*LOCATION AND SITE QUALITATIVE VARIABLES.

\*\*\*\*\*  
\*NBHD.

```
* RECODE NBHD (9 = 1)(ELSE = 0) INTO NBHD9. /* 84 SALES - 416 POP.  
RECODE NBHD (17 = 1)(ELSE = 0) INTO NBHD17. /* 34 SALES - 141 POP.  
RECODE NBHD (18 = 1)(ELSE = 0) INTO NBHD18. /* 33 SALES - 133 POP.  
RECODE NBHD (19 = 1)(ELSE = 0) INTO NBHD19. /* 14 SALES - 109 POP.  
RECODE NBHD (20 = 1)(ELSE = 0) INTO NBHD20. /* 66 SALES - 283 POP.  
RECODE NBHD (21 = 1)(ELSE = 0) INTO NBHD21. /* 36 SALES - 174 POP.  
RECODE NBHD (22 = 1)(ELSE = 0) INTO NBHD22. /* 238 SALES - 920 POP.  
RECODE NBHD (123 = 1)(ELSE = 0) INTO NBHD123. /* 83 SALES - 530 POP.  
RECODE NBHD (124 = 1)(ELSE = 0) INTO NBHD124. /* 194 SALES - 826 POP.  
RECODE NBHD (125 = 1)(ELSE = 0) INTO NBHD125. /* 301 SALES - 1468 POP.  
RECODE NBHD (126 = 1)(ELSE = 0) INTO NBHD126. /* 127 SALES - 832 POP.  
RECODE NBHD (127 = 1)(ELSE = 0) INTO NBHD127. /* 334 SALES - 1714 POP.  
RECODE NBHD (155 = 1)(ELSE = 0) INTO NBHD155. /* 258 SALES - 1356 POP.  
RECODE NBHD (156 = 1)(ELSE = 0) INTO NBHD156. /* 433 SALES - 2001 POP.  
RECODE NBHD (157 = 1)(ELSE = 0) INTO NBHD157. /* 147 SALES - 530 POP.  
RECODE NBHD (158 = 1)(ELSE = 0) INTO NBHD158. /* 137 SALES - 679 POP.  
RECODE NBHD (159 = 1)(ELSE = 0) INTO NBHD159. /* 161 SALES - 693 POP.  
RECODE NBHD (160 = 1)(ELSE = 0) INTO NBHD160. /* 162 SALES - 695 POP.  
RECODE NBHD (161 = 1)(ELSE = 0) INTO NBHD161. /* 162 SALES - 579 POP.  
RECODE NBHD (230 = 1)(ELSE = 0) INTO NBHD230. /* 87 SALES - 403 POP.  
RECODE NBHD (231 = 1)(ELSE = 0) INTO NBHD231. /* 101 SALES - 410 POP.  
RECODE NBHD (232 = 1)(ELSE = 0) INTO NBHD232. /* 117 SALES - 425 POP.  
RECODE NBHD (233 = 1)(ELSE = 0) INTO NBHD233. /* 235 SALES - 1075 POP.  
RECODE NBHD (234 = 1)(ELSE = 0) INTO NBHD234. /* 263 SALES - 1077 POP.  
RECODE NBHD (235 = 1)(ELSE = 0) INTO NBHD235. /* 255 SALES - 1136 POP.  
RECODE NBHD (236 = 1)(ELSE = 0) INTO NBHD236. /* 61 SALES - 335 POP.  
RECODE NBHD (237 = 1)(ELSE = 0) INTO NBHD237. /* 75 SALES - 280 POP.  
* RECODE NBHD (238 = 1)(ELSE = 0) INTO NBHD238. /* 446 SALES - 2333 POP --- BASE.  
RECODE NBHD (240 = 1)(ELSE = 0) INTO NBHD240. /* 58 SALES - 302 POP.  
RECODE NBHD (241 = 1)(ELSE = 0) INTO NBHD241. /* 41 SALES - 221 POP.  
RECODE NBHD (242 = 1)(ELSE = 0) INTO NBHD242. /* 96 SALES - 465 POP.  
RECODE NBHD (243 = 1)(ELSE = 0) INTO NBHD243. /* 96 SALES - 391 POP.  
RECODE NBHD (244 = 1)(ELSE = 0) INTO NBHD244. /* 54 SALES - 269 POP.  
RECODE NBHD (317 = 1)(ELSE = 0) INTO NBHD317. /* 94 SALES - 714 POP.  
RECODE NBHD (318 = 1)(ELSE = 0) INTO NBHD318. /* 64 SALES - 710 POP.  
RECODE NBHD (319 = 1)(ELSE = 0) INTO NBHD319. /* 113 SALES - 891 POP.
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RECODE NBHD (320 = 1)(ELSE = 0) INTO NBHD320. /* 146 SALES - 890 POP.
RECODE NBHD (321 = 1)(ELSE = 0) INTO NBHD321. /* 82 SALES - 569 POP.
RECODE NBHD (322 = 1)(ELSE = 0) INTO NBHD322. /* 143 SALES - 796 POP.
RECODE NBHD (323 = 1)(ELSE = 0) INTO NBHD323. /* 200 SALES - 1104 POP.
RECODE NBHD (324 = 1)(ELSE = 0) INTO NBHD324. /* 102 SALES - 475 POP.
FORMATS NBHD17 TO NBHD324 (F1.0).

COMPUTE NBHD_CHECK = SUM(NBHD17 TO NBHD324).
* FREQUENCIES NBHD_CHECK.

* TEMPORARY.
* SELECT IF(NBHD_CHECK EQ 0).
* FREQUENCIES NBHD.

*****.
* SUBDIVISION ADJUSTMENTS - AS NEEDED.

RECODE SchoolDistName ('BAL' = 1)(ELSE = 0) INTO Schooldist_BAL. /* SIX SALES BUT
ALL ARE HIGH.

*RECODE VillageCode ('FPS' = 1)(ELSE = 0) INTO VillageCodeFPS.
*RECODE VillageCode ('SM' = 1)(ELSE = 0) INTO VillageCodeSM.

RECODE GIS_SUBNAM ('SUB124_1' = 1)(ELSE = 0) INTO SUB124_1.
RECODE GIS_SUBNAM ('SUB234_1' = 1)(ELSE = 0) INTO SUB234_1.
RECODE GIS_SUBNAM ('SUB320_1' = 1)(ELSE = 0) INTO SUB320_1.

IF (SUB124_1 NE 0) NBHD124 = 0.
IF (SUB234_1 NE 0) NBHD234 = 0.
IF (SUB320_1 NE 0) NBHD320 = 0.

RECODE SECBLOCK ('06 076' = 1)(ELSE = 0) INTO SB_06076.
RECODE SECBLOCK ('07 H' = 1)(ELSE = 0) INTO SB_07H.
RECODE SECBLOCK ('07 020' = 1)(ELSE = 0) INTO SB_07020.
RECODE SECBLOCK ('07 023' = 1)(ELSE = 0) INTO SB_07023.
RECODE SECBLOCK ('07 047' = 1)(ELSE = 0) INTO SB_07047.
RECODE SECBLOCK ('07 077' = 1)(ELSE = 0) INTO SB_07077.
RECODE SECBLOCK ('07 109' = 1)(ELSE = 0) INTO SB_07109.
RECODE SECBLOCK ('07 133' = 1)(ELSE = 0) INTO SB_07133.
RECODE SECBLOCK ('07 163' = 1)(ELSE = 0) INTO SB_07163.
RECODE SECBLOCK ('07 175' = 1)(ELSE = 0) INTO SB_07175.
RECODE SECBLOCK ('07 179' = 1)(ELSE = 0) INTO SB_07179.
RECODE SECBLOCK ('07 201' = 1)(ELSE = 0) INTO SB_07201.
RECODE SECBLOCK ('07 215' = 1)(ELSE = 0) INTO SB_07215.
RECODE SECBLOCK ('07 231' = 1)(ELSE = 0) INTO SB_07231.
RECODE SECBLOCK ('07 245' = 1)(ELSE = 0) INTO SB_07245.
RECODE SECBLOCK ('07 265' = 1)(ELSE = 0) INTO SB_07265.
RECODE SECBLOCK ('07 288' = 1)(ELSE = 0) INTO SB_07288.
RECODE SECBLOCK ('07 296' = 1)(ELSE = 0) INTO SB_07296.
RECODE SECBLOCK ('07 299' = 1)(ELSE = 0) INTO SB_07299.
RECODE SECBLOCK ('07 323' = 1)(ELSE = 0) INTO SB_07323.
RECODE SECBLOCK ('09 117' = 1)(ELSE = 0) INTO SB_09117.
RECODE SECBLOCK ('09 345' = 1)(ELSE = 0) INTO SB_09345.
RECODE SECBLOCK ('09 600' = 1)(ELSE = 0) INTO SB_09600.
RECODE SECBLOCK ('09 648' = 1)(ELSE = 0) INTO SB_09648.
RECODE SECBLOCK ('19 044' = 1)(ELSE = 0) INTO SB_19044.
RECODE SECBLOCK ('20 E' = 1)(ELSE = 0) INTO SB_20E.
RECODE SECBLOCK ('20 F' = 1)(ELSE = 0) INTO SB_20F.
RECODE SECBLOCK ('20 F' = 1)(ELSE = 0) INTO SB_20F.
RECODE SECBLOCK ('20 M' = 1)(ELSE = 0) INTO SB_20M.
RECODE SECBLOCK ('20 P' = 1)(ELSE = 0) INTO SB_20P.
RECODE SECBLOCK ('20 045' = 1)(ELSE = 0) INTO SB_20045.

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```
RECODE SECBLOCK ('20 J06' = 1)(ELSE = 0) INTO SB_20J06.
RECODE SECBLOCK ('21 B' = 1)(ELSE = 0) INTO SB_21B.
RECODE SECBLOCK ('21 K' = 1)(ELSE = 0) INTO SB_21K.
RECODE SECBLOCK ('21 Q' = 1)(ELSE = 0) INTO SB_21Q.
RECODE SECBLOCK ('21 035' = 1)(ELSE = 0) INTO SB_21035.
RECODE SECBLOCK ('21 038' = 1)(ELSE = 0) INTO SB_21038.
RECODE SECBLOCK ('21 089' = 1)(ELSE = 0) INTO SB_21089.
RECODE SECBLOCK ('21 144' = 1)(ELSE = 0) INTO SB_21144.
RECODE SECBLOCK ('21 226' = 1)(ELSE = 0) INTO SB_21226.
RECODE SECBLOCK ('21 244' = 1)(ELSE = 0) INTO SB_21244.
RECODE SECBLOCK ('21 248' = 1)(ELSE = 0) INTO SB_21248.
RECODE SECBLOCK ('21 256' = 1)(ELSE = 0) INTO SB_21256.
RECODE SECBLOCK ('22 016' = 1)(ELSE = 0) INTO SB_22016.
RECODE SECBLOCK ('23 044' = 1)(ELSE = 0) INTO SB_23044.
RECODE SECBLOCK ('23 046' = 1)(ELSE = 0) INTO SB_23046.
RECODE SECBLOCK ('23 048' = 1)(ELSE = 0) INTO SB_23048.
RECODE SECBLOCK ('23 055' = 1)(ELSE = 0) INTO SB_23055.
RECODE SECBLOCK ('30 037' = 1)(ELSE = 0) INTO SB_30037.
RECODE SECBLOCK ('31 B' = 1)(ELSE = 0) INTO SB_31B.
RECODE SECBLOCK ('31 E' = 1)(ELSE = 0) INTO SB_31E.
RECODE SECBLOCK ('31 F' = 1)(ELSE = 0) INTO SB_31F.
RECODE SECBLOCK ('31 002' = 1)(ELSE = 0) INTO SB_31002.
RECODE SECBLOCK ('31 013' = 1)(ELSE = 0) INTO SB_31013.
RECODE SECBLOCK ('31 024' = 1)(ELSE = 0) INTO SB_31024.
RECODE SECBLOCK ('31 048' = 1)(ELSE = 0) INTO SB_31048.
RECODE SECBLOCK ('31 050' = 1)(ELSE = 0) INTO SB_31050.
RECODE SECBLOCK ('31 060' = 1)(ELSE = 0) INTO SB_31060.
RECODE SECBLOCK ('31 061' = 1)(ELSE = 0) INTO SB_31061.
RECODE SECBLOCK ('31 066' = 1)(ELSE = 0) INTO SB_31066.
RECODE SECBLOCK ('31 070' = 1)(ELSE = 0) INTO SB_31070.
RECODE SECBLOCK ('33 004' = 1)(ELSE = 0) INTO SB_33004.
RECODE SECBLOCK ('33 005' = 1)(ELSE = 0) INTO SB_33005.
RECODE SECBLOCK ('33 008' = 1)(ELSE = 0) INTO SB_33008.
RECODE SECBLOCK ('33 011' = 1)(ELSE = 0) INTO SB_33011.
RECODE SECBLOCK ('33 043' = 1)(ELSE = 0) INTO SB_33043.
RECODE SECBLOCK ('33 054' = 1)(ELSE = 0) INTO SB_33054.
RECODE SECBLOCK ('33 072' = 1)(ELSE = 0) INTO SB_33072.
RECODE SECBLOCK ('33 083' = 1)(ELSE = 0) INTO SB_33083.
RECODE SECBLOCK ('33 213' = 1)(ELSE = 0) INTO SB_33213.
RECODE SECBLOCK ('33 229' = 1)(ELSE = 0) INTO SB_33229.
RECODE SECBLOCK ('33 323' = 1)(ELSE = 0) INTO SB_33323.
RECODE SECBLOCK ('33 616' = 1)(ELSE = 0) INTO SB_33616.
RECODE SECBLOCK ('34 008' = 1)(ELSE = 0) INTO SB_34008.
RECODE SECBLOCK ('34 017' = 1)(ELSE = 0) INTO SB_34017.
RECODE SECBLOCK ('34 046' = 1)(ELSE = 0) INTO SB_34046.
RECODE SECBLOCK ('34 064' = 1)(ELSE = 0) INTO SB_34064.
RECODE SECBLOCK ('34 068' = 1)(ELSE = 0) INTO SB_34068.
RECODE SECBLOCK ('34 071' = 1)(ELSE = 0) INTO SB_34071.
RECODE SECBLOCK ('34 103' = 1)(ELSE = 0) INTO SB_34103.
RECODE SECBLOCK ('34 110' = 1)(ELSE = 0) INTO SB_34110.
RECODE SECBLOCK ('34 131' = 1)(ELSE = 0) INTO SB_34131.
RECODE SECBLOCK ('34 133' = 1)(ELSE = 0) INTO SB_34133.
RECODE SECBLOCK ('34 160' = 1)(ELSE = 0) INTO SB_34160.
RECODE SECBLOCK ('34 161' = 1)(ELSE = 0) INTO SB_34161.
RECODE SECBLOCK ('34 170' = 1)(ELSE = 0) INTO SB_34170.
RECODE SECBLOCK ('34 171' = 1)(ELSE = 0) INTO SB_34171.
RECODE SECBLOCK ('34 180' = 1)(ELSE = 0) INTO SB_34180.
RECODE SECBLOCK ('34 527' = 1)(ELSE = 0) INTO SB_34527.
RECODE SECBLOCK ('34 529' = 1)(ELSE = 0) INTO SB_34529.
RECODE SECBLOCK ('34 530' = 1)(ELSE = 0) INTO SB_34530.
RECODE SECBLOCK ('34 541' = 1)(ELSE = 0) INTO SB_34541.
RECODE SECBLOCK ('35 074' = 1)(ELSE = 0) INTO SB_35074.
RECODE SECBLOCK ('36 289' = 1)(ELSE = 0) INTO SB_36289.
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RECODE SECBLOCK ('36 304' = 1)(ELSE = 0) INTO SB_36304.  
RECODE SECBLOCK ('36 312' = 1)(ELSE = 0) INTO SB_36312.  
RECODE SECBLOCK ('36 318' = 1)(ELSE = 0) INTO SB_36318.  
RECODE SECBLOCK ('36 339' = 1)(ELSE = 0) INTO SB_36339.  
RECODE SECBLOCK ('36 340' = 1)(ELSE = 0) INTO SB_36340.  
RECODE SECBLOCK ('36 355' = 1)(ELSE = 0) INTO SB_36355.  
RECODE SECBLOCK ('36 362' = 1)(ELSE = 0) INTO SB_36362.  
RECODE SECBLOCK ('36 370' = 1)(ELSE = 0) INTO SB_36370.  
RECODE SECBLOCK ('36 459' = 1)(ELSE = 0) INTO SB_36459.  
RECODE SECBLOCK ('36 501' = 1)(ELSE = 0) INTO SB_36501.  
RECODE SECBLOCK ('38 237' = 1)(ELSE = 0) INTO SB_38237.  
RECODE SECBLOCK ('38 244' = 1)(ELSE = 0) INTO SB_38244.  
RECODE SECBLOCK ('38 252' = 1)(ELSE = 0) INTO SB_38252.  
RECODE SECBLOCK ('38 264' = 1)(ELSE = 0) INTO SB_38264.  
RECODE SECBLOCK ('38 274' = 1)(ELSE = 0) INTO SB_38274.  
RECODE SECBLOCK ('44 075' = 1)(ELSE = 0) INTO SB_44075.  
RECODE SECBLOCK ('06 025' = 1)(ELSE = 0) INTO SB_06025.  
RECODE SECBLOCK ('06 072' = 1)(ELSE = 0) INTO SB_06072.  
RECODE SECBLOCK ('06 B03' = 1)(ELSE = 0) INTO SB_06B03.  
RECODE SECBLOCK ('06 B04' = 1)(ELSE = 0) INTO SB_06B04.  
RECODE SECBLOCK ('06 B05' = 1)(ELSE = 0) INTO SB_06B05.  
RECODE SECBLOCK ('07 B' = 1)(ELSE = 0) INTO SB_07B.  
RECODE SECBLOCK ('07 001' = 1)(ELSE = 0) INTO SB_07001.  
RECODE SECBLOCK ('07 018' = 1)(ELSE = 0) INTO SB_07018.  
RECODE SECBLOCK ('07 030' = 1)(ELSE = 0) INTO SB_07030.  
RECODE SECBLOCK ('07 051' = 1)(ELSE = 0) INTO SB_07051.  
RECODE SECBLOCK ('07 128' = 1)(ELSE = 0) INTO SB_07128.  
RECODE SECBLOCK ('07 132' = 1)(ELSE = 0) INTO SB_07132.  
RECODE SECBLOCK ('07 165' = 1)(ELSE = 0) INTO SB_07165.  
RECODE SECBLOCK ('07 168' = 1)(ELSE = 0) INTO SB_07168.  
RECODE SECBLOCK ('07 182' = 1)(ELSE = 0) INTO SB_07182.  
RECODE SECBLOCK ('07 220' = 1)(ELSE = 0) INTO SB_07220.  
RECODE SECBLOCK ('07 224' = 1)(ELSE = 0) INTO SB_07224.  
RECODE SECBLOCK ('07 249' = 1)(ELSE = 0) INTO SB_07249.  
RECODE SECBLOCK ('07 274' = 1)(ELSE = 0) INTO SB_07274.  
RECODE SECBLOCK ('07 275' = 1)(ELSE = 0) INTO SB_07275.  
RECODE SECBLOCK ('07 278' = 1)(ELSE = 0) INTO SB_07278.  
RECODE SECBLOCK ('07 283' = 1)(ELSE = 0) INTO SB_07283.  
RECODE SECBLOCK ('07 310' = 1)(ELSE = 0) INTO SB_07310.  
RECODE SECBLOCK ('07 K04' = 1)(ELSE = 0) INTO SB_07K04.  
RECODE SECBLOCK ('09 343' = 1)(ELSE = 0) INTO SB_09343.  
RECODE SECBLOCK ('09 358' = 1)(ELSE = 0) INTO SB_09358.  
RECODE SECBLOCK ('09 543' = 1)(ELSE = 0) INTO SB_09543.  
RECODE SECBLOCK ('09 569' = 1)(ELSE = 0) INTO SB_09569.  
RECODE SECBLOCK ('09 599' = 1)(ELSE = 0) INTO SB_09599.  
RECODE SECBLOCK ('09 613' = 1)(ELSE = 0) INTO SB_09613.  
RECODE SECBLOCK ('19 027' = 1)(ELSE = 0) INTO SB_19027.  
RECODE SECBLOCK ('20 012' = 1)(ELSE = 0) INTO SB_20012.  
RECODE SECBLOCK ('20 059' = 1)(ELSE = 0) INTO SB_20059.  
RECODE SECBLOCK ('20 076' = 1)(ELSE = 0) INTO SB_20076.  
RECODE SECBLOCK ('20 J04' = 1)(ELSE = 0) INTO SB_20J04.  
RECODE SECBLOCK ('21 C' = 1)(ELSE = 0) INTO SB_21C.  
RECODE SECBLOCK ('21 P' = 1)(ELSE = 0) INTO SB_21P.  
RECODE SECBLOCK ('21 S' = 1)(ELSE = 0) INTO SB_21S.  
RECODE SECBLOCK ('21 027' = 1)(ELSE = 0) INTO SB_21027.  
RECODE SECBLOCK ('21 103' = 1)(ELSE = 0) INTO SB_21103.  
RECODE SECBLOCK ('21 114' = 1)(ELSE = 0) INTO SB_21114.  
RECODE SECBLOCK ('21 21101' = 1)(ELSE = 0) INTO SB_2121101.  
RECODE SECBLOCK ('21 212' = 1)(ELSE = 0) INTO SB_21212.  
RECODE SECBLOCK ('21 214' = 1)(ELSE = 0) INTO SB_21214.  
RECODE SECBLOCK ('21 220' = 1)(ELSE = 0) INTO SB_21220.  
RECODE SECBLOCK ('21 229' = 1)(ELSE = 0) INTO SB_21229.  
RECODE SECBLOCK ('21 239' = 1)(ELSE = 0) INTO SB_21239.
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RECODE SECBLOCK ('22 005' = 1)(ELSE = 0) INTO SB_22005.
RECODE SECBLOCK ('23 E' = 1)(ELSE = 0) INTO SB_23E.
RECODE SECBLOCK ('23 037' = 1)(ELSE = 0) INTO SB_23037.
RECODE SECBLOCK ('23 051' = 1)(ELSE = 0) INTO SB_23051.
RECODE SECBLOCK ('30 082' = 1)(ELSE = 0) INTO SB_30082.
RECODE SECBLOCK ('31 012' = 1)(ELSE = 0) INTO SB_31012.
RECODE SECBLOCK ('31 017' = 1)(ELSE = 0) INTO SB_31017.
RECODE SECBLOCK ('31 021' = 1)(ELSE = 0) INTO SB_31021.
RECODE SECBLOCK ('31 025' = 1)(ELSE = 0) INTO SB_31025.
RECODE SECBLOCK ('31 057' = 1)(ELSE = 0) INTO SB_31057.
RECODE SECBLOCK ('31 059' = 1)(ELSE = 0) INTO SB_31059.
RECODE SECBLOCK ('31 064' = 1)(ELSE = 0) INTO SB_31064.
RECODE SECBLOCK ('31 067' = 1)(ELSE = 0) INTO SB_31067.
RECODE SECBLOCK ('31 068' = 1)(ELSE = 0) INTO SB_31068.
RECODE SECBLOCK ('33 002' = 1)(ELSE = 0) INTO SB_33002.
RECODE SECBLOCK ('33 036' = 1)(ELSE = 0) INTO SB_33036.
RECODE SECBLOCK ('33 037' = 1)(ELSE = 0) INTO SB_33037.
RECODE SECBLOCK ('33 076' = 1)(ELSE = 0) INTO SB_33076.
RECODE SECBLOCK ('33 077' = 1)(ELSE = 0) INTO SB_33077.
RECODE SECBLOCK ('33 089' = 1)(ELSE = 0) INTO SB_33089.
RECODE SECBLOCK ('33 092' = 1)(ELSE = 0) INTO SB_33092.
RECODE SECBLOCK ('33 200' = 1)(ELSE = 0) INTO SB_33200.
RECODE SECBLOCK ('33 247' = 1)(ELSE = 0) INTO SB_33247.
RECODE SECBLOCK ('33 329' = 1)(ELSE = 0) INTO SB_33329.
RECODE SECBLOCK ('34 024' = 1)(ELSE = 0) INTO SB_34024.
RECODE SECBLOCK ('34 031' = 1)(ELSE = 0) INTO SB_34031.
RECODE SECBLOCK ('34 040' = 1)(ELSE = 0) INTO SB_34040.
RECODE SECBLOCK ('34 052' = 1)(ELSE = 0) INTO SB_34052.
RECODE SECBLOCK ('34 057' = 1)(ELSE = 0) INTO SB_34057.
RECODE SECBLOCK ('34 069' = 1)(ELSE = 0) INTO SB_34069.
RECODE SECBLOCK ('34 093' = 1)(ELSE = 0) INTO SB_34093.
RECODE SECBLOCK ('34 104' = 1)(ELSE = 0) INTO SB_34104.
RECODE SECBLOCK ('34 105' = 1)(ELSE = 0) INTO SB_34105.
RECODE SECBLOCK ('34 108' = 1)(ELSE = 0) INTO SB_34108.
RECODE SECBLOCK ('34 109' = 1)(ELSE = 0) INTO SB_34109.
RECODE SECBLOCK ('34 113' = 1)(ELSE = 0) INTO SB_34113.
RECODE SECBLOCK ('34 117' = 1)(ELSE = 0) INTO SB_34117.
RECODE SECBLOCK ('34 121' = 1)(ELSE = 0) INTO SB_34121.
RECODE SECBLOCK ('34 124' = 1)(ELSE = 0) INTO SB_34124.
RECODE SECBLOCK ('34 125' = 1)(ELSE = 0) INTO SB_34125.
RECODE SECBLOCK ('34 143' = 1)(ELSE = 0) INTO SB_34143.
RECODE SECBLOCK ('34 146' = 1)(ELSE = 0) INTO SB_34146.
RECODE SECBLOCK ('34 151' = 1)(ELSE = 0) INTO SB_34151.
RECODE SECBLOCK ('34 166' = 1)(ELSE = 0) INTO SB_34166.
RECODE SECBLOCK ('34 478' = 1)(ELSE = 0) INTO SB_34478.
RECODE SECBLOCK ('36 F' = 1)(ELSE = 0) INTO SB_36F.
RECODE SECBLOCK ('36 243' = 1)(ELSE = 0) INTO SB_36243.
RECODE SECBLOCK ('36 282' = 1)(ELSE = 0) INTO SB_36282.
RECODE SECBLOCK ('36 296' = 1)(ELSE = 0) INTO SB_36296.
RECODE SECBLOCK ('36 354' = 1)(ELSE = 0) INTO SB_36354.
RECODE SECBLOCK ('36 362' = 1)(ELSE = 0) INTO SB_36362.
RECODE SECBLOCK ('36 428' = 1)(ELSE = 0) INTO SB_36428.
RECODE SECBLOCK ('36 448' = 1)(ELSE = 0) INTO SB_36448.
RECODE SECBLOCK ('36 452' = 1)(ELSE = 0) INTO SB_36452.
RECODE SECBLOCK ('36 45701' = 1)(ELSE = 0) INTO SB_3645701.
RECODE SECBLOCK ('36 496' = 1)(ELSE = 0) INTO SB_36496.
RECODE SECBLOCK ('36 P02' = 1)(ELSE = 0) INTO SB_36P02.
RECODE SECBLOCK ('38 181' = 1)(ELSE = 0) INTO SB_38181.
RECODE SECBLOCK ('38 182' = 1)(ELSE = 0) INTO SB_38182.
RECODE SECBLOCK ('38 239' = 1)(ELSE = 0) INTO SB_38239.
RECODE SECBLOCK ('38 250' = 1)(ELSE = 0) INTO SB_38250.
RECODE SECBLOCK ('38 253' = 1)(ELSE = 0) INTO SB_38253.
RECODE SECBLOCK ('38 276' = 1)(ELSE = 0) INTO SB_38276.
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RECODE SECBLOCK ('38 330' = 1)(ELSE = 0) INTO SB_38330.
FORMATS SB_06076 TO SB_38330 (F1.0).

COMPUTE BLK_CHECK = SUM(SB_06076 TO SB_38330).
* CROSSTABS PARCEL_TYPE BY BLK_CHECK.

COMPUTE NBHD_TAXDIST_732 = 0.
IF (TAXDIST EQ '732')NBHD_TAXDIST_732 = 1.

COMPUTE NBHD_TAXDIST_724 = 0.
IF (TAXDIST EQ '724')NBHD_TAXDIST_724 = 1.

COMPUTE NBHD_TAXDIST_742 = 0.
IF (TAXDIST EQ '742')NBHD_TAXDIST_742 = 1.

COMPUTE NBHD_TAXDIST_802 = 0.
IF (TAXDIST EQ '802')NBHD_TAXDIST_802 = 1.

*****.
*WaterAttribute.

/*only Three sales here, but they are super out of range.
COMPUTE WATER_viewGroup3 = 0.
IF ( Water_WaterView EQ 1 AND nbhdgroupnum eq 3) WATER_viewGroup3 = 1.
* FREQUENCIES WATER_viewGroup3.
*****.
*****.
*****.
*****.

*****THESE ARE NOW CREATED AS BINARIES IN THE PROGNOSIS VIEW.
*****Location.***.

COMPUTE LOC_CommercialOrIndustrialX = LOC_CommercialOrIndustrial.
IF( LOC_Cemetery EQ 1)LOC_CommercialOrIndustrialX = 1.

*****.
***** Fronting.***.
*****.
***** Traffic***.
*****.

*****.
*****.
*****.
*COST CONSTRAINTS.

COMPUTE ExtraImpsCost = SUM(RCNVAL2, RCNVAL3).
COMPUTE Cabin_OfficeStudioCost = SUM(Cabin_ADJRCNLD, OfficeStudio_ADJRCNLD,
Clubhouse_ADJRCNLD).
COMPUTE UtilityCost = SUM(UtilityBldgRCNLD, UtilShed_ADJRCNLD).
COMPUTE AGCost = SUM(AGBldgs_ADJRCNLD, Barn_ADJRCNLD).
COMPUTE GreenhouseCost = SUM(GreenhouseRCNLD, Greenhouse_ADJRCNLD).
COMPUTE PoolCost = SUM(PoolVinylRCNLD, PoolConcRCNLD, PoolFbg1_ADJRCNLD,
PoolGuni_ADJRCNLD, PoolVinyl_ADJRCNLD).
COMPUTE EnclPoolCost = SUM(EnclPoolLowRCNLD, EnclPoolHighRCNLD,
PoolEnclosure_ADJRCNLD, BathHouse_ADJRCNLD).
COMPUTE WallCost = SUM(Fence_ADJRCNLD, Masonrywall_ADJRCNLD, Paving_ADJRCNLD).
COMPUTE MiscImpCost = SUM(ElevatorRCNLD, TennisCourt_ADJRCNLD, Cellar_ADJRCNLD,
MiscAddnRCNLD).
COMPUTE MiscWaterImpCost = SUM(BoatDock_ADJRCNLD, BoatHouseEnclosed_ADJRCNLD,
BoatHouseOpen_ADJRCNLD, BoatSlip_ADJRCNLD),

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Bulkhead\_ADJRCNLD,

Seawall\_ADJRCNLD).

COMPUTE MiscCoverCost = SUM(Canopy\_ADJRCNLD, Gazebo\_ADJRCNLD).

COMPUTE COST\_RCNLDX\_P = SUM(Cabin\_OfficeStudioCost\_P, AGCost\_P, EnclPoolCost\_P, WallCost\_P, MiscImpCost\_P, MiscWaterImpCost\_P, MiscCoverCost\_P, SpaJacuzzi\_ADJRCNLD\_P).

COMPUTE COST\_RCNLDX = SUM(Cabin\_OfficeStudioCost, AGCost, EnclPoolCost, WallCost, MiscImpCost, MiscWaterImpCost, MiscCoverCost, SpaJacuzzi\_ADJRCNLD).

RECODE COST\_RCNLDX COST\_RCNLDX\_P (SYSMIS = 0).

FORMATS ExtraImpsCost Cabin\_OfficeStudioCost UtilityCost AGCost GreenhouseCost PoolCost

EnclPoolCost WallCost MiscImpCost MiscWaterImpCost MiscCoverCost COST\_RCNLDX COST\_RCNLDX\_P (COMMA10.0).

TEMPORARY.

SELECT IF(COST\_RCNLDX GT 0).

DESCRIPTIVES COST\_RCNLDX COST\_RCNLDX\_P .

\*\*\*\*\*PREDICTION\*\*\*\*\*

DO IF( PARCEL\_TYPE EQ 'S').

\* COMPUTE ADJPRICE = SOLDPRICE.

COMPUTE ADJPRICE = TASP.

END IF.

FORMATS ADJPRICE (COMMA10.0).

\*\*\*\*\*

\* LAND VALUE.

COMPUTE PCT\_GOOD\_ADJ = EXP( + .189890049597617 \* LN\_PCT\_GOOD).

COMPUTE WATER\_ADJ = EXP( + .445496043789275 \* Water\_Bay

+ .607441964244848 \* Water\_Sound

+ .143866997819348 \* WATER\_viewGroup3).

COMPUTE LOC\_ADJ = EXP( + -.094528679043678 \* LOC\_MajorHighway

+ -.024790002981251 \* LOC\_SecondaryStreet

+ -.069915702741194 \* LOC\_LongIslandRailRoad

+ -.107874104567328 \* LOC\_CommercialOrIndustrialX).

COMPUTE FRONTING\_ADJ = EXP( + -.030000240561607 \*

FR\_MajorStrip).

COMPUTE TRAFFIC\_ADJ = EXP( + -.032034544446510 \* TrafficMedium

+ -.042257841202837 \* TrafficHeavy).

COMPUTE SITEADJ = WATER\_ADJ \* LOC\_ADJ \* FRONTING\_ADJ \* TRAFFIC\_ADJ .

COMPUTE SUM\_Acres = SUMLAND / 43560.

\* COMPUTE TEMP1 = ESP\_ECON \* .40.

\* AGGREGATE

/OUTFILE = \* MODEL=ADDVARIABLES

/BREAK = NBHD

/BaseValue = MEDIAN(TEMP1)

/LandSqftMedian = median(SUMLANDX).

\* FORMATS BaseValue LandSqftMedian (comma10).

COMPUTE BaseValue = 300000.

\* IF(NBHD EQ 9)Basevalue = 255961.025429142.

IF(NBHD EQ 17)Basevalue = 313661.741694970.

IF(NBHD EQ 18)Basevalue = 327785.292702112.

IF(NBHD EQ 19)Basevalue = 400963.723199006.

IF(NBHD EQ 20)Basevalue = 368457.280991173.

IF(NBHD EQ 21)Basevalue = 477905.327325271.

IF(NBHD EQ 22)Basevalue = 507480.699201318.

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IF(NBHD EQ 123)BaseValue = 187638.599970868.
IF(NBHD EQ 124)BaseValue = 420505.092177776.
IF(NBHD EQ 125)BaseValue = 298026.775528865.
IF(NBHD EQ 126)BaseValue = 266653.982252687.
IF(NBHD EQ 127)BaseValue = 310842.870962364.
IF(NBHD EQ 155)BaseValue = 330727.289312520.
IF(NBHD EQ 156)BaseValue = 456978.823788772.
IF(NBHD EQ 157)BaseValue = 484743.248488497.
IF(NBHD EQ 158)BaseValue = 306076.135484561.
IF(NBHD EQ 159)BaseValue = 395434.941308676.
IF(NBHD EQ 160)BaseValue = 308788.286516218.
IF(NBHD EQ 161)BaseValue = 401642.349090161.
IF(NBHD EQ 230)BaseValue = 536216.776407838.
IF(NBHD EQ 231)BaseValue = 434665.746052014.
IF(NBHD EQ 232)BaseValue = 355721.908596569.
IF(NBHD EQ 233)BaseValue = 295175.083966503.
IF(NBHD EQ 234)BaseValue = 386645.208913216.
IF(NBHD EQ 235)BaseValue = 514632.502673989.
IF(NBHD EQ 236)BaseValue = 236485.160069803.
IF(NBHD EQ 237)BaseValue = 586142.806293086.
IF(NBHD EQ 238)BaseValue = 258180.441823316.
IF(NBHD EQ 240)BaseValue = 305982.263229227.
IF(NBHD EQ 241)BaseValue = 437189.487191223.
IF(NBHD EQ 242)BaseValue = 243663.770109856.
IF(NBHD EQ 243)BaseValue = 428286.328758343.
IF(NBHD EQ 244)BaseValue = 330020.486930588.
IF(NBHD EQ 317)BaseValue = 235676.198561122.
IF(NBHD EQ 318)BaseValue = 192659.501386715.
IF(NBHD EQ 319)BaseValue = 200099.323699375.
IF(NBHD EQ 320)BaseValue = 167509.742875770.
IF(NBHD EQ 321)BaseValue = 222304.355224382.
IF(NBHD EQ 322)BaseValue = 227857.408025612.
IF(NBHD EQ 323)BaseValue = 194168.060107266.
IF(NBHD EQ 324)BaseValue = 365497.305410027.

COMPUTE LandSqftMedian = 7500.
* IF(NBHD EQ 9)LandSqftMedian = 5000.00.
IF(NBHD EQ 17)LandSqftMedian = 7200.00.
IF(NBHD EQ 18)LandSqftMedian = 7500.00.
IF(NBHD EQ 19)LandSqftMedian = 10450.00.
IF(NBHD EQ 20)LandSqftMedian = 8125.00.
IF(NBHD EQ 21)LandSqftMedian = 15000.00.
IF(NBHD EQ 22)LandSqftMedian = 14280.00.
IF(NBHD EQ 123)LandSqftMedian = 6360.00.
IF(NBHD EQ 124)LandSqftMedian = 8230.00.
IF(NBHD EQ 125)LandSqftMedian = 6250.00.
IF(NBHD EQ 126)LandSqftMedian = 8165.00.
IF(NBHD EQ 127)LandSqftMedian = 6958.00.
IF(NBHD EQ 155)LandSqftMedian = 6669.50.
IF(NBHD EQ 156)LandSqftMedian = 8000.00.
IF(NBHD EQ 157)LandSqftMedian = 18750.00.
IF(NBHD EQ 158)LandSqftMedian = 6716.00.
IF(NBHD EQ 159)LandSqftMedian = 7250.00.
IF(NBHD EQ 160)LandSqftMedian = 7500.00.
IF(NBHD EQ 161)LandSqftMedian = 10300.00.
IF(NBHD EQ 230)LandSqftMedian = 18400.00.
IF(NBHD EQ 231)LandSqftMedian = 12150.00.
IF(NBHD EQ 232)LandSqftMedian = 12240.00.
IF(NBHD EQ 233)LandSqftMedian = 6800.00.
IF(NBHD EQ 234)LandSqftMedian = 10890.00.
IF(NBHD EQ 235)LandSqftMedian = 18150.00.
IF(NBHD EQ 236)LandSqftMedian = 7500.00.
IF(NBHD EQ 237)LandSqftMedian = 45302.00.

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IF(NBHD EQ 238)LandSqftMedian = 8758.50.
IF(NBHD EQ 240)LandSqftMedian = 8450.00.
IF(NBHD EQ 241)LandSqftMedian = 8412.50.
IF(NBHD EQ 242)LandSqftMedian = 4800.00.
IF(NBHD EQ 243)LandSqftMedian = 13200.00.
IF(NBHD EQ 244)LandSqftMedian = 9375.00.
IF(NBHD EQ 317)LandSqftMedian = 11901.00.
IF(NBHD EQ 318)LandSqftMedian = 6250.00.
IF(NBHD EQ 319)LandSqftMedian = 8513.00.
IF(NBHD EQ 320)LandSqftMedian = 7308.00.
IF(NBHD EQ 321)LandSqftMedian = 10080.00.
IF(NBHD EQ 322)LandSqftMedian = 8590.00.
IF(NBHD EQ 323)LandSqftMedian = 8500.00.
IF(NBHD EQ 324)LandSqftMedian = 25020.00.

COMPUTE Base50Rate = BaseValue / LandSqftMedian**.50.

COMPUTE UnderwaterValue = 0.
IF(UNDERWATER_SF GT 0)UnderwaterValue = TRUNC(((UNDERWATER_SF**.50 * Base50Rate) * .20) / 100) * 100.

COMPUTE IssueWgt = 1.
IF(LandIssueSF_Sum GT 0)IssueWgt = (LandIssuePCTx * LandIssueSF) / (LandIssuePCT_ECONx * LandIssueSF_Sum).
DESCRIPTIVES Issuewgt.

IF(LandIssueSF_Sum LT 1000 AND LandIssuePCT_ECONX GT .10)LandIssuePCT_ECONX = .10.
COMPUTE LandIssueValue_ECON = 0.
IF(LandIssueSF_Sum GT 0)LandIssueValue_ECON = (LandIssueSF_Sum**.50 * Base50Rate) * LandIssuePCT_ECONx.
EXECUTE.

COMPUTE LandIssueValue = TRUNC((LandIssueValue_ECON * IssueWgt) / 100) * 100.
FORMATS UnderWaterValue LandIssueValue LandIssueValue_ECON (COMMA10.0).
EXECUTE.

IF(SUMLANDX GT 0)Allocated50LandValue_ECON = TRUNC(SUMLANDX**.50 * Base50Rate * SITEADJ).
IF(SUMLANDX GT 0 AND Discount EQ 1)Allocated50Landvalue_ECON = TRUNC(SUMLANDX**.50 * (Base50Rate * .20) * SITEADJ).
RECODE Allocated50LandValue_ECON (SYSMIS = 0).
FORMATS Allocated50LandValue_ECON (COMMA10.0).
EXECUTE.

DO IF(SUMLANDX GT 0).
  COMPUTE PCT_LAND = RND(LANDSQFTx / SUMLANDX * 100) / 100.
END IF.
IF(PARCEL_TYPE EQ 'S')PCT_LAND = 1.
IF(SUMLANDX EQ 0)PCT_LAND = 1.
IF(LANDSQFTx NE SUMLANDX AND PCT_LAND LT .005 AND LANDSQFTx GT 100)PCT_LAND = .005.
FORMATS PCT_LAND (F5.3).

COMPUTE TMPLAND = (Allocated50Landvalue_ECON * PCT_LAND) .
IF(TMPLAND GE 100000)ESP_LAND = TRUNC(TMPLAND / 1000) * 1000.
IF(TMPLAND LT 100000)ESP_LAND = TRUNC(TMPLAND / 100) * 100.
* IF(ESP_LAND LT 1000)ESP_LAND = 1000.

COMPUTE TOTAL_LAND_ECON = Allocated50Landvalue_ECON + LandIssueValue_ECON.

COMPUTE LAND_TOTAL = ESP_LAND + UnderwaterValue + LandIssueValue.
IF(LAND_TOTAL LT 500)LAND_TOTAL = 500.
FORMATS ESP_LAND UnderWaterValue LandIssueValue LAND_TOTAL TOTAL_LAND_ECON (COMMA10.0).

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DESCRIPTIVES TMPLAND ESP\_LAND UnderWaterValue LandIssueValue LAND\_TOTAL  
TOTAL\_LAND\_ECON.

\*\*\*\*\*  
 \* + .209811353422933 \* LANDMineola  
 \* + -1.693696997538148 \* NBHD9 - MOVED TO MARKET 2.  
 \* + .359291704147361 \* QualBplus\_NB317 - Adjustment was reduced  
 almost 4 points so A would be equal not lower.  
 \* + .071016607373149 \* SB\_06B03 - by Russ.  
 \* + .295786501611156 \* SB\_07B - by Russ.  
 \* + .082118799522939 \* SB\_20012 - by Russ.  
 \* + .092853498256449 \* SB\_20E - by Russ.  
 \* + .125443876573883 \* SB\_21212 - by Russ.  
 \* + .148526268639484 \* SB\_21S - by Russ.  
 \* + .234018127407945 \* SB\_34093 - by Russ.  
 \* + .132071088076211 \* SB\_34104 - by Russ.  
 \* + .131977180032189 \* SB\_34105 - by Russ.  
 \* + .139133822809589 \* SB\_34113 - by Russ.  
 \* + .177913552932551 \* SB\_36282 - by Russ.  
 \* + .110195291687137 \* SB\_3645701 - by Russ.  
 \* + .114840566211378 \* SB\_34478 - by Russ.  
 \* + .111701309319778 \* SB\_36F - by Russ.  
 \* + .134982722164638 \* SB\_38250 - by Russ.  
 \* + .118579148597969 \* SB\_38330 - by Russ.

DO IF(SFLA\_ECON GT 0).  
 COMPUTE ESP\_ECON = EXP(13.355335840652460  
 + .122781071182315 \* LN\_LANDSIZERATIO1  
 + .109227712098592 \* LN\_LANDSIZERATIO2  
 + .031500066585807 \* LN\_NorthShoreRatio1  
 + .182638546463886 \* LN\_NorthShoreRatio2  
 + .273913302007708 \* LN\_SQFTxRATIO1  
 + .444446944238691 \* LN\_SQFTxRATIO2  
 + .101108828502339 \* LN\_LIN\_BSMTx\_Ratio  
 + .085263708893669 \* LN\_RECBSMTx\_RATIO  
 + .189890049597617 \* LN\_PCT\_GOOD  
 + .029993966517515 \* ST\_RaisedRanch\_HiRanch  
 + .024832580043856 \* ST\_SplitLevel  
 + -.052075821200346 \* ST\_ModifiedRanch  
 + -.010621847119341 \* ST\_Cape  
 + .037041809302330 \* ST\_Colonial  
 + .021185829405437 \* ST\_OldStyle  
 + -.027999507444354 \* ST\_Bungalowcottage  
 + .040233718465623 \* ST\_DuplexOrTriplex  
 + .052070890620000 \* ST\_Townhouse  
 + .064546917455311 \* ST\_Tudor  
 + -.113561049121755 \* stNbhd\_17\_Oldstyle  
 + .052062402703531 \* stNbhd\_20\_Colonial  
 + .089833301961991 \* stNbhd\_7\_ModRanch  
 + .235529168774812 \* stNbhd\_8\_ST\_Victorian  
 + -.077823524920215 \* stNbhd\_22\_Contemp  
 + .054604494223062 \* stNbhd\_22\_Ranch  
 + -.070193001425915 \* stNbhd\_1245\_Ranch  
 + .187981742132411 \* stNbhd\_157\_Ranch  
 + .122054544262991 \* stNbhd\_157\_cape  
 + .120956026154695 \* stNbhd\_161\_Townhouse  
 + -.094695976843049 \* stNbhd\_161\_Splitlevel  
 + .044129563104720 \* stNbhd\_235\_Splitlevel  
 + .122158274680766 \* stNbhd\_235\_ModRanch  
 + .109037225015953 \* stNbhd\_237\_Splitlevel  
 + .068451326863218 \* stNbhd\_240\_cape

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+.082083435310281 * stNbhd_241_Colonial
+.240996306483919 * stNbhd_317_OldStyle
+.232307959983353 * stNbhd_320_Bungalow
+.141015729746456 * stNbhd_320_splitlevel
+.125686249814436 * stNbhd_321_Ranch
+.086925388505384 * stNbhd_324_cape
+.192135034098137 * stNbhd_324_Oldstyle
+.058929102934868 * TwoFamily
+.162157720002700 * ThreeFamily
+.065650929922351 * MultiRes
+.042859528048228 * ConvertedResidenceX
+.106847978270587 * QualEMinusQualD
+.039725583679930 * QualDPlusQualCMinus
+.024842300225581 * QualC
+.019423816190147 * QualBMinus
+.066420761105033 * QualBQualBPlus
+.085722421565654 * QualAMinusQualAQualsPlus
+.111513345671935 * QualB_NB22
+.287340521341977 * QualBPlus_NB22
+.319478440426230 * QualAMinus_NB22
+.357091522497661 * QualAQualsPlus_NB22
+.220665208367632 * QualBUp_NB157
+.147567746921701 * QualBUp_NB234
+.262979115757201 * QualAminusUp_NB235
+.112147747418431 * QualB_NB317
+.321739851417481 * QualBPlus_NB317
+.321739851417481 * QualAMinusQualAQualsPlus_NB317
+.093384972442053 * CDU_Excellent
+.016714490109680 * EXT_Brick
+.015535359854444 * EXT_Stucco
+.039851970072956 * LN_LINGARx_RATIO
+.009225765961490 * LN_PatioX_RATIO
+.025368468488730 * LN_PorchX_RATIO
+.004903707701760 * LN_WoodDeckX_RATIO
+.040326161213984 * LN_PoolX_RATIO
+.018999730731555 * LNFIREPLACEX
+.092190056576047 * LNFIXTOT
+.054106516862127 * HtSysSteamVapor
+.056698021175055 * HtSysHotWater
+.053148609965301 * HtSysForcedHotAir
+.075993549238267 * HtSysHotAir
+.099661272020650 * HtSysPipeless
+.238332660624974 * HtSysNoHeat
+.445496043789275 * Water_Bay
+.607441964244848 * Water_Sound
+.143866997819348 * WATER_viewGroup3
+.094528679043678 * LOC_MajorHighway
+.024790002981251 * LOC_SecondaryStreet
+.069915702741194 * LOC_LongIslandRailRoad
+.107874104567328 * LOC_CommercialOrIndustrialX
+.030000240561607 * FR_MajorStrip
+.032034544446510 * TrafficMedium
+.042257841202837 * TrafficHeavy
+.216640475240902 * SchoolDist_BAL
+.125907326453400 * NBHD_TAXDIST_732
+.298271745150057 * NBHD_TAXDIST_724
+.079668362237205 * NBHD_TAXDIST_742
+.109968782990056 * NBHD_TAXDIST_802
+.318176743615263 * NBHD17
+.265552947487816 * NBHD18
+.300152844688514 * NBHD19
+.334332238143372 * NBHD20
+.293791600273994 * NBHD21

```

Market 1 2021 Prediction Prognose.sps

```

+
+.249855761313514 * NBHD22
+
+.320089766847449 * NBHD124
+
+.151978210805285 * NBHD125
+
+.088572637171456 * NBHD126
+
+.192211591956790 * NBHD127
+
+.340495638205498 * NBHD155
+
+.403084882530945 * NBHD156
+
+.198669343093070 * NBHD157
+
+.310834764920379 * NBHD158
+
+.407938667887322 * NBHD159
+
+.242724128254167 * NBHD160
+
+.326483839819788 * NBHD161
+
+.287855503648998 * NBHD230
+
+.356946084029562 * NBHD231
+
+.174400924281396 * NBHD232
+
+.324759128330117 * NBHD233
+
+.278869010394538 * NBHD234
+
+.243109362853020 * NBHD235
+
+.061233233647007 * NBHD236
+
+.265097952853243 * NBHD237
+
+.326073951122683 * NBHD240
+
+.577556171742909 * NBHD241
+
+.227576182431667 * NBHD242
+
+.396103941944022 * NBHD243
+
+.324668521738566 * NBHD244
+
+-.096723282635393 * NBHD317
+
+-.085720219200472 * NBHD318
+
+-.092284584681880 * NBHD319
+
+-.188290292173119 * NBHD320
+
+-.099194113350117 * NBHD321
+
+-.035168266766799 * NBHD322
+
+-.121183997285563 * NBHD323
+
+.204409289570444 * SUB124_1
+
+.167120505269961 * SUB320_1
+
+-.073986760242137 * SB_07H
+
+-.063615473563039 * SB_07047
+
+-.152982079863423 * SB_07179
+
+-.174096436891956 * SB_07201
+
+-.121942223862077 * SB_07299
+
+-.052118154491342 * SB_07323
+
+-.105665884016971 * SB_09345
+
+-.087574186852239 * SB_09600
+
+-.067003719816134 * SB_09648
+
+-.136208192716575 * SB_19044
+
+0.0635 * SB_20E
+
+-.099421812996077 * SB_20F
+
+-.215903150461009 * SB_20M
+
+-.121334175049550 * SB_20P
+
+-.081765671780383 * SB_20J06
+
+-.113518836221421 * SB_21Q
+
+-.098509857075614 * SB_21035
+
+-.197794006686210 * SB_21038
+
+-.147054424618687 * SB_21144
+
+-.077378396728139 * SB_21226
+
+-.118077300449992 * SB_21248
+
+-.132099570532558 * SB_22016
+
+-.279304990532658 * SB_31B
+
+-.073998875473453 * SB_31E
+
+-.181916515443373 * SB_31F
+
+-.088528448870077 * SB_31002
+
+-.107111347762069 * SB_31024
+
+.134619835976447 * SB_31048
+
+-.072441193846890 * SB_31061

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Market 1 2021 Prediction Prognose.sps

```

+
+.079399288169681 * SB_31070
+.110861377162187 * SB_33008
+.076450043259817 * SB_33043
+.095010938083431 * SB_33072
+.132597083466305 * SB_33083
+.083094719061268 * SB_33616
+.097699627999948 * SB_34064
+.079205232400977 * SB_34071
+.180904563555436 * SB_34103
+.121999810264732 * SB_34110
+.152171060298446 * SB_34133
+.061983268360637 * SB_34160
+.126124124621675 * SB_34161
+.125580432343787 * SB_34170
+.368742139759141 * SB_34180
+.213282342234152 * SB_34527
+.101278204510393 * SB_34529
+.141983545920142 * SB_34541
+.083373231976950 * SB_36318
+.157835140630064 * SB_36459
+.186349891813630 * SB_36501
+.141852659860033 * SB_38252
+.220436705446426 * SB_38264
+.141659601560191 * SB_38274
+.127490246661410 * SB_44075
+.116121436044289 * SB_06025
+ 0.04879 * SB_06B03
+ 0.149613809455182 * SB_06B04
+ 0.26236 * SB_07B
+.124816692479062 * SB_07018
+.093761490547702 * SB_07128
+.141851875340172 * SB_07132
+.128433132617615 * SB_07165
+.093685845033796 * SB_07220
+.081344789323028 * SB_07224
+.071343719225186 * SB_07249
+.119401744967624 * SB_07278
+.109046192520956 * SB_07283
+.175001121408486 * SB_07K04
+ 0.0635 * SB_20012
+.112673760867707 * SB_21C
+.112673760867707 * SB_21S
+.104230790760658 * SB_2121101
+ 0.0953 * SB_21212
+.058955379875078 * SB_21214
+.128232577153332 * SB_23E
+.090918832955463 * SB_23037
+.117892728840055 * SB_23051
+.084671973719199 * SB_31025
+.085079452985528 * SB_31059
+.081880195711223 * SB_31067
+.180110503671164 * SB_33036
+.195771396729848 * SB_33037
+.108596276583617 * SB_33089
+.100980434028633 * SB_33092
+.085279385797237 * SB_33200
+.167389722301087 * SB_34057
+.081429560102554 * SB_34069
+ 0.215 * SB_34093
+.12 * SB_34104
+.12 * SB_34105
+.097315781367497 * SB_34108
+.097315781367497 * SB_34113

```

```

Market 1 2021 Prediction Prognose.sps
+
+.089810063671422 * SB_34117
+
+.097315781367497 * SB_34478
+
+.097315781367497 * SB_36F
+
+.088503218477872 * SB_36243
+
0.13976 * SB_36282
+
+.092442630137850 * SB_36296
+
+.092442630137850 * SB_3645701
+
+.097084966503921 * SB_38182
+
+.087553258612381 * SB_38239
+
+.097315781367497 * SB_38250
+
+.097315781367497 * SB_38330
+
.00117 * LnSFLA2)
+
1 * COST_RCNLDX.

END IF.

FORMATS ESP_ECON (COMMA10.0).
DO IF(PARCEL_TYPE EQ 'S').
COMPUTE RATIO = ESP_ECON / ADJPRICE.
COMPUTE RATIO2 = ESP_ECON / SOLDPRICE.
END IF.
EXECUTE.

INSERT FILE = !Predsintax + 'Prognose\Market 1 2021 Coefficients.sps'
SYNTAX = INTERACTIVE
ERROR = STOP.

COMPUTE DIFF = ESP2 / ESP_ECON.
DESCRIPTIVES DIFF.

COMPUTE DIFF = ESP2 / ESP3.
DESCRIPTIVES DIFF.

* SELECT IF(SQFT GT 0).

IF(PCTCOMPLETE GT 0)CompletePercent = PCTCOMPLETE / 100.
RECODE CompletePercent (SYSMIS = 1).

DO IF(ESP_ECON GT 0).
COMPUTE Allocated50ImpValue_ECON = TRUNC(ESP_ECON - TOTAL_LAND_ECON).
* IF(Allocated50Landvalue_ECON EQ 0)Allocated50ImpValue_ECON = TRUNC(ESP_ECON -
LandIssueValue_ECON).
END IF.
RECODE Allocated50ImpValue_ECON (SYSMIS = 0).

STRING CostValue (A3).
COMPUTE CostValue = 'No'.
IF(Allocated50ImpValue_ECON LE 0)CostValue = 'Yes'.

COMPUTE IMP_COST_VALUE = TRUNC((RCNLD_P + ExtraImpsCost_P + COST_RCNLDX_P) / 1000)
* 1000.
FORMATS IMP_COST_VALUE (COMMA10.0).

DO IF(SFLA_ECON GT 0).
COMPUTE PCT_IMP = RND(SFLA / SFLA_ECON * 100) / 100.
END IF.
IF(PARCEL_TYPE EQ 'S')PCT_IMP = 1.

/* FOR EconUnitID '34546 0053C' - THIS IS A TAX PARCEL SPLIT ECONOMIC UNIT.
IF(PARID EQ '34546 0053C')PCT_IMP = .97.
IF(PARID EQ '34546 0053B')PCT_IMP = .03.
IF(EconUnitID EQ '34546 0053C')CompletePercent = 1.
RECODE PCT_IMP (SYSMIS = 0).

```

```

Market 1 2021 Prediction Prognose.sps
COMPUTE ESP_IMP = TRUNC(Allocated50ImpValue_ECON * PCT_IMP * CompletePercent / 1000)
* 1000.
IF(Allocated50ImpValue_ECON LE 0)ESP_IMP = IMP_COST_VALUE * CompletePercent.
IF(SFLA_ECON EQ 0)ESP_IMP = IMP_COST_VALUE * CompletePercent.
COMPUTE ESP_TOTAL = LAND_TOTAL + ESP_IMP.
FORMATS LAND_TOTAL ESP_LAND ESP_IMP ESP_TOTAL (COMMA10.0).

* IF(SFLA_ECON EQ 0 AND IMP_COST_VALUE GT 0)CostValue = 'Yes'.

COMPUTE UseCost = 0.
COMPUTE LandOverride = 0.
COMPUTE ImpOverride = 0.
FORMATS LandOverride ImpOverride (COMMA10.0).

* Market 1.

IF(PARID EQ '23 H 0013A')UseCost = 1.
IF(PARID EQ '31 B 06580')UseCost = 1.
IF(PARID EQ '31 J 00070')UseCost = 1.
IF(PARID EQ '31 J 06100')UseCost = 1.
IF(PARID EQ '31 J 00070')LandOverride = TRUNC(100000 * Acres / 100) * 100.
IF(PARID EQ '31 J 06100')LandOverride = 10000000.
IF(PARID EQ '30035 00140')UseCost = 1.
IF(PARID EQ '30035 00210')UseCost = 1.
IF(PARID EQ '06025 01360')UseCost = 1.
IF(PARID EQ '07 F 07330')UseCost = 1.
IF(PARID EQ '07142 02370')UseCost = 1.
IF(PARID EQ '07142 02390')UseCost = 1.
IF(PARID EQ '07142 02400')UseCost = 1.
IF(PARID EQ '07201 0030A')UseCost = 1.
IF(PARID EQ '20 A 00250')UseCost = 1.
IF(PARID EQ '20 M 00470')UseCost = 1.
IF(PARID EQ '21090 02080')UseCost = 1.
IF(PARID EQ '23 F 0128A')UseCost = 1.
IF(PARID EQ '23 H 0522A')UseCost = 1.
IF(PARID EQ '23 H 0522B')UseCost = 1.
IF(PARID EQ '23 H 05230')UseCost = 1.
IF(PARID EQ '23071 00570')UseCost = 1.
IF(PARID EQ '31 B 06490')UseCost = 1.
IF(PARID EQ '31051 04770')UseCost = 1.
IF(PARID EQ '44076 00150')LandOverride = 5000000.
IF(PARID EQ '31 F 10790')LandOverride = 7500000.
IF(PARID EQ '20 A 05800')LandOverride = 4000000.
IF(PARID EQ '20 A 05790')LandOverride = 3000000.
IF(PARID EQ '23 F 17040')LandOverride = 1500000.
IF(PARID EQ '21038 01990')LandOverride = 2000000.

IF(UseCost EQ 1)CostValue = 'Yes'.

IF(LandOverride GT 0)LAND_TOTAL = TRUNC(LandOverride * PCT_LAND / 1000) * 1000.
IF(ImpOverride GT 0)ESP_IMP = TRUNC(ImpOverride * PCT_IMP * CompletePercent / 1000)
* 1000.
IF(UseCost EQ 1)ESP_IMP = IMP_COST_VALUE * CompletePercent.
COMPUTE ESP_TOTAL = LAND_TOTAL + ESP_IMP.
FORMATS LAND_TOTAL ESP_LAND ESP_IMP ESP_TOTAL (COMMA10.0).

STRING QUAL_Text (A2).
RECODE QUAL (1 = 'E-')(2 = 'E')(3 = 'E+')(4 = 'D-')(5 = 'D')(6 = 'D+')(7 = 'C-')(8 =
'C')(9 = 'C+')
      (10 = 'B-')(11 = 'B')(12 = 'B+')(13 = 'A-')(14 = 'A')(15 = 'A+')(16 = 'X-')(17
= 'X')(18 = 'X+')
      (19 = 'S-')(20 = 'S')(21 = 'S+')(22 = 'Z-')(23 = 'Z')(24 = 'Z+') INTO
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```

Market 1 2021 Prediction Prognose.sps

QUAL\_Text.

```
STRING CDU_Text (A10).
RECODE CDU (1 = 'Unsound')(2 = 'Very Poor')(3 = 'Poor')(4 = 'Fair')(5 = 'Average')
(6 = 'Good')(7 = 'Very Good')(8 = 'Excellent') INTO CDU_Text.
```

```
STRING Style_Text (A25).
RECODE Style (1 = 'Ranch')(2 = 'Raised Ranch/Hi Ranch')(3 = 'Split Level')(4 =
'Modified Ranch')(5 = 'Cape')
(6 = 'Colonial')(7 = 'Victorian')(8 = 'Contemporary')(9 = 'Old Style')(10 =
'Bungalow, Cottage')(11 = 'Duplex, Triplex')
(12 = 'Mansion, Estate')(13 = 'Townhouse')(14 = 'Condo')(16 = 'Homeowner
Assoc')(17 = 'Other')(18 = 'Splantch')
(19 = 'Carriage House')(20 = 'Tudor')(22 = '22') INTO Style_Text.
```

```
* codebook luc.
string LUC_Text (A20).
IF (ANY(LUC, "2100", "2101", "2102", "2150", "2500")) LUC_Text = 'One Family'.
IF (LUC EQ "2200") LUC_Text = 'Two Family'.
IF (LUC EQ "2300") LUC_Text = 'Three Family'.
IF (LUC EQ "2800") LUC_Text = 'Multi Residential'.
IF (LUC_NUM GE 3000 AND LUC_NUM LT 4000) LUC_Text = 'Vacant Land'.
IF (LUC EQ "4830") LUC_Text = 'Converted Residence'.
IF (LUC_NUM GE 6000) LUC_Text = 'Exempt'.
* alter type LUC_Text (amin).
```

```
* codebook extwall.
string EXTWALL_Text (A20).
IF (EXTWALL EQ 1) EXTWALL_Text = 'Frame'.
IF (EXTWALL EQ 2) EXTWALL_Text = 'Brick'.
IF (EXTWALL EQ 3) EXTWALL_Text = 'Mas/Frame'.
IF (EXTWALL EQ 4) EXTWALL_Text = 'Conc Blk'.
IF (EXTWALL EQ 5) EXTWALL_Text = 'Stucco'.
IF (EXTWALL EQ 6) EXTWALL_Text = 'Alum/Vinyl'.
IF (EXTWALL EQ 7) EXTWALL_Text = 'Stone'.
IF (EXTWALL EQ 8) EXTWALL_Text = 'Composition'.
IF (EXTWALL EQ 9) EXTWALL_Text = 'Masonry'.
IF (EXTWALL EQ 10) EXTWALL_Text = 'Log'.
IF (EXTWALL EQ 11) EXTWALL_Text = 'Cement Fiber'.
* alter type EXTWALL_Text (amin).
```

```
* codebook bsmt.
string Basement_Text (a20).
IF (BSMT EQ 0) Basement_Text = 'None'.
IF (BSMT EQ 1) Basement_Text = '1/4 Bsmt/Slab'.
IF (BSMT EQ 2) Basement_Text = '1/2 Bsmt/Crawl'.
IF (BSMT EQ 3) Basement_Text = '3/4 Bsmt'.
IF (BSMT EQ 4) Basement_Text = 'Full'.
* alter type Basement_Text (amin).
```

```
* codebook heat.
string Heat_Text (a10).
IF (HEAT EQ 0) Heat_Text = 'N/A'.
IF (HEAT EQ 1) Heat_Text = 'None'.
IF (HEAT EQ 2) Heat_Text = 'Non-Cntrl'.
IF (HEAT EQ 3) Heat_Text = 'Cntrl Ht'.
IF (HEAT EQ 4) Heat_Text = 'Cntrl HtAC'.
* alter type Heat_Text (amin).
```

```
* codebook fuel.
string Fuel_Text (a15).
IF (FUEL EQ 0) Fuel_Text = 'N/A'.
IF (FUEL EQ 1) Fuel_Text = 'Oil'.
```

```

Market 1 2021 Prediction Prognose.sps
IF (FUEL EQ 2) Fuel_Text = 'Coal Stk'.
IF (FUEL EQ 3) Fuel_Text = 'Gas'.
IF (FUEL EQ 4) Fuel_Text = 'Coal Hnd'.
IF (FUEL EQ 5) Fuel_Text = 'Solar'.
IF (FUEL EQ 6) Fuel_Text = 'Elec'.
IF (FUEL EQ 7) Fuel_Text = 'Other'.
IF (FUEL EQ 8) Fuel_Text = 'Geothermal'.
* alter type Fuel_Text (amin).

* codebook heatsys.
string Heatsys_Text (a15).
IF (HEATSYS EQ 0) Heatsys_Text = 'N/A'.
IF (HEATSYS EQ 1) Heatsys_Text = 'Steam/Vapor'.
IF (HEATSYS EQ 2) Heatsys_Text = 'Hot Wtr'.
IF (HEATSYS EQ 3) Heatsys_Text = 'Elec/Solar'.
IF (HEATSYS EQ 4) Heatsys_Text = 'Forced Air'.
IF (HEATSYS EQ 5) Heatsys_Text = 'Central AC'.
IF (HEATSYS EQ 6) Heatsys_Text = 'N/A'.
IF (HEATSYS EQ 7) Heatsys_Text = 'Hot Air'.
IF (HEATSYS EQ 8) Heatsys_Text = 'Pipeless'.
IF (HEATSYS EQ 9) Heatsys_Text = 'None'.
* alter type Heatsys_Text (amin).
* EXECUTE.

FORMATS AttBltGar DETGARX CARPORTx (COMMA10.0).

STRING Parking_Text (A100).
IF (AttBltGar GT 0)Parking_Text =
CONCAT('Att-',LTRIM(RTRIM(STRING(AttBltGar,F10))))..
IF (DETGARx GT 0)Parking_Text =
CONCAT(LTRIM(RTRIM(Parking_Text)), '/', 'Det-',LTRIM(RTRIM(STRING(DETGARx,F10))))..
IF (CARPORTx GT 0)Parking_Text =
CONCAT(LTRIM(RTRIM(Parking_Text)), '/', 'Cpt-',LTRIM(RTRIM(STRING(CARPORTx,F10))))..
IF (CHAR.SUBSTR(Parking_Text,1,1) EQ '/')Parking_Text = CHAR.SUBSTR(Parking_Text,2).
ALTER TYPE Parking_Text (AMIN).

STRING YRBLT_Text (A12).
COMPUTE YRBLT_Text =
CONCAT(STRING(YRBLT,F4.0), ' - ', LTRIM(STRING((PCT_GOOD_ADJ*100),F6.2)))..
EXECUTE.

STRING BATH_Text (A15).
COMPUTE BATH_Text =
CONCAT(LTRIM(RTRIM(STRING(FIXBATH,F4.0))), ' - ', LTRIM(RTRIM(STRING(FIXHALF,F4.0))), ' - ',
LTRIM(RTRIM(STRING(FIXTOT,F4.0))))..
EXECUTE.

SAVE OUTFILE !ModelData1 + 'PREDICTION.SAV'.

COMMENT BOOKMARK;LINE_NUM=674;ID=4.
COMMENT BOOKMARK;LINE_NUM=801;ID=3.
COMMENT BOOKMARK;LINE_NUM=1005;ID=6.

```

Market 2 2021 Prediction Prognose.sps

```
* Encoding: UTF-8.

GET FILE= !ModelData2 + 'MARKET 2 RESIDENTIAL MASTER POPULATION WITH SALES FOR
PROGNOSIS.sav'.
DATASET NAME DataSet1.

* GIS DATA CLEANUP.

SORT CASES BY PARID.

* RENAME VARIABLES (OUT = OUT2).

* INSERT FILE = !Modelsyntax2 + 'Market 2 outliers.sps'
SYNTAX = INTERACTIVE
ERROR = STOP.

* IF(OUT EQ 1 AND SALEVAL NE 'J')ValidityCode = 'Invalid'.
* IF(OUT EQ 2)ValidityCode = 'Invalid'.
* IF(OUT EQ 3)ValidityCode = 'Invalid'.

COMPUTE KEEP = 1.
IF(ValidityCode EQ 'Invalid' AND PARCEL_TYPE EQ 'S')KEEP = 0.
EXECUTE.
* CROSSTABS KEEP BY PARCEL_TYPE.
* CROSSTABS KEEP BY OUT.

* SELECT IF(KEEP EQ 1).
* EXECUTE.
* DELETE VARIABLES KEEP.
* EXECUTE.

DO IF(PARCEL_TYPE EQ 'P' AND SFLA_ECON GT 0).
COMPUTE VPPSF = TOTAPR1_Econ / SFLA_ECON.
END IF.
DO IF(PARCEL_TYPE EQ 'S' AND SFLA_ECON GT 0).
COMPUTE SPPSF = SOLDPRICE / SFLA_ECON.
END IF.

*****.
*.
*****.
*.
*****.
*.

STRING NBHDGroup (A50).
COMPUTE NBHDGroup = NBHD_LAbel.
DO IF(NBHD GT 0 AND CHAR.INDEX(NBHD_LAbel,"-") GT 0).
COMPUTE NBHDGroup = LTRIM(RTRIM(SUBSTR(NBHD_LAbel,1,(CHAR.INDEX(NBHD_LAbel,"-") - 1))).
END IF.
DO IF(INDEX(NBHD_LAbel,"(") GT 0 AND NBHD GT 0).
COMPUTE NBHDGroup = LTRIM(RTRIM(SUBSTR(NBHD_LAbel,1,(CHAR.INDEX(NBHD_LAbel,"(") - 1))).
END IF.
RECODE NBHDGroup ('Franklin Sqaure' = 'Franklin Square').
FREQUENCIES NBHDGroup.

*Run this this the first time and then comment it out and use the second one.
* AUTORECODE VARIABLES=NBDGroup
/INTO NBHDGroupNum
```

Market 2 2021 Prediction Prognose.sps

```

/SAVE TEMPLATE= !ResSINTAX2 + 'NBHD Desc Template.sat'
/PRINT.

* AUTORECODE VARIABLES=NBDGroup
/INTO NBHDGroupNum
/APPLY TEMPLATE= !Modelsyntax2 + 'NBHD Desc Template.sat'
/PRINT.

RECODE NBHDGroup ('Albertson' = 1)('Bethpage' = 2)('Carle Place' = 3)('East Meadow' = 4)('Elmont' = 5)('Farmingdale' = 6)('Floral Park' = 7)('Franklin Square' = 8)('Herricks' = 9)
                  ('Hicksville' = 10)('Island Trees' = 11)('Jericho' = 12)('Levittown' = 13)('Mineola' = 14)('New Hyde Park' = 15)('Plainedge' = 16)('Plainview' = 17)('Syosset' = 18)
                  ('Village of Farmingdale' = 19)('Village of Westbury' = 20)('West Hempstead' = 21)('Westbury' = 22)('Williston Park' = 23) INTO NBHDGroupNum.

VALUE LABELS NBHDGroupNum
 1  'Albertson'
 2  'Bethpage'
 3  'Carle Place'
 4  'East Meadow'
 5  'Elmont'
 6  'Farmingdale'
 7  'Floral Park'
 8  'Franklin Square'
 9  'Herricks'
 10 'Hicksville'
 11 'Island Trees'
 12 'Jericho'
 13 'Levittown'
 14 'Mineola'
 15 'New Hyde Park'
 16 'Plainedge'
 17 'Plainview'
 18 'Syosset'
 19 'Village of Farmingdale'
 20 'Village of Westbury'
 21 'West Hempstead'
 22 'Westbury'
 23 'Williston Park'.

RECODE QUAL (1 2 3 = 1)(4 5 6 = 2)(7 8 9 = 3)(10 11 12 = 4)(13 14 15 = 5)(16 17 18 = 6)(19 20 21 = 7)(22 23 24 = 8) INTO Qual_Grp.
VALUE LABELS Qual_Grp 1 'E' 2 'D' 3 'C' 4 'B' 5 'A' 6 'X' 7 'S' 8 'Z'.

* CROSSTABS SMONTH BY SYEAR.
*****.
*.

COMPUTE TGROUP = NBHDGroupNum.
RECODE TGROUP (1, 2, 6, 7, 9, 18, 19, 21, 23 = 1) (4, 5, 8, 10, 12, 14, 15 = 2) (3,
11, 13, 17, 22 = 3) (16, 20 = 4).
* set tnumbers = labels.
* FREQUENCIES TGROUP.
IF(TGROUP EQ 1 AND Qual_Grp GE 4)TGROUP = 14.
* set tnumbers = both.

* STRING TGROUPLABEL (A400).
* RECODE NBHDGROUPNUM (1, 2, 6, 7, 9, 18, 19, 21, 23 = 'Albertson, Bethpage,
Farmingdale, Floral Park, Herricks, Syosset, Village of Farmingdale, West Hempstead,
Williston Park')
(4, 5, 8, 10, 12, 14, 15 = 'East Meadow, Elmont, Franklin Square, Hicksville,
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```

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Jericho, Mineola, New Hyde Park')  
 (3, 11, 13, 17, 22 = 'Carle Place, Island Trees, Levittown, Plainview, Westbury')  
 (16, 20 = 'Plainedge, Village of Westbury')  
 into tgrouplabel.

```

* alter type tgrouplabel (a = amin).
* frequencies tgrouplabel.
*****.
*.

DO IF(SYEAR GT 0).
  COMPUTE SDATE = DATE.MOYR(SMONTH,SYEAR).
  END IF.
  FORMATS SDATE (MOYR6).

*ENTER YOUR STARTING DATE, BASE VALUATION DATE - FORMAT IS MONTH THEN YEAR.
  COMPUTE STARTDATE = DATE.MOYR(1,2011).
  COMPUTE BASEDATE = DATE.MOYR(12, 2018).
  COMPUTE TIMEPERIOD = DATEDIFF(BASEDATE,STARTDATE,"MONTHS") .
  COMPUTE MONTHS = DATEDIFF(SDATE,STARTDATE,"MONTHS") .
  COMPUTE MONTH = TIMEPERIOD - MONTHS.
  EXECUTE .

*CREATE QUARTER AND SEMI ANNUAL VARIABLES.
* RECODE SYEAR (2011 = 0)(2012 = 1)(2013 = 2)(2014 = 3)(2015 = 4)(2016 = 5) (2017 =
6) INTO ANNUAL.
* RECODE SMONTH (LO THRU 3 = 1)(LO THRU 6 = 2)(LOW THRU 9 = 3)(LOW THRU HI = 4)
INTO QUARTERLY.

* COMPUTE QUARTER = (ANNUAL * 4) + QUARTERLY.

* RECODE SMONTH (LO THRU 6 = 1)(LO THRU HI = 2) INTO SEMIYEARLY.

* COMPUTE SEMI_ANNUAL = (ANNUAL * 2) + SEMIYEARLY.
*****.
*.

COMPUTE SPLINEDATE1 = DATE.MOYR(12, 2018).
COMPUTE SPLINEDATE2 = DATE.MOYR(12, 2018).
COMPUTE SPLINEDATE3 = DATE.MOYR(12, 2018).
COMPUTE SPLINEDATE4 = DATE.MOYR(12, 2018).
COMPUTE SPLINEDATE5 = DATE.MOYR(12, 2018).
COMPUTE SPLINEDATE6 = DATE.MOYR(12, 2018).

IF (TGROUP EQ 1) SPLINEDATE1 = DATE.MOYR(7, 2012).
IF (TGROUP EQ 1) SPLINEDATE2 = DATE.MOYR(8, 2013).
IF (TGROUP EQ 1) SPLINEDATE3 = DATE.MOYR(9, 2014).
IF (TGROUP EQ 1) SPLINEDATE4 = DATE.MOYR(11, 2015).
IF (TGROUP EQ 1) SPLINEDATE5 = DATE.MOYR(12, 2016).
IF (TGROUP EQ 1) SPLINEDATE6 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 2) SPLINEDATE1 = DATE.MOYR(8, 2012).
IF (TGROUP EQ 2) SPLINEDATE2 = DATE.MOYR(9, 2013).
IF (TGROUP EQ 2) SPLINEDATE3 = DATE.MOYR(7, 2014).
IF (TGROUP EQ 2) SPLINEDATE4 = DATE.MOYR(12, 2015).
IF (TGROUP EQ 2) SPLINEDATE5 = DATE.MOYR(12, 2016).
IF (TGROUP EQ 2) SPLINEDATE6 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 3) SPLINEDATE1 = DATE.MOYR(4, 2012).
IF (TGROUP EQ 3) SPLINEDATE2 = DATE.MOYR(8, 2013).
IF (TGROUP EQ 3) SPLINEDATE3 = DATE.MOYR(11, 2014).
IF (TGROUP EQ 3) SPLINEDATE4 = DATE.MOYR(12, 2015).
IF (TGROUP EQ 3) SPLINEDATE5 = DATE.MOYR(2, 2017).

```

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```
IF (TGROUP EQ 3) SPLINEDATE6 = DATE.MOYR(7, 2018).  
IF (TGROUP EQ 4) SPLINEDATE1 = DATE.MOYR(12, 2012).  
IF (TGROUP EQ 4) SPLINEDATE2 = DATE.MOYR(11, 2013).  
IF (TGROUP EQ 4) SPLINEDATE3 = DATE.MOYR(7, 2014).  
IF (TGROUP EQ 4) SPLINEDATE4 = DATE.MOYR(7, 2015).  
IF (TGROUP EQ 4) SPLINEDATE5 = DATE.MOYR(12, 2016).  
IF (TGROUP EQ 4) SPLINEDATE6 = DATE.MOYR(7, 2018).  
  
IF (TGROUP EQ 14) SPLINEDATE1 = DATE.MOYR(7, 2012).  
IF (TGROUP EQ 14) SPLINEDATE2 = DATE.MOYR(8, 2013).  
IF (TGROUP EQ 14) SPLINEDATE3 = DATE.MOYR(9, 2014).  
IF (TGROUP EQ 14) SPLINEDATE4 = DATE.MOYR(11, 2015).  
IF (TGROUP EQ 14) SPLINEDATE5 = DATE.MOYR(12, 2016).  
IF (TGROUP EQ 14) SPLINEDATE6 = DATE.MOYR(7, 2018).
```

```
FORMATS STARTDATE BASEDATE SPLINEDATE1 SPLINEDATE2 SPLINEDATE3 SPLINEDATE4  
SPLINEDATE5 SPLINEDATE6 (DATE9).
```

```
COMPUTE SPLINE_DIFF1 = DATEDIFF(SPLINEDATE1,STARTDATE,"MONTHS") .  
COMPUTE SPLINE_DIFF2 = DATEDIFF(SPLINEDATE2,STARTDATE,"MONTHS") .  
COMPUTE SPLINE_DIFF3 = DATEDIFF(SPLINEDATE3,STARTDATE,"MONTHS") .  
COMPUTE SPLINE_DIFF4 = DATEDIFF(SPLINEDATE4,STARTDATE,"MONTHS") .  
COMPUTE SPLINE_DIFF5 = DATEDIFF(SPLINEDATE5,STARTDATE,"MONTHS") .  
COMPUTE SPLINE_DIFF6 = DATEDIFF(SPLINEDATE6,STARTDATE,"MONTHS") .
```

```
COMPUTE MONTHS1 = MONTHS.  
IF (MONTHS GT SPLINE_DIFF1)MONTHS1 = SPLINE_DIFF1.  
COMPUTE MONTHS2 = MONTHS - SPLINE_DIFF1.  
RECODE MONTHS2 (LO THRU 0 = 0).  
IF(MONTHS GT SPLINE_DIFF2)MONTHS2 = SPLINE_DIFF2 - SPLINE_DIFF1.  
COMPUTE MONTHS3 = MONTHS - SPLINE_DIFF2 .  
RECODE MONTHS3 (LO THRU 0 = 0).  
IF(MONTHS GT SPLINE_DIFF3)MONTHS3 = SPLINE_DIFF3 - SPLINE_DIFF2.  
COMPUTE MONTHS4 = MONTHS - SPLINE_DIFF3.  
RECODE MONTHS4 (LO THRU 0 = 0).  
IF(MONTHS GT SPLINE_DIFF4)MONTHS4 = SPLINE_DIFF4 - SPLINE_DIFF3.  
COMPUTE MONTHS5 = MONTHS - SPLINE_DIFF4.  
RECODE MONTHS5 (LO THRU 0 = 0).  
IF(MONTHS GT SPLINE_DIFF5)MONTHS5 = SPLINE_DIFF5 - SPLINE_DIFF4.  
COMPUTE MONTHS6 = MONTHS - SPLINE_DIFF5.  
RECODE MONTHS6 (LO THRU 0 = 0).  
IF(MONTHS GT SPLINE_DIFF6)MONTHS6 = SPLINE_DIFF6 - SPLINE_DIFF5.  
COMPUTE MONTHS7 = MONTHS - SPLINE_DIFF6.  
RECODE MONTHS7 (LO THRU 0 = 0).
```

```
* IF (TGROUP EQ 1) MONTHS1_1 = MONTHS1.  
* IF (TGROUP EQ 1) MONTHS2_1 = MONTHS2.  
* IF (TGROUP EQ 1) MONTHS3_1 = MONTHS3.  
* IF (TGROUP EQ 1) MONTHS4_1 = MONTHS4.  
* IF (TGROUP EQ 1) MONTHS5_1 = MONTHS5.  
* IF (TGROUP EQ 1) MONTHS6_1 = MONTHS6.  
  
* IF (TGROUP EQ 2) MONTHS1_2 = MONTHS1.  
* IF (TGROUP EQ 2) MONTHS2_2 = MONTHS2.  
* IF (TGROUP EQ 2) MONTHS3_2 = MONTHS3.  
* IF (TGROUP EQ 2) MONTHS4_2 = MONTHS4.  
* IF (TGROUP EQ 2) MONTHS5_2 = MONTHS5.  
* IF (TGROUP EQ 2) MONTHS6_2 = MONTHS6.  
  
* IF (TGROUP EQ 3) MONTHS1_3 = MONTHS1.  
* IF (TGROUP EQ 3) MONTHS2_3 = MONTHS2.  
* IF (TGROUP EQ 3) MONTHS3_3 = MONTHS3.
```

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```

* IF (TGROUP EQ 3) MONTHS4_3 = MONTHS4.
* IF (TGROUP EQ 3) MONTHS5_3 = MONTHS5.
* IF (TGROUP EQ 3) MONTHS6_3 = MONTHS6.

* IF (TGROUP EQ 4) MONTHS1_4 = MONTHS1.
* IF (TGROUP EQ 4) MONTHS2_4 = MONTHS2.
* IF (TGROUP EQ 4) MONTHS3_4 = MONTHS3.
* IF (TGROUP EQ 4) MONTHS4_4 = MONTHS4.
* IF (TGROUP EQ 4) MONTHS5_4 = MONTHS5.
* IF (TGROUP EQ 4) MONTHS6_4 = MONTHS6.

* IF (TGROUP EQ 14) MONTHS1_14 = MONTHS1.
* IF (TGROUP EQ 14) MONTHS2_14 = MONTHS2.
* IF (TGROUP EQ 14) MONTHS3_14 = MONTHS3.
* IF (TGROUP EQ 14) MONTHS4_14 = MONTHS4.
* IF (TGROUP EQ 14) MONTHS5_14 = MONTHS5.
* IF (TGROUP EQ 14) MONTHS6_14 = MONTHS6.

* RECODE MONTHS1_1 TO MONTHS6_14 (SYSMIS = 0).

COMPUTE SPLINE = 1.
IF(MONTHS2 GT 0)SPLINE = 2.
IF(MONTHS3 GT 0)SPLINE = 3.
IF(MONTHS4 GT 0)SPLINE = 4.
IF(MONTHS5 GT 0)SPLINE = 5.
IF(MONTHS6 GT 0)SPLINE = 6.
IF(MONTHS7 GT 0)SPLINE = 7.
* FREQUENCIES SPLINE.

COMPUTE MONTH1 = SPLINE_DIFF1 - MONTHS1.
COMPUTE MONTH2 = (SPLINE_DIFF2 - SPLINE_DIFF1) - MONTHS2.
COMPUTE MONTH3 = (SPLINE_DIFF3 - SPLINE_DIFF2) - MONTHS3.
COMPUTE MONTH4 = (SPLINE_DIFF4 - SPLINE_DIFF3) - MONTHS4.
COMPUTE MONTH5 = (SPLINE_DIFF5 - SPLINE_DIFF4) - MONTHS5.
COMPUTE MONTH6 = (SPLINE_DIFF6 - SPLINE_DIFF5) - MONTHS6.
COMPUTE MONTH7 = (TIMEPERIOD - SPLINE_DIFF6) - MONTHS7.

COMPUTE RATE1 = 1.
COMPUTE RATE2 = 1.
COMPUTE RATE3 = 1.
COMPUTE RATE4 = 1.
COMPUTE RATE5 = 1.
COMPUTE RATE6 = 1.
COMPUTE RATE7 = 1.

* IF(TGROUP EQ 1 )RATE1 = .99627**MONTH1 .
* IF(TGROUP EQ 1 )RATE2 = 1.00305**MONTH2 .
* IF(TGROUP EQ 1 )RATE3 = 1.00513**MONTH3 .
* IF(TGROUP EQ 1 )RATE4 = 1.00087**MONTH4 .
* IF(TGROUP EQ 1 )RATE5 = 1.00479**MONTH5 .
* IF(TGROUP EQ 1 )RATE6 = 1.00554**MONTH6 .

IF(TGROUP EQ 1 )RATE1 = .99693**MONTH1 .
IF(TGROUP EQ 1 )RATE2 = 1.00352**MONTH2 .
IF(TGROUP EQ 1 )RATE3 = 1.00513**MONTH3 .
IF(TGROUP EQ 1 )RATE4 = 1.00090**MONTH4 .
IF(TGROUP EQ 1 )RATE5 = 1.00498**MONTH5 .
IF(TGROUP EQ 1 )RATE6 = 1.00574**MONTH6 .
IF(TGROUP EQ 1 )RATE7 = 1.00000**MONTH7 .

IF(TGROUP EQ 14 )RATE1 = .99728**MONTH1 .
IF(TGROUP EQ 14 )RATE2 = 1.00296**MONTH2 .
IF(TGROUP EQ 14 )RATE3 = 1.00443**MONTH3 .

```

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```
IF(TGROUP EQ 14 )RATE4 = 1.00194**MONTH4 .
IF(TGROUP EQ 14 )RATE5 = 1.00273**MONTH5 .
IF(TGROUP EQ 14 )RATE6 = 1.00458**MONTH6 .

* IF(TGROUP EQ 2 )RATE1 = 1.00000**MONTH1 .
* IF(TGROUP EQ 2 )RATE2 = 1.00458**MONTH2 .
* IF(TGROUP EQ 2 )RATE3 = 1.00252**MONTH3 .
* IF(TGROUP EQ 2 )RATE4 = 1.00433**MONTH4 .
* IF(TGROUP EQ 2 )RATE5 = 1.00471**MONTH5 .
* IF(TGROUP EQ 2 )RATE6 = 1.00606**MONTH6 .

IF(TGROUP EQ 2 )RATE1 = 1.00000**MONTH1 .
IF(TGROUP EQ 2 )RATE2 = 1.00539**MONTH2 .
IF(TGROUP EQ 2 )RATE3 = 1.00248**MONTH3 .
IF(TGROUP EQ 2 )RATE4 = 1.00411**MONTH4 .
IF(TGROUP EQ 2 )RATE5 = 1.00468**MONTH5 .
IF(TGROUP EQ 2 )RATE6 = 1.00630**MONTH6 .

* IF(TGROUP EQ 3 )RATE1 = 1.00861**MONTH1 .
* IF(TGROUP EQ 3 )RATE2 = 1.00244**MONTH2 .
* IF(TGROUP EQ 3 )RATE3 = 1.00274**MONTH3 .
* IF(TGROUP EQ 3 )RATE4 = 1.00384**MONTH4 .
* IF(TGROUP EQ 3 )RATE5 = 1.00464**MONTH5 .
* IF(TGROUP EQ 3 )RATE6 = 1.00466**MONTH6 .

IF(TGROUP EQ 3 )RATE1 = 1.00186**MONTH1 .
IF(TGROUP EQ 3 )RATE2 = 1.00327**MONTH2 .
IF(TGROUP EQ 3 )RATE3 = 1.00282**MONTH3 .
IF(TGROUP EQ 3 )RATE4 = 1.00310**MONTH4 .
IF(TGROUP EQ 3 )RATE5 = 1.00491**MONTH5 .
IF(TGROUP EQ 3 )RATE6 = 1.00495**MONTH6 .

* IF(TGROUP EQ 4 )RATE1 = 1.00202**MONTH1 .
* IF(TGROUP EQ 4 )RATE2 = 1.00000**MONTH2 .
* IF(TGROUP EQ 4 )RATE3 = 1.00524**MONTH3 .
* IF(TGROUP EQ 4 )RATE4 = 1.00245**MONTH4 .
* IF(TGROUP EQ 4 )RATE5 = 1.00435**MONTH5 .
* IF(TGROUP EQ 4 )RATE6 = 1.00679**MONTH6 .
```

```
IF(TGROUP EQ 4 )RATE1 = 1.00224**MONTH1 .
IF(TGROUP EQ 4 )RATE2 = 1.00000**MONTH2 .
IF(TGROUP EQ 4 )RATE3 = 1.00657**MONTH3 .
IF(TGROUP EQ 4 )RATE4 = 1.00183**MONTH4 .
IF(TGROUP EQ 4 )RATE5 = 1.00486**MONTH5 .
IF(TGROUP EQ 4 )RATE6 = 1.00640**MONTH6 .
```

COMPUTE ADJRATE = RATE1 \* RATE2 \* RATE3 \* RATE4 \* RATE5 \* RATE6 \* RATE7.

SORT CASES BY TGROUP (A).

SPLIT FILE BY TGROUP.

GRAPH /SCATTERPLOT SDATE WITH ADJRATE BY SPLINE  
/TEMPLATE = !TEMPLATE + 'Time Rates.sgt'.

SPLIT FILE OFF.

COMPUTE TASP = SOLDPRICE \* ADJRATE.  
FORMATS TASP (COMMA10.0).

\* DESCRIPTIVES ADJ\_SALE\_PRICE TASP.

\*\*\*\*\*

\*LANDSQFT.

COMPUTE LandIssuePCTx = 1.  
IF(LandIssuePCT LT 0)LandIssuePCTx = 1 + (LandIssuePCT / 100).

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```
COMPUTE LandIssuePCT_ECONX = 1.  
IF(LandIssuePCT_ECON LT 0)LandIssuePCT_ECONX = 1 + (LandIssuePCT_ECON / 100).
```

```
COMPUTE SUMLANDX = SUMLAND - LandIssueSF_Sum.  
IF(EconType EQ '')SUMLANDX = SUMLAND - LandIssueSF.
```

```
COMPUTE LANDSQFTX = LANDSQFT - LandIssueSF.
```

```
FORMATS SUMLANDX LANDSQFTX (COMMMA10.0).  
DESCRIPTIVES SUMLANDX LANDSQFTX.
```

```
DO IF(SUMLANDX GT 0).  
COMPUTE LN_LANDSQFT = LN(SUMLANDX).  
END IF.  
RECODE LN_LANDSQFT (SYSMIS = 0).  
EXECUTE.
```

```
* DO IF(LANDSQFT GT 0).  
* COMPUTE LANDSIZERATIO = (SUMLAND / 21780).  
* END IF.  
* RECODE LANDSIZERATIO (SYSMIS = 1).  
* COMPUTE LN_LANDSIZERATIO = LN(LANDSIZERATIO).  
* COMPUTE LN_LANDSIZERATIO1 = 0.  
* IF(LANDSIZERATIO LT 1)LN_LANDSIZERATIO1 = LN_LANDSIZERATIO.  
* COMPUTE LN_LANDSIZERATIO2 = 0.  
* IF(LANDSIZERATIO GT 1)LN_LANDSIZERATIO2 = LN_LANDSIZERATIO.  
* EXECUTE.  
  
* TEMPORARY.  
* SELECT IF(LANDSQFT GT 0).  
* GRAPH /SCATTERPLOT(BIVAR)= LANDSQFT WITH SPPSF .  
  
* TEMPORARY.  
* SELECT IF(LANDSQFT GT 300000).  
* LIST RECEPTIONNO ACCOUNTNO LANDSQFT.
```

```
*****  
**LIVING AREA.
```

```
COMPUTE BASEADJ = STORIES.  
RECODE BASEADJ (1.7 = 1.75)(2.7 = 2.75)(3.7 = 3.75).  
* FREQUENCIES BASEADJ.
```

```
*****  
* this code when used will match SFLA.  
* COMPUTE AtticSF = 0.  
* IF(ATTIC EQ 3)AtticSF = FLR1AREA * .20.  
* IF(ATTIC EQ 4)AtticSF = FLR1AREA * .40.  
  
* COMPUTE SQFT = RND((FLR1AREA * BASEADJ) + RND(AtticSF) + FINBSMTAREA + FirstSF +  
HalfStory + Story34  
+ AtticFinished + AtticPartFinished +  
FinBsmt + Solarium).  
*****
```

```
COMPUTE AtticSF = AtticFinished + AtticPartFinished.  
IF(ATTIC EQ 3)AtticSF = RND(AtticSF + FLR1AREA * .20).  
IF(ATTIC EQ 4)AtticSF = RND(AtticSF + FLR1AREA * .40).
```

```
COMPUTE SQFT = RND((FLR1AREA * BASEADJ) + RND(AtticSF) + FirstSF + HalfStory +  
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```

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Story34 + Solarium).  
FORMATS SQFT (COMMA10.0).

COMPUTE UPERSF = RND((FLR1AREA \* BASEADJ) - FLR1AREA + HalfStory + Story34).  
COMPUTE FINBSMTX = FINBSMTAREA + FinBsmt.  
COMPUTE UNFBSMTX = UNFINAREA + UnfBsmt.  
COMPUTE RECBSMTX = RECROMAREA + RecRoom.  
RECODE FINBSMTX UNFBSMTX RECBSMTX (LO THRU 10 = 0).

FORMATS AtticSF SQFT FINBSMTX UNFBSMTX RECBSMTX (COMMA10.0).

COMPUTE SQFTX = SQFT.  
FORMATS SQFTX (COMMA10.0).  
\* IF(SFLA2 GT 0)SQFTX = SQFT + ( SFLA2 \* .5).  
DO IF(SFLA\_ECON GT 0).  
COMPUTE LnSQFTX= LN(SQFTX).  
END IF.  
RECODE LnSQFTX (SYSMIS = 0).  
EXECUTE.

DO IF(SQFTX GT 0).  
COMPUTE SQFTXRATIO = (SQFTX / 2500).  
END IF.  
RECODE SQFTXRATIO (SYSMIS = 1).  
COMPUTE LN\_SQFTXRATIO = LN(SQFTXRATIO).  
COMPUTE LN\_SQFTXRATIO1 = 0.  
IF(SQFTXRATIO LT 1)LN\_SQFTXRATIO1 = LN\_SQFTXRATIO.  
COMPUTE LN\_SQFTXRATIO2 = 0.  
IF(SQFTXRATIO GT 1)LN\_SQFTXRATIO2 = LN\_SQFTXRATIO.  
EXECUTE.

COMPUTE SFLA\_EXTRA = SFLA2 + SFLA3.

DO IF(SFLA\_EXTRA GT 0).  
COMPUTE LnSFLA\_EXTRA= LN(SFLA\_EXTRA).  
END IF.  
RECODE LnSFLA\_EXTRA (SYSMIS = 0).  
EXECUTE.

\* COMPUTE SFLA\_EXTRA\_RATIO = 1 + (SFLA\_EXTRA / 1000).  
\* COMPUTE LN\_SFLA\_EXTRA\_RATIO = LN(SFLA\_EXTRA\_RATIO).

COMPUTE UPERSF\_RATIO = 1 + (UPERSF / 1000).  
COMPUTE LN\_UPERSF\_RATIO = LN(UPERSF\_RATIO).

COMPUTE AtticSF\_RATIO = 1 + (AtticSF / 1000).  
COMPUTE LN\_AtticSF\_RATIO = LN(AtticSF\_RATIO).

\*\*\*\*\*.  
\*BSMT.

\* IF(UNFBSMTX GT 0)LNUNFBSMTX = LN(UNFBSMTX).  
\* IF(FINBSMTX GT 0)LNFINBSMTX = LN(FINBSMTX).  
\* IF(RECBSMTX GT 0)LNRECBSMTX = LN(RECBSMTX).  
\* RECODE LNUNFBSMTX LNFINBSMTX LNRECBSMTX (SYSMIS = 0).

\* COMPUTE UNFBSMTX\_RATIO = 1 + (UNFBSMTX / 1000).  
\* COMPUTE LN\_UNFBSMTX\_RATIO = LN(UNFBSMTX\_RATIO).

\* COMPUTE FINBSMTX\_RATIO = 1 + (FINBSMTX / 1000).  
\* COMPUTE LN\_FINBSMTX\_RATIO = LN(FINBSMTX\_RATIO).

COMPUTE LIN\_BSMTX = RND(FINBSMTX + (UNFBSMTX \* .5)).

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COMPUTE LIN\_BSMTX\_Ratio = 1 + (LIN\_BSMTX / 1000).  
COMPUTE LN\_LIN\_BSMTX\_Ratio = LN(LIN\_BSMTX\_Ratio).

COMPUTE RECBSMTX\_RATIO = 1 + (RECBSMTX / 1000).  
COMPUTE LN\_RECBSMTX\_RATIO = LN(RECBSMTX\_RATIO).

\*\*\*\*\*  
\*\*\*\*\*EFFECTIVE AGE\*\*\*\*\*.

\* COMPUTE EFFYRBLT = YRBLT.  
\* IF(YRREMOD GT 1900)EFFYRBLT = YRREMOD.  
\* DO IF(PARCEL\_TYPE EQ 'S').  
\* COMPUTE EFFAGE = SYEAR - EFFYRBLT.  
\* END IF.  
\* DO IF(PARCEL\_TYPE EQ 'P').  
\* COMPUTE EFFAGE = 2018 - EFFYRBLT.  
\* END IF.

DO IF(DEPR GT 0).  
COMPUTE PCT\_GOOD= DEPR/100.  
END IF.  
\* DESCRIPTIVES PCT\_GOOD.  
\* EXAMINE PCT\_GOOD /PLOT = STEMLEAF /PERCENTILES /STATISTICS = NONE /NOTOTAL.  
VARIABLE LABELS PCT\_GOOD 'PERCENTAGE OF VALUE LEFT IN UNIT'.

COMPUTE LN\_PCT\_GOOD = LN(PCT\_GOOD).  
RECODE LN\_PCT\_GOOD (SYSMIS = 0).  
EXECUTE.

\*\*\*\*\*  
\*GARAGE.

COMPUTE ATTGARx = Garage.  
COMPUTE BLTINGARx = BsmtGarage.  
COMPUTE DETGARx = GarageDetached\_SF.  
COMPUTE CARPORTx = CARPORT + Carport\_SF.  
RECODE ATTGARx BLTINGARx DETGARx CARPORTx (LO THRU 10 = 0).

COMPUTE AttBltGar = ATTGARx + BLTINGARx.  
COMPUTE AttBltGar\_RATIO = 1+ (AttBltGar / 480).  
COMPUTE LN\_AttBltGar\_RATIO = LN(AttBltGar\_RATIO).

\* COMPUTE DETGARx\_RATIO = 1 + (DETGARx / 480).  
\* COMPUTE LN\_DETGARx\_RATIO = LN(DETGARx\_RATIO).  
  
\* COMPUTE CARPORTx\_RATIO = 1 + (CARPORTx / 480).  
\* COMPUTE LN\_CARPORTx\_RATIO = LN(CARPORTx\_RATIO).  
EXECUTE.

COMPUTE LinDetGarCarport = RND(DETGARx + (CARPORTx \*.50)).  
COMPUTE LinDetGarCarport\_RATIO = 1+ (LinDetGarCarport / 480).  
COMPUTE LN\_LinDetGarCarport\_RATIO = LN(LinDetGarCarport\_RATIO).

DO IF( GarageDetached\_Depr GT 0).  
COMPUTE GarageDetachedPctGood= GarageDetached\_Depr/100.  
END IF.  
RECODE GarageDetachedPctGood (SYSMIS = 1).  
COMPUTE LN\_GarageDetachedPctGood = LN(GarageDetachedPctGood).  
EXECUTE.

COMPUTE ShedX = UtilityBldg + Utilshed\_SF.  
RECODE ShedX (LO THRU 9 = 0).  
COMPUTE ShedX\_RATIO = 1 + (ShedX / 480).

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COMPUTE LN\_ShedX\_RATIO = LN(ShedX\_RATIO).

\*\*\*\*\*

\*Porch.

COMPUTE TerraceX = RaisedTerrace + Terrace\_SF.  
COMPUTE PatioX = Patio + PatioPool\_SF.  
COMPUTE OpenPorchX = OpenPorch + OpenFramePorch\_SF + PorchScreened\_SF.  
COMPUTE EnclPorchX = EnclPorch + PoolEnclosure\_SF.  
COMPUTE WoodDeckX = WoodDeck + WoodDeck\_SF.  
COMPUTE CanopyX = Canopy + Canopy\_SF.  
COMPUTE GreenhouseX = Greenhouse + Greenhouse\_SF.

COMPUTE TerraceX\_RATIO = 1 + ((TerraceX) / 350).  
COMPUTE LN\_TerraceX\_RATIO = LN(TerraceX\_RATIO).

COMPUTE PatioX\_RATIO = 1 + ((PatioX) / 115).  
COMPUTE LN\_PatioX\_RATIO = LN(PatioX\_RATIO).

\* COMPUTE OpenPorchX\_RATIO = 1 + ((OpenPorchX) / 115).  
\* COMPUTE LN\_OpenPorchX\_RATIO = LN(OpenPorchX\_RATIO).

\* COMPUTE EnclPorchX\_RATIO = 1 + ((EnclPorchX) / 115).  
\* COMPUTE LN\_EnclPorchX\_RATIO = LN(EnclPorchX\_RATIO).

COMPUTE LINPORCH\_RATIO = (RND((OpenPorchX \* .975) + EnclPorchX) / 115) + 1.  
COMPUTE LN\_LINPORCH\_RATIO = LN(LINPORCH\_RATIO).

COMPUTE WoodDeckX\_RATIO = 1 + ((WoodDeckX) / 145).  
COMPUTE LN\_WoodDeckX\_RATIO = LN(WoodDeckX\_RATIO).

\* COMPUTE CanopyX\_RATIO = 1 + ((CanopyX) / 230).  
\* COMPUTE LN\_CanopyX\_RATIO = LN(CanopyX\_RATIO).

\* COMPUTE GreenhouseX\_RATIO = 1 + ((GreenhouseX) / 500).  
\* COMPUTE LN\_GreenhouseX\_RATIO = LN(GreenhouseX\_RATIO).

\* COMPUTE Gazebo\_SF\_RATIO = 1 + ((Gazebo\_SF) / 180).  
\* COMPUTE LN\_Gazebo\_SF\_RATIO = LN(Gazebo\_SF\_RATIO).

\* COMPUTE CabinX = Cabin\_SF + OfficeStudio\_SF.

\* COMPUTE CabinX\_RATIO = 1 + ((CabinX) / 180).  
\* COMPUTE LN\_CabinX\_RATIO = LN(CabinX\_RATIO).

\* COMPUTE BathHouse\_SF\_RATIO = 1 + ((BathHouse\_SF) / 180).  
\* COMPUTE LN\_BathHouse\_SF\_RATIO = LN(BathHouse\_SF\_RATIO).

COMPUTE PoolX = PoolVinyl + PoolConc + PoolConc\_SF + PoolFbg1\_SF + PoolGuni\_SF +  
PoolVinyl\_SF + SpaJacuzzi\_SF.  
\* COMPUTE EnclPoolX = RND(EnclPoolLow \* .75) + EnclPoolHigh + PoolEnclosure\_SF.

COMPUTE PoolX\_RATIO = 1 + ((PoolX) / 400).  
COMPUTE LN\_PoolX\_RATIO = LN(PoolX\_RATIO).

\* COMPUTE EnclPoolX\_RATIO = 1 + ((EnclPoolX) / 400).  
\* COMPUTE LN\_EnclPoolX\_RATIO = LN(EnclPoolX\_RATIO).

\* COMPUTE TennisCourt\_SF\_RATIO = 1 + ((TennisCourt\_SF) / 180).  
\* COMPUTE LN\_TennisCourt\_SF\_RATIO = LN(TennisCourt\_SF\_RATIO).

\*Elevator.

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\*\*\*\*\*  
\* QUALITATIVE VARIABLES.

\*\*\*\*\*  
\*STYLE.

```
RECODE STYLE (1 = 1)(ELSE = 0) INTO ST_Ranch. /* 3263 SALES - 18175 POP.  
RECODE STYLE (2 = 1)(ELSE = 0) INTO ST_RaisedRanch_HiRanch. /* 829 SALES - 5672 POP.  
RECODE STYLE (3 = 1)(ELSE = 0) INTO ST_SplitLevel. /* 3798 SALES - 21187 POP.  
RECODE STYLE (4 = 1)(ELSE = 0) INTO ST_ModifiedRanch. /* 345 SALES - 2090 POP.  
RECODE STYLE (5 = 1)(ELSE = 0) INTO ST_Cape. /* 9205 SALES - 52920 POP.  
* RECODE STYLE (6 = 1)(ELSE = 0) INTO ST_Colonial. /* 4272 SALES - 27349 POP ---  
BASE.  
* RECODE STYLE (7 = 1)(ELSE = 0) INTO ST_Victorian. /* 2 SALES - 10 POP.  
RECODE STYLE (8 = 1)(ELSE = 0) INTO ST_Contemporary. /* 70 SALES - 356 POP.  
RECODE STYLE (9 = 1)(ELSE = 0) INTO ST_OldStyle. /* 1796 SALES - 10918 POP.  
RECODE STYLE (10 = 1)(ELSE = 0) INTO ST_Bungalowcottage. /* 430 SALES - 2389 POP.  
RECODE STYLE (11 = 1)(ELSE = 0) INTO ST_DuplexOrTriplex. /* 93 SALES - 770 POP.  
* RECODE STYLE (12 = 1)(ELSE = 0) INTO ST_MansionEstate. /* 0 SALES - 4 POP.  
RECODE STYLE (13 = 1)(ELSE = 0) INTO ST_Townhouse. /* 36 SALES - 277 POP.  
* RECODE STYLE (14 = 1)(ELSE = 0) INTO ST_Condo. /* 0 SALES - 0 POP.  
* RECODE STYLE (15 = 1)(ELSE = 0) INTO ST_Coop. /* 0 SALES - 0 POP.  
* RECODE STYLE (16 = 1)(ELSE = 0) INTO ST_HomownerAssoc. /* 0 SALES - 1 POP.  
* RECODE STYLE (17 = 1)(ELSE = 0) INTO ST_Other. /* 0 SALES - 1 POP.  
* RECODE STYLE (18 = 1)(ELSE = 0) INTO ST_Splanch. /* 125 SALES - 738 POP.  
* RECODE STYLE (19 = 1)(ELSE = 0) INTO ST_CarriageHouse. /* 0 SALES - 1 POP.  
* RECODE STYLE (20 = 1)(ELSE = 0) INTO ST_Tudor. /* 5 SALES - 79 POP.  
* RECODE STYLE (21 = 1)(ELSE = 0) INTO ST_Store_Dwell. /* 0 SALES - 0 POP.
```

\*\*\*\*\*  
\*LUC.

```
RECODE LUC ("2150" = 1)(ELSE = 0) INTO OneFamilyWAppt.  
RECODE LUC ("2200" = 1)(ELSE = 0) INTO TwoFamily.  
* RECODE LUC ("2300" = 1)(ELSE = 0) INTO ThreeFamily.  
RECODE LUC ("2800" = 1)(ELSE = 0) INTO MultiRes.
```

\*\*\*\*\*  
\*QUAL.

```
* RECODE QUAL (1 = 1)(ELSE = 0) INTO QualEMinus. /* 0 SALES - 1 POP.  
* RECODE QUAL (2 = 1)(ELSE = 0) INTO QualE. /* 0 SALES - 0 POP.  
* RECODE QUAL (3 = 1)(ELSE = 0) INTO QualEPlus. /* 0 SALES - 0 POP.  
* RECODE QUAL (1 = 1.45)(2 = 1.3)(3 = 1.15)(4 = 1)(ELSE = 0) INTO QualDMinus. /* 1  
SALES - 12 POP.  
RECODE QUAL (1 = 1.6)(2 = 1.45)(3 = 1.3)(4 = 1.15)(5 = 1)(ELSE = 0) INTO  
QualEMinusQualD. /* 162 SALES - 835 POP.  
RECODE QUAL (6 = 1)(ELSE = 0) INTO QualDPplus. /* 210 SALES - 1218 POP.  
RECODE QUAL (7 = 1)(ELSE = 0) INTO QualCMinus. /* 3637 SALES - 21274 POP.  
* RECODE QUAL (8 = 1)(ELSE = 0) INTO QualC. /* 13084 SALES - 79085 POP ----- BASE.  
RECODE QUAL (9 = 1)(ELSE = 0) INTO QualCPlus. /* 5170 SALES - 31749 POP.  
RECODE QUAL (10 = 1)(11 = 1.05)(ELSE = 0) INTO QualBMinusQualB. /* 1430 SALES - 6170  
POP.  
* RECODE QUAL (11 = 1)(ELSE = 0) INTO QualB. /* 349 SALES - 1596 POP.  
RECODE QUAL (12 = 1)(13, 14 = 1.25)(ELSE = 0) INTO QualBPlusQualA. /* 101 SALES -  
527 POP.  
* RECODE QUAL (13, 14 = 1)(ELSE = 0) INTO QualAMinus. /* 49 SALES - 229 POP.  
* RECODE QUAL (14 = 1)(ELSE = 0) INTO QualA. /* 43 SALES - 134 POP.  
RECODE QUAL (15 = 1)(16 = 1.15)(17 = 1.30)(18 = 1.45)(19 = 1.6)(20 = 1.85)(21 =  
2)(ELSE = 0) INTO QualAPlusQualSPlus. /* 27 SALES - 90 POP.  
* RECODE QUAL (16 = 1)(ELSE = 0) INTO QualXMinus. /* 2 SALES - 3 POP.
```

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```
* RECODE QUAL (17 = 1)(ELSE = 0) INTO QualX. /* 1 SALES - 5 POP.
* RECODE QUAL (18 = 1)(ELSE = 0) INTO QualXPlus. /* 0 SALES - 0 POP.
* RECODE QUAL (19 = 1)(ELSE = 0) INTO QualSMinus. /* 0 SALES - 0 POP.
* RECODE QUAL (20 = 1)(ELSE = 0) INTO QualS. /* 0 SALES - 0 POP.
* RECODE QUAL (21 = 1)(ELSE = 0) INTO QualSPlus. /* 0 SALES - 0 POP.
* RECODE QUAL (22 = 1)(ELSE = 0) INTO QualZMinus. /* 0 SALES - 0 POP.
* RECODE QUAL (23 = 1)(ELSE = 0) INTO QualZ. /* 0 SALES - 0 POP.
* RECODE QUAL (24 = 1)(ELSE = 0) INTO QualZPlus. /* 0 SALES - 0 POP.
```

\*\*\*\*\*

\*CDU.

\* Inconsistent will not use.

\*\*\*\*\*

\*EXTWALL.

```
RECODE EXTWALL (1 = 1)(ELSE=0) INTO EXT_Frame. /* 1883 SALES - 10351 POP.
RECODE EXTWALL (2, 4, 7, 9 10 11 = 1)(ELSE=0) INTO EXT_BrickStoneMasonryLog. /* 1299
SALES - 7143 POP.
RECODE EXTWALL (3 = 1)(ELSE=0) INTO EXT_MasFrame. /* 4616 SALES - 27850 POP.
* RECODE EXTWALL (4 = 1)(ELSE=0) INTO EXT_ConcBlock. /* 4 SALES - 21 POP.
RECODE EXTWALL (5 = 1)(ELSE=0) INTO EXT_Stucco. /* 419 SALES - 2493 POP.
* RECODE EXTWALL (6 = 1)(ELSE=0) INTO EXT_AlumVinyl. /* 13658 SALES - 81977 POP -
BASE.
* RECODE EXTWALL (7 = 1)(ELSE=0) INTO EXT_Stone. /* 4 SALES - 36 POP.
RECODE EXTWALL (8 = 1)(ELSE=0) INTO EXT_Composition. /* 2323 SALES - 12736 POP.
* RECODE EXTWALL (9 = 1)(ELSE=0) INTO EXT_Masonry. /* 58 SALES - 296 POP.
* RECODE EXTWALL (10 = 1)(ELSE=0) INTO EXT_Log. /* 1 SALES - 6 POP.
* RECODE EXTWALL (11 = 1)(ELSE=0) INTO EXT_CementFiber. /* 2 SALES - 20 POP.
```

\*\*\*\*\*

\*BSMT.

```
RECODE BSMT (0 = 1)(ELSE=0) INTO BSMT_None. /* 3961 SALES - 22412 POP.
* RECODE BSMT (1 = 1)(ELSE=0) INTO BSMT_14orSlab. /* 84 SALES - 416 POP.
* RECODE BSMT (2 = 1)(ELSE=0) INTO BSMT12orCrawl. /* 439 SALES - 2317 POP.
* RECODE BSMT (3 = 1)(ELSE=0) INTO BSMT34. /* 651 SALES - 3704 POP.
* RECODE BSMT (4 = 1)(ELSE=0) INTO BSMT_Full. /* 19131 SALES - 114079 POP.
```

\*\*\*\*\*

\*HEAT.

```
* RECODE HEAT (0, 1 = 1)(ELSE=0) INTO HEAT_None. /* 7 SALES - 35 POP.
* RECODE HEAT (2 = 1)(ELSE=0) INTO HEAT_NonCntrl. /* 7 SALES - 54 POP.
* RECODE HEAT (3 = 1)(ELSE=0) INTO HEAT_CntrlHt. /* 18672 SALES - 109045 POP.
* RECODE HEAT (4 = 1)(ELSE=0) INTO HEAT_CntrlHtAc. /* 5580 SALES - 33794 POP.
```

\*\*\*\*\*

\*FUEL.

```
* RECODE FUEL (1 = 1)(ELSE=0) INTO Oil. /* BASE.
* RECODE FUEL (2 4 = 1)(ELSE=0) INTO CoalStokerHand Fired.
RECODE FUEL (3 = 1)(ELSE=0) INTO Gas.
* RECODE FUEL (4 = 1)(ELSE=0) INTO CoalHand Fired.
* RECODE FUEL (5 6 8 = 1)(ELSE=0) INTO SolarElectricGeothermal.
* RECODE FUEL (6 = 1)(ELSE=0) INTO Electric.
* RECODE FUEL (7 = 1)(ELSE=0) INTO FUELOther. /* WILL LEAVE WITH BASE.
* RECODE FUEL (8 = 1)(ELSE=0) INTO Geothermal.
```

\*\*\*\*\*

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\*HEATSYS.

\* Will use Heat System Rather Than variable Heat.  
\* RECODE HEATSYS (1 = 1)(ELSE=0) INTO HtSysSteamVapor.  
\* RECODE HEATSYS (2 = 1)(ELSE=0) INTO HtSysHotWater.  
RECODE HEATSYS (3 = 1)(ELSE=0) INTO HtSysElectricSolar.  
\* RECODE HEATSYS (4 = 1)(ELSE=0) INTO HtSysForcedHotAir.  
RECODE HEATSYS (5 = 1)(ELSE=0) INTO HtSysCentralWithAC.  
\* RECODE HEATSYS (6 = 1)(ELSE=0) INTO HtSysUnused. /\* 0 SALES - 3 POP.  
RECODE HEATSYS (4 7 = 1)(ELSE=0) INTO HtSysHotAirX.  
\* RECODE HEATSYS (8 = 1)(ELSE=0) INTO HtSysPipeless.  
\* RECODE HEATSYS (7, 8 = 1)(0, 9 = 1.5)(ELSE=0) INTO HtSysHotAirPipelessNoHeat.  
\* RECODE HEATSYS (9 = 1)(ELSE=0) INTO HtSysNoHeat. /\* BASE.

\*\*\*\*\*  
\*ROOFCOVER ROOFTYPE HVACTYPE - WILL TEST IN RATIO STUDY.

COMPUTE FireplaceX = WBFP\_O + WBFP\_S + WBFP\_PF.  
DO IF(FireplaceX GT 0).  
COMPUTE LNFIREPLACEX = LN(FireplaceX).  
END IF.  
RECODE LNFIREPLACEX (SYSMIS = 0).

\*\*\*\*\*  
\*BATHS.

DO IF(FIXTOT GT 0).  
COMPUTE LNFIXTOT = LN(FIXTOT).  
END IF.  
RECODE LNFIXTOT (SYSMIS = 0).

\*\*\*\*\*  
\*LOCATION AND SITE QUALITATIVE VARIABLES.

\*\*\*\*\*  
\*WaterAttribute.

\* Water\_Primary Water\_Bay Water\_Canal Water\_Lake Water\_Ocean Water\_Sound  
Water\_WaterView Water\_None.

\*\*\*\*\*  
\*Location.  
\* None is base.

\* LOC\_MajorHighway LOC\_SecondaryStreet LOC\_LongIslandRailRoad  
LOC\_CommercialOrIndustrial  
LOC\_ApartmentBuilding LOC\_ContaminatedSite LOC\_GolfCourse  
LOC\_ReligiousInstitution LOC\_School  
LOC\_Park LOC\_Cemetery LOC\_AbuttsFireStation LOC\_SplitSchoolDistrict LOC\_Noise.

\* CLEANED UP LIRR SO VARIABLE TO USE IS LIRRx NOT LOC\_LongIslandRailRoad.

\*\*A few disparities between FireStation and ABUTS\_FIRESTATION.  
COMPUTE LOC\_AbuttsFireStationX = LOC\_AbuttsFireStation.  
IF(ABUTS\_FIRESTATION EQ 1)LOC\_AbuttsFireStationX = 1.

\*A few disparities between Apartment and APARTMENT\_INFLUENCE.  
COMPUTE LOC\_ApartmentBuildingX = LOC\_ApartmentBuilding.  
IF(APARTMENT\_INFLUENCE EQ 1)LOC\_ApartmentBuildingX = 1.

\*A few disparities between CommercialOrIndustrial and COMMERCIAL\_INFLUENCE.  
COMPUTE LOC\_CommercialOrIndustrialX = LOC\_CommercialOrIndustrial.

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```

IF( COMMERCIAL_INFLUENCE EQ 1)LOC_CommercialOrIndustrialX = 1.

*A few disparities between SecondaryStreet and SECONDARY_STREET - ALSO SUPER
CORRELATED TO TRAFFIC - WILL NOT USE.
* COMPUTE LOC_SecondaryStreetX = LOC_SecondaryStreet.
* IF( SECONDARY_STREET EQ 1 AND LOC_MajorHighway NE 1)LOC_SecondaryStreetX = 1.

*A few disparities between MajorHighway and MAJOR_HIGHWAY.
COMPUTE LOC_MajorHighwayX = LOC_MajorHighway.
IF(MAJOR_HIGHWAY EQ 1)LOC_MajorHighwayX = 1.

COMPUTE LOC_SplitSchoolDistrictX = LOC_splitSchoolDistrict.
IF(SPLIT SCHOOL_VILLAGE EQ 1)LOC_SplitSchoolDistrictX = 1.

*****.
* Fronting.
* none and residential street and lane are base FR_ResidentialStreet
FR_ResidentialLane .
* FR_MajorStrip FR_SecondaryArtery FR_SecondaryStreet FR_Culdesac FR_DeadEnd
FR_FrontageRoad FR_PrivateRoad

COMPUTE FR_MajorStripSecondaryArtery = FR_SecondaryArtery.
IF(FR_MajorStrip EQ 1)FR_MajorStripSecondaryArtery = 1.25.

COMPUTE FR_SecondaryStreetX = FR_SecondaryStreet.
IF(FR_MajorStripSecondaryArtery NE 0)FR_SecondaryStreetX = 0.

*****.
*Traffic.
*None and Light are base.
* TrafficLight TrafficMedium TrafficHeavy - ORIGINAL.
* Use Traffic - adjusted for GIS.

* RECODE Traffic_Text ('Light' = 1)(ELSE = 0) INTO TrafficLightX. /* BASE.
RECODE Traffic_Text ('Medium' = 1)(ELSE = 0) INTO TrafficMediumX.
RECODE Traffic_Text ('Heavy' = 1)(ELSE = 0) INTO TrafficHeavyX.

*****.
*TOPO.
*None and Level are base.
* TopoLevel TopoAboveStreet TopoBelowStreet TopoRolling TopoSteep TopoLow
TopoSwampy.

* COMPUTE TopoAboveBelowStreetRollingSteepSwampy = MAX(TopoAboveStreet,
TopoBelowStreet, TopoRolling, TopoSteep, TopoLow, TopoSwampy).

*****.
*NBHD.

RECODE NBHD (2 = 1)(ELSE = 0) INTO NBHD2. /*91 SALES - 695 POP.
RECODE NBHD (3 = 1)(ELSE = 0) INTO NBHD3. /*31 SALES - 190 POP.
RECODE NBHD (4 = 1)(ELSE = 0) INTO NBHD4. /*20 SALES - 98 POP.
RECODE NBHD (5 = 1)(ELSE = 0) INTO NBHD5. /*20 SALES - 163 POP.
RECODE NBHD (6 = 1)(ELSE = 0) INTO NBHD6. /*91 SALES - 527 POP.
RECODE NBHD (7 = 1)(ELSE = 0) INTO NBHD7. /*83 SALES - 466 POP.
RECODE NBHD (8 = 1)(ELSE = 0) INTO NBHD8. /*152 SALES - 906 POP.
RECODE NBHD (9 = 1)(ELSE = 0) INTO NBHD9. /* WAS IN MARKET 1.
RECODE NBHD (10 = 1)(ELSE = 0) INTO NBHD10. /*84 SALES - 528 POP.
RECODE NBHD (11 = 1)(ELSE = 0) INTO NBHD11. /*48 SALES - 271 POP.
RECODE NBHD (12 = 1)(ELSE = 0) INTO NBHD12. /*128 SALES - 818 POP.
RECODE NBHD (13 = 1)(ELSE = 0) INTO NBHD13. /*61 SALES - 499 POP.
RECODE NBHD (14 = 1)(ELSE = 0) INTO NBHD14. /*52 SALES - 314 POP.
RECODE NBHD (15 = 1)(ELSE = 0) INTO NBHD15. /*122 SALES - 751 POP.

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RECODE NBHD (16 = 1)(ELSE = 0) INTO NBHD16. /*212 SALES - 1340 POP.
RECODE NBHD (24 = 1)(ELSE = 0) INTO NBHD24. /*45 SALES - 266 POP.
RECODE NBHD (25 = 1)(ELSE = 0) INTO NBHD25. /*91 SALES - 553 POP.
RECODE NBHD (26 = 1)(ELSE = 0) INTO NBHD26. /*12 SALES - 66 POP.
RECODE NBHD (27 = 1)(ELSE = 0) INTO NBHD27. /*59 SALES - 526 POP.
RECODE NBHD (28 = 1)(ELSE = 0) INTO NBHD28. /*42 SALES - 376 POP.
RECODE NBHD (29 = 1)(ELSE = 0) INTO NBHD29. /*79 SALES - 538 POP.
RECODE NBHD (30 = 1)(ELSE = 0) INTO NBHD30. /*100 SALES - 566 POP.
RECODE NBHD (31 = 1)(ELSE = 0) INTO NBHD31. /*80 SALES - 492 POP.
RECODE NBHD (32 = 1)(ELSE = 0) INTO NBHD32. /*106 SALES - 701 POP.
RECODE NBHD (33 = 1)(ELSE = 0) INTO NBHD33. /*865 SALES - 5080 POP.
RECODE NBHD (35 = 1)(ELSE = 0) INTO NBHD35. /*382 SALES - 2264 POP.
* RECODE NBHD (37 = 1)(ELSE = 0) INTO NBHD37. /*493 SALES - 3126 POP.
RECODE NBHD (39 = 1)(ELSE = 0) INTO NBHD39. /*231 SALES - 1535 POP.
RECODE NBHD (47 = 1)(ELSE = 0) INTO NBHD47. /*432 SALES - 2896 POP.
RECODE NBHD (65 = 1)(ELSE = 0) INTO NBHD65. /*612 SALES - 3723 POP.
RECODE NBHD (66 = 1)(ELSE = 0) INTO NBHD66. /*534 SALES - 3310 POP.
RECODE NBHD (67 = 1)(ELSE = 0) INTO NBHD67. /*401 SALES - 2442 POP.
RECODE NBHD (68 = 1)(ELSE = 0) INTO NBHD68. /*267 SALES - 1440 POP.
RECODE NBHD (69 = 1)(ELSE = 0) INTO NBHD69. /*177 SALES - 990 POP.
RECODE NBHD (78 = 1)(ELSE = 0) INTO NBHD78. /*216 SALES - 1310 POP.
RECODE NBHD (79 = 1)(ELSE = 0) INTO NBHD79. /*279 SALES - 1718 POP.
* RECODE NBHD (80 = 1)(ELSE = 0) INTO NBHD80. /*89 SALES - 661 POP.
* RECODE NBHD (81 = 1)(ELSE = 0) INTO NBHD81. /*595 SALES - 3738 POP; BASE.
RECODE NBHD (97 = 1)(ELSE = 0) INTO NBHD97. /*85 SALES - 580 POP.
RECODE NBHD (98 = 1)(ELSE = 0) INTO NBHD98. /*57 SALES - 371 POP.
RECODE NBHD (99 = 1)(ELSE = 0) INTO NBHD99. /*156 SALES - 877 POP.
RECODE NBHD (100 = 1)(ELSE = 0) INTO NBHD100. /*104 SALES - 642 POP.
RECODE NBHD (101 = 1)(ELSE = 0) INTO NBHD101. /*528 SALES - 3128 POP.
RECODE NBHD (109 = 1)(ELSE = 0) INTO NBHD109. /*755 SALES - 4085 POP.
RECODE NBHD (110 = 1)(ELSE = 0) INTO NBHD110. /*400 SALES - 2465 POP.
RECODE NBHD (111 = 1)(ELSE = 0) INTO NBHD111. /*408 SALES - 2408 POP.
RECODE NBHD (112 = 1)(ELSE = 0) INTO NBHD112. /*312 SALES - 1770 POP.
RECODE NBHD (113 = 1)(ELSE = 0) INTO NBHD113. /*638 SALES - 3745 POP.
RECODE NBHD (135 = 1)(ELSE = 0) INTO NBHD135. /*681 SALES - 3889 POP.
RECODE NBHD (136 = 1)(ELSE = 0) INTO NBHD136. /*96 SALES - 521 POP.
RECODE NBHD (137 = 1)(ELSE = 0) INTO NBHD137. /*163 SALES - 1044 POP.
RECODE NBHD (138 = 1)(ELSE = 0) INTO NBHD138. /*345 SALES - 2089 POP.
RECODE NBHD (139 = 1)(ELSE = 0) INTO NBHD139. /*262 SALES - 1332 POP.
RECODE NBHD (140 = 1)(ELSE = 0) INTO NBHD140. /*929 SALES - 5681 POP.
RECODE NBHD (145 = 1)(ELSE = 0) INTO NBHD145. /*701 SALES - 3440 POP.
RECODE NBHD (146 = 1)(ELSE = 0) INTO NBHD146. /*724 SALES - 3711 POP.
RECODE NBHD (147 = 1)(ELSE = 0) INTO NBHD147. /*279 SALES - 1630 POP.
RECODE NBHD (148 = 1)(ELSE = 0) INTO NBHD148.
RECODE NBHD (149 = 1)(ELSE = 0) INTO NBHD149. /*451 SALES - 2531 POP.
RECODE NBHD (150 = 1)(ELSE = 0) INTO NBHD150. /*86 SALES - 726 POP.
RECODE NBHD (151 = 1)(ELSE = 0) INTO NBHD151. /*131 SALES - 979 POP.
RECODE NBHD (152 = 1)(ELSE = 0) INTO NBHD152. /*359 SALES - 2582 POP.
RECODE NBHD (153 = 1)(ELSE = 0) INTO NBHD153. /*277 SALES - 2196 POP.
RECODE NBHD (154 = 1)(ELSE = 0) INTO NBHD154. /*522 SALES - 3250 POP.
RECODE NBHD (176 = 1)(ELSE = 0) INTO NBHD176. /*325 SALES - 1933 POP.
RECODE NBHD (177 = 1)(ELSE = 0) INTO NBHD177. /*302 SALES - 1846 POP.
RECODE NBHD (178 = 1)(ELSE = 0) INTO NBHD178. /*408 SALES - 2173 POP.
* RECODE NBHD (179 = 1)(ELSE = 0) INTO NBHD179. /*299 SALES - 1917 POP.
RECODE NBHD (180 = 1)(ELSE = 0) INTO NBHD180. /*388 SALES - 2265 POP.
RECODE NBHD (181 = 1)(ELSE = 0) INTO NBHD181. /*27 SALES - 264 POP.
RECODE NBHD (182 = 1)(ELSE = 0) INTO NBHD182. /*391 SALES - 2240 POP.
RECODE NBHD (183 = 1)(ELSE = 0) INTO NBHD183. /*160 SALES - 867 POP.
RECODE NBHD (184 = 1)(ELSE = 0) INTO NBHD184. /*279 SALES - 1675 POP.
RECODE NBHD (185 = 1)(ELSE = 0) INTO NBHD185. /*160 SALES - 977 POP.
RECODE NBHD (186 = 1)(ELSE = 0) INTO NBHD186. /*190 SALES - 1299 POP.
RECODE NBHD (266 = 1)(ELSE = 0) INTO NBHD266. /*51 SALES - 389 POP.
RECODE NBHD (267 = 1)(ELSE = 0) INTO NBHD267. /*9 SALES - 108 POP.

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RECODE NBHD (268 = 1)(ELSE = 0) INTO NBHD268. /*21 SALES - 129 POP.
RECODE NBHD (269 = 1)(ELSE = 0) INTO NBHD269. /*4 SALES - 32 POP.
  * RECODE NBHD (270 = 1)(ELSE = 0) INTO NBHD270. /*17 SALES - 88 POP.
RECODE NBHD (271 = 1)(ELSE = 0) INTO NBHD271. /*18 SALES - 103 POP.
RECODE NBHD (272 = 1)(ELSE = 0) INTO NBHD272. /*15 SALES - 75 POP.
RECODE NBHD (273 = 1)(ELSE = 0) INTO NBHD273. /*136 SALES - 726 POP.
  * RECODE NBHD (274 = 1)(ELSE = 0) INTO NBHD274. /*32 SALES - 275 POP.
RECODE NBHD (275 = 1)(ELSE = 0) INTO NBHD275. /*35 SALES - 330 POP.
RECODE NBHD (276 = 1)(ELSE = 0) INTO NBHD276. /*54 SALES - 405 POP.
RECODE NBHD (277 = 1)(ELSE = 0) INTO NBHD277. /*330 SALES - 2319 POP.
RECODE NBHD (299 = 1)(ELSE = 0) INTO NBHD299. /*37 SALES - 167 POP.
RECODE NBHD (300 = 1)(ELSE = 0) INTO NBHD300. /*636 SALES - 2473 POP.
RECODE NBHD (301 = 1)(ELSE = 0) INTO NBHD301. /*388 SALES - 1752 POP.
RECODE NBHD (302 = 1)(ELSE = 0) INTO NBHD302. /*376 SALES - 1730 POP.
RECODE NBHD (303 = 1)(ELSE = 0) INTO NBHD303. /*325 SALES - 1480 POP.
RECODE NBHD (304 = 1)(ELSE = 0) INTO NBHD304. /*386 SALES - 1689 POP.
RECODE NBHD (305 = 1)(ELSE = 0) INTO NBHD305. /*191 SALES - 718 POP.
RECODE NBHD (306 = 1)(ELSE = 0) INTO NBHD306. /*131 SALES - 508 POP.
  * RECODE NBHD (308 = 1)(ELSE = 0) INTO NBHD308. /*71 SALES - 328 POP.
  * RECODE NBHD (309 = 1)(ELSE = 0) INTO NBHD309. /*31 SALES - 207 POP.
RECODE NBHD (310 = 1)(ELSE = 0) INTO NBHD310. /*13 SALES - 45 POP.
RECODE NBHD (311 = 1)(ELSE = 0) INTO NBHD311. /*105 SALES - 824 POP.
RECODE NBHD (312 = 1)(ELSE = 0) INTO NBHD312. /*71 SALES - 447 POP.
RECODE NBHD (313 = 1)(ELSE = 0) INTO NBHD313. /*22 SALES - 116 POP.
RECODE NBHD (314 = 1)(ELSE = 0) INTO NBHD314. /*265 SALES - 1822 POP.
  * RECODE NBHD (315 = 1)(ELSE = 0) INTO NBHD315. /*61 SALES - 373 POP.
RECODE NBHD (316 = 1)(ELSE = 0) INTO NBHD316. /*675 SALES - 4259 POP.
FORMATS NBHD2 TO NBHD316 (F1.0).
COMPUTE NBHD_CHECK = SUM(NBHD2 TO NBHD316).
  * FREQUENCIES NBHD_CHECK.
```

```

  * TEMPORARY.
  * SELECT IF(NBHD_CHECK EQ 0).
  * FREQUENCIES NBHD.
```

---



---



---

```

*****.
* SUBDIVISION ADJUSTMENTS - AS NEEDED.
```

```

RECODE VillageCode ('FPS' = 1)(ELSE = 0) INTO VillageCodeFPS.
RECODE VillageCode ('SM' = 1)(ELSE = 0) INTO VillageCodesSM.
```

```

*NBHD 2.
  * IF (ANY(SECBLOCK, "09 193"))BLK_09_193 = 1.
IF (ANY(SECBLOCK, "09 202"))BLK_09_202 = 1.
```

```

*NBHD 3.
IF (ANY(SECBLOCK, "09 324"))BLK_09_324 = 1.
```

```

*NBHD 8.
IF (ANY(SECBLOCK, "07 229"))BLK_07_229 = 1.
IF (ANY(SECBLOCK, "07 311"))BLK_07_311 = 1.
```

```

*NBHD 10.
IF (ANY(SECBLOCK, "09 094"))BLK_09_094 = 1.
```

```

*NBHD 11.
```

```

RECODE SubGroup ("11_A" = 1)(ELSE = 0) INTO NBHD_11_A.
```

```

*NBHD 12.
IF (ANY(SECBLOCK, "09 307"))BLK_09_307 = 1.
```

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```
*NBHD 15.  
IF (ANY(SECBLOCK,"09 290"))BLK_09_290 = 1.  
  
*NBHD 16.  
* IF (ANY(SECBLOCK,"09 003"))BLK_09_003 = 1.  
* IF (ANY(SECBLOCK,"09 010"))BLK_09_010 = 1.  
* IF (ANY(SECBLOCK,"09 020"))BLK_09_020 = 1.  
  
RECODE SubGroup ("16_A" = 1)(ELSE = 0) INTO NBHD_16_Sub.  
  
*NBHD 29.  
* IF (ANY(SECBLOCK,"10 035"))BLK_10_035 = 1. /* INCLUDED BELOW.  
* IF (ANY(SECBLOCK,"10 288"))BLK_10_288 = 1.  
  
RECODE SubGroup ("29_A" = 1)(ELSE = 0) INTO NBHD_29_A.  
  
*NBHD 32.  
IF (ANY(SECBLOCK,"32 098"))BLK_32_098 = 1.  
IF (ANY(SECBLOCK,"33 192"))BLK_33_192 = 1. /* ALSO IN NBHD 149.  
  
*NBHD 33.  
* IF (ANY(SECBLOCK,"08 006"))BLK_08_006 = 1.  
* IF (ANY(SECBLOCK,"08 007"))BLK_08_007 = 1.  
* IF (ANY(SECBLOCK,"08 011"))BLK_08_011 = 1.  
* IF (ANY(SECBLOCK,"08 012"))BLK_08_012 = 1.  
IF (ANY(SECBLOCK,"08 014"))BLK_08_014 = 1.  
IF (ANY(SECBLOCK,"08 018"))BLK_08_018 = 1.  
* IF (ANY(SECBLOCK,"08 019"))BLK_08_019 = 1.  
IF (ANY(SECBLOCK,"08 029"))BLK_08_029 = 1.  
* IF (ANY(SECBLOCK,"08 030"))BLK_08_030 = 1.  
* IF (ANY(SECBLOCK,"08 151"))BLK_08_151 = 1.  
* IF (ANY(SECBLOCK,"08 169"))BLK_08_169 = 1.  
IF (ANY(SECBLOCK,"08 21104"))BLK_08_21104 = 1.  
* IF (ANY(SECBLOCK,"08 212"))BLK_08_212 = 1.  
IF (ANY(SECBLOCK,"08 323"))BLK_08_323 = 1.  
IF (ANY(SECBLOCK,"08 333"))BLK_08_333 = 1.  
IF (ANY(SECBLOCK,"08 336"))BLK_08_336 = 1.  
  
*NBHD 35.  
* IF (ANY(SECBLOCK,"46 155"))BLK_46_155 = 1.  
* IF (ANY(SECBLOCK,"46 165"))BLK_46_165 = 1.  
* IF (ANY(SECBLOCK,"46 529"))BLK_46_529 = 1. /* ALSO IN NBHD 145.  
IF (ANY(SECBLOCK,"46 592"))BLK_46_592 = 1.  
* IF (ANY(SECBLOCK,"46 604"))BLK_46_604 = 1.  
* IF (ANY(SECBLOCK,"47 063"))BLK_47_063 = 1.  
  
*NBHD 37.  
IF (ANY(SECBLOCK,"46 014"))BLK_46_014 = 1.  
IF (ANY(SECBLOCK,"46 043"))BLK_46_043 = 1.  
* IF (ANY(SECBLOCK,"46 122"))BLK_46_122 = 1.  
IF (ANY(SECBLOCK,"46 339"))BLK_46_339 = 1.  
* IF (ANY(SECBLOCK,"46 483"))BLK_46_483 = 1.  
IF (ANY(SECBLOCK,"46 538"))BLK_46_538 = 1.  
  
*NBHD 39.  
IF (ANY(SECBLOCK,"51 214"))BLK_51_214 = 1.  
IF (ANY(SECBLOCK,"51 394"))BLK_51_394 = 1. /* ALSO IN NBHD 112.  
  
*NBHD 47.  
* IF (ANY(SECBLOCK,"46 390"))BLK_46_390 = 1.  
* IF (ANY(SECBLOCK,"46 409"))BLK_46_409 = 1.  
IF (ANY(SECBLOCK,"46 437"))BLK_46_437 = 1.  
IF (ANY(SECBLOCK,"46 451"))BLK_46_451 = 1.
```

```

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* IF (ANY(SECBLOCK,"46 542"))BLK_46_542 = 1.
* IF (ANY(SECBLOCK,"46 544"))BLK_46_544 = 1.

*NHBD 65.
IF (ANY(SECBLOCK,"49 177"))BLK_49_177 = 1.
* IF (ANY(SECBLOCK,"52 044"))BLK_52_044 = 1.
IF (ANY(SECBLOCK,"52 046"))BLK_52_046 = 1.
IF (ANY(SECBLOCK,"52 047"))BLK_52_047 = 1.

*NHBD 66.
* IF (ANY(SECBLOCK,"52 120"))BLK_52_120 = 1.
IF (ANY(SECBLOCK,"52 183"))BLK_52_183 = 1.
* IF (ANY(SECBLOCK,"52 313"))BLK_52_313 = 1.
IF (ANY(SECBLOCK,"52 346"))BLK_52_346 = 1.
IF (ANY(SECBLOCK,"52 392"))BLK_52_392 = 1.
IF (ANY(SECBLOCK,"52 403"))BLK_52_403 = 1.
IF (ANY(SECBLOCK,"52 471"))BLK_52_471 = 1.
* IF (ANY(SECBLOCK,"52 476"))BLK_52_476 = 1.

*NHBD 67.
* IF (ANY(SECBLOCK,"09 091"))BLK_09_091 = 1.
* IF (ANY(SECBLOCK,"09 517"))BLK_09_517 = 1.
IF (ANY(SECBLOCK,"09 571"))BLK_09_571 = 1.

RECODE SubGroup ("67_A" = 1)(ELSE = 0) INTO NBHD_67_A.

*NHBD 68.
* IF (ANY(SECBLOCK,"07 111"))BLK_07_111 = 1.
* IF (ANY(SECBLOCK,"07 M02"))BLK_07_M02 = 1. /* PARTLY INCLUDED IN 68 A.
IF (ANY(SECBLOCK,"09 629"))BLK_09_629 = 1.
IF (ANY(SECBLOCK,"09 639"))BLK_09_639 = 1.

RECODE SubGroup ("68_A" = 1)(ELSE = 0) INTO NBHD_68_A.
RECODE SubGroup ("68_B" = 1)(ELSE = 0) INTO NBHD_68_B.

*NHBD 69.
IF (ANY(SECBLOCK,"07 268"))BLK_07_268 = 1.
IF (ANY(SECBLOCK,"09 649"))BLK_09_649 = 1.

*NHBD 70.
RECODE SubGroup ("70_A" = 1)(ELSE = 0) INTO NBHD_70_A.

*NHBD 78.
IF (ANY(SECBLOCK,"33 464"))BLK_33_464 = 1.
* IF (ANY(SECBLOCK,"33 487"))BLK_33_487 = 1.
* IF (ANY(SECBLOCK,"33 491"))BLK_33_491 = 1.
* IF (ANY(SECBLOCK,"33 524"))BLK_33_524 = 1.

*NHBD 79.
* IF (ANY(SECBLOCK,"33 H"))BLK_33_H = 1. /* IS ALSO IN NHBD 149.
* IF (ANY(SECBLOCK,"33 304"))BLK_33_304 = 1.
* IF (ANY(SECBLOCK,"33 450"))BLK_33_450 = 1.

RECODE SubGroup ("79_A" = 1)(ELSE = 0) INTO NBHD_79_A.

*NHBD 81.
* IF (ANY(SECBLOCK,"35 143"))BLK_35_143 = 1.
* IF (ANY(SECBLOCK,"35 184"))BLK_35_184 = 1.
* IF (ANY(SECBLOCK,"35 194"))BLK_35_194 = 1.
IF (ANY(SECBLOCK,"35 199"))BLK_35_199 = 1.
* IF (ANY(SECBLOCK,"35 550"))BLK_35_550 = 1.

```

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```

*NBHD 97.
IF (ANY(SECBLOCK,"32_011"))BLK_32_011 = 1. /* IS ALSO IN NBHD 98.
 * IF (ANY(SECBLOCK,"32_016"))BLK_32_016 = 1.
 * IF (ANY(SECBLOCK,"32_024"))BLK_32_024 = 1.

*NBHD 98.
IF (ANY(SECBLOCK,"32_043"))BLK_32_043 = 1.

*NBHD 99.
 * IF (ANY(SECBLOCK,"08_078"))BLK_08_078 = 1.
IF (ANY(SECBLOCK,"08_079"))BLK_08_079 = 1.

*NBHD 100.
 * IF (ANY(SECBLOCK,"32_074"))BLK_32_074 = 1.

*NBHD 101.
IF (ANY(SECBLOCK,"32_192"))BLK_32_192 = 1.
IF (ANY(SECBLOCK,"32_233"))BLK_32_233 = 1.
IF (ANY(SECBLOCK,"32_235"))BLK_32_235 = 1.
IF (ANY(SECBLOCK,"32_329"))BLK_32_329 = 1. /* ALSO IN NBHD 149.

RECODE SubGroup ("101_Raff" = 1)(ELSE = 0) INTO NBHD_101_Raff.

*NBHD 109.
IF (ANY(SECBLOCK,"45_129"))BLK_45_129 = 1.
IF (ANY(SECBLOCK,"45_154"))BLK_45_154 = 1.
 * IF (ANY(SECBLOCK,"45_162"))BLK_45_162 = 1.
 * IF (ANY(SECBLOCK,"45_183"))BLK_45_183 = 1.
 * IF (ANY(SECBLOCK,"45_212"))BLK_45_212 = 1.
IF (ANY(SECBLOCK,"45_240"))BLK_45_240 = 1.
IF (ANY(SECBLOCK,"45_313"))BLK_45_313 = 1.
IF (ANY(SECBLOCK,"45_316"))BLK_45_316 = 1.

*NBHD 110.
IF (ANY(SECBLOCK,"51_141"))BLK_51_141 = 1.
 * IF (ANY(SECBLOCK,"51_155"))BLK_51_155 = 1.
 * IF (ANY(SECBLOCK,"51_292"))BLK_51_292 = 1.

*NBHD 111.
 * IF (ANY(SECBLOCK,"51_179"))BLK_51_179 = 1.
 * IF (ANY(SECBLOCK,"51_202"))BLK_51_202 = 1.
IF (ANY(SECBLOCK,"51_224"))BLK_51_224 = 1.
IF (ANY(SECBLOCK,"51_246"))BLK_51_246 = 1.

*NBHD 112.
 * IF (ANY(SECBLOCK,"51_387"))BLK_51_387 = 1.
 * IF (ANY(SECBLOCK,"51_393"))BLK_51_393 = 1.
IF (ANY(SECBLOCK,"51_396"))BLK_51_396 = 1.
IF (ANY(SECBLOCK,"51_474"))BLK_51_474 = 1.
IF (ANY(SECBLOCK,"51_501"))BLK_51_501 = 1.
IF (ANY(SECBLOCK,"52_431"))BLK_52_431 = 1.
 * IF (ANY(SECBLOCK,"52_493"))BLK_52_493 = 1.
 * IF (ANY(SECBLOCK,"52_510"))BLK_52_510 = 1.

*NBHD 113.
IF (ANY(SECBLOCK,"51_286"))BLK_51_286 = 1.
 * IF (ANY(SECBLOCK,"51_320"))BLK_51_320 = 1.
 * IF (ANY(SECBLOCK,"51_366"))BLK_51_366 = 1.
IF (ANY(SECBLOCK,"51_374"))BLK_51_374 = 1.
IF (ANY(SECBLOCK,"51_405"))BLK_51_405 = 1.
 * IF (ANY(SECBLOCK,"51_421"))BLK_51_421 = 1.
 * IF (ANY(SECBLOCK,"51_467"))BLK_51_467 = 1.
 * IF (ANY(SECBLOCK,"52_340"))BLK_52_340 = 1.

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```
IF (ANY(SECBLOCK, "52 395"))BLK_52_395 = 1.  
  
*NBHD 135.  
IF (ANY(SECBLOCK, "45 400"))BLK_45_400 = 1.  
IF (ANY(SECBLOCK, "45 402"))BLK_45_402 = 1.  
IF (ANY(SECBLOCK, "45 405"))BLK_45_405 = 1.  
* IF (ANY(SECBLOCK, "45 410"))BLK_45_410 = 1.  
* IF (ANY(SECBLOCK, "45 435"))BLK_45_435 = 1.  
* IF (ANY(SECBLOCK, "45 443"))BLK_45_443 = 1.  
IF (ANY(SECBLOCK, "45 446"))BLK_45_446 = 1.  
IF (ANY(SECBLOCK, "45 451"))BLK_45_451 = 1.  
IF (ANY(SECBLOCK, "45 460"))BLK_45_460 = 1.  
IF (ANY(SECBLOCK, "45 517"))BLK_45_517 = 1.  
IF (ANY(SECBLOCK, "45 526"))BLK_45_526 = 1.  
IF (ANY(SECBLOCK, "45 562"))BLK_45_562 = 1.  
IF (ANY(SECBLOCK, "45 563"))BLK_45_563 = 1.  
  
*NBHD 136.  
IF (ANY(SECBLOCK, "45 342"))BLK_45_342 = 1.  
  
*NBHD 137.  
IF (ANY(SECBLOCK, "45 473"))BLK_45_473 = 1.  
  
*NBHD 138.  
* IF (ANY(SECBLOCK, "51 041"))BLK_51_041 = 1.  
* IF (ANY(SECBLOCK, "51 516"))BLK_51_516 = 1.  
  
*NBHD 139.  
* IF (ANY(SECBLOCK, "50 533"))BLK_50_533 = 1.  
  
*NBHD 140.  
IF (ANY(SECBLOCK, "50 153"))BLK_50_153 = 1.  
IF (ANY(SECBLOCK, "50 195"))BLK_50_195 = 1.  
IF (ANY(SECBLOCK, "50 227"))BLK_50_227 = 1.  
IF (ANY(SECBLOCK, "50 231"))BLK_50_231 = 1.  
* IF (ANY(SECBLOCK, "50 381"))BLK_50_381 = 1.  
IF (ANY(SECBLOCK, "50 443"))BLK_50_443 = 1.  
* IF (ANY(SECBLOCK, "50 467"))BLK_50_467 = 1.  
IF (ANY(SECBLOCK, "50 478"))BLK_50_478 = 1.  
IF (ANY(SECBLOCK, "50 480"))BLK_50_480 = 1.  
  
*NBHD 145.  
IF (ANY(SECBLOCK, "12 027"))BLK_12_027 = 1.  
* IF (ANY(SECBLOCK, "12 038"))BLK_12_038 = 1.  
IF (ANY(SECBLOCK, "12 391"))BLK_12_391 = 1.  
IF (ANY(SECBLOCK, "12 453"))BLK_12_453 = 1. /* ALSO IN NBHD 301.  
IF (ANY(SECBLOCK, "12 468"))BLK_12_468 = 1.  
IF (ANY(SECBLOCK, "12 558"))BLK_12_558 = 1.  
IF (ANY(SECBLOCK, "12 588"))BLK_12_588 = 1.  
IF (ANY(SECBLOCK, "46 569"))BLK_46_569 = 1.  
  
*NBHD 146.  
* IF (ANY(SECBLOCK, "12 075"))BLK_12_075 = 1.  
* IF (ANY(SECBLOCK, "12 080"))BLK_12_080 = 1.  
IF (ANY(SECBLOCK, "12 379"))BLK_12_379 = 1.  
IF (ANY(SECBLOCK, "12 385"))BLK_12_385 = 1.  
IF (ANY(SECBLOCK, "12 415"))BLK_12_415 = 1. /* ALSO IN NBHD 179.  
* IF (ANY(SECBLOCK, "12 422"))BLK_12_422 = 1. /* ALSO IN NBHD 301.  
* IF (ANY(SECBLOCK, "12 439"))BLK_12_439 = 1. /* ALSO IN NBHD 182.  
IF (ANY(SECBLOCK, "12 492"))BLK_12_492 = 1.  
IF (ANY(SECBLOCK, "12 553"))BLK_12_553 = 1.  
IF (ANY(SECBLOCK, "13 005"))BLK_13_005 = 1.  
IF (ANY(SECBLOCK, "13 030", "13 031"))BLK_13_031x = 1.
```

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IF (ANY(SECBLOCK, "13\_090"))BLK\_13\_090 = 1.  
\* IF (ANY(SECBLOCK, "46\_567"))BLK\_46\_567 = 1.  
IF (ANY(SECBLOCK, "47\_007"))BLK\_47\_007 = 1.  
\* IF (ANY(SECBLOCK, "47\_013"))BLK\_47\_013 = 1.  
IF (ANY(SECBLOCK, "47\_023"))BLK\_47\_023 = 1.

RECODE SubGroup ("146\_A" = 1)(ELSE = 0) INTO NBHD\_146\_A.  
RECODE SubGroup ("67\_B" = 1)(ELSE = 0) INTO NBHD\_67\_B.

\*NBHD 147.  
IF (ANY(SECBLOCK, "47\_044"))BLK\_47\_044 = 1.  
IF (ANY(SECBLOCK, "47\_049"))BLK\_47\_049 = 1.  
\* IF (ANY(SECBLOCK, "47\_066"))BLK\_47\_066 = 1.  
\* IF (ANY(SECBLOCK, "47\_076"))BLK\_47\_076 = 1.  
IF (ANY(SECBLOCK, "47\_101"))BLK\_47\_101 = 1.  
IF (ANY(SECBLOCK, "47\_111"))BLK\_47\_111 = 1.  
IF (ANY(SECBLOCK, "47\_128"))BLK\_47\_128 = 1.

\*NBHD 148.

RECODE SubGroup ("148\_A" = 1)(ELSE = 0) INTO NBHD\_148\_A.  
RECODE SubGroup ("148\_LongRidge" = 1)(ELSE = 0) INTO NBHD\_148\_LongRidge.

\*NBHD 149.  
IF (ANY(SECBLOCK, "13\_093"))BLK\_13\_093 = 1.  
\* IF (ANY(SECBLOCK, "13\_102"))BLK\_13\_102 = 1.  
IF (ANY(SECBLOCK, "32\_104"))BLK\_32\_104 = 1.  
IF (ANY(SECBLOCK, "32\_145"))BLK\_32\_145 = 1.  
\* IF (ANY(SECBLOCK, "32\_322"))BLK\_32\_322 = 1.  
IF (ANY(SECBLOCK, "33\_G"))BLK\_33\_G = 1.  
\* IF (ANY(SECBLOCK, "33\_274"))BLK\_33\_274 = 1.  
\* IF (ANY(SECBLOCK, "33\_275"))BLK\_33\_275 = 1.  
IF (ANY(SECBLOCK, "33\_284"))BLK\_33\_284 = 1.  
\* IF (ANY(SECBLOCK, "33\_292"))BLK\_33\_292 = 1.  
\* IF (ANY(SECBLOCK, "33\_29702"))BLK\_33\_29702 = 1.

\*NBHD 151.

IF (ANY(SECBLOCK, "37\_Q03"))BLK\_37\_Q03 = 1.

\*NBHD 152.

\* IF (ANY(SECBLOCK, "32\_430"))BLK\_32\_430 = 1.

\*NBHD 153.

IF (ANY(SECBLOCK, "32\_671"))BLK\_32\_671 = 1.  
IF (ANY(SECBLOCK, "32\_680"))BLK\_32\_680 = 1.  
\* IF (ANY(SECBLOCK, "32\_693"))BLK\_32\_693 = 1.

\*NBHD 154.

\* IF (ANY(SECBLOCK, "32\_477"))BLK\_32\_477 = 1.  
IF (ANY(SECBLOCK, "32\_493"))BLK\_32\_493 = 1.  
\* IF (ANY(SECBLOCK, "32\_497"))BLK\_32\_497 = 1.  
\* IF (ANY(SECBLOCK, "32\_523"))BLK\_32\_523 = 1.  
IF (ANY(SECBLOCK, "32\_580"))BLK\_32\_580 = 1.

RECODE SubGroup ("154\_A" = 1)(ELSE = 0) INTO NBHD\_154\_A.

\*NBHD 177.

IF (ANY(SECBLOCK, "45\_294"))BLK\_45\_294 = 1.

\*NBHD 178.

IF (ANY(SECBLOCK, "46\_365"))BLK\_46\_365 = 1.  
IF (ANY(SECBLOCK, "46\_536"))BLK\_46\_536 = 1.  
\* IF (ANY(SECBLOCK, "46\_633"))BLK\_46\_633 = 1.

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\*NBHD 179.  
IF (ANY(SECBLOCK,"12 244"))BLK\_12\_244 = 1.  
\* IF (ANY(SECBLOCK,"12 250"))BLK\_12\_250 = 1.  
IF (ANY(SECBLOCK,"12 267","12 268"))BLK\_12\_267\_268 = 1.  
IF (ANY(SECBLOCK,"12 277","12 283","12 284"))BLK\_12\_277\_283\_284 = 1.  
IF (ANY(SECBLOCK,"12 325"))BLK\_12\_325 = 1.  
\* IF (ANY(SECBLOCK,"12 326","12 327","12 328"))BLK\_12\_326\_327\_328 = 1.  
\* IF (ANY(SECBLOCK,"12 371"))BLK\_12\_371 = 1.

\*NBHD 180.  
IF (ANY(SECBLOCK,"11 292"))BLK\_11\_292 = 1.  
IF (ANY(SECBLOCK,"11 333","11 334","11 335","11 336","11 420","11 421","11 422","11 423"))BLK\_11\_333x = 1.  
\* IF (ANY(SECBLOCK,"11 367"))BLK\_11\_367 = 1.  
IF (ANY(SECBLOCK,"11 395"))BLK\_11\_395 = 1.  
\* IF (ANY(SECBLOCK,"12 201"))BLK\_12\_201 = 1.

\*NBHD 182.  
\* IF (ANY(SECBLOCK,"12 155"))BLK\_12\_155 = 1.  
\* IF (ANY(SECBLOCK,"12 174"))BLK\_12\_174 = 1.  
\* IF (ANY(SECBLOCK,"12 207"))BLK\_12\_207 = 1. /\* in NBHD\_182\_A.  
\* IF (ANY(SECBLOCK,"12 213"))BLK\_12\_213 = 1. /\* in NBHD\_182\_A.  
\* IF (ANY(SECBLOCK,"12 285"))BLK\_12\_285 = 1.  
\* IF (ANY(SECBLOCK,"12 290"))BLK\_12\_290 = 1.  
\* IF (ANY(SECBLOCK,"12 304"))BLK\_12\_304 = 1.  
\* IF (ANY(SECBLOCK,"12 323"))BLK\_12\_323 = 1.  
\* IF (ANY(SECBLOCK,"12 519"))BLK\_12\_519 = 1. /\* in NBHD\_182\_A.  
\* IF (ANY(SECBLOCK,"12 562"))BLK\_12\_562 = 1. /\* in NBHD\_182\_A.  
\* IF (ANY(SECBLOCK,"12 589"))BLK\_12\_589 = 1. /\* in NBHD\_182\_A.

RECODE SubGroup ("182\_A" = 1)(ELSE = 0) INTO NBHD\_182\_A.  
RECODE SubGroup ("182\_B" = 1)(ELSE = 0) INTO NBHD\_182\_B.

\*NBHD 183.  
IF (ANY(SECBLOCK,"33 615"))BLK\_33\_615 = 1.  
\* IF (ANY(SECBLOCK,"34 312"))BLK\_34\_312 = 1.

\*NBHD 184.  
IF (ANY(SECBLOCK,"35 350"))BLK\_35\_350 = 1.  
IF (ANY(SECBLOCK,"35 391"))BLK\_35\_391 = 1.

\*NBHD 186.  
IF (ANY(SECBLOCK,"35 262"))BLK\_35\_262 = 1.  
IF (ANY(SECBLOCK,"35 269"))BLK\_35\_269 = 1.  
IF (ANY(SECBLOCK,"35 403"))BLK\_35\_403 = 1.  
\* IF (ANY(SECBLOCK,"35 404"))BLK\_35\_404 = 1.  
IF (ANY(SECBLOCK,"35 405"))BLK\_35\_405 = 1.  
IF (ANY(SECBLOCK,"35 407"))BLK\_35\_407 = 1.  
\* IF (ANY(SECBLOCK,"35 487"))BLK\_35\_487 = 1.  
IF (ANY(SECBLOCK,"35 490"))BLK\_35\_490 = 1.  
\* IF (ANY(SECBLOCK,"35 602"))BLK\_35\_602 = 1.

\*NBHD 266 & 299.  
IF (ANY(SECBLOCK,"11 370"))BLK\_11\_370 = 1.

\*NBHD 277.  
IF (ANY(SECBLOCK,"11 030"))BLK\_11\_030 = 1.  
IF (ANY(SECBLOCK,"11 414"))BLK\_11\_414 = 1.

\*NBHD 300.  
\* IF (ANY(SECBLOCK,"11 355"))BLK\_11\_355 = 1.  
IF (ANY(SECBLOCK,"11 356"))BLK\_11\_356 = 1.

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* IF (ANY(SECBLOCK, "11 446"))BLK_11_446 = 1.
* IF (ANY(SECBLOCK, "11 452"))BLK_11_452 = 1.
* IF (ANY(SECBLOCK, "12 508"))BLK_12_508 = 1.
* IF (ANY(SECBLOCK, "12 509"))BLK_12_509 = 1.
* IF (ANY(SECBLOCK, "12 512"))BLK_12_512 = 1.
IF (ANY(SECBLOCK, "12 517"))BLK_12_517 = 1.
* IF (ANY(SECBLOCK, "12 535"))BLK_12_535 = 1. /* ALREADY IN 300 A.
IF (ANY(SECBLOCK, "12 546"))BLK_12_546 = 1.
IF (ANY(SECBLOCK, "12 547"))BLK_12_547 = 1.
* IF (ANY(SECBLOCK, "12 615"))BLK_12_615 = 1. /* ALREADY IN 300 A.
* IF (ANY(SECBLOCK, "12 619"))BLK_12_619 = 1.
* IF (ANY(SECBLOCK, "15 155"))BLK_15_155 = 1. /* ALREADY IN 300 A.

RECODE SubGroup ("300_A" = 1)(ELSE = 0) INTO NBHD_300_A.

*NBHD 301.
* IF (ANY(SECBLOCK, "12 348"))BLK_12_348 = 1.
* IF (ANY(SECBLOCK, "12 504"))BLK_12_504 = 1.

*NBHD 302.
* IF (ANY(SECBLOCK, "15 064"))BLK_15_064 = 1.
IF (ANY(SECBLOCK, "15 098"))BLK_15_098 = 1.
IF (ANY(SECBLOCK, "15 101"))BLK_15_101 = 1.
IF (ANY(SECBLOCK, "15 113"))BLK_15_113 = 1.
IF (ANY(SECBLOCK, "15 120"))BLK_15_120 = 1.
* IF (ANY(SECBLOCK, "15 124"))BLK_15_124 = 1.
* IF (ANY(SECBLOCK, "15 127"))BLK_15_127 = 1.
IF (ANY(SECBLOCK, "15 130", "15 131", "15 132", "15 133", "15 134"))BLK_15_134x = 1.

*NBHD 303.
* IF (ANY(SECBLOCK, "12 501"))BLK_12_501 = 1.
IF (ANY(SECBLOCK, "13 072"))BLK_13_072 = 1.
* IF (ANY(SECBLOCK, "13 073"))BLK_13_073 = 1.
IF (ANY(SECBLOCK, "13 080"))BLK_13_080 = 1.
* IF (ANY(SECBLOCK, "14 D"))BLK_14_D = 1.
IF (ANY(SECBLOCK, "14 002"))BLK_14_002 = 1.
IF (ANY(SECBLOCK, "14 024"))BLK_14_024 = 1.
* IF (ANY(SECBLOCK, "15 173"))BLK_15_173 = 1.
IF (ANY(SECBLOCK, "15 176"))BLK_15_176 = 1.

RECODE SubGroup ("303_A" = 1)(ELSE = 0) INTO NBHD_303_A.
RECODE SubGroup ("303_Drawbridge" = 1)(ELSE = 0) INTO NBHD_303_Drawbridge.

*NBHD 304.
IF (ANY(SECBLOCK, "15 020"))BLK_15_020 = 1.
IF (ANY(SECBLOCK, "15 070"))BLK_15_070 = 1.
IF (ANY(SECBLOCK, "15 074"))BLK_15_074 = 1.
IF (ANY(SECBLOCK, "15 075"))BLK_15_075 = 1.
IF (ANY(SECBLOCK, "15 077"))BLK_15_077 = 1.
IF (ANY(SECBLOCK, "15 084"))BLK_15_084 = 1.
IF (ANY(SECBLOCK, "15 085"))BLK_15_085 = 1.
IF (ANY(SECBLOCK, "15 105"))BLK_15_105 = 1.
IF (ANY(SECBLOCK, "15 106"))BLK_15_106 = 1.
* IF (ANY(SECBLOCK, "15 147"))BLK_15_147 = 1.
IF (ANY(SECBLOCK, "25 044"))BLK_25_044 = 1.

*NBHD 305.
IF (ANY(SECBLOCK, "25 H"))BLK_25_H = 1.
* IF (ANY(SECBLOCK, "25 005"))BLK_25_005 = 1.
* IF (ANY(SECBLOCK, "25 006"))BLK_25_006 = 1.
* IF (ANY(SECBLOCK, "25 020"))BLK_25_020 = 1.
IF (ANY(SECBLOCK, "25 021"))BLK_25_021 = 1.
IF (ANY(SECBLOCK, "25 026"))BLK_25_026 = 1.

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IF (ANY(SECBLOCK,"25 059"))BLK_25_059 = 1.

*NHBD 306.
 * IF (ANY(SECBLOCK,"25 036"))BLK_25_036 = 1.
IF (ANY(SECBLOCK,"25 058"))BLK_25_058 = 1.
IF (ANY(SECBLOCK,"25 C01"))BLK_25_C01 = 1.

*NHBD 311.
IF (ANY(SECBLOCK,"49 104"))BLK_49_104 = 1.

*NHBD 313.
IF (ANY(SECBLOCK,"49 284"))BLK_49_284 = 1.

*NHBD 314.
 * IF (ANY(SECBLOCK,"49 263"))BLK_49_263 = 1.

*NHBD 316.
IF (ANY(SECBLOCK,"48 130"))BLK_48_130 = 1.
IF (ANY(SECBLOCK,"48 252"))BLK_48_252 = 1.
IF (ANY(SECBLOCK,"49 277"))BLK_49_277 = 1.
RECODE BLK_09_202 TO BLK_49_277 (SYSMIS = 0).
FORMATS BLK_09_202 TO BLK_49_277 (F1.0).

*****.
*COST CONSTRAINTS.
COMPUTE ExtraImpsCost = SUM(RCNVAL2, RCNVAL3).
 * IF(ExtraImpsCost GT 0)LN_ExtraImpsCost = LN(ExtraImpsCost).
 * RECODE LN_ExtraImpsCost (SYSMIS = 0).

COMPUTE Cabin_OfficeStudioCost = SUM(Cabin_ADJRCNLD, OfficeStudio_ADJRCNLD).
COMPUTE UtilityCost = SUM(UtilityBldgRCNLD, UtilShed_ADJRCNLD).
COMPUTE AGCost = SUM(AGBldgs_ADJRCNLD, Barn_ADJRCNLD).
COMPUTE GreenhouseCost = SUM(GreenhouseRCNLD, Greenhouse_ADJRCNLD).
COMPUTE PoolCost = SUM(PoolVinylRCNLD, PoolConcRCNLD, PoolFbgl_ADJRCNLD,
PoolGuni_ADJRCNLD, PoolVinyl_ADJRCNLD, SpaJacuzzi_ADJRCNLD).
IF(PoolCost GT 0)LN_PoolCost = LN(PoolCost).
RECODE LN_PoolCost (SYSMIS = 0).

COMPUTE EnclPoolCost = SUM(EnclPoolLowRCNLD, EnclPoolHighRCNLD,
PoolEnclosure_ADJRCNLD, BathHouse_ADJRCNLD).
COMPUTE WallCost = SUM(Fence_ADJRCNLD, MasonryWall_ADJRCNLD, Paving_ADJRCNLD).
COMPUTE MiscImpCost = SUM(ElevatorRCNLD, TennisCourt_ADJRCNLD, Cellar_ADJRCNLD,
MiscAddnRCNLD).
COMPUTE MiscWaterImpCost = SUM(BoatDock_ADJRCNLD, BoatHouseEnclosed_ADJRCNLD,
BoatHouseOpen_ADJRCNLD, BoatSlip_ADJRCNLD, Bulkhead_ADJRCNLD, Seawall_ADJRCNLD).
COMPUTE MiscCoverCost = SUM(Canopy_ADJRCNLD, Gazebo_ADJRCNLD).

COMPUTE COST_RCNLDX_P = SUM(Cabin_OfficeStudioCost_P, AGCost_P, EnclPoolCost_P,
WallCost_P, MiscImpCost_P, MiscWaterImpCost_P, MiscCoverCost_P).
COMPUTE COST_RCNLDX = SUM(Cabin_OfficeStudioCost, AGCost, EnclPoolCost, WallCost,
MiscImpCost, MiscWaterImpCost, MiscCoverCost).
RECODE COST_RCNLDX (SYSMIS = 0).
FORMATS ExtraImpsCost Cabin_OfficeStudioCost UtilityCost AGCost GreenhouseCost
PoolCost
EnclPoolCost WallCost MiscImpCost MiscWaterImpCost MiscCoverCost COST_RCNLDX
COST_RCNLDX_P (COMMA10.0).

TEMPORARY.
SELECT IF(COST_RCNLDX GT 0).
DESCRIPTIVES COST_RCNLDX COST_RCNLDX_P .

*****PREDICTION*****.

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DO IF( PARCEL_TYPE EQ 'S').
  * COMPUTE ADJPRICE = SOLDPRICE.
  COMPUTE ADJPRICE = TASP.
END IF.

*****.
* LAND VALUE.

COMPUTE PCT_GOOD_ADJ = EXP(      +          .254776621599737 * LN_PCT_GOOD).
COMPUTE LOC_ADJ = EXP(      +          -.018715063867871 * LOC_AbutstoFireStationX
+          -.045079341757231 * LOC_CommercialorIndustrialX
+          -.061721552262106 * LIRRX
+          -.054093861166578 * LOC_Cemetery
+          -.069257885756528 * LOC_Noise
+          -.021762652894327 * LOC_MajorHighwayX).
COMPUTE FRONTING_ADJ = EXP(      +          -.034427334132428 *
FR_MajorStripSecondaryArtery
+          -.036660409877746 * FR_SecondaryStreetX).
COMPUTE TRAFFIC_ADJ = EXP(      +          -.027921949944765 * TrafficMediumX
+          -.059744254616398 * TrafficHeavyX).

COMPUTE SITEADJ = LOC_ADJ * FRONTING_ADJ * TRAFFIC_ADJ .
COMPUTE SUM_Acres = SUMLAND / 43560.

* COMPUTE TEMP1 = ESP_ECON * .50.

* AGGREGATE
/OUTFILE = * MODEL=ADDVARIABLES
/BREAK = NBHD
/BaseValue = MEDIAN(TEMP1)
/LandSqftMedian = median(SUMLAND).

COMPUTE BaseValue = 300000.
IF(NBHD EQ 2)BaseValue = 280409.47927528200.
IF(NBHD EQ 3)BaseValue = 299936.90463244200.
IF(NBHD EQ 4)BaseValue = 337056.50550806000.
IF(NBHD EQ 5)BaseValue = 297991.18556758500.
IF(NBHD EQ 6)BaseValue = 323642.84616117300.
IF(NBHD EQ 7)BaseValue = 340789.66854261500.
IF(NBHD EQ 8)BaseValue = 308605.33350230200.
IF(NBHD EQ 9)BaseValue = 321395.4959200671.
IF(NBHD EQ 10)BaseValue = 285329.67341709000.
IF(NBHD EQ 11)BaseValue = 305739.33660470500.
IF(NBHD EQ 12)BaseValue = 287217.18867068900.
IF(NBHD EQ 13)BaseValue = 296636.55642846400.
IF(NBHD EQ 14)BaseValue = 319501.59957123900.
IF(NBHD EQ 15)BaseValue = 298701.07948610100.
IF(NBHD EQ 16)BaseValue = 285431.46173702600.
IF(NBHD EQ 24)BaseValue = 335282.27716646800.
IF(NBHD EQ 25)BaseValue = 286454.11851852100.
IF(NBHD EQ 26)BaseValue = 346682.65319344600.
IF(NBHD EQ 27)BaseValue = 331401.75579384400.
IF(NBHD EQ 28)BaseValue = 233994.48221697100.
IF(NBHD EQ 29)BaseValue = 265187.56525218900.
IF(NBHD EQ 30)BaseValue = 319080.57829507700.
IF(NBHD EQ 31)BaseValue = 304723.01810828100.
IF(NBHD EQ 32)BaseValue = 295870.59670770700.
IF(NBHD EQ 33)BaseValue = 330668.58797798500.
IF(NBHD EQ 35)BaseValue = 285853.50515663500.
IF(NBHD EQ 37)BaseValue = 248482.85677110800.
IF(NBHD EQ 39)BaseValue = 227657.32620863300.

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IF(NBHD EQ 47)Basevalue = 221325.05660694200.  
IF(NBHD EQ 65)BaseValue = 247473.45024772900.  
IF(NBHD EQ 66)BaseValue = 252880.45357776100.  
IF(NBHD EQ 67)Basevalue = 355568.32566287100.  
IF(NBHD EQ 68)Basevalue = 495409.73564695600.  
IF(NBHD EQ 69)Basevalue = 349866.80274760800.  
IF(NBHD EQ 78)Basevalue = 300167.16249857800.  
IF(NBHD EQ 79)Basevalue = 282966.21540445200.  
IF(NBHD EQ 80)Basevalue = 270235.31466936000.  
IF(NBHD EQ 81)Basevalue = 264102.30106381400.  
IF(NBHD EQ 97)Basevalue = 243057.17786015500.  
IF(NBHD EQ 98)Basevalue = 365323.41207526000.  
IF(NBHD EQ 99)Basevalue = 306660.01630739200.  
IF(NBHD EQ 100)BaseValue = 287730.63704015300.  
IF(NBHD EQ 101)Basevalue = 330903.40412435500.  
IF(NBHD EQ 109)Basevalue = 210988.96355675300.  
IF(NBHD EQ 110)Basevalue = 207959.88038267900.  
IF(NBHD EQ 111)BaseValue = 210837.45097785800.  
IF(NBHD EQ 112)Basevalue = 239119.95406409100.  
IF(NBHD EQ 113)BaseValue = 239554.15518971100.  
IF(NBHD EQ 135)Basevalue = 255370.53765524600.  
IF(NBHD EQ 136)Basevalue = 265407.71338805800.  
IF(NBHD EQ 137)BaseValue = 262196.55148904300.  
IF(NBHD EQ 138)Basevalue = 254364.70157742800.  
IF(NBHD EQ 139)Basevalue = 284368.03977938000.  
IF(NBHD EQ 140)BaseValue = 256954.36126033500.  
IF(NBHD EQ 145)Basevalue = 301110.90200314700.  
IF(NBHD EQ 146)BaseValue = 316356.20007191900.  
IF(NBHD EQ 147)Basevalue = 322969.00937174000.  
IF(NBHD EQ 148)Basevalue = 478497.43586990800.  
IF(NBHD EQ 149)Basevalue = 272482.59922870100.  
IF(NBHD EQ 150)BaseValue = 221340.44126552200.  
IF(NBHD EQ 151)BaseValue = 219567.00440961200.  
IF(NBHD EQ 152)Basevalue = 219344.81241653800.  
IF(NBHD EQ 153)Basevalue = 228312.77279352700.  
IF(NBHD EQ 154)BaseValue = 221273.58287884800.  
IF(NBHD EQ 176)Basevalue = 239401.57706697400.  
IF(NBHD EQ 177)BaseValue = 249644.50127730500.  
IF(NBHD EQ 178)Basevalue = 248334.48251580400.  
IF(NBHD EQ 179)Basevalue = 253092.41430525300.  
IF(NBHD EQ 180)BaseValue = 239891.09664926400.  
IF(NBHD EQ 181)Basevalue = 274533.42059125700.  
IF(NBHD EQ 182)BaseValue = 264899.45413221600.  
IF(NBHD EQ 183)Basevalue = 260872.56430529300.  
IF(NBHD EQ 184)BaseValue = 247766.30469365200.  
IF(NBHD EQ 185)BaseValue = 211929.50008604600.  
IF(NBHD EQ 186)Basevalue = 288986.84528503300.  
IF(NBHD EQ 266)BaseValue = 252670.40869100800.  
IF(NBHD EQ 267)Basevalue = 199666.70663421700.  
IF(NBHD EQ 268)Basevalue = 254830.93776785900.  
IF(NBHD EQ 269)Basevalue = 245567.59552121400.  
IF(NBHD EQ 270)BaseValue = 324277.73670310600.  
IF(NBHD EQ 271)Basevalue = 262366.87596583900.  
IF(NBHD EQ 272)BaseValue = 325248.02992264500.  
IF(NBHD EQ 273)Basevalue = 233211.88763737700.  
IF(NBHD EQ 274)Basevalue = 253707.11233259900.  
IF(NBHD EQ 275)Basevalue = 200751.63885695800.  
IF(NBHD EQ 276)Basevalue = 232614.12035449000.  
IF(NBHD EQ 277)BaseValue = 181017.85311376300.  
IF(NBHD EQ 299)Basevalue = 352734.25999841400.  
IF(NBHD EQ 300)BaseValue = 473626.10392119500.  
IF(NBHD EQ 301)Basevalue = 344177.74622055100.  
IF(NBHD EQ 302)Basevalue = 348001.83389966000.

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IF(NBHD EQ 303)BaseValue = 560452.40931873500.  
IF(NBHD EQ 304)BaseValue = 342297.59402683000.  
IF(NBHD EQ 305)BaseValue = 416830.57401902800.  
IF(NBHD EQ 306)BaseValue = 600856.91362422500.  
IF(NBHD EQ 308)BaseValue = 298038.28518011600.  
IF(NBHD EQ 309)BaseValue = 243442.56300542400.  
IF(NBHD EQ 310)BaseValue = 308431.72048522000.  
IF(NBHD EQ 311)BaseValue = 224179.22462166100.  
IF(NBHD EQ 312)BaseValue = 226104.83810315700.  
IF(NBHD EQ 313)BaseValue = 328738.17490728500.  
IF(NBHD EQ 314)BaseValue = 240109.63708811200.  
IF(NBHD EQ 315)BaseValue = 286125.64825374900.  
IF(NBHD EQ 316)BaseValue = 223194.67021303300.
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COMPUTE LandSqftMedian = 7500.  
IF(NBHD EQ 2)LandSqftMedian = 4000.00.  
IF(NBHD EQ 3)LandSqftMedian = 5000.00.  
IF(NBHD EQ 4)LandSqftMedian = 6500.00.  
IF(NBHD EQ 5)LandSqftMedian = 4600.00.  
IF(NBHD EQ 6)LandSqftMedian = 4000.00.  
IF(NBHD EQ 7)LandSqftMedian = 5000.00.  
IF(NBHD EQ 8)LandSqftMedian = 6050.00.  
IF(NBHD EQ 9)LandSqftMedian = 5000.00.  
IF(NBHD EQ 10)LandSqftMedian = 6000.00.  
IF(NBHD EQ 11)LandSqftMedian = 4000.00.  
IF(NBHD EQ 12)LandSqftMedian = 5000.00.  
IF(NBHD EQ 13)LandSqftMedian = 5000.00.  
IF(NBHD EQ 14)LandSqftMedian = 6000.00.  
IF(NBHD EQ 15)LandSqftMedian = 5000.00.  
IF(NBHD EQ 16)LandSqftMedian = 5000.00.  
IF(NBHD EQ 24)LandSqftMedian = 8400.00.  
IF(NBHD EQ 25)LandSqftMedian = 6000.00.  
IF(NBHD EQ 26)LandSqftMedian = 10240.00.  
IF(NBHD EQ 27)LandSqftMedian = 7777.00.  
IF(NBHD EQ 28)LandSqftMedian = 4000.00.  
IF(NBHD EQ 29)LandSqftMedian = 5650.00.  
IF(NBHD EQ 30)LandSqftMedian = 5000.00.  
IF(NBHD EQ 31)LandSqftMedian = 5000.00.  
IF(NBHD EQ 32)LandSqftMedian = 4400.00.  
IF(NBHD EQ 33)LandSqftMedian = 5000.00.  
IF(NBHD EQ 35)LandSqftMedian = 7500.00.  
IF(NBHD EQ 37)LandSqftMedian = 6400.00.  
IF(NBHD EQ 39)LandSqftMedian = 6400.00.  
IF(NBHD EQ 47)LandSqftMedian = 6500.00.  
IF(NBHD EQ 65)LandSqftMedian = 6600.00.  
IF(NBHD EQ 66)LandSqftMedian = 7000.00.  
IF(NBHD EQ 67)LandSqftMedian = 6000.00.  
IF(NBHD EQ 68)LandSqftMedian = 9000.00.  
IF(NBHD EQ 69)LandSqftMedian = 6000.00.  
IF(NBHD EQ 78)LandSqftMedian = 5000.00.  
IF(NBHD EQ 79)LandSqftMedian = 5419.00.  
IF(NBHD EQ 80)LandSqftMedian = 6138.00.  
IF(NBHD EQ 81)LandSqftMedian = 5000.00.  
IF(NBHD EQ 97)LandSqftMedian = 2700.00.  
IF(NBHD EQ 98)LandSqftMedian = 5000.00.  
IF(NBHD EQ 99)LandSqftMedian = 4000.00.  
IF(NBHD EQ 100)LandSqftMedian = 4000.00.  
IF(NBHD EQ 101)LandSqftMedian = 4700.00.  
IF(NBHD EQ 109)LandSqftMedian = 6000.00.  
IF(NBHD EQ 110)LandSqftMedian = 6000.00.  
IF(NBHD EQ 111)LandSqftMedian = 6000.00.  
IF(NBHD EQ 112)LandSqftMedian = 6600.00.  
IF(NBHD EQ 113)LandSqftMedian = 6546.00.
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IF(NBHD EQ 135)LandSqftMedian = 6400.00.
IF(NBHD EQ 136)LandSqftMedian = 7040.00.
IF(NBHD EQ 137)LandSqftMedian = 6215.50.
IF(NBHD EQ 138)LandSqftMedian = 6674.00.
IF(NBHD EQ 139)LandSqftMedian = 6930.00.
IF(NBHD EQ 140)LandSqftMedian = 6300.00.
IF(NBHD EQ 145)LandSqftMedian = 7000.00.
IF(NBHD EQ 146)LandSqftMedian = 7290.00.
IF(NBHD EQ 147)LandSqftMedian = 9906.00.
IF(NBHD EQ 148)LandSqftMedian = 20000.00.
IF(NBHD EQ 149)LandSqftMedian = 4900.00.
IF(NBHD EQ 150)LandSqftMedian = 4872.00.
IF(NBHD EQ 151)LandSqftMedian = 5500.00.
IF(NBHD EQ 152)LandSqftMedian = 5000.00.
IF(NBHD EQ 153)LandSqftMedian = 6000.00.
IF(NBHD EQ 154)LandSqftMedian = 4500.00.
IF(NBHD EQ 176)LandSqftMedian = 6300.00.
IF(NBHD EQ 177)LandSqftMedian = 6300.00.
IF(NBHD EQ 178)LandSqftMedian = 6480.00.
IF(NBHD EQ 179)LandSqftMedian = 6074.50.
IF(NBHD EQ 180)LandSqftMedian = 6000.00.
IF(NBHD EQ 181)LandSqftMedian = 7630.00.
IF(NBHD EQ 182)LandSqftMedian = 6720.00.
IF(NBHD EQ 183)LandSqftMedian = 5600.00.
IF(NBHD EQ 184)LandSqftMedian = 5800.00.
IF(NBHD EQ 185)LandSqftMedian = 6000.00.
IF(NBHD EQ 186)LandSqftMedian = 7171.00.
IF(NBHD EQ 266)LandSqftMedian = 8000.00.
IF(NBHD EQ 267)LandSqftMedian = 6600.00.
IF(NBHD EQ 268)LandSqftMedian = 9200.00.
IF(NBHD EQ 269)LandSqftMedian = 10200.00.
IF(NBHD EQ 270)LandSqftMedian = 12598.50.
IF(NBHD EQ 271)LandSqftMedian = 8100.00.
IF(NBHD EQ 272)LandSqftMedian = 7676.00.
IF(NBHD EQ 273)LandSqftMedian = 7484.50.
IF(NBHD EQ 274)LandSqftMedian = 5462.00.
IF(NBHD EQ 275)LandSqftMedian = 6000.00.
IF(NBHD EQ 276)LandSqftMedian = 9500.00.
IF(NBHD EQ 277)LandSqftMedian = 6000.00.
IF(NBHD EQ 299)LandSqftMedian = 7161.00.
IF(NBHD EQ 300)LandSqftMedian = 10000.00.
IF(NBHD EQ 301)LandSqftMedian = 7698.00.
IF(NBHD EQ 302)LandSqftMedian = 7159.00.
IF(NBHD EQ 303)LandSqftMedian = 38768.00.
IF(NBHD EQ 304)LandSqftMedian = 7739.50.
IF(NBHD EQ 305)LandSqftMedian = 10368.00.
IF(NBHD EQ 306)LandSqftMedian = 43560.00.
IF(NBHD EQ 308)LandSqftMedian = 10010.00.
IF(NBHD EQ 309)LandSqftMedian = 7500.00.
IF(NBHD EQ 310)LandSqftMedian = 7266.00.
IF(NBHD EQ 311)LandSqftMedian = 7200.00.
IF(NBHD EQ 312)LandSqftMedian = 7500.00.
IF(NBHD EQ 313)LandSqftMedian = 9100.00.
IF(NBHD EQ 314)LandSqftMedian = 7000.00.
IF(NBHD EQ 315)LandSqftMedian = 8000.00.
IF(NBHD EQ 316)LandSqftMedian = 7000.00.
FORMATS BaseValue LandSqftMedian (comma10).
COMPUTE Base50Rate = BaseValue / LandSqftMedian**.50.

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\* IF(PARID EQ '14 E 08330')SUMLANDX = RND(SUMLAND \* .20). /\* check this now that factors were utilized.

COMPUTE IssueWgt = 1.

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IF(LandIssueSF_Sum GT 0)IssueWgt = (LandIssuePCTx * LandIssueSF) /
(LandIssuePCT_ECONx * LandIssueSF_Sum).
DESCRIPTIVES IssueWgt.

IF(LandIssueSF_Sum LT 1000 AND LandIssuePCT_ECONx GT .10)LandIssuePCT_ECONx = .10.
COMPUTE LandIssueValue_ECON = 0.
IF(LandIssueSF_Sum GT 0)LandIssueValue_ECON = (LandIssueSF_Sum**.50 * Base50Rate) *
LandIssuePCT_ECONx.
EXECUTE.

COMPUTE LandIssueValue = TRUNC((LandIssueValue_ECON * IssueWgt) / 100) * 100.
FORMATS LandIssueValue LandIssueValue_ECON (COMMA10.0).
EXECUTE.

IF(SUMLANDX GT 0)Allocated50LandValue_ECON = TRUNC(SUMLANDX**.50 * Base50Rate *
SITEADJ).
IF(SUMLANDX GT 0 AND Discount EQ 1)Allocated50Landvalue_ECON = TRUNC(SUMLANDX**.50 *
(Base50Rate * .20) * SITEADJ).
RECODE Allocated50LandValue_ECON (SYSMIS = 0).
FORMATS Allocated50LandValue_ECON (COMMA10.0).
EXECUTE.

DO IF(SUMLANDX GT 0).
COMPUTE PCT_LAND = RND(LANDSQFTx / SUMLANDX * 100)/ 100.
END IF.
IF(PARCEL_TYPE EQ 'S')PCT_LAND = 1.
IF(SUMLANDX EQ 0)PCT_LAND = 1.
IF(LANDSQFTx NE SUMLANDX AND PCT_LAND LT .005 AND LANDSQFTx GT 100)PCT_LAND = .005.
FORMATS PCT_LAND (F5.3).

COMPUTE TMPLAND = (Allocated50Landvalue_ECON * PCT_LAND) .
IF(TMPLAND GE 100000)ESP_LAND = TRUNC(TMPLAND / 1000) * 1000.
IF(TMPLAND LT 100000)ESP_LAND = TRUNC(TMPLAND / 100) * 100.
* IF(ESP_LAND LT 1000)ESP_LAND = 1000.

COMPUTE TOTAL_LAND_ECON = Allocated50Landvalue_ECON + LandIssueValue_ECON.

COMPUTE LAND_TOTAL = ESP_LAND + LandIssueValue.
IF(LAND_TOTAL LT 500)LAND_TOTAL = 500.
FORMATS ESP_LAND LandIssueValue LAND_TOTAL TOTAL_LAND_ECON (COMMA10.0).

DESCRIPTIVES TMPLAND ESP_LAND LandIssueValue LAND_TOTAL TOTAL_LAND_ECON.

*****
*based on review by Russ removing adjustment.
*      +      .302373046266048 * BLK_13_080.
*      +      .250214236453598 * NBHD_68_B.
*      +      .011626258875872 * Gas.
*      +      .152775022699630 * BLK_08_21104 - By Russ.
*      +      .104228589880716 * BLK_09_571 - By Russ.
*      +      .062589954416726 * BLK_11_292 - By Russ - Removed.
*      +      .095219478304933 * BLK_11_370 - By Russ - Removed.
*      +      .288011376366888 * BLK_11_395 - By Russ.
*      +      .129590608780371 * BLK_13_072 - By Russ.
*      +      .204723625157664 * BLK_13_090 - By Russ.
*      +      .180568792673897 * BLK_13_093 - By Russ.
*      +      .112061617614138 * BLK_15_075 - By Russ.
*      +      .114662556628913 * BLK_15_101 - By Russ.
*      +      .130365201893420 * BLK_15_105 - By Russ.
*      +      .108246512594421 * BLK_15_176 - By Russ.
*      +      .074078627175084 * BLK_37_003 - By Russ.
*      +      .075634347841262 * BLK_45_129 - By Russ.

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*      +
*      +   .111485911764621 * BLK_45_313 - By Russ.
*      +   .072339630273440 * BLK_45_316 - By Russ.
*      +   .075820875259793 * BLK_45_342 - By Russ.
*      +   .074996715453179 * BLK_52_392 - By Russ.

DO IF(SFLA_ECON GT 0).
COMPUTE ESP_ECON = EXP(12.662879159960490
+   .076562859162903 * LN_LANDSQFT
+   .292449265454535 * LN_SQFTXRATIO1
+   .467466120723128 * LN_SQFTXRATIO2
+   -.025007812210321 * LN_UPPERSF_RATIO
+   -.049872547429284 * LN_AtticSF_RATIO
+   .108306521151187 * LN_LIN_BSMTX_Ratio
+   .061324341559497 * LN_RECBSMTX_RATIO
+   -.067843162571054 * BSMT_None
+   .254776621599737 * LN_PCT_GOOD
+   .006337289536376 * LNFirereplacex
+   .050210370185303 * LNFIXTOT
+   .048607842781205 * LN_AttBltGar_RATIO
+   .033004696536875 * LN_LinDetGarCarport_RATIO
+   .006633466040835 * LN_GarageDetachedPctGood
+   .005620843671427 * LN_ShedX_RATIO
+   .030017613525585 * LN_TerraceX_RATIO
+   .003989167397297 * LN_PatioX_RATIO
+   .011307800907702 * LN_LINPORCH_RATIO
+   .009350511191637 * LN_WoodDeckX_RATIO
+   .039789382061417 * LN_PoolX_RATIO
+   -.044609415584419 * ST_Ranch
+   -.017570255955322 * ST_RaisedRanch_HiRanch
+   .013867417150108 * ST_SplitLevel
+   -.022040664625376 * ST_ModifiedRanch
+   .045429226363356 * ST_Cape
+   .045623695355278 * ST_Contemporary
+   -.035716394073024 * ST_Oldstyle
+   -.028858358006144 * ST_Bungalowcottage
+   .072083312132535 * ST_DuplexOrTriplex
+   -.127857054817860 * ST_Townhouse
+   -.048624262811446 * OneFamilyWApt
+   -.029322769165447 * TwoFamily
+   .068500490914647 * MultiRes
+   -.101340178765985 * QualEMinusQualD
+   -.079160301092442 * QualDPlus
+   -.028360564012037 * QualCMinus
+   .038868239220969 * QualCPlus
+   .047868408954536 * QualBMinusQualB
+   .093035669284852 * QualBPlusQualA
+   .262500956822245 * QualAPlusQualSPlus
+   -.010558933843726 * EXT_Frame
+   .012321408848313 * EXT_BrickStoneMasonryLog
+   .005490275399623 * EXT_MasFrame
+   .027918124371293 * EXT_Stucco
+   -.016274945119104 * EXT_Composition
+   -.056493821660563 * HtSysElectricSolar
+   .047888823130939 * HtSysCentralWithAC
+   -.005406502902452 * HtSysHotAirX
+   -.018715063867871 * LOC_AbuttsFireStationX
+   -.045079341757231 * LOC_CommercialOrIndustrialX
+   -.061721552262106 * LIRRX
+   -.054093861166578 * LOC_Cemetery
+   -.069257885756528 * LOC_Noise
+   -.034427334132428 * FR_MajorStripSecondaryArtery
+   -.036660409877746 * FR_SecondaryStreetX
+   -.027921949944765 * TrafficMediumX

```

Market 2 2021 Prediction Prognose.sps  
 + .059744254616398 \* TrafficHeavyX  
 + -.021762652894327 \* LOC\_MajorHighwayX  
 + .213429489710483 \* NBHD2  
 + .226497083236234 \* NBHD3  
 + .248781751161507 \* NBHD4  
 + .197161484438914 \* NBHD5  
 + .290114994458902 \* NBHD6  
 + .264354631399093 \* NBHD7  
 + .201438184821366 \* NBHD8  
 + .26 \* NBHD9  
 + .177366443589575 \* NBHD10  
 + .223276130559499 \* NBHD11  
 + .198756050231368 \* NBHD12  
 + .173571096815673 \* NBHD13  
 + .225647085727736 \* NBHD14  
 + .220092239413071 \* NBHD15  
 + .191327668732611 \* NBHD16  
 + .141044777784471 \* NBHD24  
 + .134530984800162 \* NBHD25  
 + .163877707349145 \* NBHD26  
 + .174312985876121 \* NBHD27  
 + .054094267141305 \* NBHD28  
 + .107888247071328 \* NBHD29  
 + .217691322603114 \* NBHD30  
 + .208419023680985 \* NBHD31  
 + .163603209999926 \* NBHD32  
 + .272631620602868 \* NBHD33  
 + .025066228792968 \* NBHD35  
 - .040457249901967 \* NBHD39  
 + .055967484772696 \* NBHD47  
 + .044865719434980 \* NBHD65  
 + -.023121876204978 \* NBHD66  
 + .277136012543965 \* NBHD67  
 + .336807848226295 \* NBHD68  
 + .259998657596685 \* NBHD69  
 + .092426836321354 \* NBHD78  
 + .038415961284352 \* NBHD79  
 + .113765948349666 \* NBHD97  
 + .267870943191971 \* NBHD98  
 + .225115612668714 \* NBHD99  
 + .179806741912576 \* NBHD100  
 + .257221733639235 \* NBHD101  
 - .075968678911380 \* NBHD109  
 + .075719745421231 \* NBHD110  
 + .069958556906658 \* NBHD111  
 + .042881353011029 \* NBHD112  
 - .023520881264273 \* NBHD113  
 + .038559525775178 \* NBHD135  
 + .035828325940030 \* NBHD136  
 + .050105163659654 \* NBHD137  
 + .028789564823637 \* NBHD138  
 + .082394549455811 \* NBHD139  
 + .048254501981812 \* NBHD140  
 + .070742095178862 \* NBHD145  
 + .097515300790117 \* NBHD146  
 + .093916188446527 \* NBHD147  
 + .136834532889621 \* NBHD148  
 + .092903120152660 \* NBHD149  
 + -.183961355272654 \* NBHD150  
 + -.103314028293670 \* NBHD151  
 + -.049915700269138 \* NBHD152  
 + -.061762137899133 \* NBHD153  
 + -.033814692975825 \* NBHD154

Market 2 2021 Prediction Prognose.sps  
 + .013944158007754 \* NBHD176  
 + .029745951808905 \* NBHD177  
 + .032253259470708 \* NBHD178  
 + .037689354602415 \* NBHD180  
 - .095929976410925 \* NBHD181  
 + .020067238669292 \* NBHD182  
 + -.042103743766879 \* NBHD183  
 + -.051909785403697 \* NBHD184  
 + -.133970976706709 \* NBHD185  
 + .030949659198962 \* NBHD186  
 + -.167241093260837 \* NBHD266  
 + .165311703007593 \* NBHD267  
 + .175179180316405 \* NBHD268  
 + .213787663834267 \* NBHD269  
 + -.174388223717689 \* NBHD271  
 + .138712352780665 \* NBHD272  
 + .073532505038840 \* NBHD273  
 + .225650264918242 \* NBHD275  
 + -.203899821705929 \* NBHD276  
 + .280838644368528 \* NBHD277  
 + .247261252539172 \* NBHD299  
 + .368958123710177 \* NBHD300  
 + .124140784030302 \* NBHD301  
 + .187839432654556 \* NBHD302  
 + .212933445410373 \* NBHD303  
 + .162586469315093 \* NBHD304  
 + .280961057343051 \* NBHD305  
 + .278067795004226 \* NBHD306  
 + -.109446400444350 \* NBHD310  
 + -.121233668087063 \* NBHD311  
 + -.100044207125276 \* NBHD312  
 + -.057717245883188 \* NBHD313  
 + -.095597445733610 \* NBHD314  
 + -.112404938469842 \* NBHD316  
 + .176030086729608 \* VillageCodeFPS  
 + .147722184584904 \* VillageCodeSM  
 + -.096158148300390 \* BLK\_09\_202  
 + -.110466111938828 \* BLK\_09\_324  
 + .074933081741873 \* BLK\_07\_229  
 + .078130426303007 \* BLK\_07\_311  
 + -.053796715534232 \* BLK\_09\_094  
 + -.070185361244535 \* NBHD\_11\_A  
 + -.066277305309258 \* BLK\_09\_307  
 + -.066143755329517 \* BLK\_09\_290  
 + -.088911078277365 \* NBHD\_16\_Sub  
 + .083397508242947 \* NBHD\_29\_A  
 + .098183588948085 \* BLK\_32\_098  
 + .085130629855839 \* BLK\_33\_192  
 + -.083728787005279 \* BLK\_08\_014  
 + -.105514625149164 \* BLK\_08\_018  
 + -.099520490165338 \* BLK\_08\_029  
 + 0.1222 \* BLK\_08\_21104  
 + .080430516939243 \* BLK\_08\_323  
 + -.064600869959382 \* BLK\_08\_333  
 + -.089539478013317 \* BLK\_08\_336  
 + .148089595673389 \* BLK\_46\_592  
 + .060979907538454 \* BLK\_46\_014  
 + .087814337169410 \* BLK\_46\_043  
 + .112661104092591 \* BLK\_46\_339  
 + .106882480417865 \* BLK\_46\_538  
 + .139055430540835 \* BLK\_51\_214  
 + .058878221941122 \* BLK\_51\_394  
 + .050987130806999 \* BLK\_46\_437

Market 2 2021 Prediction Prognose.sps  
 + .035337429397673 \* BLK\_46\_451  
 + -.074308880373170 \* BLK\_49\_177  
 + .092374837590581 \* BLK\_52\_046  
 + .054995867499497 \* BLK\_52\_047  
 + .085235737737368 \* BLK\_52\_183  
 + -.072861151563160 \* BLK\_52\_346  
 + .07 \* BLK\_52\_392  
 + .081817954839382 \* BLK\_52\_403  
 + .058533786647353 \* BLK\_52\_471  
 + 0.04879 \* BLK\_09\_571  
 + .060743687270116 \* NBHD\_67\_A  
 + .078162735650943 \* BLK\_09\_629  
 + -.083094917836797 \* BLK\_09\_639  
 + -.134168650074142 \* NBHD\_68\_A  
 + -.109518615078998 \* BLK\_07\_268  
 + .092565795217375 \* BLK\_09\_649  
 + -.079265252349151 \* NBHD\_70\_A  
 + -.077658569823886 \* BLK\_33\_464  
 + .052630166205242 \* NBHD\_79\_A  
 + .100616892971613 \* BLK\_35\_199  
 + .098095340443451 \* BLK\_32\_011  
 + .075535582253929 \* BLK\_32\_043  
 + -.178518784224018 \* BLK\_08\_079  
 + .114330247676023 \* BLK\_32\_192  
 + .075638913086960 \* BLK\_32\_233  
 + .076910875004155 \* BLK\_32\_235  
 + -.154628972168080 \* BLK\_32\_329  
 + -.096156735370215 \* NBHD\_101\_Raff  
 + .062543631240179 \* BLK\_45\_129  
 + -.081169603412665 \* BLK\_45\_154  
 + .062543631240179 \* BLK\_45\_240  
 + .098 \* BLK\_45\_313  
 + .062543631240179 \* BLK\_45\_316  
 + .102208267710153 \* BLK\_51\_141  
 + .046758257329682 \* BLK\_51\_224  
 + .051205040403263 \* BLK\_51\_246  
 + .011740704851618 \* BLK\_51\_396  
 + .079440571145527 \* BLK\_51\_474  
 + .066920639123465 \* BLK\_51\_501  
 + -.063717108582304 \* BLK\_52\_431  
 + .078598879824251 \* BLK\_51\_286  
 + -.147591747325279 \* BLK\_51\_374  
 + .098131009829291 \* BLK\_51\_405  
 + -.079339437641919 \* BLK\_52\_395  
 + -.100194598209385 \* BLK\_45\_400  
 + -.091789428921437 \* BLK\_45\_402  
 + .080553573107435 \* BLK\_45\_405  
 + .095256401492163 \* BLK\_45\_446  
 + .056187915774340 \* BLK\_45\_451  
 + .089383232908086 \* BLK\_45\_460  
 + .082789623925697 \* BLK\_45\_517  
 + .071741303075437 \* BLK\_45\_526  
 + .151552806425738 \* BLK\_45\_562  
 + .060505282434500 \* BLK\_45\_563  
 + .060505282434500 \* BLK\_45\_342  
 + -.099916653912742 \* BLK\_45\_473  
 + .073061780549206 \* BLK\_50\_153  
 + -.077525893361378 \* BLK\_50\_195  
 + -.068531877983201 \* BLK\_50\_227  
 + -.043297386743369 \* BLK\_50\_231  
 + .130400396961894 \* BLK\_50\_443  
 + .064751011774496 \* BLK\_50\_478  
 + .083823578244909 \* BLK\_50\_480

Market 2 2021 Prediction Prognose.sps

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STRING CostValue (A3).
COMPUTE CostValue = 'No'.
IF(Allocated50ImpValue_ECON LE 0)CostValue = 'Yes'.

COMPUTE IMP_COST_VALUE = TRUNC((RCNL_P + ExtraImpsCost_P + COST_RCNLDX_P) / 1000)
* 1000.
FORMATS IMP_COST_VALUE (COMMA10.0).

DO IF(SFLA_ECON GT 0).
COMPUTE PCT_IMP = RND(SFLA / SFLA_ECON * 100) / 100.
END IF.

COMPUTE ESP_IMP = TRUNC(Allocated50ImpValue_ECON * PCT_IMP * CompletePercent / 1000)
* 1000.
IF(Allocated50ImpValue_ECON LE 0)ESP_IMP = IMP_COST_VALUE * CompletePercent.
IF(SFLA_ECON EQ 0)ESP_IMP = IMP_COST_VALUE * CompletePercent.
COMPUTE ESP_TOTAL = LAND_TOTAL + ESP_IMP.
FORMATS LAND_TOTAL ESP_LAND ESP_IMP ESP_TOTAL (COMMA10.0).

COMPUTE UseCost = 0.
COMPUTE LandOverride = 0.
COMPUTE ImpOverride = 0.
FORMATS LandOverride ImpOverride (COMMA10.0).

* Market 2.

IF(PARID EQ '15 F 0034D')UseCost = 1.
IF(PARID EQ '13 B 03390')UseCost = 1.
IF(PARID EQ '15 F 0034D')LandOverride = TRUNC(300000 * Acres / 100) * 100.
IF(PARID EQ '13 B 03390')LandOverride = TRUNC(300000 * Acres / 100) * 100.
IF(PARID EQ '10064 50830')UseCost = 1.
IF(PARID EQ '10098 00660')UseCost = 1.
* IF(PARID EQ '25 C0111180')UseCost = 1.
IF(PARID EQ '10098 00660')UseCost = 1.
IF(PARID EQ '10064 50830')UseCost = 1.
IF(PARID EQ '13 B 03390')UseCost = 1.
IF(PARID EQ '15 F 0034D')UseCost = 1.
IF(PARID EQ '13 B 03390')LandOverride = TRUNC(300000 * Acres / 100) * 100.
IF(PARID EQ '15 F 0034D')LandOverride = TRUNC(300000 * Acres / 100) * 100.
IF(PARID EQ '13 B 02980')LandOverride = 7500000.

IF(UseCost EQ 1)CostValue = 'Yes'.

IF(LandOverride GT 0)LAND_TOTAL = TRUNC(LandOverride * PCT_LAND / 1000) * 1000.
IF(ImpOverride GT 0)ESP_IMP = TRUNC(ImpOverride * PCT_IMP * CompletePercent / 1000)
* 1000.
IF(UseCost EQ 1)ESP_IMP = IMP_COST_VALUE * CompletePercent.
COMPUTE ESP_TOTAL = LAND_TOTAL + ESP_IMP.
FORMATS LAND_TOTAL ESP_LAND ESP_IMP ESP_TOTAL (COMMA10.0).

STRING QUAL_Text (A2).
RECODE QUAL (1 = 'E-')(2 = 'E')(3 = 'E+')(4 = 'D-')(5 = 'D')(6 = 'D+')(7 = 'C-')(8 =
'C')(9 = 'C+')
(10 = 'B-')(11 = 'B')(12 = 'B+')(13 = 'A-')(14 = 'A')(15 = 'A+')(16 = 'X-')(17 =
'X')(18 = 'X+')
(19 = 'S-')(20 = 'S')(21 = 'S+')(22 = 'Z-')(23 = 'Z')(24 = 'Z+') INTO
QUAL_Text.

STRING CDU_Text (A10).
RECODE CDU (1 = 'Unsound')(2 = 'Very Poor')(3 = 'Poor')(4 = 'Fair')(5 = 'Average')
(6 = 'Good')(7 = 'Very Good')(8 = 'Excellent') INTO CDU_Text.

STRING Style_Text (A25).

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Market 2 2021 Prediction Prognose.sps

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RECODE Style (1 = 'Ranch')(2 = 'Raised Ranch/Hi Ranch')(3 = 'Split Level')(4 =
'Modified Ranch')(5 = 'Cape')
  (6 = 'Colonial')(7 = 'Victorian')(8 = 'Contemporary')(9 = 'Old Style')(10 =
'Bungalow, Cottage')(11 = 'Duplex, Triplex')
  (12 = 'Mansion, Estate')(13 = 'Townhouse')(14 = 'Condo')(16 = 'Homeowner
Assoc')(17 = 'Other')(18 = 'Splash')
  (19 = 'Carriage House')(20 = 'Tudor')(22 = '22') INTO Style_Text.

* codebook luc.
string LUC_Text (A20).
IF (ANY(LUC, "2100", "2101", "2102", "2150", "2500")) LUC_Text = 'One Family'.
IF (LUC EQ "2200") LUC_Text = 'Two Family'.
IF (LUC EQ "2300") LUC_Text = 'Three Family'.
IF (LUC EQ "2800") LUC_Text = 'Multi Residential'.
IF (LUC_NUM GE 3000 AND LUC_NUM LT 4000) LUC_Text = 'Vacant Land'.
IF (LUC EQ "4830") LUC_Text = 'Converted Residence'.
IF (LUC_NUM GE 6000) LUC_Text = 'Exempt'.
* alter type LUC_Text (amin).

* codebook extwall.
string EXTWALL_Text (A20).
IF (EXTWALL EQ 1) EXTWALL_Text = 'Frame'.
IF (EXTWALL EQ 2) EXTWALL_Text = 'Brick'.
IF (EXTWALL EQ 3) EXTWALL_Text = 'Mas/Frame'.
IF (EXTWALL EQ 4) EXTWALL_Text = 'Conc Blk'.
IF (EXTWALL EQ 5) EXTWALL_Text = 'Stucco'.
IF (EXTWALL EQ 6) EXTWALL_Text = 'Alum/vinyl'.
IF (EXTWALL EQ 7) EXTWALL_Text = 'Stone'.
IF (EXTWALL EQ 8) EXTWALL_Text = 'Composition'.
IF (EXTWALL EQ 9) EXTWALL_Text = 'Masonry'.
IF (EXTWALL EQ 10) EXTWALL_Text = 'Log'.
IF (EXTWALL EQ 11) EXTWALL_Text = 'Cement Fiber'.
* alter type EXTWALL_Text (amin).

* codebook bsmt.
string Basement_Text (a20).
IF (BSMT EQ 0) Basement_Text = 'None'.
IF (BSMT EQ 1) Basement_Text = '1/4 Bsmt/Slab'.
IF (BSMT EQ 2) Basement_Text = '1/2 Bsmt/Crawl'.
IF (BSMT EQ 3) Basement_Text = '3/4 Bsmt'.
IF (BSMT EQ 4) Basement_Text = 'Full'.
* alter type Basement_Text (amin).

* codebook heat.
string Heat_Text (a10).
IF (HEAT EQ 0) Heat_Text = 'N/A'.
IF (HEAT EQ 1) Heat_Text = 'None'.
IF (HEAT EQ 2) Heat_Text = 'Non-Cntrl'.
IF (HEAT EQ 3) Heat_Text = 'Cntrl Ht'.
IF (HEAT EQ 4) Heat_Text = 'Cntrl HtAC'.
* alter type Heat_Text (amin).

* codebook fuel.
string Fuel_Text (a15).
IF (FUEL EQ 0) Fuel_Text = 'N/A'.
IF (FUEL EQ 1) Fuel_Text = 'Oil'.
IF (FUEL EQ 2) Fuel_Text = 'Coal Stk'.
IF (FUEL EQ 3) Fuel_Text = 'Gas'.
IF (FUEL EQ 4) Fuel_Text = 'Coal Hnd'.
IF (FUEL EQ 5) Fuel_Text = 'Solar'.
IF (FUEL EQ 6) Fuel_Text = 'Elec'.
IF (FUEL EQ 7) Fuel_Text = 'Other'.
IF (FUEL EQ 8) Fuel_Text = 'Geothermal'.

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Market 2 2021 Prediction Prognose.sps

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* alter type Fuel_Text (amin).

* codebook heatsys.
string Heatsys_Text (a15).
IF (HEATSYS EQ 0) Heatsys_Text = 'N/A'.
IF (HEATSYS EQ 1) Heatsys_Text = 'Steam/Vapor'.
IF (HEATSYS EQ 2) Heatsys_Text = 'Hot Wtr'.
IF (HEATSYS EQ 3) Heatsys_Text = 'Elec/Solar'.
IF (HEATSYS EQ 4) Heatsys_Text = 'Forced Air'.
IF (HEATSYS EQ 5) Heatsys_Text = 'Central AC'.
IF (HEATSYS EQ 6) Heatsys_Text = 'N/A'.
IF (HEATSYS EQ 7) Heatsys_Text = 'Hot Air'.
IF (HEATSYS EQ 8) Heatsys_Text = 'Pipeless'.
IF (HEATSYS EQ 9) Heatsys_Text = 'None'.
* alter type Heatsys_Text (amin).
* EXECUTE.

FORMATS AttBltGar DETGARX CARPORTx (COMMA10.0).

STRING Parking_Text (A100).
IF (AttBltGar GT 0)Parking_Text =
CONCAT('Att-',LTRIM(RTRIM(STRING(AttBltGar,F10))))..
IF (DETGARx GT 0)Parking_Text =
CONCAT(LTRIM(RTRIM(Parking_Text)), '/', 'Det-',LTRIM(RTRIM(STRING(DETGARx,F10))))..
IF (CARPORTx GT 0)Parking_Text =
CONCAT(LTRIM(RTRIM(Parking_Text)), '/', 'Cpt-',LTRIM(RTRIM(STRING(CARPORTx,F10))))..
IF (CHAR.SUBSTR(Parking_Text,1,1) EQ '/')Parking_Text = CHAR.SUBSTR(Parking_Text,2).
ALTER TYPE Parking_Text (AMIN).

STRING Porch_Text (A100).
IF (OpenPorchX GT 0)Porch_Text = CONCAT('Op-',LTRIM(RTRIM(STRING(OpenPorchX,F10))))..
IF (EnclPorchX GT 0)Porch_Text =
CONCAT(LTRIM(RTRIM(Porch_Text)), '/', 'Ep-',LTRIM(RTRIM(STRING(EnclPorchX,F10))))..
IF (CHAR.SUBSTR(Porch_Text,1,1) EQ '/')Porch_Text = CHAR.SUBSTR(Porch_Text,2).
ALTER TYPE Parking_Text (AMIN).

STRING TerracePatio_Text (A100).
IF (TerraceX GT 0)TerracePatio_Text =
CONCAT('Ter-',LTRIM(RTRIM(STRING(TerraceX,F10))))..
IF (PatioX GT 0)TerracePatio_Text =
CONCAT(LTRIM(RTRIM(TerracePatio_Text)), '/', 'Pto-',LTRIM(RTRIM(STRING(PatioX,F10))))..
IF (CHAR.SUBSTR(TerracePatio_Text,1,1) EQ '/')TerracePatio_Text =
CHAR.SUBSTR(TerracePatio_Text,2).
ALTER TYPE Parking_Text (AMIN).

STRING YRBLT_Text (A12).
COMPUTE YRBLT_Text =
CONCAT(STRING(YRBLT,F4.0), '- ', LTRIM(STRING((PCT_GOOD_ADJ*100),F6.2)))..
EXECUTE.

STRING BATH_Text (A15).
COMPUTE BATH_Text =
CONCAT(LTRIM(RTRIM(STRING(FIXBATH,F4.0))), '- ', LTRIM(RTRIM(STRING(FIXHALF,F4.0))), '- ',
LTRIM(RTRIM(STRING(FIXTOT,F4.0)))).

COMPUTE MODEL = 1.
IF(ANY(NBHD, 149, 300, 301, 302, 303, 304, 305, 306, 113, 310, 136, 181, 312, 313,
315, 35, 37, 39, 47, 65, 66, 109, 110, 111, 112, 135, 137, 138, 139, 140,
145, 146, 147, 176, 177, 179, 180, 182, 308, 309, 311, 314,
316))MODEL = 2.
FORMATS MODEL (F1.0).
EXECUTE.

```

Market 2 2021 Prediction Prognose.sps  
SAVE OUTFILE !ModelData2 + 'PREDICTION.SAV'.

Market 3 2021 Prediction Prognose.sps

\* Encoding: UTF-8.

```
*****  
*****  
*****  
*****  
*****  
***** MARKET 3 REGRESSION  
ANALYSIS*****  
*****  
*****  
*****  
*****  
GET FILE= !ModelData3 + 'MARKET 3 RESIDENTIAL MASTER POPULATION WITH SALES FOR  
PROGNOSIS.sav'.  
DATASET NAME DataSet1.  
  
*****  
*.  
*****  
*.  
* COMPUTE OUT2 = OUT.  
  
* INSERT FILE = !Modelsyntax3 + 'Market 3 Outliers.sps'  
SYNTAX = INTERACTIVE  
ERROR = STOP.  
  
* DO IF(PARCEL_TYPE EQ 'S').  
* IF (OUT NE 0) VALIDITYCODE = 'Invalid'.  
* END IF.  
  
* SELECT IF(PARCEL_TYPE EQ 'P' OR PARCEL_TYPE EQ 'S' AND VALIDITYCODE EQ 'Valid').  
  
* RECODE PARCEL_TYPE ('P' = 1) (ELSE = 0) INTO FILTER_POP.  
* RECODE PARCEL_TYPE ('S' = 1) (ELSE = 0) INTO FILTER_SALE.  
  
DO IF(PARCEL_TYPE EQ 'P' AND SFLA_ECON GT 0).  
COMPUTE VPPSF = APRTOT / SFLA_ECON.  
END IF.  
  
DO IF(PARCEL_TYPE EQ 'S' AND SFLA_ECON GT 0).  
COMPUTE SPPSF = SOLDPRICE / SFLA_ECON.  
END IF.  
  
* FREQUENCIES VALIDITYCODE OUT.  
  
*****  
*.  
*****  
*.  
*****  
*.  
*****  
*.  
  
STRING NBHDGroup (A50).  
COMPUTE NBHDGroup = NBHD_LAbel.  
DO IF(NBHD GT 0 AND CHAR.INDEX(NBHD_LAbel,"-") GT 0).  
COMPUTE NBHDGroup = LTRIM(RTRIM(CHAR.SUBSTR(NBHD_LAbel,1,(CHAR.INDEX(NBHD_LAbel,"-")  
- 1)))).  
END IF.
```

```

Market 3 2021 Prediction Prognose.sps
DO IF(CHAR.INDEX(NBHD_LAbel,"(") GT 0 AND NBHD GT 0).
COMPUTE NBHDGroup = LTRIM(RTRIM(CHAR.SUBSTR(NBHD_LAbel,1,(CHAR.INDEX(NBHD_LAbel,"(")-1))).
END IF.
RECODE NBHDGroup ('Locaust Valley' = 'Locust Valley').
* FREQUENCIES NBHDGroup.

*Run this the first time and then comment it out and use the second one.
* AUTORECODE VARIABLES=NBDGroup
/INTO NBHDGroupNum
/SAVE TEMPLATE= !ModelSyntax3 + 'NBHD Desc Template.sat'
/PRINT.

* AUTORECODE VARIABLES=NBDGroup
/INTO NBHDGroupNum
/APPLY TEMPLATE= !ModelSyntax3 + 'NBHD Desc Template.sat'
/PRINT.

RECODE NBHDGroup ('Cold Spring Harbor' = 1)('East Williston' = 2)('Great Neck' = 3)
('Herricks' = 4)('Hewlett' = 5)('Jericho' = 6)('Lawrence' = 7)
('Locust Valley' = 8)('Manhasset' = 9)('New Hyde Park' = 10)('North
Shore' = 11)('Old Westbury' = 12)('Oyster Bay' = 13)
('Port Washington' = 14)('Syosset' = 15)('Village of Great Neck' =
16)('Village of Lake Success' = 17) INTO NBHDGroupNum.

VALUE LABELS NBHDGroupNum
1 'Cold Spring Harbor'
2 'East Williston'
3 'Great Neck'
4 'Herricks'
5 'Hewlett'
6 'Jericho'
7 'Lawrence'
8 'Locust Valley'
9 'Manhasset'
10 'New Hyde Park'
11 'North Shore'
12 'Old Westbury'
13 'Oyster Bay'
14 'Port Washington'
15 'Syosset'
16 'Village of Great Neck'
17 'Village of Lake Success'.

* FREQUENCIES NBHDGroupNum.
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* CROSSTABS SMONTH BY SYEAR.
DO IF(SYEAR GT 0).
COMPUTE SDATE = DATE.MOYR(SMONTH,SYEAR).
END IF.
FORMATS SDATE (MOYR6).

COMPUTE TGROUP = NBHDGroupNum.
RECODE TGROUP (3, 9, 14, 15, 16 = 1)(1, 2, 4, 5, 6, 7, 8, 11, 12, 13, 17 = 2).
* RECODE TGROUP (3, 9, 10, 14, 15, 16 = 1)(1, 2, 4, 5, 6, 7, 8, 11, 12, 13, 17 =
2).

```

Market 3 2021 Prediction Prognose.sps

```
STRING TGROUPLABEL (A400).
RECODE NBHDGROUPNUM (3, 9, 10, 14, 15, 16 = '1 Great Neck, Manhasset, New Hyde Park,
Port Washington, Syosset, Village of Great Neck')
(1, 2, 4, 5, 6, 7, 8, 11, 12, 13, 17 = '2 Cold Spring Harbor, East Williston,
Herricks, Hewlett, Jericho, Lawrence, Locust Valley, North Shore, Old Westbury,
Oyster Bay, Village of Lake Success')
into tgrouplabel.
alter type tgrouplabel (a = amin).
frequencies tgrouplabel.

IF (NBHDGROUPNUM EQ 10)TGROUP EQ 10.
IF (NBHD EQ 23)TGROUP EQ 23.
IF (NBHD EQ 70)TGROUP EQ 70.
IF (NBHD EQ 82)TGROUP EQ 82.
IF (NBHD EQ 199)TGROUP EQ 199.
IF (NBHD EQ 210)TGROUP EQ 210.
IF (NBHD EQ 211)TGROUP EQ 211.
IF (NBHD EQ 212)TGROUP EQ 212.
IF (NBHD EQ 213)TGROUP EQ 213.
IF (NBHD EQ 219)TGROUP EQ 219.
IF (NBHD EQ 222)TGROUP EQ 222.
IF (NBHD EQ 223)TGROUP EQ 223.
IF (NBHD EQ 227)TGROUP EQ 227.
IF (NBHD EQ 228)TGROUP EQ 228.
IF (NBHD EQ 239)TGROUP EQ 239.
IF (NBHD EQ 245)TGROUP EQ 245.
IF (NBHD EQ 248)TGROUP EQ 248.
IF (NBHD EQ 249)TGROUP EQ 249.
IF (NBHD EQ 252)TGROUP EQ 252.
IF (NBHD EQ 255)TGROUP EQ 255.
IF (NBHD EQ 261)TGROUP EQ 245. /*Follows the same pattern as 245.
IF (NBHD EQ 256)TGROUP EQ 256.
IF (NBHD EQ 260)TGROUP EQ 260.
IF (NBHD EQ 263)TGROUP EQ 263.
IF (NBHD EQ 278)TGROUP EQ 278.
IF (NBHD EQ 280)TGROUP EQ 280.
IF (NBHD EQ 291)TGROUP EQ 291.
IF (NBHD EQ 293)TGROUP EQ 293.
IF (NBHD EQ 294)TGROUP EQ 294.
IF (NBHD EQ 295)TGROUP EQ 295.
IF (NBHD EQ 296)TGROUP EQ 296.
IF (NBHD EQ 297)TGROUP EQ 297.
IF (NBHD EQ 298)TGROUP EQ 298.
IF (NBHD EQ 307)TGROUP EQ 307.
IF (NBHD EQ 326)TGROUP EQ 326.
```

```
*****
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*****
```

```
*ENTER YOUR STARTING DATE, BASE VALUATION DATE - FORMAT IS MONTH THEN YEAR.
COMPUTE STARTDATE = DATE.MOYR(1,2012).
COMPUTE BASEDATE = DATE.MOYR(12, 2018).
COMPUTE TIMEPERIOD = DATEDIFF(BASEDATE,STARTDATE,"MONTHS") .
COMPUTE MONTHS = DATEDIFF(SDATE,STARTDATE,"MONTHS") .
COMPUTE MONTH = TIMEPERIOD - MONTHS.
EXECUTE .
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Market 3 2021 Prediction Prognose.sps

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\*\*\*\*\* SPLINES \*\*\*\*\*  
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COMPUTE SPLINEDATE1 = BASEDATE.  
COMPUTE SPLINEDATE2 = BASEDATE.  
COMPUTE SPLINEDATE3 = BASEDATE.  
COMPUTE SPLINEDATE4 = BASEDATE.

IF (TGROUP EQ 1) SPLINEDATE1 = DATE.MOYR(7, 2014).  
IF (TGROUP EQ 1) SPLINEDATE2 = DATE.MOYR(6, 2016).  
IF (TGROUP EQ 1) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 2) SPLINEDATE1 = DATE.MOYR(1, 2014).  
IF (TGROUP EQ 2) SPLINEDATE2 = DATE.MOYR(12, 2015).  
IF (TGROUP EQ 2) SPLINEDATE3 = DATE.MOYR(12, 2016).  
IF (TGROUP EQ 2) SPLINEDATE4 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 10) SPLINEDATE1 = DATE.MOYR(12, 2013).  
IF (TGROUP EQ 10) SPLINEDATE2 = DATE.MOYR(4, 2015).  
IF (TGROUP EQ 10) SPLINEDATE3 = DATE.MOYR(6, 2016).  
IF (TGROUP EQ 10) SPLINEDATE4 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 23) SPLINEDATE1 = DATE.MOYR(10, 2013).  
IF (TGROUP EQ 23) SPLINEDATE2 = DATE.MOYR(7, 2014).  
IF (TGROUP EQ 23) SPLINEDATE3 = DATE.MOYR(10, 2015).  
IF (TGROUP EQ 23) SPLINEDATE4 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 70) SPLINEDATE1 = DATE.MOYR(1, 2014).  
IF (TGROUP EQ 70) SPLINEDATE2 = DATE.MOYR(1, 2016).  
IF (TGROUP EQ 70) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 82) SPLINEDATE1 = DATE.MOYR(1, 2014).  
IF (TGROUP EQ 82) SPLINEDATE2 = DATE.MOYR(1, 2016).  
IF (TGROUP EQ 82) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 199) SPLINEDATE1 = DATE.MOYR(6, 2014).  
IF (TGROUP EQ 199) SPLINEDATE2 = DATE.MOYR(6, 2015).  
IF (TGROUP EQ 199) SPLINEDATE3 = DATE.MOYR(7, 2016).  
IF (TGROUP EQ 199) SPLINEDATE4 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 210) SPLINEDATE1 = DATE.MOYR(10, 2013).  
IF (TGROUP EQ 210) SPLINEDATE2 = DATE.MOYR(3, 2016).  
IF (TGROUP EQ 210) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 211) SPLINEDATE1 = DATE.MOYR(9, 2016).  
IF (TGROUP EQ 211) SPLINEDATE2 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 212) SPLINEDATE1 = DATE.MOYR(3, 2014).  
IF (TGROUP EQ 212) SPLINEDATE2 = DATE.MOYR(1, 2016).  
IF (TGROUP EQ 212) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 213) SPLINEDATE1 = DATE.MOYR(3, 2014).  
IF (TGROUP EQ 213) SPLINEDATE2 = DATE.MOYR(3, 2016).  
IF (TGROUP EQ 213) SPLINEDATE3 = DATE.MOYR(2, 2017).  
IF (TGROUP EQ 213) SPLINEDATE4 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 219) SPLINEDATE1 = DATE.MOYR(1, 2015).  
IF (TGROUP EQ 219) SPLINEDATE2 = DATE.MOYR(1, 2017).

Market 3 2021 Prediction Prognose.sps

```
IF (TGROUP EQ 219) SPLINEDATE3 = DATE.MOYR(6, 2018).
IF (TGROUP EQ 222) SPLINEDATE1 = DATE.MOYR(1, 2014).
IF (TGROUP EQ 222) SPLINEDATE2 = DATE.MOYR(3, 2015).
IF (TGROUP EQ 222) SPLINEDATE3 = DATE.MOYR(6, 2016).
IF (TGROUP EQ 222) SPLINEDATE4 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 223) SPLINEDATE1 = DATE.MOYR(1, 2014).
IF (TGROUP EQ 223) SPLINEDATE2 = DATE.MOYR(6, 2015).
IF (TGROUP EQ 223) SPLINEDATE3 = DATE.MOYR(11, 2017).
IF (TGROUP EQ 223) SPLINEDATE4 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 227) SPLINEDATE1 = DATE.MOYR(1, 2014).
IF (TGROUP EQ 227) SPLINEDATE2 = DATE.MOYR(11, 2015).
IF (TGROUP EQ 227) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 228) SPLINEDATE1 = DATE.MOYR(6, 2013).
IF (TGROUP EQ 228) SPLINEDATE2 = DATE.MOYR(4, 2014).
IF (TGROUP EQ 228) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 239) SPLINEDATE1 = DATE.MOYR(1, 2014).
IF (TGROUP EQ 239) SPLINEDATE2 = DATE.MOYR(10, 2015).
IF (TGROUP EQ 239) SPLINEDATE3 = DATE.MOYR(1, 2017).
IF (TGROUP EQ 239) SPLINEDATE4 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 245) SPLINEDATE1 = DATE.MOYR(11, 2014).
IF (TGROUP EQ 245) SPLINEDATE2 = DATE.MOYR(3, 2016).
IF (TGROUP EQ 245) SPLINEDATE3 = DATE.MOYR(12, 2016).
IF (TGROUP EQ 245) SPLINEDATE4 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 248) SPLINEDATE1 = DATE.MOYR(7, 2014).
IF (TGROUP EQ 248) SPLINEDATE2 = DATE.MOYR(1, 2016).
IF (TGROUP EQ 248) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 249) SPLINEDATE1 = DATE.MOYR(11, 2013).
IF (TGROUP EQ 249) SPLINEDATE2 = DATE.MOYR(1, 2015).
IF (TGROUP EQ 249) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 252) SPLINEDATE1 = DATE.MOYR(7, 2013).
IF (TGROUP EQ 252) SPLINEDATE2 = DATE.MOYR(1, 2015).
IF (TGROUP EQ 252) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 255) SPLINEDATE1 = DATE.MOYR(10, 2014).
IF (TGROUP EQ 255) SPLINEDATE2 = DATE.MOYR(2, 2016).
IF (TGROUP EQ 255) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 256) SPLINEDATE1 = DATE.MOYR(11, 2013).
IF (TGROUP EQ 256) SPLINEDATE2 = DATE.MOYR(3, 2015).
IF (TGROUP EQ 256) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 260) SPLINEDATE1 = DATE.MOYR(1, 2015).
IF (TGROUP EQ 260) SPLINEDATE2 = DATE.MOYR(11, 2016).
IF (TGROUP EQ 260) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 263) SPLINEDATE1 = DATE.MOYR(1, 2014).
IF (TGROUP EQ 263) SPLINEDATE2 = DATE.MOYR(1, 2016).
IF (TGROUP EQ 263) SPLINEDATE3 = DATE.MOYR(1, 2017).
IF (TGROUP EQ 263) SPLINEDATE4 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 278) SPLINEDATE1 = DATE.MOYR(11, 2014).
IF (TGROUP EQ 278) SPLINEDATE2 = DATE.MOYR(6, 2016).
IF (TGROUP EQ 278) SPLINEDATE3 = DATE.MOYR(6, 2018).
```

Market 3 2021 Prediction Prognose.sps

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IF (TGROUP EQ 280) SPLINEDATE1 = DATE.MOYR(1, 2015).
IF (TGROUP EQ 280) SPLINEDATE2 = DATE.MOYR(6, 2016).
IF (TGROUP EQ 280) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 291) SPLINEDATE1 = DATE.MOYR(1, 2015).
IF (TGROUP EQ 291) SPLINEDATE2 = DATE.MOYR(9, 2016).
IF (TGROUP EQ 291) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 293) SPLINEDATE1 = DATE.MOYR(1, 2014).
IF (TGROUP EQ 293) SPLINEDATE2 = DATE.MOYR(6, 2016).
IF (TGROUP EQ 293) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 294) SPLINEDATE1 = DATE.MOYR(1, 2014).
IF (TGROUP EQ 294) SPLINEDATE2 = DATE.MOYR(3, 2016).
IF (TGROUP EQ 294) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 295) SPLINEDATE1 = DATE.MOYR(12, 2013).
IF (TGROUP EQ 295) SPLINEDATE2 = DATE.MOYR(3, 2016).
IF (TGROUP EQ 295) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 296) SPLINEDATE1 = DATE.MOYR(3, 2015).
IF (TGROUP EQ 296) SPLINEDATE2 = DATE.MOYR(1, 2017).
IF (TGROUP EQ 296) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 297) SPLINEDATE1 = DATE.MOYR(7, 2013).
IF (TGROUP EQ 297) SPLINEDATE2 = DATE.MOYR(1, 2015).
IF (TGROUP EQ 297) SPLINEDATE3 = DATE.MOYR(7, 2016).
IF (TGROUP EQ 297) SPLINEDATE4 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 298) SPLINEDATE1 = DATE.MOYR(12, 2013).
IF (TGROUP EQ 298) SPLINEDATE2 = DATE.MOYR(3, 2016).
IF (TGROUP EQ 298) SPLINEDATE3 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 307) SPLINEDATE1 = DATE.MOYR(1, 2014).
IF (TGROUP EQ 307) SPLINEDATE2 = DATE.MOYR(3, 2016).
IF (TGROUP EQ 307) SPLINEDATE3 = DATE.MOYR(10, 2017).
IF (TGROUP EQ 307) SPLINEDATE4 = DATE.MOYR(6, 2018).

IF (TGROUP EQ 326) SPLINEDATE1 = DATE.MOYR(7, 2014).
IF (TGROUP EQ 326) SPLINEDATE2 = DATE.MOYR(3, 2015).
IF (TGROUP EQ 326) SPLINEDATE3 = DATE.MOYR(10, 2016).
IF (TGROUP EQ 326) SPLINEDATE4 = DATE.MOYR(6, 2018).

```

FORMATS STARTDATE BASEDATE SPLINEDATE1 SPLINEDATE2 SPLINEDATE3 SPLINEDATE4 (DATE9).

```

COMPUTE SPLINE_DIFF1 = DATEDIFF(SPLINEDATE1,STARTDATE,"MONTHS") .
COMPUTE SPLINE_DIFF2 = DATEDIFF(SPLINEDATE2,STARTDATE,"MONTHS") .
COMPUTE SPLINE_DIFF3 = DATEDIFF(SPLINEDATE3,STARTDATE,"MONTHS") .
COMPUTE SPLINE_DIFF4 = DATEDIFF(SPLINEDATE4,STARTDATE,"MONTHS") .
EXECUTE.
*****
```

```

COMPUTE MONTHS1 = MONTHS.
IF(MONTHS GT SPLINE_DIFF1)MONTHS1 = SPLINE_DIFF1.
COMPUTE MONTHS2 = MONTHS - SPLINE_DIFF1.
RECODE MONTHS2 (LO THRU 0 = 0).
IF(MONTHS GT SPLINE_DIFF2)MONTHS2 = SPLINE_DIFF2 - SPLINE_DIFF1.
COMPUTE MONTHS3 = MONTHS - SPLINE_DIFF2 .
RECODE MONTHS3 (LO THRU 0 = 0).
IF(MONTHS GT SPLINE_DIFF3)MONTHS3 = SPLINE_DIFF3 - SPLINE_DIFF2.
```

Market 3 2021 Prediction Prognose.sps

```
COMPUTE MONTHS4 = MONTHS - SPLINE_DIFF3 .
RECODE MONTHS4 (LO THRU 0 = 0) .
IF(MONTHS GT SPLINE_DIFF4)MONTHS4 = SPLINE_DIFF4 - SPLINE_DIFF3 .
COMPUTE MONTHS5 = MONTHS - SPLINE_DIFF4 .
RECODE MONTHS5 (LO THRU 0 = 0) .

COMPUTE SPLINE = 1.
IF(MONTHS2 GT 0)SPLINE = 2.
IF(MONTHS3 GT 0)SPLINE = 3.
IF(MONTHS4 GT 0)SPLINE = 4.
IF(MONTHS5 GT 0)SPLINE = 5.
FREQUENCIES SPLINE.
```

```
*****MONTH*****
*****TGROUP
MONTHS*****
```

```
COMPUTE MONTH1 = SPLINE_DIFF1 - MONTHS1.
COMPUTE MONTH2 = (SPLINE_DIFF2 - SPLINE_DIFF1) - MONTHS2.
COMPUTE MONTH3 = (SPLINE_DIFF3 - SPLINE_DIFF2) - MONTHS3.
COMPUTE MONTH4 = (SPLINE_DIFF4 - SPLINE_DIFF3) - MONTHS4.
COMPUTE MONTH5 = (TIMEPERIOD - SPLINE_DIFF4) - MONTHS5.
```

```
*****TGROUP
MONTHS*****
```

```
* IF (TGROUP EQ 1) MONTHS1_1 = MONTHS1.
* IF (TGROUP EQ 1) MONTHS2_1 = MONTHS2.
* IF (TGROUP EQ 1) MONTHS3_1 = MONTHS3.
* IF (TGROUP EQ 1) MONTHS4_1 = MONTHS4.

* IF (TGROUP EQ 2) MONTHS1_2 = MONTHS1.
* IF (TGROUP EQ 2) MONTHS2_2 = MONTHS2.
* IF (TGROUP EQ 2) MONTHS3_2 = MONTHS3.
* IF (TGROUP EQ 2) MONTHS4_2 = MONTHS4.

* IF (TGROUP EQ 10) MONTHS1_10 = MONTHS1.
* IF (TGROUP EQ 10) MONTHS2_10 = MONTHS2.
* IF (TGROUP EQ 10) MONTHS3_10 = MONTHS3.
* IF (TGROUP EQ 10) MONTHS4_10 = MONTHS4.

* IF (TGROUP EQ 23) MONTHS1_23 = MONTHS1.
* IF (TGROUP EQ 23) MONTHS2_23 = MONTHS2.
* IF (TGROUP EQ 23) MONTHS3_23 = MONTHS3.
* IF (TGROUP EQ 23) MONTHS4_23 = MONTHS4.

* IF (TGROUP EQ 70) MONTHS1_70 = MONTHS1.
* IF (TGROUP EQ 70) MONTHS2_70 = MONTHS2.
* IF (TGROUP EQ 70) MONTHS3_70 = MONTHS3.

* IF (TGROUP EQ 82) MONTHS1_82 = MONTHS1.
* IF (TGROUP EQ 82) MONTHS2_82 = MONTHS2.
* IF (TGROUP EQ 82) MONTHS3_82 = MONTHS3.

* IF (TGROUP EQ 199) MONTHS1_199 = MONTHS1.
* IF (TGROUP EQ 199) MONTHS2_199 = MONTHS2.
```

Market 3 2021 Prediction Prognose.sps

```
* IF (TGROUP EQ 199) MONTHS3_199 = MONTHS3.  
* IF (TGROUP EQ 199) MONTHS4_199 = MONTHS4.  
  
* IF (TGROUP EQ 210) MONTHS1_210 = MONTHS1.  
* IF (TGROUP EQ 210) MONTHS2_210 = MONTHS2.  
* IF (TGROUP EQ 210) MONTHS3_210 = MONTHS3.  
  
* IF (TGROUP EQ 211) MONTHS1_211 = MONTHS1.  
* IF (TGROUP EQ 211) MONTHS2_211 = MONTHS2.  
  
* IF (TGROUP EQ 212) MONTHS1_212 = MONTHS1.  
* IF (TGROUP EQ 212) MONTHS2_212 = MONTHS2.  
* IF (TGROUP EQ 212) MONTHS3_212 = MONTHS3.  
  
* IF (TGROUP EQ 213) MONTHS1_213 = MONTHS1.  
* IF (TGROUP EQ 213) MONTHS2_213 = MONTHS2.  
* IF (TGROUP EQ 213) MONTHS3_213 = MONTHS3.  
* IF (TGROUP EQ 213) MONTHS4_213 = MONTHS4.  
  
* IF (TGROUP EQ 219) MONTHS1_219 = MONTHS1.  
* IF (TGROUP EQ 219) MONTHS2_219 = MONTHS2.  
* IF (TGROUP EQ 219) MONTHS3_219 = MONTHS3.  
  
* IF (TGROUP EQ 222) MONTHS1_222 = MONTHS1.  
* IF (TGROUP EQ 222) MONTHS2_222 = MONTHS2.  
* IF (TGROUP EQ 222) MONTHS3_222 = MONTHS3.  
* IF (TGROUP EQ 222) MONTHS4_222 = MONTHS4.  
  
* IF (TGROUP EQ 223) MONTHS1_223 = MONTHS1.  
* IF (TGROUP EQ 223) MONTHS2_223 = MONTHS2.  
* IF (TGROUP EQ 223) MONTHS3_223 = MONTHS3.  
* IF (TGROUP EQ 223) MONTHS4_223 = MONTHS4.  
  
* IF (TGROUP EQ 227) MONTHS1_227 = MONTHS1.  
* IF (TGROUP EQ 227) MONTHS2_227 = MONTHS2.  
* IF (TGROUP EQ 227) MONTHS3_227 = MONTHS3.  
  
* IF (TGROUP EQ 228) MONTHS1_228 = MONTHS1.  
* IF (TGROUP EQ 228) MONTHS2_228 = MONTHS2.  
* IF (TGROUP EQ 228) MONTHS3_228 = MONTHS3.  
  
* IF (TGROUP EQ 239) MONTHS1_239 = MONTHS1.  
* IF (TGROUP EQ 239) MONTHS2_239 = MONTHS2.  
* IF (TGROUP EQ 239) MONTHS3_239 = MONTHS3.  
* IF (TGROUP EQ 239) MONTHS4_239 = MONTHS4.  
  
* IF (TGROUP EQ 245) MONTHS1_245 = MONTHS1.  
* IF (TGROUP EQ 245) MONTHS2_245 = MONTHS2.  
* IF (TGROUP EQ 245) MONTHS3_245 = MONTHS3.  
* IF (TGROUP EQ 245) MONTHS4_245 = MONTHS4.  
  
* IF (TGROUP EQ 249) MONTHS1_249 = MONTHS1.  
* IF (TGROUP EQ 249) MONTHS2_249 = MONTHS2.  
* IF (TGROUP EQ 249) MONTHS3_249 = MONTHS3.  
  
* IF (TGROUP EQ 252) MONTHS1_252 = MONTHS1.  
* IF (TGROUP EQ 252) MONTHS2_252 = MONTHS2.  
* IF (TGROUP EQ 252) MONTHS3_252 = MONTHS3.  
  
* IF (TGROUP EQ 255) MONTHS1_255 = MONTHS1.  
* IF (TGROUP EQ 255) MONTHS2_255 = MONTHS2.  
* IF (TGROUP EQ 255) MONTHS3_255 = MONTHS3.
```

Market 3 2021 Prediction Prognose.sps

```
* IF (TGROUP EQ 256) MONTHS1_256 = MONTHS1.  
* IF (TGROUP EQ 256) MONTHS2_256 = MONTHS2.  
* IF (TGROUP EQ 256) MONTHS3_256 = MONTHS3.  
  
* IF (TGROUP EQ 260) MONTHS1_260 = MONTHS1.  
* IF (TGROUP EQ 260) MONTHS2_260 = MONTHS2.  
* IF (TGROUP EQ 260) MONTHS3_260 = MONTHS3.  
  
* IF (TGROUP EQ 263) MONTHS1_263 = MONTHS1.  
* IF (TGROUP EQ 263) MONTHS2_263 = MONTHS2.  
* IF (TGROUP EQ 263) MONTHS3_263 = MONTHS3.  
* IF (TGROUP EQ 263) MONTHS4_263 = MONTHS4.  
  
* IF (TGROUP EQ 278) MONTHS1_278 = MONTHS1.  
* IF (TGROUP EQ 278) MONTHS2_278 = MONTHS2.  
* IF (TGROUP EQ 278) MONTHS3_278 = MONTHS3.  
  
* IF (TGROUP EQ 280) MONTHS1_280 = MONTHS1.  
* IF (TGROUP EQ 280) MONTHS2_280 = MONTHS2.  
* IF (TGROUP EQ 280) MONTHS3_280 = MONTHS3.  
  
* IF (TGROUP EQ 291) MONTHS1_291 = MONTHS1.  
* IF (TGROUP EQ 291) MONTHS2_291 = MONTHS2.  
* IF (TGROUP EQ 291) MONTHS3_291 = MONTHS3.  
  
* IF (TGROUP EQ 293) MONTHS1_293 = MONTHS1.  
* IF (TGROUP EQ 293) MONTHS2_293 = MONTHS2.  
* IF (TGROUP EQ 293) MONTHS3_293 = MONTHS3.  
  
* IF (TGROUP EQ 294) MONTHS1_294 = MONTHS1.  
* IF (TGROUP EQ 294) MONTHS2_294 = MONTHS2.  
* IF (TGROUP EQ 294) MONTHS3_294 = MONTHS3.  
  
* IF (TGROUP EQ 295) MONTHS1_295 = MONTHS1.  
* IF (TGROUP EQ 295) MONTHS2_295 = MONTHS2.  
* IF (TGROUP EQ 295) MONTHS3_295 = MONTHS3.  
  
* IF (TGROUP EQ 296) MONTHS1_296 = MONTHS1.  
* IF (TGROUP EQ 296) MONTHS2_296 = MONTHS2.  
* IF (TGROUP EQ 296) MONTHS3_296 = MONTHS3.  
  
* IF (TGROUP EQ 297) MONTHS1_297 = MONTHS1.  
* IF (TGROUP EQ 297) MONTHS2_297 = MONTHS2.  
* IF (TGROUP EQ 297) MONTHS3_297 = MONTHS3.  
* IF (TGROUP EQ 297) MONTHS4_297 = MONTHS4.  
  
* IF (TGROUP EQ 298) MONTHS1_298 = MONTHS1.  
* IF (TGROUP EQ 298) MONTHS2_298 = MONTHS2.  
* IF (TGROUP EQ 298) MONTHS3_298 = MONTHS3.  
  
* IF (TGROUP EQ 307) MONTHS1_307 = MONTHS1.  
* IF (TGROUP EQ 307) MONTHS2_307 = MONTHS2.  
* IF (TGROUP EQ 307) MONTHS3_307 = MONTHS3.  
  
* IF (TGROUP EQ 326) MONTHS1_326 = MONTHS1.  
* IF (TGROUP EQ 326) MONTHS2_326 = MONTHS2.  
* IF (TGROUP EQ 326) MONTHS3_326 = MONTHS3.  
* IF (TGROUP EQ 326) MONTHS4_326 = MONTHS4.  
  
* IF (TGROUP EQ 248) MONTHS1_248 = MONTHS1.  
* IF (TGROUP EQ 248) MONTHS2_248 = MONTHS2.  
* IF (TGROUP EQ 248) MONTHS3_248 = MONTHS3.
```

Market 3 2021 Prediction Prognose.sps  
\* RECODE MONTHS1\_1 TO MONTHS3\_248 (SYSMIS = 0).

```
*****  
*****  
*****  
*****  
***** RATES *****  
*****  
*****  
*****  
*****  
*****  
*****  
  
COMPUTE RATE1 = 1.  
COMPUTE RATE2 = 1.  
COMPUTE RATE3 = 1.  
COMPUTE RATE4 = 1.  
COMPUTE RATE5 = 1.  
*****  
*****  
*****  
*****  
IF(TGROUP EQ 1)RATE1 = 1.00450**MONTH1.  
IF(TGROUP EQ 1)RATE2 = 1.00371**MONTH2.  
IF(TGROUP EQ 1)RATE3 = 1.00348**MONTH3.  
  
IF(TGROUP EQ 2)RATE1 = 1.00330**MONTH1.  
IF(TGROUP EQ 2)RATE2 = 1.00000**MONTH2.  
IF(TGROUP EQ 2)RATE3 = 1.00673**MONTH3.  
IF(TGROUP EQ 2)RATE4 = 1.00000**MONTH4.  
  
IF(TGROUP EQ 10)RATE1 = 1.00469**MONTH1.  
IF(TGROUP EQ 10)RATE2 = 1.00000**MONTH2.  
IF(TGROUP EQ 10)RATE3 = 1.00980**MONTH3.  
IF(TGROUP EQ 10)RATE4 = 1.00373**MONTH4.  
  
IF(TGROUP EQ 23)RATE1 = 1.00000**MONTH1.  
IF(TGROUP EQ 23)RATE2 = 1.01560**MONTH2.  
IF(TGROUP EQ 23)RATE3 = 1.00000**MONTH3.  
IF(TGROUP EQ 23)RATE4 = 1.00000**MONTH4.  
  
IF(TGROUP EQ 70)RATE1 = 1.00000**MONTH1.  
IF(TGROUP EQ 70)RATE2 = 1.00509**MONTH2.  
IF(TGROUP EQ 70)RATE3 = 1.00245**MONTH3.  
  
IF(TGROUP EQ 82)RATE1 = 1.00000**MONTH1.  
IF(TGROUP EQ 82)RATE2 = 1.00000**MONTH2.  
IF(TGROUP EQ 82)RATE3 = 1.00262**MONTH3.  
  
IF(TGROUP EQ 199)RATE1 = 1.00000**MONTH1.  
IF(TGROUP EQ 199)RATE2 = 1.00691**MONTH2.  
IF(TGROUP EQ 199)RATE3 = 1.00929**MONTH3.  
IF(TGROUP EQ 199)RATE4 = 1.00399**MONTH4.  
  
IF(TGROUP EQ 210)RATE1 = 0.99175**MONTH1.  
IF(TGROUP EQ 210)RATE2 = 1.01128**MONTH2.  
IF(TGROUP EQ 210)RATE3 = 1.00000**MONTH3.  
  
IF(TGROUP EQ 211)RATE1 = 1.00000**MONTH1.  
IF(TGROUP EQ 211)RATE2 = 1.00563**MONTH2.  
  
IF(TGROUP EQ 212)RATE1 = 1.00000**MONTH1.  
IF(TGROUP EQ 212)RATE2 = 1.01167**MONTH2.
```

Market 3 2021 Prediction Prognose.sps

```

IF(TGROUP EQ 212)RATE3 = 1.00489**MONTH3.

IF(TGROUP EQ 213)RATE1 = 1.00000**MONTH1.
IF(TGROUP EQ 213)RATE2 = 1.00381**MONTH2.
IF(TGROUP EQ 213)RATE3 = 1.00000**MONTH3.
IF(TGROUP EQ 213)RATE4 = 1.00893**MONTH4.

IF(TGROUP EQ 219)RATE1 = 1.00357**MONTH1.
IF(TGROUP EQ 219)RATE2 = 1.00675**MONTH2.
IF(TGROUP EQ 219)RATE3 = 1.00000**MONTH3.

* IF(TGROUP EQ 222)RATE1 = 1.00494**MONTH1.
IF(TGROUP EQ 222)RATE1 = 1.00284**MONTH1.
* IF(TGROUP EQ 222)RATE2 = 0.99282**MONTH2.
IF(TGROUP EQ 222)RATE2 = 0.9982**MONTH2.
IF(TGROUP EQ 222)RATE3 = 1.00000**MONTH3.
IF(TGROUP EQ 222)RATE4 = 1.00284**MONTH4.

IF(TGROUP EQ 223)RATE1 = 1.00771**MONTH1.
IF(TGROUP EQ 223)RATE2 = 1.00000**MONTH2.
IF(TGROUP EQ 223)RATE3 = 1.00561**MONTH3.
IF(TGROUP EQ 223)RATE4 = 1.00000**MONTH4.

IF(TGROUP EQ 227)RATE1 = 1.00000**MONTH1.
IF(TGROUP EQ 227)RATE2 = 1.00436**MONTH2.
IF(TGROUP EQ 227)RATE3 = 1.00584**MONTH3.

IF(TGROUP EQ 228)RATE1 = 1.00000**MONTH1.
IF(TGROUP EQ 228)RATE2 = 1.01343**MONTH2.
IF(TGROUP EQ 228)RATE3 = 1.00160**MONTH3.

IF(TGROUP EQ 239)RATE1 = 1.00000**MONTH1.
IF(TGROUP EQ 239)RATE2 = 1.00307**MONTH2.
IF(TGROUP EQ 239)RATE3 = 1.00000**MONTH3.
IF(TGROUP EQ 239)RATE4 = 1.00884**MONTH4.

IF(TGROUP EQ 245)RATE1 = 1.00725**MONTH1.
IF(TGROUP EQ 245)RATE2 = 1.00000**MONTH2.
IF(TGROUP EQ 245)RATE3 = 1.00000**MONTH3.
IF(TGROUP EQ 245)RATE4 = 1.00000**MONTH4.

IF(TGROUP EQ 248)RATE1 = 1.00983**MONTH1.
IF(TGROUP EQ 248)RATE2 = 1.00000**MONTH2.
IF(TGROUP EQ 248)RATE3 = 1.00000**MONTH3.

IF(TGROUP EQ 249)RATE1 = 1.00000**MONTH1.
IF(TGROUP EQ 249)RATE2 = 1.01057**MONTH2.
IF(TGROUP EQ 249)RATE3 = 1.00376**MONTH3.

IF(TGROUP EQ 252)RATE1 = 1.01951**MONTH1.
IF(TGROUP EQ 252)RATE2 = 1.00000**MONTH2.
IF(TGROUP EQ 252)RATE3 = 1.00000**MONTH3.

* IF(TGROUP EQ 255)RATE1 = 1.00996**MONTH1.
* IF(TGROUP EQ 255)RATE2 = 0.99105**MONTH2.
IF(TGROUP EQ 255)RATE1 = 1.005**MONTH1.
IF(TGROUP EQ 255)RATE2 = 0.999**MONTH2.
IF(TGROUP EQ 255)RATE3 = 1.00981**MONTH3.

IF(TGROUP EQ 256)RATE1 = 1.00000**MONTH1.
IF(TGROUP EQ 256)RATE2 = 1.01009**MONTH2.
IF(TGROUP EQ 256)RATE3 = 1.00000**MONTH3.

```

Market 3 2021 Prediction Prognose.sps

\* IF(TGROUP EQ 260)RATE1 = 1.00579\*\*MONTH1.  
IF(TGROUP EQ 260)RATE1 = 1.003\*\*MONTH1.  
\* IF(TGROUP EQ 260)RATE2 = 0.99716\*\*MONTH2.  
IF(TGROUP EQ 260)RATE2 = 1.00000\*\*MONTH2.  
IF(TGROUP EQ 260)RATE3 = 1.00000\*\*MONTH3.  
  
IF(TGROUP EQ 263)RATE1 = 1.01448\*\*MONTH1.  
\* IF(TGROUP EQ 263)RATE2 = 0.99543\*\*MONTH2.  
IF(TGROUP EQ 263)RATE2 = 0.998\*\*MONTH2.  
IF(TGROUP EQ 263)RATE3 = 1.00776\*\*MONTH3.  
IF(TGROUP EQ 263)RATE4 = 1.00000\*\*MONTH4.  
  
IF(TGROUP EQ 278)RATE1 = 1.00725\*\*MONTH1.  
IF(TGROUP EQ 278)RATE2 = 1.00000\*\*MONTH2.  
IF(TGROUP EQ 278)RATE3 = 1.00000\*\*MONTH3.  
  
IF(TGROUP EQ 280)RATE1 = 1.00939\*\*MONTH1.  
\* IF(TGROUP EQ 280)RATE2 = 0.97765\*\*MONTH2.  
\* IF(TGROUP EQ 280)RATE3 = 1.01667\*\*MONTH3.  
IF(TGROUP EQ 280)RATE2 = 1.00000\*\*MONTH2.  
IF(TGROUP EQ 280)RATE3 = 1.00452\*\*MONTH3.  
  
IF(TGROUP EQ 291)RATE1 = 1.00000\*\*MONTH1.  
IF(TGROUP EQ 291)RATE2 = 1.00000\*\*MONTH2.  
\* IF(TGROUP EQ 291)RATE3 = 1.01276\*\*MONTH3.  
IF(TGROUP EQ 291)RATE3 = 1.002\*\*MONTH3.  
  
IF(TGROUP EQ 293)RATE1 = 1.00000\*\*MONTH1.  
IF(TGROUP EQ 293)RATE2 = 1.00000\*\*MONTH2.  
IF(TGROUP EQ 293)RATE3 = 1.00000\*\*MONTH3.  
  
IF(TGROUP EQ 294)RATE1 = 1.00000\*\*MONTH1.  
IF(TGROUP EQ 294)RATE2 = 1.00000\*\*MONTH2.  
IF(TGROUP EQ 294)RATE3 = 1.00503\*\*MONTH3.  
  
IF(TGROUP EQ 295)RATE1 = 1.00000\*\*MONTH1.  
IF(TGROUP EQ 295)RATE2 = 1.00000\*\*MONTH2.  
IF(TGROUP EQ 295)RATE3 = 1.00452\*\*MONTH3.  
  
IF(TGROUP EQ 296)RATE1 = 1.00250\*\*MONTH1.  
IF(TGROUP EQ 296)RATE2 = 1.00000\*\*MONTH2.  
IF(TGROUP EQ 296)RATE3 = 1.00535\*\*MONTH3.  
  
\* IF(TGROUP EQ 297)RATE1 = 0.99600\*\*MONTH1.  
IF(TGROUP EQ 297)RATE1 = 0.99800\*\*MONTH1.  
IF(TGROUP EQ 297)RATE2 = 1.00566\*\*MONTH2.  
IF(TGROUP EQ 297)RATE3 = 1.00000\*\*MONTH3.  
\* IF(TGROUP EQ 297)RATE4 = 0.99611\*\*MONTH4.  
IF(TGROUP EQ 297)RATE4 = 1.00000\*\*MONTH4.  
  
IF(TGROUP EQ 298)RATE1 = 1.01552\*\*MONTH1.  
IF(TGROUP EQ 298)RATE2 = 1.00000\*\*MONTH2.  
\* IF(TGROUP EQ 298)RATE3 = 0.99650\*\*MONTH3.  
IF(TGROUP EQ 298)RATE3 = 1.00000\*\*MONTH3.  
  
IF(TGROUP EQ 307)RATE1 = 1.00000\*\*MONTH1.  
IF(TGROUP EQ 307)RATE2 = 1.00392\*\*MONTH2.  
IF(TGROUP EQ 307)RATE3 = 1.00345\*\*MONTH3.  
IF(TGROUP EQ 307)RATE4 = 1.00000\*\*MONTH4.  
  
IF(TGROUP EQ 326)RATE1 = 1.00000\*\*MONTH1.  
\* IF(TGROUP EQ 326)RATE2 = 0.98173\*\*MONTH2.  
\* IF(TGROUP EQ 326)RATE3 = 1.01114\*\*MONTH3.

```

Market 3 2021 Prediction Prognose.sps
IF(TGROUP EQ 326)RATE2 = 1.00000**MONTH2.
IF(TGROUP EQ 326)RATE3 = 1.00452**MONTH3.
IF(TGROUP EQ 326)RATE4 = 1.00000**MONTH4.

COMPUTE ADJRATE = RATE1 * RATE2 * RATE3 * RATE4 * RATE5.

SORT CASES BY TGROUP.
SPLIT FILE BY TGROUP.
GRAPH /SCATTERPLOT SDATE WITH ADJRATE BY SPLINE.
SPLIT FILE OFF.

DO IF(SYEAR GT 0).
COMPUTE TASp = SOLDPRICE * ADJRATE.
END IF.
FORMATS TASp (COMMA10.0).
* DESCRIPTIVES ADJ_SALE_PRICE TASp.

*****.
*****LANDSQFT*****.
*****.

COMPUTE LandIssuePCTx = 1.
IF(LandIssuePCT LT 0)LandIssuePCTx = 1 + (LandIssuePCT / 100).

COMPUTE LandIssuePCT_ECONx = 1.
IF(LandIssuePCT_ECON LT 0)LandIssuePCT_ECONx = 1 + (LandIssuePCT_ECON / 100).

COMPUTE UNDERWATER_SF_ECONx = UNDERWATER_SF_ECON.
IF(LandIssueSF_Sum EQ UNDERWATER_SF_ECON)UNDERWATER_SF_ECONx = 0.

COMPUTE UNDERWATER_SFx = UNDERWATER_SF.
IF(LandIssueSF GT 0)UNDERWATER_SFx = 0.
IF(LandIssueSF_Sum GT 0)UNDERWATER_SFx = 0.

COMPUTE SUMLANDx = SUMLAND - UNDERWATER_SF_ECONx - LandIssueSF_Sum.
IF(EconType EQ '')SUMLANDx = SUMLAND - UNDERWATER_SFx - LandIssueSF.

COMPUTE LANDSQFTx = LANDSQFT - UNDERWATER_SFx - LandIssueSF.

FORMATS SUMLANDx LANDSQFTx UNDERWATER_SFx UNDERWATER_SF_ECONx (COMMA10.0).

DESCRIPTIVES SUMLANDx LANDSQFTx.

DO IF(SUMLANDx GT 0).
COMPUTE LN_LANDSQFT = LN(SUMLANDx).
END IF.
RECODE LN_LANDSQFT (SYSMIS = 0).
EXECUTE.

* MEANS SUMLANDx /CELLS MIN MAX MEAN MEDIAN COUNT.

*****.
*****BREAK*****.
*****.

* GRAPH /SCATTERPLOT LN_LANDSQFT WITH sppsf BY qual
/TEMPLATE = !TEMPLATE + 'LoessLineWithFitLine.sgt'.
*****.
*****.

COMPUTE LANDGROUP = 1.
IF ANY(NBHDGROUPNUM, 1, 2, 6, 8, 9, 12, 13, 14, 16) LANDGROUP = 2.

```

```
Market 3 2021 Prediction Prognose.sps
DO IF(SUMLANDX GT 0 AND LANDGROUP EQ 1).
  COMPUTE LANDSIZERATIO = (SUMLANDX / 21780).
  RECODE LANDSIZERATIO (SYSMIS = 1).
  COMPUTE LN_LANDSIZERATIO = LN(LANDSIZERATIO).
  * COMPUTE LN_LANDSIZERATIO1 = 0.
  IF(LANDSIZERATIO LT 1)LG1_LN_LANDSIZERATIO1 = LN_LANDSIZERATIO.
  * COMPUTE LN_LANDSIZERATIO2 = 0.
  IF(LANDSIZERATIO GT 1)LG1_LN_LANDSIZERATIO2 = LN_LANDSIZERATIO.
END IF.
EXECUTE.
```

```
DO IF(SUMLANDX GT 0 AND LANDGROUP EQ 2).
  COMPUTE LANDSIZERATIO = (SUMLANDX / 65340).

  RECODE LANDSIZERATIO (SYSMIS = 1).
  COMPUTE LN_LANDSIZERATIO = LN(LANDSIZERATIO).
  * COMPUTE LN_LANDSIZERATIO1 = 0.
  IF(LANDSIZERATIO LT 1)LG2_LN_LANDSIZERATIO1 = LN_LANDSIZERATIO.
  * COMPUTE LN_LANDSIZERATIO2 = 0.
  IF(LANDSIZERATIO GT 1)LG2_LN_LANDSIZERATIO2 = LN_LANDSIZERATIO.
END IF.
EXECUTE.
```

```
RECODE LG1_LN_LANDSIZERATIO1 LG1_LN_LANDSIZERATIO2
  LG2_LN_LANDSIZERATIO1 LG2_LN_LANDSIZERATIO2 (SYSMIS = 0).
```

```
* TEMPORARY.
* SELECT IF(LANDSQFT GT 0).
* GRAPH /SCATTERPLOT(BIVAR)= LANDSQFT WITH SPPSF .

* TEMPORARY.
* SELECT IF(LANDSQFT GT 300000).
* LIST RECEPTIONNO ACCOUNTNO LANDSQFT.
```

```
*****
*****
```

```
*****
```

```
*****
```

```
*****
```

```
**LIVING AREA.
```

```
*****
```

```
*****
```

```
COMPUTE BASEADJ = STORIES.
```

```
RECODE BASEADJ (1.7 = 1.75)(2.7 = 2.75)(3.7 = 3.75).
```

```
* FREQUENCIES BASEADJ.
```

```
*****
```

```
*****
```

```
* this code when used will match SFLA.
```

```
* COMPUTE AtticSF = 0.
```

```
* IF(ATTIC EQ 3)AtticSF = FLR1AREA * .20.
```

```
* IF(ATTIC EQ 4)AtticSF = FLR1AREA * .40.
```

```
* COMPUTE SQFT = RND((FLR1AREA * BASEADJ) + RND(AtticSF) + FINBSMTAREA + FirstSF +
HalfStory + Story34
```

```
          + AtticFinished + AtticPartFinished +
```

```
FinBsmt + Solarium).
```

```
*****
```

```
*****
```

```
COMPUTE AtticSF = AtticFinished + AtticPartFinished.
```

```
IF(ATTIC EQ 3)AtticSF = AtticSF + FLR1AREA * .20.
```

Market 3 2021 Prediction Prognose.sps

```

IF(ATTIC EQ 4)AtticSF = AtticSF + FLR1AREA * .40.

COMPUTE SQFT = RND((FLR1AREA * BASEADJ) + RND(AtticSF) + FirstSF + HalfStory +
Story34 + Solarium).

COMPUTE UPERSF = RND((FLR1AREA * BASEADJ) - FLR1AREA + HalfStory + Story34) .
COMPUTE FINBSMTX = FINBSMTAREA + FinBsmt.
COMPUTE UNFBSMTX = UNFINAREA + UnfBsmt.
COMPUTE RECBSMTX = RECROMAREA + RecRoom.
RECODE FINBSMTX UNFBSMTX RECBSMTX (LO THRU 10 = 0).

FORMATS AtticSF SQFT FINBSMTX UNFBSMTX RECBSMTX (COMMA10.0).

COMPUTE SQFTX = SQFT.
* IF(SFLA2 GT 0)SQFTX = SQFT + ( SFLA2 * .65).
* COMPUTE SQFTX = SFLA.
* IF(SFLA2 GT 0)SQFTX = SFLA + ( SFLA2 * .75).

DO IF(SQFTX GT 0).
COMPUTE LnSQFTX= LN(SQFTX).
END IF.
RECODE LnSQFTX (SYSMIS = 0).
EXECUTE.

* MEANS SQFTX /CELLS MIN MAX MEAN MEDIAN COUNT.

*****BREAK*****.
*****GRAPH /SCATTERPLOT LnSQFTZ WITH LN_PRICEa BY qual
/TEMPLATE = !TEMPLATE + 'LoessLineWithFitLine.sgt'.
*****;

DO IF(SQFTX GT 0).
COMPUTE SQFTXRATIO = (SQFTX / 2500).
END IF.
RECODE SQFTXRATIO (SYSMIS = 1).
COMPUTE LN_SQFTXRATIO = LN(SQFTXRATIO).
COMPUTE LN_SQFTXRATIO1 = 0.
IF(SQFTXRATIO LT 1)LN_SQFTXRATIO1 = LN_SQFTXRATIO.
COMPUTE LN_SQFTXRATIO2 = 0.
IF(SQFTXRATIO GT 1)LN_SQFTXRATIO2 = LN_SQFTXRATIO.
EXECUTE.

DO IF(SFLA2 GT 0).
COMPUTE LnSFLA2= LN(SFLA2).
END IF.
RECODE LnSFLA2 (SYSMIS = 0).
EXECUTE.

* TEMPORARY.
* SELECT IF UPERSF GT 0.
COMPUTE UPERSF_RATIO = 1 + (UPERSF / 1000).
COMPUTE LN_UPERSF_RATIO = LN(UPERSF_RATIO).

* TEMPORARY.
* SELECT IF ATTICSF GT 0.
COMPUTE AtticSF_RATIO = 1 + (AtticSF / 1000).
COMPUTE LN_AtticSF_RATIO = LN(AtticSF_RATIO).

*****.

```

```

Market 2 2021 Prediction Prognose.sps
+.059910036626029 * BLK_12_027
+.099404855428715 * BLK_12_391
+.087464686990966 * BLK_12_453
+.073644922272857 * BLK_12_468
+.095175629250806 * BLK_12_558
+.064755390945150 * BLK_12_588
+.069231605569317 * BLK_46_569
+.069104882973069 * BLK_12_379
+.058209121282196 * BLK_12_385
+.060989916833105 * BLK_12_415
+.052606101480334 * BLK_12_492
+-.091560084316481 * BLK_12_553
+-.088879246386537 * BLK_13_005
+.067328185679520 * BLK_13_031x
0.15459 * BLK_13_090
+-.104691435448607 * BLK_47_007
+-.046070762687641 * BLK_47_023
+-.073176927915732 * NBHD_146_A
+.140192641843513 * NBHD_67_B
+-.088014417948956 * BLK_47_044
+.108271680449277 * BLK_47_049
+.072872153209061 * BLK_47_101
+.115665424587166 * BLK_47_111
+-.068887503860375 * BLK_47_128
+.171382723541399 * NBHD_148_A
+.047391933710648 * NBHD_148_LongRidge
+.12918 * BLK_13_093
+.108001208995731 * BLK_32_104
+-.108543369287051 * BLK_32_145
+.062648375876022 * BLK_33_G
+.115353686477003 * BLK_33_284
+.065 * BLK_37_Q03
+.080369744189888 * BLK_32_671
+.088830553973742 * BLK_32_680
+.125185973847765 * BLK_32_493
+.176089794335535 * BLK_32_580
+.061527066615217 * NBHD_154_A
+-.115287260084794 * BLK_45_294
+.049732389098828 * BLK_46_365
+-.074274888039805 * BLK_46_536
+.061738841114355 * BLK_12_244
+.089610832862165 * BLK_12_267_268
+.065496938399348 * BLK_12_277_283_284
+-.063823088808062 * BLK_12_325
+.040939593164250 * BLK_11_333x
0.24686 * BLK_11_395
+.259331616069427 * NBHD_182_A
+.278944607934327 * NBHD_182_B
+-.075207182931688 * BLK_33_615
+.013659414287797 * BLK_35_350
+.063587470774803 * BLK_35_391
+.060216658270273 * BLK_35_262
+.118596775755073 * BLK_35_269
+.107079527830400 * BLK_35_403
+.201549457851671 * BLK_35_405
+.081765589134794 * BLK_35_407
+.052152447606694 * BLK_35_490
+.148212979522396 * BLK_11_030
+.104085056777085 * BLK_11_414
+-.103953520300139 * BLK_11_356
+.047293812311656 * BLK_12_517
+.050824440558672 * BLK_12_546
+.114784361146151 * BLK_12_547

```

```

Market 2 2021 Prediction Prognose.sps
+.110415722334723 * NBHD_300_A
+.069973352191566 * BLK_15_098
+.09531 * BLK_15_101
+.084735223543051 * BLK_15_113
+.061427848144460 * BLK_15_120
+-.082514662761219 * BLK_15_134x
+.10436 * BLK_13_072
+-.076514995670710 * BLK_14_002
+-.058353321935453 * BLK_14_024
+.062338 * BLK_15_176
+.085955774116781 * NBHD_303_A
+.046655751304618 * NBHD_303_Drawbridge
+-.102454057277413 * BLK_15_020
+.092555817631998 * BLK_15_070
+.125920460199789 * BLK_15_074
+.09531 * BLK_15_075
+.102814729532482 * BLK_15_077
+.069294669784125 * BLK_15_084
+.09531 * BLK_15_105
+.116590171236875 * BLK_15_106
+.153847507939944 * BLK_25_044
+-.073044429954980 * BLK_25_H
+.084410766725561 * BLK_25_021
+.079461379323822 * BLK_25_026
+.089438620358380 * BLK_25_059
+.150647110683653 * BLK_25_058
+.151527984506511 * BLK_25_C01
+.069375932189430 * BLK_49_104
+-.074271373372588 * BLK_49_284
+.061931688649403 * BLK_48_130
+.069621562850876 * BLK_48_252
+-.071421115458030 * BLK_49_277
+.00117 * LnSFLA_EXTRA)
1 * COST_RCNLDX.

END IF.

FORMATS ESP_ECON (COMMA10.0).

DO IF(PARCEL_TYPE EQ 'S').
  COMPUTE RATIO = ESP_ECON / ADJPRICE.
  COMPUTE RATIO2 = ESP_ECON / SOLDPRICE.
END IF.

INSERT FILE = !Predsintax + 'Prognose\Market 2 2021 Coefficients.sps'
SYNTAX = INTERACTIVE
ERROR = STOP.

COMPUTE DIFF = ESP2 / ESP_ECON.
DESCRIPTIVES DIFF.

COMPUTE DIFF = ESP2 / ESP3.
DESCRIPTIVES DIFF.

IF(PCTCOMPLETE GT 0)CompletePercent = PCTCOMPLETE / 100.
RECODE CompletePercent (SYSMIS = 1).

DO IF(ESP_ECON GT 0).
  COMPUTE Allocated50ImpValue_ECON = TRUNC(ESP_ECON - TOTAL_LAND_ECON).
  * IF(Allocated50LandValue_ECON EQ 0)Allocated50ImpValue_ECON = TRUNC(ESP_ECON -
  LandIssueValue_ECON).
END IF.
RECODE Allocated50ImpValue_ECON (SYSMIS = 0).

```

Market 3 2021 Prediction Prognose.sps

\*BSMT.

```
IF(UNFBSMTX GT 0)LNUNFBSMTX = LN(UNFBSMTX).
IF(FINBSMTX GT 0)LNFINBSMTX = LN(FINBSMTX).
IF(RECBSMTX GT 0)LNRECBSMTX = LN(RECBSMTX).
RECODE LNUNFBSMTX LNFINBSMTX LNRECBSMTX (SYSMIS = 0).
```

```
COMPUTE UNFBSMTX_RATIO = 1 + (UNFBSMTX / 1000).
COMPUTE LN_UNFBSMTX_RATIO = LN(UNFBSMTX_RATIO).
```

```
COMPUTE FINBSMTX_RATIO = 1 + (FINBSMTX / 1000).
COMPUTE LN_FINBSMTX_RATIO = LN(FINBSMTX_RATIO).
```

```
COMPUTE LIN_BSMTx = RND(FINBSMTX + (UNFBSMTX * .5)).
COMPUTE LIN_BSMTx_Ratio = 1 + (LIN_BSMTx / 1000).
COMPUTE LN_LIN_BSMTx_Ratio = LN(LIN_BSMTx_Ratio).
```

```
COMPUTE RECBSMTX_RATIO = 1 + (RECBSMTX / 1000).
COMPUTE LN_RECBSMTX_RATIO = LN(RECBSMTX_RATIO).
```

```
* EXAMINE UNFBSMTX_RATIO FINBSMTX_RATIO RECBSMTX_RATIO /PLOT = NONE /PERCENTILES
/NOTOTAL.
```

```
*****
```

```
*****EFFECTIVE
```

```
AGE*****
```

```
*****
```

```
COMPUTE NEW_DEPR = DEPR.
IF(DEPR GE 90)NEW_DEPR EQ RND(90+((DEPR -90)**1.6)).
RECODE NEW_DEPR (100 THRU HIGHEST EQ 100).
```

```
* COMPUTE PCT_GOOD= DEPR/100.
```

```
DO IF(NEW_DEPR GT 0).
```

```
COMPUTE PCT_GOOD= NEW_DEPR/100.
COMPUTE LN_PCT_GOOD = LN(PCT_GOOD).
```

```
END IF.
```

```
* DESCRIPTIVES PCT_GOOD.
```

```
VARIABLE LABELS PCT_GOOD 'PERCENTAGE OF VALUE LEFT IN UNIT'.
```

```
RECODE LN_PCT_GOOD (SYSMIS = 0).
```

```
EXECUTE.
```

```
*****
```

```
*****
```

```
GARAGES*****
```

```
*****
```

```
*****
```

```
*****
```

```
COMPUTE ATTGARx = Garage.
```

```
COMPUTE BLTINGARx = BsmtGarage.
```

```
COMPUTE DETGARx = GarageDetached_SF.
```

```
COMPUTE CARPORTx = CARPORT + Carport_SF.
```

```
RECODE ATTGARx BLTINGARx DETGARx CARPORTx (LO THRU 10 = 0).
```

```
COMPUTE ATTGARx_RATIO = 1 + (ATTGARx / 480).
COMPUTE LN_ATTGARx_RATIO = LN(ATTGARx_RATIO).
```

```
COMPUTE BLTINGARx_RATIO = 1 + (BLTINGARx / 480).
COMPUTE LN_BLTINGARx_RATIO = LN(BLTINGARx_RATIO).
```

```

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COMPUTE DETGARx_RATIO = 1 + (DETGARx / 480).
COMPUTE LN_DETGARx_RATIO = LN(DETGARx_RATIO).

COMPUTE CARPORTx_RATIO = 1 + (CARPORTx / 480).
COMPUTE LN_CARPORTx_RATIO = LN(CARPORTx_RATIO).
EXECUTE.

COMPUTE AttBltGar = ATTGARx + BLTINGARx.
COMPUTE AttBltGar_RATIO = 1+ (AttBltGar / 480).
COMPUTE LN_AttBltGar_RATIO = LN(AttBltGar_RATIO).

COMPUTE LinDetGarCarport = RND(DETGARx + (CARPORTx *.25)).
COMPUTE LinDetGarCarport_RATIO = 1+ (LinDetGarCarport / 480).
COMPUTE LN_LinDetGarCarport_RATIO = LN(LinDetGarCarport_RATIO).

DO IF( GarageDetached_Depr GT 0).
COMPUTE GarageDetachedPctGood= GarageDetached_Depr/100.
END IF.
RECODE GarageDetachedPctGood (SYSMIS = 1).
COMPUTE LN_GarageDetachedPctGood = LN(GarageDetachedPctGood).
EXECUTE.

COMPUTE ShedX = UtilityBldg + UtilShed_SF.
RECODE ShedX (LO THRU 9 = 0).
COMPUTE ShedX_RATIO = 1 + (shedX / 480).
COMPUTE LN_ShedX_RATIO = LN(ShedX_RATIO).

*****.
*Porch.

COMPUTE TerraceX = RaisedTerrace + Terrace_SF.
COMPUTE PatioX = Patio + PatioPool_SF.
COMPUTE OpenPorchX = OpenPorch + OpenFramePorch_SF + PorchScreened_SF.
COMPUTE Enc1PorchX = Enc1Porch + PoolEnclosure_SF.
COMPUTE WoodDeckX = WoodDeck + WoodDeck_SF.
COMPUTE CanopyX = Canopy + Canopy_SF.
COMPUTE GreenhouseX = Greenhouse + Greenhouse_SF.
COMPUTE BoatDockx = BoatDock_SF.

COMPUTE TerraceX_RATIO = 1 + ((TerraceX) / 350).
COMPUTE LN_TerraceX_RATIO = LN(TerraceX_RATIO).

COMPUTE PatioX_RATIO = 1 + ((PatioX) / 115).
COMPUTE LN_PatioX_RATIO = LN(PatioX_RATIO).

* COMPUTE OpenPorchX_RATIO = 1 + (((OpenPorchX)) / 115).
COMPUTE OpenPorchX_RATIO = 1 + (((OpenPorchX + WoodDeckX)) / 115).
COMPUTE LN_OpenPorchX_RATIO = LN(OpenPorchX_RATIO).

COMPUTE Enc1PorchX_RATIO = 1 + ((Enc1PorchX) / 115).
COMPUTE LN_Enc1PorchX_RATIO = LN(Enc1PorchX_RATIO).

COMPUTE LINPORCH_RATIO = (RND((OpenPorchX * .975) + Enc1PorchX) / 115) + 1.
COMPUTE LN_LINPORCH_RATIO = LN(LINPORCH_RATIO).

COMPUTE WoodDeckX_RATIO = 1 + ((woodDeckX) / 145).
COMPUTE LN_WoodDeckX_RATIO = LN(WoodDeckX_RATIO).

COMPUTE CanopyX_RATIO = 1 + ((CanopyX) / 230).
COMPUTE LN_CanopyX_RATIO = LN(CanopyX_RATIO).

```

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```

COMPUTE GreenhouseX_RATIO = 1 + ((GreenhouseX) / 500).
COMPUTE LN_GreenhouseX_RATIO = LN(GreenhouseX_RATIO).

COMPUTE Gazebo_SF_RATIO = 1 + ((Gazebo_SF) / 180).
COMPUTE LN_Gazebo_SF_RATIO = LN(Gazebo_SF_RATIO).

COMPUTE CabinX = Cabin_SF + OfficeStudio_SF.

COMPUTE CabinX_RATIO = 1 + ((CabinX) / 180).
COMPUTE LN_CabinX_RATIO = LN(CabinX_RATIO).

COMPUTE BathHouse_SF_RATIO = 1 + ((BathHouse_SF) / 180).
COMPUTE LN_BathHouse_SF_RATIO = LN(BathHouse_SF_RATIO).

COMPUTE PoolX = PoolVinyl + PoolConc + PoolConc_SF + PoolFbg1_SF + PoolGuni_SF +
PoolVinyl_SF + SpaJacuzzi_SF.
COMPUTE Enc1PoolX = RND((Enc1PoolLow * .75) + Enc1PoolHigh + PoolEnclosure_SF).

COMPUTE PoolX_RATIO = 1 + ((PoolX) / 800).
COMPUTE LN_PoolX_RATIO = LN(PoolX_RATIO).

COMPUTE Enc1PoolX_RATIO = 1 + ((Enc1PoolX) / 400).
COMPUTE LN_Enc1PoolX_RATIO = LN(Enc1PoolX_RATIO).

COMPUTE TennisCourt_SF_RATIO = 1 + ((TennisCourt_SF) / 180).
COMPUTE LN_TennisCourt_SF_RATIO = LN(TennisCourt_SF_RATIO).

COMPUTE BoatDockx_RATIO = 1 + ((BoatDockx) / 300).
COMPUTE LN_BoatDockx_RATIO = LN(BoatDockx_RATIO).

COMPUTE Barn_RATIO = 1 + ((Barn_SF) / 1600).
COMPUTE LN_Barn_RATIO = LN(Barn_RATIO).

*Elevator.

*****
* QUALITATIVE VARIABLES.

*****
*STYLE.

RECODE STYLE (1 = 1)(ELSE = 0) INTO ST_Ranch. /* 814 SALES - 4088 POP.
RECODE STYLE (2 = 1)(ELSE = 0) INTO ST_RaisedRanch_HiRanch. /* 229 SALES - 1291 POP.
RECODE STYLE (3 = 1)(ELSE = 0) INTO ST_SplitLevel. /* 696 SALES - 3204 POP.
RECODE STYLE (4 = 1)(ELSE = 0) INTO ST_ModifiedRanch. /* 129 SALES - 638 POP.
RECODE STYLE (5 = 1)(ELSE = 0) INTO ST_Cape. /* 1248 SALES - 5892 POP.
* RECODE STYLE (6 = 1)(ELSE = 0) INTO ST_Colonial. /* 3427 SALES - 16104 POP.
* RECODE STYLE (7 = 1)(ELSE = 0) INTO ST_Victorian. /* 2 SALES - 25 POP.
RECODE STYLE (8 = 1)(ELSE = 0) INTO ST_Contemporary. /* 313 SALES - 1593 POP.
RECODE STYLE (9 = 1)(ELSE = 0) INTO ST_Oldstyle. /* 1140 SALES - 5488 POP.
RECODE STYLE (10 = 1)(ELSE = 0) INTO ST_Bungalowcottage. /* 83 SALES - 562 POP.
RECODE STYLE (11 = 1)(ELSE = 0) INTO ST_DuplexOrTriplex. /* 105 SALES - 670 POP.
* RECODE STYLE (12 = 1)(ELSE = 0) INTO ST_MansionEstate. /* 77 SALES - 439 POP.
RECODE STYLE (13 = 1)(ELSE = 0) INTO ST_Townhouse. /* 27 SALES - 79 POP.
* RECODE STYLE (14 = 1)(ELSE = 0) INTO ST_Condo. /* 0 SALES - 0 POP.
* RECODE STYLE (15 = 1)(ELSE = 0) INTO ST_Coop. /* 0 SALES - 0 POP.
RECODE STYLE (16 = 1)(ELSE = 0) INTO ST_HomownerAssoc. /* 3 SALES - 10 POP.
* RECODE STYLE (17 = 1)(ELSE = 0) INTO ST_Other. /* 0 SALES - 3 POP.
RECODE STYLE (18 = 1)(ELSE = 0) INTO ST_Splanch. /* 94 SALES - 528 POP.
* RECODE STYLE (19 = 1)(ELSE = 0) INTO ST_CarriageHouse. /* 0 SALES - 6 POP.
RECODE STYLE (20 = 1)(ELSE = 0) INTO ST_Tudor. /* 8 SALES - 98 POP.

```

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```

* RECODE STYLE (21 = 1)(ELSE = 0) INTO ST_Store_Dwell. /* 0 SALES - 0 POP.

/*Most of these style adjustment are only made when the styles makeup at least 10% of the NBHD.
IF (NBHD EQ 23 AND STYLE EQ 8)stNbhd_23_Contemporary =1.
IF (NBHD EQ 23 AND STYLE EQ 1)stNbhd_23_Ranch =1.
IF (NBHD EQ 23 AND STYLE EQ 3)stNbhd_23_SplitLevel =1.
IF (NBHD EQ 70 AND STYLE EQ 1)stNbhd_70_Ranch =1.
IF (NBHD EQ 70 AND STYLE EQ 5) stNbhd_70_cape = 1.
IF (NBHD EQ 198 AND STYLE EQ 6) stNbhd_198_colonial = 1.
IF (NBHD EQ 198 AND STYLE EQ 1)stNbhd_198_Ranch =1. /*Data is skinny ranch houses make up 16% of the population and sales.
IF (NBHD EQ 82 AND STYLE EQ 5) stNbhd_70_cape = 1.
IF (NBHD EQ 82 AND STYLE EQ 9)stNbhd82Oldstyle =1.
IF (NBHD EQ 199 AND STYLE EQ 5) stNbhd_199_cape = 1.
IF (NBHD EQ 199 AND STYLE EQ 3)stNbhd_199_SplitLevel =1.
IF (NBHD EQ 199 AND STYLE EQ 9)stNbhd_199_Oldstyle =1. /*This seems like a good adjustment. No other data pattern exists to explain high ratios.
IF (NBHD EQ 211 AND STYLE EQ 4)stNbhd_211_ModifiedRanch =1. /*Data is limited but it all falls on one side of the spectrum.
IF (NBHD EQ 258 AND STYLE EQ 6) stNbhd_258_colonial = 1.
IF (NBHD EQ 212 AND STYLE EQ 5) stNbhd_212_cape = 1.
IF (NBHD EQ 219 AND STYLE EQ 6) stNbhd_219_colonial = 1.
IF (NBHD EQ 219 AND STYLE EQ 9)stNbhd_219_OldStyle =1.
IF (NBHD EQ 220 AND STYLE EQ 9)stNbhd_220_OldStyle =1.
IF (NBHD EQ 220 AND STYLE EQ 1)stNbhd_220_Ranch =1.
IF (NBHD EQ 220 AND STYLE EQ 3)stNbhd_220_SplitLevel =1.
IF (NBHD EQ 221 AND STYLE EQ 6) stNbhd_221_colonial = 1.
IF (NBHD EQ 222 AND STYLE EQ 8)stNbhd_222_Contemporary =1.
IF (NBHD EQ 222 AND STYLE EQ 4)stNbhd_222_ModifiedRanch =1.
IF (NBHD EQ 223 AND STYLE EQ 6) stNbhd_223_colonial = 1.
IF (NBHD EQ 223 AND STYLE EQ 3)stNbhd_223_SplitLevel =1. /*only 6, but this seems like a good adjustment.
IF (NBHD EQ 225 AND STYLE EQ 3)stNbhd_225_SplitLevel =1.
IF (NBHD EQ 228 AND STYLE EQ 3)stNbhd_228_SplitLevel =1.
IF (NBHD EQ 239 AND STYLE EQ 3)stNbhd_239_SplitLevel =1.
IF (NBHD EQ 239 AND STYLE EQ 8)stNbhd_239_Contemporary =1.
IF (NBHD EQ 239 AND STYLE EQ 18) stNbhd_239_Splash = 1.
IF (NBHD EQ 245 AND STYLE EQ 12)stNbhd_245_ST_MansionEstate =1.
IF (NBHD EQ 246 AND STYLE EQ 3)stNbhd_246_SplitLevel =1. /*Data is limited but the adjustment is really needed to make the NBHD work.
IF (NBHD EQ 254 AND STYLE EQ 9)stNbhd_254_OldStyle =1. /*Data is limited but the logic is seems solid.
IF (NBHD EQ 263 AND STYLE EQ 9)stNbhd_263_OldStyle =1.
IF (NBHD EQ 265 AND STYLE EQ 2)stNbhd_265_RaisedRanch =1.
IF (NBHD EQ 278 AND STYLE EQ 3)stNbhd_278_SplitLevel =1. /*Data is limited but the logic is seems solid.
IF (NBHD EQ 280 AND STYLE EQ 5) stNbhd_280_cape = 1.
IF (NBHD EQ 281 AND STYLE EQ 18) stNbhd_281_Splash = 1.
IF (NBHD EQ 282 AND STYLE EQ 1)stNbhd_282_Ranch =1.
IF (NBHD EQ 293 AND STYLE EQ 9)stNbhd_293_OldStyle =1. /*Data is limited but the logic is seems solid.
IF (NBHD EQ 294 AND STYLE EQ 6) stNbhd_294_colonial = 1.
IF (NBHD EQ 295 AND STYLE EQ 5) stNbhd_295_cape = 1.
IF (NBHD EQ 296 AND STYLE EQ 6) stNbhd_296_colonial = 1.
IF (NBHD EQ 297 AND STYLE EQ 9)stNbhd_293_OldStyle =1. /*Data is limited but the logic is seems solid.
IF (NBHD EQ 297 AND STYLE EQ 5) stNbhd_297_cape = 1.
IF (NBHD EQ 297 AND STYLE EQ 8)stNbhd_297_Contemporary =1.
IF (NBHD EQ 307 AND STYLE EQ 9)stNbhd_307_OldStyle =1.
IF (NBHD EQ 325 AND STYLE EQ 3)stNbhd_325_SplitLevel =1.
IF (NBHD EQ 326 AND STYLE EQ 8)stNbhd_326_Contemporary =1. /*Data is limited but the logic is seems solid.

```

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```

IF (NBHD EQ 326 AND STYLE EQ 1)stNbhd_326_Ranch =1.
IF (NBHD EQ 326 AND STYLE EQ 9)stNbhd_326_Oldstyle =1.      /*Data is VERY limited
but it all falls on one side of the spectrum.
 * IF (NBHDGroupNum EQ 3 AND STYLE EQ 12)stGroup_3_Mansion=1.
IF (NBHDGroupNum EQ 4 AND STYLE EQ 5)stNbhd_4_cape= 1.
RECODE stNbhd_23_Contemporary TO stNbhd_4_cape (SYSMIS= 0).
FORMATS ST_Ranch TO stNbhd_4_cape (F1.0).

IF (NBHD EQ 23 AND STYLE EQ 8)ST_Contemporary =0.
IF (NBHD EQ 23 AND STYLE EQ 1)ST_Ranch=0.
IF (NBHD EQ 23 AND STYLE EQ 3)ST_SplitLevel =0.
IF (NBHD EQ 70 AND STYLE EQ 5)ST_Cape = 0.
IF (NBHD EQ 70 AND STYLE EQ 1)ST_Ranch=0.
IF (NBHD EQ 82 AND STYLE EQ 5)ST_Cape = 0.
IF (NBHD EQ 82 AND STYLE EQ 9)ST_Oldstyle = 0.
IF (NBHD EQ 198 AND STYLE EQ 1)ST_Ranch=0.
IF (NBHD EQ 199 AND STYLE EQ 5)ST_Cape = 0.
IF (NBHD EQ 199 AND STYLE EQ 3)ST_SplitLevel =0.
IF (NBHD EQ 199 AND STYLE EQ 9)ST_Oldstyle = 0.
IF (NBHD EQ 211 AND STYLE EQ 4)ST_ModifiedRanch = 0.
IF (NBHD EQ 212 AND STYLE EQ 5)ST_Cape = 0.
IF (NBHD EQ 219 AND STYLE EQ 9)ST_Oldstyle = 0.
IF (NBHD EQ 220 AND STYLE EQ 9)ST_Oldstyle = 0.
IF (NBHD EQ 220 AND STYLE EQ 1)ST_Ranch=0.
IF (NBHD EQ 220 AND STYLE EQ 3)ST_SplitLevel =0.
IF (NBHD EQ 222 AND STYLE EQ 8)ST_Contemporary =0.
IF (NBHD EQ 222 AND STYLE EQ 4)ST_ModifiedRanch = 0.
IF (NBHD EQ 223 AND STYLE EQ 3)ST_SplitLevel =0.
IF (NBHD EQ 225 AND STYLE EQ 3)ST_SplitLevel =0.
IF (NBHD EQ 228 AND STYLE EQ 3)ST_SplitLevel =0.
IF (NBHD EQ 239 AND STYLE EQ 3)ST_SplitLevel =0.
IF (NBHD EQ 239 AND STYLE EQ 18)ST_Splanch=0.
IF (NBHD EQ 239 AND STYLE EQ 8)ST_Contemporary =0.
IF (NBHD EQ 246 AND STYLE EQ 3)ST_SplitLevel =0.
IF (NBHD EQ 254 AND STYLE EQ 9)ST_Oldstyle = 0.
IF (NBHD EQ 263 AND STYLE EQ 9)ST_Oldstyle = 0.
IF (NBHD EQ 265 AND STYLE EQ 2)ST_RaisedRanch_HiRanch =0.
IF (NBHD EQ 278 AND STYLE EQ 3)ST_SplitLevel =0.
IF (NBHD EQ 280 AND STYLE EQ 5)ST_Cape = 0.
IF (NBHD EQ 281 AND STYLE EQ 18)ST_Splanch=0.
IF (NBHD EQ 282 AND STYLE EQ 1)ST_Ranch=0.
IF (NBHD EQ 293 AND STYLE EQ 9)ST_Oldstyle = 0.
IF (NBHD EQ 295 AND STYLE EQ 5)ST_Cape = 0.
IF (NBHD EQ 297 AND STYLE EQ 9)ST_Oldstyle = 0.
IF (NBHD EQ 297 AND STYLE EQ 5)ST_Cape = 0.
IF (NBHD EQ 297 AND STYLE EQ 8)ST_Contemporary =0.
IF (NBHD EQ 307 AND STYLE EQ 9)ST_Oldstyle = 0.
IF (NBHD EQ 325 AND STYLE EQ 3)ST_SplitLevel =0.
IF (NBHD EQ 326 AND STYLE EQ 8)ST_Contemporary =0.
IF (NBHD EQ 326 AND STYLE EQ 1)ST_Ranch=0.
IF (NBHD EQ 326 AND STYLE EQ 9)ST_Oldstyle = 0.
* IF (NBHDGroupNum EQ 3 AND STYLE EQ 12)ST_MansionEstate = 0.
IF (NBHDGroupNum EQ 4 AND STYLE EQ 5)ST_Cape = 0.

```

\*\*\*\*\*

\*LUC.

RECODE LUC ("2200", "2300" = 1)(ELSE = 0) INTO TwoThreeFamily..

\*\*\*\*\*

\*QUAL.

```

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* RECODE QUAL (1 = 1)(ELSE = 0) INTO QualEMinus. /* 0 SALES - 0 POP.
* RECODE QUAL (2 = 1)(ELSE = 0) INTO QualE. /* 0 SALES - 0 POP.
* RECODE QUAL (3 = 1)(ELSE = 0) INTO QualEPlus. /* 0 SALES - 0 POP.
* RECODE QUAL (4 = 1)(ELSE = 0) INTO QualDMinus. /* 5 SALES - 41 POP.
* RECODE QUAL (1 = 2)(2 = 1.75)(3 = 1.5)(4 = 1.25)(5 = 1)(ELSE = 0) INTO
QualEMinusQualD. /* 47 SALES - 364 POP.
RECODE QUAL (1 = 2.25)(2 = 2)(3 = 1.75)(4 = 1.5)(5 = 1)(6 = 1)(ELSE = 0) INTO
QualEMinusQualDPlus. /* 30 SALES - 177 POP.
RECODE QUAL (7 = 1)(ELSE = 0) INTO QualCMinus. /* 416 SALES - 2461 POP.
RECODE QUAL (8 = 1)(ELSE = 0) INTO QualC. /* 1623 SALES - 7936 POP.
* RECODE QUAL (9 = 1)(ELSE = 0) INTO QualCPlus. /* 1423 SALES - 7022 POP.
RECODE QUAL (9 = 1.25)(10 = 1)(ELSE = 0) INTO QualCPlusQualBMinus. /* 904 SALES -
4324 POP.
* RECODE QUAL (11 = 1)(ELSE = 0) INTO QualB. /* 1023 SALES - 4940 POP.
RECODE QUAL (12 = 1)(ELSE = 0) INTO QualBPlus. /* 955 SALES - 4317 POP.
RECODE QUAL (13 = 1)(14 = 1.25)(ELSE = 0) INTO QualAMinusQualA. /* 622 SALES - 2712
POP.
* RECODE QUAL (14 = 1)(ELSE = 0) INTO QualA. /* 545 SALES - 2627 POP.
RECODE QUAL (15 = 1)(ELSE = 0) INTO QualAPlus. /* 598 SALES - 2725 POP.
* RECODE QUAL (16 17 = 1)(18 = 1.75)(19 = 1.9)(20 = 2.00)(21 = 2.50)(22 = 3.50)(23
= 4.50)(24=5.50)(ELSE = 0) INTO QualXMinusQualZ. /* 77 SALES - 426 POP.
RECODE QUAL (16 17 = 1)(18 = 1.75)(19 = 1.9)(20 = 2.50)(21 = 3.00)(22 = 4.00)(23 =
5.00)(24=6.50)(ELSE = 0) INTO QualXMinusQualZ. /* 77 SALES - 426 POP.
* RECODE QUAL (17 = 1)(ELSE = 0) INTO QualX. /* 100 SALES - 510 POP.
* RECODE QUAL (18 = 1)(ELSE = 0) INTO QualXPlus. /* 24 SALES - 105 POP.
* RECODE QUAL (19 = 1)(ELSE = 0) INTO QualSMinus. /* 0 SALES - 4 POP.
* RECODE QUAL (20 = 1)(ELSE = 0) INTO QualS. /* 2 SALES - 22 POP.
* RECODE QUAL (21 = 1)(ELSE = 0) INTO QualSPPlus. /* 1 SALES - 2 POP.
* RECODE QUAL (22 = 1)(ELSE = 0) INTO QualZMinus. /* 0 SALES - 1 POP.
* RECODE QUAL (23 = 1)(ELSE = 0) INTO QualZ. /* 0 SALES - 2 POP.
* RECODE QUAL (24 = 1)(ELSE = 0) INTO QualZPlus. /* 0 SALES - 0 POP.

```

```

COMPUTE Qual_210_A_plus=0.
IF (NBHD EQ 210 AND QUAL GE 15)Qual_210_A_plus=1.

```

```

COMPUTE Qual_23_Cminus=0.
IF (NBHD EQ 23 AND QUAL le 8)Qual_23_Cminus=1.

```

```

COMPUTE Qual_211_Aplus=0.
IF (NBHD EQ 211 AND QUAL GE 14)Qual_211_Aplus=1.

```

```

COMPUTE Qual_213_Aplus=0.
IF (NBHD EQ 213 AND QUAL GE 14)Qual_213_Aplus=1.

```

```

COMPUTE Qual_216_Bminus=0.
IF (NBHD EQ 216 AND QUAL le 10)Qual_216_Bminus=1.

```

```

COMPUTE Qual_225_Bplus=0.
IF (NBHD EQ 225 AND QUAL GE 11)Qual_225_Bplus=1.

```

```

COMPUTE Qual_225_Cminus=0.
IF (NBHD EQ 225 AND QUAL le 7)Qual_225_Cminus=1.

```

```

COMPUTE Qual_239_Cminus=0.
IF (NBHD EQ 239 AND QUAL le 7)Qual_239_Cminus=1.

```

```

COMPUTE Qual_245_Bminus=0.
IF (NBHD EQ 245 AND QUAL le 10)Qual_245_Bminus=1.

```

```

COMPUTE Qual_247_Bplus=0.
IF (NBHD EQ 247 AND QUAL GE 12)Qual_247_Bplus=1.

```

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```
COMPUTE Qual_255_Cminus=0.  
IF (NBHD EQ 255 AND QUAL le 7)Qual_255_Cminus=1.  
  
COMPUTE Qual_260_Aplus=0.  
IF (NBHD EQ 260 AND QUAL GE 14)Qual_260_Aplus=1.  
  
COMPUTE Qual_261_A_plus=0.  
IF (NBHD EQ 261 AND QUAL GE 15)Qual_261_A_plus=1.  
  
COMPUTE Qual_262_Bplus=0.  
IF (NBHD EQ 262 AND QUAL GE 12)Qual_262_Bplus=1.  
  
COMPUTE Qual_278_Aplus=0.  
IF (NBHD EQ 278 AND QUAL GE 15)Qual_278_Aplus=1.  
  
COMPUTE Qual_285_Bminusplus=0.  
IF (NBHD EQ 285 AND QUAL GE 10)Qual_285_Bminusplus=1.  
  
COMPUTE Qual_326_Aplus=0.  
IF (NBHD EQ 326 AND QUAL GE 15)Qual_326_Aplus=1.  
  
COMPUTE Qual_263_Aplus=0.  
IF (NBHD EQ 263 AND QUAL GE 15)Qual_263_Aplus=1.
```

```
*****  
*CDU.  
  
* RECODE CDU (1 = 1)(ELSE=0) INTO CDU_Unsound. /* 0 SALES - 0 POP.  
* RECODE CDU (2 = 1)(ELSE=0) INTO CDU_VeryPoor. /* 1 SALES - 2 POP.  
* RECODE CDU (3 = 1)(ELSE=0) INTO CDU_Poor. /* 3 SALES - 11 POP.  
RECODE CDU (1 = 2)(2 = 1.5)(3 = 1.25)(4 = 1)(ELSE=0) INTO CDU_UnsoundFair. /* 137  
SALES - 780 POP.  
* RECODE CDU (5 = 1)(ELSE=0) INTO CDU_Average. /* 1537 SALES - 7951 POP.  
RECODE CDU (6 = 1)(ELSE=0) INTO CDU_Good. /* 4118 SALES - 19189 POP.  
RECODE CDU (7 = 1)(ELSE=0) INTO CDU_VeryGood. /* 2346 SALES - 11504 POP.  
RECODE CDU (8 = 1)(ELSE=0) INTO CDU_Excellent. /* 253 SALES - 1281 POP.
```

```
*****  
*ELEVATED HOUSES.  
* Elevated ElevatedGarage ElevatedCarport.  
* DO IF(Elevated NE '').  
* COMPUTE ElevatedNum = NUMBER(Elevated,F1.0).  
* END IF.  
* RECODE ElevatedNum (SYSMIS = 0).  
* RECODE ElevatedNum (1 THRU HIGHEST = 1)(ELSE = 0) INTO ElevatedHome.  
* IF(ElevatedGarage NE '')ElevatedHome = 1.  
* IF(ElevatedCarport NE '')ElevatedHome = 1.  
* RECODE ElevatedNum (1, 5 = 1)(ELSE = 0) INTO ElevatedCrawlPilings.  
* RECODE ElevatedNum (2, 3, 4 = 1)(ELSE = 0) INTO ElevatedUnfinishedx.  
* DO IF(ElevatedGarage NE '').  
* COMPUTE ElevatedGarageNum = NUMBER(ElevatedGarage,F1.0).  
* END IF.  
* RECODE ElevatedGarageNum (SYSMIS = 0).
```

```
*****  
*EXTWALL.  
RECODE EXTWALL (1 = 1)(ELSE=0) INTO EXT_Frame. /* 2655 SALES - 12587 POP.  
RECODE EXTWALL (2, 9 = 1)(ELSE=0) INTO EXT_Brick. /* 1163 SALES - 5548 POP.  
RECODE EXTWALL (3 = 1)(ELSE=0) INTO EXT_MasFrame. /* 1458 SALES - 6902 POP.  
RECODE EXTWALL (4 = 1)(ELSE=0) INTO EXT_ConcBlock. /* 15 SALES - 39 POP.
```

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```
RECODE EXTWALL (5 = 1)(ELSE=0) INTO EXT_Stucco. /* 694 SALES - 3391 POP.  
* RECODE EXTWALL (6 = 1)(ELSE=0) INTO EXT_AlumVinyl. /* 1914 SALES - 9614 POP.  
RECODE EXTWALL (7 = 1)(10 = 1.15)(ELSE=0) INTO EXT_Stone. /* 22 SALES - 169 POP.  
RECODE EXTWALL (8 = 1)(ELSE=0) INTO EXT_Composition. /* 361 SALES - 1858 POP.  
* RECODE EXTWALL (9 = 1)(10 = 1.5)(ELSE=0) INTO EXT_Masonry. /* 90 SALES - 515 POP.  
  
* RECODE EXTWALL (10 = 1)(ELSE=0) INTO EXT_Log. /* 2 SALES - 2 POP.  
RECODE EXTWALL (11 = 1)(ELSE=0) INTO EXT_CementFiber. /* 21 SALES - 93 POP.
```

\*\*\*\*\*

\*BSMT.

```
RECODE BSMT (0 = 1)(ELSE=0) INTO BSMT_None. /* 587 SALES - 3020 POP.  
RECODE BSMT (1 = 1)(ELSE=0) INTO BSMT_14orSlab. /* 144 SALES - 704 POP.  
RECODE BSMT (2 = 1)(ELSE=0) INTO BSMT12orCrawl. /* 478 SALES - 2410 POP.  
RECODE BSMT (3 = 1)(ELSE=0) INTO BSMT34. /* 525 SALES - 2287 POP.  
* RECODE BSMT (4 = 1)(ELSE=0) INTO BSMT_Full. /* 6661 SALES - 32297 POP.
```

\*\*\*\*\*

\*HEAT.

```
* Will use Heat System Rather Than variable Heat.  
* RECODE HEAT (0, 1 = 1)(ELSE=0) INTO HEAT_None. /* 6 SALES - 23 POP.  
* RECODE HEAT (2 = 1)(ELSE=0) INTO HEAT_NonCntrl. /* 5 SALES - 15 POP.  
* RECODE HEAT (3 = 1)(ELSE=0) INTO HEAT_CntrlHt. /* 3538 SALES - 16195 POP.  
* RECODE HEAT (4 = 1)(ELSE=0) INTO HEAT_CntrlHtAc. /* 4846 SALES - 24485 POP.
```

\*\*\*\*\*

\*FUEL.

```
* RECODE FUEL (1 = 1)(ELSE=0) INTO Oil. /* 5791 SALES - 1 POP.  
RECODE FUEL (2 = 1)(ELSE=0) INTO CoalStoker. /* 7 SALES - 27041 POP.  
RECODE FUEL (3 = 1)(ELSE=0) INTO Gas. /* 2403 SALES - 22 POP.  
* RECODE FUEL (4 = 1)(ELSE=0) INTO CoalHandFired. /* 3 SALES - 12868 POP.  
* RECODE FUEL (5 = 1)(ELSE=0) INTO Solar. /* 2 SALES - 15 POP.  
RECODE FUEL (6 = 1)(ELSE=0) INTO Electric. /* 17 SALES - 5 POP.  
RECODE FUEL (7 = 1)(ELSE=0) INTO FUELOther. /* 167 SALES - 90 POP.  
* RECODE FUEL (8 = 1)(ELSE=0) INTO Geothermal. /* 5 SALES - 623 POP.
```

\*\*\*\*\*

\*HEATSYS.

```
* Will use Heat System Rather Than variable Heat.  
RECODE HEATSYS (1 = 1)(ELSE=0) INTO HtSysSteamVapor. /* 982 SALES - 4401 POP.  
RECODE HEATSYS (2 = 1)(ELSE=0) INTO HtSysHotWater. /* 2114 SALES - 9739 POP.  
* RECODE HEATSYS (3 = 1)(ELSE=0) INTO HtSysElectricSolar. /* 14 SALES - 61 POP.  
RECODE HEATSYS (4 = 1)(7 = 1.25)(ELSE=0) INTO HtSysForcedHotAir. /* 392 SALES - 1645 POP.  
* RECODE HEATSYS (5 = 1)(ELSE=0) INTO HtSysCentralWithAC. /* 4813 SALES - 24384 POP.  
* RECODE HEATSYS (6 = 1)(ELSE=0) INTO HtSysUnused. /* 1 SALES - 2 POP.  
* RECODE HEATSYS (7 = 1)(ELSE=0) INTO HtSysHotAir. /* 24 SALES - 149 POP.  
RECODE HEATSYS (8 = 1)(0, 9 = 1.5)(ELSE=0) INTO HtSysPipelessNoHeat. /* 40 SALES - 204 POP.  
* RECODE HEATSYS (9, 0 = 1)(ELSE=0) INTO HtSysNoHeat. /* 15 SALES - 133 POP.  
EXECUTE.
```

\*\*\*\*\*

\*ATTIC.

\* WILL USE SQFT INSTEAD.

\*\*\*\*\*  
\*ROOFCOVER ROOFTYPE HVACTYPE - WILL TEST IN RATIO STUDY.

COMPUTE FireplaceX = WBFP\_O + WBFP\_S + WBFP\_PF.

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```
DO IF(FireplaceX GT 0).
  COMPUTE LNFireplaceX = LN(FireplaceX).
END IF.
RECODE LNFireplaceX (SYSMIS = 0).
EXECUTE.
```

```
*****.
*BATHS.
```

```
DO IF(FIXTOT GT 0).
  COMPUTE LNFIXTOT = LN(FIXTOT).
END IF.
RECODE LNFIXTOT (SYSMIS = 0).
```

```
* COMPUTE FULL_BATH = FIXBATH.
* COMPUTE HALF_BATH = FIXHALF.
* COMPUTE ADD_FIX = FIXADDL.
```

```
*****.
*LOCATION AND SITE QUALITATIVE VARIABLES.
```

```
*****.
*NBHD.
```

```
RECODE NBHD (23 = 1)(ELSE=0) INTO NBHD23. /* 186 SALES - 889 POP.
RECODE NBHD (34 = 1)(ELSE=0) INTO NBHD34. /* 143 SALES - 1041 POP.
  * RECODE NBHD (70 = 1)(ELSE=0) INTO NBHD70. /* 208 SALES - 1190 POP --- BASE.
RECODE NBHD (82 = 1)(ELSE=0) INTO NBHD82. /* 114 SALES - 595 POP.
RECODE NBHD (198 = 1)(ELSE=0) INTO NBHD198. /* 21 SALES - 271 POP.
RECODE NBHD (199 = 1)(ELSE=0) INTO NBHD199. /* 159 SALES - 1314 POP.
RECODE NBHD (210 = 1)(ELSE=0) INTO NBHD210. /* 42 SALES - 222 POP.
RECODE NBHD (211 = 1)(ELSE=0) INTO NBHD211. /* 30 SALES - 158 POP.
RECODE NBHD (212 = 1)(ELSE=0) INTO NBHD212. /* 148 SALES - 694 POP.
RECODE NBHD (213 = 1)(ELSE=0) INTO NBHD213. /* 82 SALES - 434 POP.
RECODE NBHD (214 = 1)(ELSE=0) INTO NBHD214. /* 34 SALES - 147 POP.
RECODE NBHD (215 = 1)(ELSE=0) INTO NBHD215. /* 7 SALES - 31 POP.
RECODE NBHD (216 = 1)(ELSE=0) INTO NBHD216. /* 189 SALES - 879 POP.
RECODE NBHD (217 = 1)(ELSE=0) INTO NBHD217. /* 185 SALES - 836 POP.
RECODE NBHD (218 = 1)(ELSE=0) INTO NBHD218. /* 276 SALES - 1514 POP.
RECODE NBHD (219 = 1)(ELSE=0) INTO NBHD219. /* 29 SALES - 229 POP.
RECODE NBHD (220 = 1)(ELSE=0) INTO NBHD220. /* 140 SALES - 696 POP.
RECODE NBHD (221 = 1)(ELSE=0) INTO NBHD221. /* 199 SALES - 994 POP.
RECODE NBHD (222 = 1)(ELSE=0) INTO NBHD222. /* 175 SALES - 898 POP.
RECODE NBHD (223 = 1)(ELSE=0) INTO NBHD223. /* 174 SALES - 1264 POP.
RECODE NBHD (224 = 1)(ELSE=0) INTO NBHD224. /* 154 SALES - 733 POP.
RECODE NBHD (225 = 1)(ELSE=0) INTO NBHD225. /* 264 SALES - 1410 POP.
RECODE NBHD (226 = 1)(ELSE=0) INTO NBHD226. /* 352 SALES - 1798 POP.
RECODE NBHD (227 = 1)(ELSE=0) INTO NBHD227. /* 185 SALES - 924 POP.
RECODE NBHD (228 = 1)(ELSE=0) INTO NBHD228. /* 110 SALES - 502 POP.
  * RECODE NBHD (229 = 1)(ELSE=0) INTO NBHD229. /* 0 SALES - 2 POP.
RECODE NBHD (239 = 1)(ELSE=0) INTO NBHD239. /* 178 SALES - 1060 POP.
RECODE NBHD (245 = 1)(ELSE=0) INTO NBHD245. /* 199 SALES - 1355 POP.
RECODE NBHD (246 = 1)(ELSE=0) INTO NBHD246. /* 25 SALES - 169 POP.
RECODE NBHD (247 = 1)(ELSE=0) INTO NBHD247. /* 127 SALES - 577 POP.
RECODE NBHD (248 = 1)(ELSE=0) INTO NBHD248. /* 25 SALES - 115 POP.
RECODE NBHD (249 = 1)(ELSE=0) INTO NBHD249. /* 67 SALES - 253 POP.
RECODE NBHD (250 = 1)(ELSE=0) INTO NBHD250. /* 5 SALES - 29 POP. /*RATIO TEST.
RECODE NBHD (251 = 1)(ELSE=0) INTO NBHD251. /* 13 SALES - 124 POP.
RECODE NBHD (252 = 1)(ELSE=0) INTO NBHD252. /* 41 SALES - 175 POP.
RECODE NBHD (253 = 1)(ELSE=0) INTO NBHD253. /* 18 SALES - 63 POP.
RECODE NBHD (254 = 1)(ELSE=0) INTO NBHD254. /* 22 SALES - 125 POP.
RECODE NBHD (255 = 1)(ELSE=0) INTO NBHD255. /* 63 SALES - 381 POP.
RECODE NBHD (256 = 1)(ELSE=0) INTO NBHD256. /* 40 SALES - 288 POP.
```

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```

RECODE NBHD (257 = 1)(ELSE=0) INTO NBHD257. /* 27 SALES - 145 POP.
RECODE NBHD (258 = 1)(ELSE=0) INTO NBHD258. /* 19 SALES - 88 POP.
RECODE NBHD (259 = 1)(ELSE=0) INTO NBHD259. /* 10 SALES - 39 POP.
RECODE NBHD (260 = 1)(ELSE=0) INTO NBHD260. /* 113 SALES - 605 POP.
RECODE NBHD (261 = 1)(ELSE=0) INTO NBHD261. /* 287 SALES - 1450 POP.
RECODE NBHD (262 = 1)(ELSE=0) INTO NBHD262. /* 102 SALES - 477 POP.
RECODE NBHD (263 = 1)(ELSE=0) INTO NBHD263. /* 51 SALES - 321 POP.
RECODE NBHD (264 = 1)(ELSE=0) INTO NBHD264. /* 85 SALES - 494 POP.
RECODE NBHD (265 = 1)(ELSE=0) INTO NBHD265. /* 263 SALES - 1554 POP.
RECODE NBHD (278 = 1)(ELSE=0) INTO NBHD278. /* 39 SALES - 221 POP.
RECODE NBHD (279 = 1)(ELSE=0) INTO NBHD279. /* 116 SALES - 554 POP.
RECODE NBHD (280 = 1)(ELSE=0) INTO NBHD280. /* 48 SALES - 226 POP.
RECODE NBHD (281 = 1)(ELSE=0) INTO NBHD281. /* 307 SALES - 2397 POP.
RECODE NBHD (282 = 1)(ELSE=0) INTO NBHD282. /* 10 SALES - 73 POP.
RECODE NBHD (283 = 1)(ELSE=0) INTO NBHD283. /* 14 SALES - 55 POP.
RECODE NBHD (284 = 1)(ELSE=0) INTO NBHD284. /* 5 SALES - 28 POP. /*RATIO TEST.
/*limited sales coverage.
RECODE NBHD (285 = 1)(ELSE=0) INTO NBHD285. /* 16 SALES - 57 POP.
* RECODE NBHD (286 = 1)(ELSE=0) INTO NBHD286. /* 11 SALES - 47 POP.
RECODE NBHD (286 287= 1)(ELSE=0) INTO NBHD286_7. /* 11 SALES - 47 POP.
* RECODE NBHD (287 = 1)(ELSE=0) INTO NBHD287. /* 1 SALES - 10 POP. /*RATIO TEST.
RECODE NBHD (288 = 1)(ELSE=0) INTO NBHD288. /* 15 SALES - 83 POP.
* RECODE NBHD (288, 289 = 1)(ELSE=0) INTO NBHD288_9.
* RECODE NBHD (289 = 1)(ELSE=0) INTO NBHD289. /* 5 SALES - 36 POP. /*RATIO TEST.
RECODE NBHD (290 = 1)(ELSE=0) INTO NBHD290. /* 21 SALES - 108 POP.
RECODE NBHD (291 = 1)(ELSE=0) INTO NBHD291. /* 21 SALES - 88 POP.
RECODE NBHD (293 = 1)(ELSE=0) INTO NBHD293. /* 43 SALES - 254 POP.
RECODE NBHD (294 = 1)(ELSE=0) INTO NBHD294. /* 142 SALES - 950 POP.
RECODE NBHD (295 = 1)(ELSE=0) INTO NBHD295. /* 118 SALES - 852 POP.
RECODE NBHD (296 = 1)(ELSE=0) INTO NBHD296. /* 78 SALES - 627 POP.
RECODE NBHD (297 = 1)(ELSE=0) INTO NBHD297. /* 144 SALES - 782 POP.
RECODE NBHD (298 = 1)(ELSE=0) INTO NBHD298. /* 118 SALES - 647 POP.
RECODE NBHD (307 = 1)(ELSE=0) INTO NBHD307. /* 179 SALES - 1065 POP.
RECODE NBHD (325 = 1)(ELSE=0) INTO NBHD325. /* 32 SALES - 181 POP.
RECODE NBHD (326 = 1)(ELSE=0) INTO NBHD326. /* 113 SALES - 540 POP.
* RECODE NBHD (327 = 1)(ELSE=0) INTO NBHD327. /* 5 SALES - 32 POP. /*RATIO TEST.
RECODE NBHD (327 = 1)(328=1)(ELSE=0) INTO NBHD327_8.
* RECODE NBHD (328 = 1)(ELSE=0) INTO NBHD328. /* 3 SALES - 12 POP. /*RATIO TEST.
RECODE NBHD (330 = 1)(ELSE=0) INTO NBHD330. /* 149 SALES - 1106 POP.
FORMATS NBHD23 TO NBHD330 (F1.0).
COMPUTE NBHD_CHECK = SUM(NBHD23 TO NBHD330).
FREQUENCIES NBHD_CHECK.
```

TEMPORARY.  
SELECT IF(NBHD\_CHECK EQ 0).  
FREQUENCIES NBHD.

```

IF (ANY(SECBLOCK, "01 059"))BLK_01_059 = 1.
IF (ANY(SECBLOCK, "01 066"))BLK_01_066 = 1.
IF (ANY(SECBLOCK, "01 082"))BLK_01_082 = 1.
IF (ANY(SECBLOCK, "01 097"))BLK_01_097 = 1.
IF (ANY(SECBLOCK, "01 099"))BLK_01_099 = 1.
IF (ANY(SECBLOCK, "01 133"))BLK_01_133 = 1.
IF (ANY(SECBLOCK, "01 148"))BLK_01_148 = 1.
IF (ANY(SECBLOCK, "01 164"))BLK_01_164 = 1.
IF (ANY(SECBLOCK, "01 177"))BLK_01_177 = 1.
IF (ANY(SECBLOCK, "01 187"))BLK_01_187 = 1.
IF (ANY(SECBLOCK, "01 194"))BLK_01_194 = 1.
IF (ANY(SECBLOCK, "02 248"))BLK_02_248 = 1.
IF (ANY(SECBLOCK, "02 269"))BLK_02_269 = 1.
IF (ANY(SECBLOCK, "02 28002"))BLK_02_28002 = 1.
IF (ANY(SECBLOCK, "02 300"))BLK_02_300 = 1.
```

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```
IF (ANY(SECBLOCK, "02 308"))BLK_02_308 = 1.  
IF (ANY(SECBLOCK, "02 312"))BLK_02_312 = 1.  
IF (ANY(SECBLOCK, "02 318"))BLK_02_318 = 1.  
IF (ANY(SECBLOCK, "02 326"))BLK_02_326 = 1.  
IF (ANY(SECBLOCK, "02 343"))BLK_02_343 = 1.  
IF (ANY(SECBLOCK, "02 346"))BLK_02_346 = 1.  
IF (ANY(SECBLOCK, "02 355"))BLK_02_355 = 1.  
IF (ANY(SECBLOCK, "03 00501"))BLK_03_00501 = 1.  
IF (ANY(SECBLOCK, "03 009"))BLK_03_009 = 1.  
IF (ANY(SECBLOCK, "03 012"))BLK_03_012 = 1.  
IF (ANY(SECBLOCK, "03 016"))BLK_03_016 = 1.  
IF (ANY(SECBLOCK, "03 019"))BLK_03_019 = 1.  
IF (ANY(SECBLOCK, "03 020"))BLK_03_020 = 1.  
IF (ANY(SECBLOCK, "03 025"))BLK_03_025 = 1.  
IF (ANY(SECBLOCK, "03 050"))BLK_03_050 = 1.  
IF (ANY(SECBLOCK, "03 058"))BLK_03_058 = 1.  
IF (ANY(SECBLOCK, "03 06602"))BLK_03_06602 = 1.  
IF (ANY(SECBLOCK, "03 068"))BLK_03_068 = 1.  
IF (ANY(SECBLOCK, "03 069"))BLK_03_069 = 1.  
IF (ANY(SECBLOCK, "03 073"))BLK_03_073 = 1.  
IF (ANY(SECBLOCK, "03 076"))BLK_03_076 = 1.  
IF (ANY(SECBLOCK, "03 086"))BLK_03_086 = 1.  
IF (ANY(SECBLOCK, "03 096"))BLK_03_096 = 1.  
IF (ANY(SECBLOCK, "03 100"))BLK_03_100 = 1.  
IF (ANY(SECBLOCK, "03 129"))BLK_03_129 = 1.  
IF (ANY(SECBLOCK, "03 13901"))BLK_03_13901 = 1.  
IF (ANY(SECBLOCK, "03 141"))BLK_03_141 = 1.  
IF (ANY(SECBLOCK, "03 163"))BLK_03_163 = 1.  
IF (ANY(SECBLOCK, "03 168"))BLK_03_168 = 1.  
IF (ANY(SECBLOCK, "03 178"))BLK_03_178 = 1.  
IF (ANY(SECBLOCK, "03 182"))BLK_03_182 = 1.  
IF (ANY(SECBLOCK, "03 184"))BLK_03_184 = 1.  
IF (ANY(SECBLOCK, "03 191"))BLK_03_191 = 1.  
IF (ANY(SECBLOCK, "03 195"))BLK_03_195 = 1.  
IF (ANY(SECBLOCK, "03 198"))BLK_03_198 = 1.  
IF (ANY(SECBLOCK, "03 200"))BLK_03_200 = 1.  
IF (ANY(SECBLOCK, "03 217"))BLK_03_217 = 1.  
IF (ANY(SECBLOCK, "04 B"))BLK_04_B = 1.  
IF (ANY(SECBLOCK, "04 J"))BLK_04_J = 1.  
IF (ANY(SECBLOCK, "04 045"))BLK_04_045 = 1.  
IF (ANY(SECBLOCK, "04 046"))BLK_04_046 = 1.  
IF (ANY(SECBLOCK, "04 067"))BLK_04_067 = 1.  
IF (ANY(SECBLOCK, "04 075"))BLK_04_075 = 1.  
IF (ANY(SECBLOCK, "04 080"))BLK_04_080 = 1.  
IF (ANY(SECBLOCK, "04 114"))BLK_04_114 = 1.  
IF (ANY(SECBLOCK, "05 C"))BLK_05_C = 1.  
IF (ANY(SECBLOCK, "05 G"))BLK_05_G = 1.  
IF (ANY(SECBLOCK, "05 00401"))BLK_05_00401 = 1.  
IF (ANY(SECBLOCK, "05 028"))BLK_05_028 = 1.  
IF (ANY(SECBLOCK, "05 043"))BLK_05_043 = 1.  
IF (ANY(SECBLOCK, "05 044"))BLK_05_044 = 1.  
IF (ANY(SECBLOCK, "05 046"))BLK_05_046 = 1.  
IF (ANY(SECBLOCK, "05 062"))BLK_05_062 = 1.  
IF (ANY(SECBLOCK, "05 068"))BLK_05_068 = 1.  
IF (ANY(SECBLOCK, "05 084"))BLK_05_084 = 1.  
IF (ANY(SECBLOCK, "05 092"))BLK_05_092 = 1.  
IF (ANY(SECBLOCK, "05 118"))BLK_05_118 = 1.  
IF (ANY(SECBLOCK, "05 137"))BLK_05_137 = 1.  
IF (ANY(SECBLOCK, "05 152"))BLK_05_152 = 1.  
IF (ANY(SECBLOCK, "05 156"))BLK_05_156 = 1.  
IF (ANY(SECBLOCK, "05 J03"))BLK_05_J03 = 1.  
IF (ANY(SECBLOCK, "06 015"))BLK_06_015 = 1.  
IF (ANY(SECBLOCK, "06 05304"))BLK_06_05304 = 1.
```

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```
IF (ANY(SECBLOCK, "06 055"))BLK_06_055 = 1.  
IF (ANY(SECBLOCK, "06 066"))BLK_06_066 = 1.  
IF (ANY(SECBLOCK, "06 082"))BLK_06_082 = 1.  
IF (ANY(SECBLOCK, "08 A"))BLK_08_A = 1.  
IF (ANY(SECBLOCK, "08 256"))BLK_08_256 = 1.  
IF (ANY(SECBLOCK, "08 263"))BLK_08_263 = 1.  
IF (ANY(SECBLOCK, "08 285"))BLK_08_285 = 1.  
IF (ANY(SECBLOCK, "08 K06"))BLK_08_K06 = 1.  
IF (ANY(SECBLOCK, "08 K09"))BLK_08_K09 = 1.  
IF (ANY(SECBLOCK, "10 348"))BLK_10_348 = 1.  
IF (ANY(SECBLOCK, "10 D"))BLK_10_D = 1.  
IF (ANY(SECBLOCK, "14 013"))BLK_14_013 = 1.  
IF (ANY(SECBLOCK, "14 030"))BLK_14_030 = 1.  
IF (ANY(SECBLOCK, "15 199"))BLK_15_199 = 1.  
IF (ANY(SECBLOCK, "16 B"))BLK_16_B = 1.  
IF (ANY(SECBLOCK, "16 003"))BLK_16_003 = 1.  
IF (ANY(SECBLOCK, "18 D"))BLK_18_D = 1.  
IF (ANY(SECBLOCK, "18 004"))BLK_18_004 = 1.  
IF (ANY(SECBLOCK, "20 089"))BLK_20_089 = 1.  
IF (ANY(SECBLOCK, "20 J07"))BLK_20_J07 = 1.  
IF (ANY(SECBLOCK, "22 B"))BLK_22_B = 1.  
IF (ANY(SECBLOCK, "22 E"))BLK_22_E = 1.  
IF (ANY(SECBLOCK, "22 G"))BLK_22_G = 1.  
IF (ANY(SECBLOCK, "22 H"))BLK_22_H = 1.  
IF (ANY(SECBLOCK, "22 K"))BLK_22_K = 1.  
IF (ANY(SECBLOCK, "22 027"))BLK_22_027 = 1.  
IF (ANY(SECBLOCK, "22 F01"))BLK_22_F01 = 1.  
IF (ANY(SECBLOCK, "24 002"))BLK_24_002 = 1.  
IF (ANY(SECBLOCK, "25 B"))BLK_25_B = 1.  
IF (ANY(SECBLOCK, "25 057"))BLK_25_057 = 1.  
IF (ANY(SECBLOCK, "26 E"))BLK_26_E = 1.  
IF (ANY(SECBLOCK, "26 002"))BLK_26_002 = 1.  
IF (ANY(SECBLOCK, "27 H"))BLK_27_H = 1.  
IF(SUMLAND LT 43560)BLK_27_H = 0.  
IF (ANY(SECBLOCK, "27 E"))BLK_27_E = 1.  
IF (ANY(SECBLOCK, "27 013"))BLK_27_013 = 1.  
IF (ANY(SECBLOCK, "27 040"))BLK_27_040 = 1.  
IF (ANY(SECBLOCK, "27 059"))BLK_27_059 = 1.  
IF (ANY(SECBLOCK, "28 B"))BLK_28_B = 1.  
IF (ANY(SECBLOCK, "28 028"))BLK_28_028 = 1.  
IF (ANY(SECBLOCK, "29 J"))BLK_29_J = 1.  
IF (ANY(SECBLOCK, "29 M"))BLK_29_M = 1.  
IF (ANY(SECBLOCK, "29 001"))BLK_29_001 = 1.  
IF (ANY(SECBLOCK, "29 028"))BLK_29_028 = 1.  
IF (ANY(SECBLOCK, "29 062"))BLK_29_062 = 1.  
IF (ANY(SECBLOCK, "29 071"))BLK_29_071 = 1.  
IF (ANY(SECBLOCK, "29 077"))BLK_29_077 = 1.  
IF (ANY(SECBLOCK, "29 D12"))BLK_29_D12 = 1.  
IF (ANY(SECBLOCK, "29 R03"))BLK_29_R03 = 1.  
IF (ANY(SECBLOCK, "30 H"))BLK_30_H = 1.  
IF (ANY(SECBLOCK, "30 033"))BLK_30_033 = 1.  
IF (ANY(SECBLOCK, "30 065"))BLK_30_065 = 1.  
IF (ANY(SECBLOCK, "40 206"))BLK_40_206 = 1.  
IF (ANY(SECBLOCK, "41 023"))BLK_41_023 = 1.  
IF (ANY(SECBLOCK, "41 028"))BLK_41_028 = 1.  
IF (ANY(SECBLOCK, "41 086"))BLK_41_086 = 1.  
IF (ANY(SECBLOCK, "41 090"))BLK_41_090 = 1.  
IF (ANY(SECBLOCK, "41 103"))BLK_41_103 = 1.  
IF (ANY(SECBLOCK, "41 109"))BLK_41_109 = 1.  
IF (ANY(SECBLOCK, "42 213"))BLK_42_213 = 1.
```

RECODE BLK\_01\_059 TO BLK\_42\_213 (SYSMIS = 0).  
FORMATS BLK\_01\_059 TO BLK\_42\_213 (F1.0).

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```
COMPUTE NBHD_TAXDIST_511 = 0.  
IF (TAXDIST EQ '511' AND NBHD EQ 280)NBHD_TAXDIST_511 = 1.  
  
COMPUTE NBHD_TAXDIST_721 = 0.  
IF (TAXDIST EQ '721' )NBHD_TAXDIST_721 = 1.  
  
COMPUTE NBHD_TAXDIST_742 = 0.  
IF (TAXDIST EQ '742' )NBHD_TAXDIST_742 = 1.  
  
COMPUTE NBHD_TAXDIST_813 = 0.  
IF (TAXDIST EQ '813' )NBHD_TAXDIST_813 = 1.  
*****  
*WaterAttribute.  
* None is base.  
  
* recode waterattribute ('' = 'NA').  
  
* RECODE WATERATTRIBUTE ('2' = 1)(ELSE = 0) INTO Water_Primary. /* 0 SALES - 0 POP.  
* RECODE WATERATTRIBUTE ('2B', '20', '2S' = 1)(ELSE = 0) INTO Water_Bay. /* 68  
SALES - 436 POP.  
* RECODE WATERATTRIBUTE ('2C' = 1)(ELSE = 0) INTO Water_Canal. /* 22 SALES - 108  
POP.  
* RECODE WATERATTRIBUTE ('2L' = 1)(ELSE = 0) INTO Water_Lake. /* 15 SALES - 101  
POP.  
* RECODE WATERATTRIBUTE ('2O' = 1)(ELSE = 0) INTO Water_Ocean. /* 0 SALES - 0 POP.  
* RECODE WATERATTRIBUTE ('2S' = 1)(ELSE = 0) INTO Water_Sound. /* 65 SALES - 314  
POP.  
* RECODE WATERATTRIBUTE ('2W' = 1)(ELSE = 0) INTO Water_WaterView. /* 100 SALES -  
563 POP.  
* RECODE WATERATTRIBUTE ('NA' = 1)(ELSE = 0) INTO Water_None. /* 8125 SALES - 39196  
POP.  
  
COMPUTE Water_BayX = Water_Bay.  
IF(SUM(Water_Sound, Water_Ocean) GT 0)Water_BayX = 0.  
COMPUTE Water_CanalX = Water_Canal.  
COMPUTE Water_LakeX = Water_Lake.  
COMPUTE Water_OceanX = Water_Ocean.  
COMPUTE Water_SoundX = Water_Sound.  
COMPUTE Water_WaterViewX = Water_WaterView.  
IF(PARID EQ '01154 00320')Water_BayX = .20.  
IF(PARID EQ '01154 00310')Water_BayX = 0.  
IF(PARID EQ '01154 00310')Water_WaterViewX = 1.  
IF(SUM(Water_BayX, Water_CanalX, Water_OceanX, Water_SoundX) GT 0)Water_WaterViewX =  
0.  
  
COMPUTE WATER_viewGroup14 = 0.  
IF ( Water_WaterView EQ 1 AND nbhdgroupnum eq 14 and NBHD NE 223) WATER_viewGroup14  
= 1.  
* FREQUENCIES WATER_viewGroup13.  
IF ( Water_WaterView EQ 1 AND nbhdgroupnum eq 14 and NBHD NE 223) Water_WaterViewX =  
0.  
  
COMPUTE WATER_LAkeGroup13 = 0.  
IF ( Water_Lake EQ 1 AND nbhdgroupnum eq 13) WATER_LAkeGroup13 = 1.  
IF ( Water_Lake EQ 1 AND nbhdgroupnum eq 13) Water_LakeX = 0.  
  
* COMPUTE NBHD_213_canal = 0.  
* IF (Water_Bay EQ 1 AND (ANY(NBHD, 213))) NBHD_213_canal = 1.  
* IF (NBHD_213_canal EQ 1) Water_canal = 0.  
  
COMPUTE WATER_ViewGroup13 = 0.  
IF (Water_WaterView EQ 1 AND nbhdgroupnum eq 13 ) WATER_ViewGroup13 = 1.
```

```

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IF (Water_WaterView EQ 1 AND nbhdgroupnum eq 13 ) Water_WaterViewX = 0.

COMPUTE NBHD_223_WATER_View = 0.
IF (Water_WaterView EQ 1 AND (ANY(NBHD, 223)))NBHD_223_WATER_View= 1.
IF (NBHD_223_WATER_View EQ 1) Water_WaterViewX = 0.

* COMPUTE NBHD_220_WATER_View = 0.
* IF (Water_WaterView EQ 1 AND (ANY(NBHD, 220)))NBHD_220_WATER_View= 1.
* IF (NBHD_220_WATER_View EQ 1) Water_WaterView = 0.

COMPUTE Water_BayGroup_5 = 0.
IF ( Water_Bay EQ 1 AND nbhdgroupnum eq 5) Water_BayGroup_5 = 1.
IF ( Water_Bay EQ 1 AND nbhdgroupnum eq 5) Water_BayX = 0.

COMPUTE NBHD_290_BAY = 0.
IF (water_Bay EQ 1 AND (ANY(NBHD, 290))) NBHD_290_BAY = 1.
IF (NBHD_290_BAY EQ 1) Water_BayX = 0.

COMPUTE NBHD_297_BAY = 0.
IF (water_Bay EQ 1 AND (ANY(NBHD, 297))) NBHD_297_BAY = 1.
IF (NBHD_297_BAY EQ 1) Water_BayX = 0.

COMPUTE NBHD_245_BAY = 0.
IF (Water_Bay NE 0 AND (ANY(NBHD, 245))) NBHD_245_BAY = Water_BayX.
IF (NBHD_245_BAY EQ 1) Water_BayX = 0.

COMPUTE NBHD_220_BAY = 0.
IF (Water_Bay EQ 1 AND (ANY(NBHD, 220))) NBHD_220_BAY = 1.
IF (NBHD_220_BAY EQ 1) Water_BayX = 0.

COMPUTE NBHD_222_BAY = 0.
IF (water_Bay EQ 1 AND (ANY(NBHD, 222))) NBHD_222_BAY = 1.
IF (NBHD_222_BAY EQ 1) Water_BayX = 0.
FORMATS WATER_viewGroup14 TO NBHD_222_BAY (F1.0).

*****
*****THESE ARE NOW CREATED AS BINARIES IN THE PROGNOSIS VIEW.
*****Location***.
***** Fronting***.
*****Traffic***.
*****.
*TOPO.
*None and Level are base.
* RECODE TOPO1 (0 = 1)(ELSE=0) INTO TopoNone. /* 2 SALES - 21 POP.
* RECODE TOPO1 (1 = 1)(ELSE=0) INTO TopoLevel. /* 8369 SALES - 40564 POP.
* RECODE TOPO1 (2 = 1)(ELSE=0) INTO TopoAboveStreet. /* 13 SALES - 67 POP.
* RECODE TOPO1 (3 = 1)(ELSE=0) INTO TopoBelowStreet. /* 3 SALES - 9 POP.
* RECODE TOPO1 (4 = 1)(ELSE=0) INTO TopoRolling. /* 1 SALES - 19 POP.
* RECODE TOPO1 (5 = 1)(ELSE=0) INTO TopoSteep. /* 7 SALES - 37 POP.
* RECODE TOPO1 (6 = 1)(ELSE=0) INTO TopoLow. /* 0 SALES - 0 POP.
* RECODE TOPO1 (7 = 1)(ELSE=0) INTO TopoSwampy. /* 0 SALES - 1 POP.

* RECODE TOPO1 (3, 4, 5, 7 = 1)(ELSE=0) INTO TopoBelowStreetRollingSteepSwampy. /*

```

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will combine BelowStreet Rolling Steep and Swampy.

```
*****
*COST CONSTRAINTS.

COMPUTE ExtraImpsCost = SUM(RCNVAL2, RCNVAL3).
COMPUTE Cabin_OfficeStudioCost = SUM(Cabin_ADJRCNLD, OfficeStudio_ADJRCNLD,
Clubhouse_ADJRCNLD).
COMPUTE UtilityCost = SUM(UtilityBldgRCNLD, UtilShed_ADJRCNLD).
COMPUTE AGCost = SUM(AGBldgs_ADJRCNLD, Barn_ADJRCNLD).
COMPUTE GreenhouseCost = SUM(GreenhouseRCNLD, Greenhouse_ADJRCNLD).
COMPUTE PoolCost = SUM(PoolVinylRCNLD, PoolConcRCNLD, PoolFbgl_ADJRCNLD,
PoolGuni_ADJRCNLD, PoolVinyl1_ADJRCNLD).
COMPUTE EnclPoolCost = SUM(EnclPoolLowRCNLD, EnclPoolHighRCNLD,
PoolEnclosure_ADJRCNLD).
*BathHouse_ADJRCNLD.
COMPUTE WallCost = SUM(Fence_ADJRCNLD, Masonrywall_ADJRCNLD, Paving_ADJRCNLD).
COMPUTE MiscImpCost = SUM(TennisCourt_ADJRCNLD, Cellar_ADJRCNLD, MiscAddnRCNLD).
*ElevatorRCNLD.
COMPUTE MiscWaterImpCost = SUM(BoatDock_ADJRCNLD, BoatHouseEnclosed_ADJRCNLD,
BoatHouseOpen_ADJRCNLD, BoatSlip_ADJRCNLD,
Bulkhead_ADJRCNLD,
Seawall_ADJRCNLD).
COMPUTE MiscCoverCost = SUM(Canopy_ADJRCNLD, Gazebo_ADJRCNLD).

COMPUTE COST_RCNLDX_P = SUM(Cabin_OfficeStudioCost_P, AGCost_P, EnclPoolCost_P,
WallCost_P, MiscImpCost_P, MiscWaterImpCost_P, MiscCoverCost_P,
SpaJacuzzi_ADJRCNLD_P).
COMPUTE COST_RCNLDX = SUM(Cabin_OfficeStudioCost, AGCost, EnclPoolCost, WallCost,
MiscImpCost, MiscWaterImpCost,
MiscCoverCost,
SpaJacuzzi_ADJRCNLD).
RECODE COST_RCNLDX (SYSMIS = 0).
FORMATS ExtraImpsCost Cabin_OfficeStudioCost UtilityCost AGCost GreenhouseCost
PoolCost
EnclPoolCost WallCost MiscImpCost MiscWaterImpCost COST_RCNLDX COST_RCNLDX_P
(COMMA10.0).

TEMPORARY.
SELECT IF(COST_RCNLDX GT 0).
DESCRIPTIVES COST_RCNLDX COST_RCNLDX_P .

COMPUTE LOC_MajorHighwayX = LOC_MajorHighway.
COMPUTE LOC_SecondaryStreetX = LOC_SecondaryStreet.
COMPUTE LOC_LongIslandRailRoadX = LOC_LongIslandRailRoad.
COMPUTE LOC_CommercialOrIndustrialX = LOC_CommercialOrIndustrial.
COMPUTE LOC_ApartmentBuildingX = LOC_ApartmentBuilding.
COMPUTE LOC_SchoolX = LOC_School.
COMPUTE FR_MajorStripX = FR_MajorStrip.
COMPUTE FR_SecondaryArteryX = FR_SecondaryArtery.
COMPUTE TrafficMediumX = TrafficMedium.
COMPUTE TrafficHeavyX = TrafficHeavy.
FORMATS LOC_MajorHighwayX TO TrafficHeavyX (F1.0).

DO IF(SUMLAND GE 871200).
COMPUTE LOC_MajorHighwayX = 0.
COMPUTE LOC_SecondaryStreetX = 0.
COMPUTE LOC_LongIslandRailRoadX = 0.
COMPUTE LOC_CommercialOrIndustrialX = 0.
COMPUTE LOC_ApartmentBuildingX = 0.
COMPUTE LOC_SchoolX = 0.
COMPUTE FR_MajorStripX = 0.
```

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```
COMPUTE FR_SecondaryArteryX = 0.  
COMPUTE TrafficMediumX = 0.  
COMPUTE TrafficHeavyX = 0.  
END IF.  
  
*****PREDICTION*****  
* DO IF( PARCEL_TYPE EQ 'S').  
* COMPUTE ADJPRICE = SOLDPRICE.  
* COMPUTE ADJPRICE = TAS.P.  
* END IF.  
  
*****  
* LAND VALUE.  
  
COMPUTE PCT_GOOD_ADJ = EXP(      + 0.240372210462205 * LN_PCT_GOOD).  
  
COMPUTE Water_ADJ = EXP(      + 0.375058750159730 * Water_BayX  
+ 0.534890006596434 * Water_SoundX  
+ 0.106409209973469 * Water_CanalX  
+ 0.054152689045670 * Water_WaterViewX  
+ 0.222831672338114 * WATER_viewGroup14  
+ 0.196697734267237 * WATER_LAkeGroup13  
+ 0.224505179608634 * WATER_ViewGroup13  
+ 0.277527291300173 * NBHD_223_WATER_View  
+ 0.206955904531147 * Water_BayGroup_5  
+ 0.565277457151813 * NBHD_290_BAY  
+ 0.581211602471974 * NBHD_297_BAY  
+ 0.644418256527290 * NBHD_245_BAY  
+ 0.349789203094001 * NBHD_220_BAY  
+ 0.908056726188494 * NBHD_222_BAY).  
COMPUTE LOC_ADJ = EXP(      +-0.061417793288794 * LOC_MajorHighway  
+-0.048680080045764 * LOC_SecondaryStreet  
+-0.111249159784383 * LOC_LongIslandRailRoad  
+-0.060282678840256 * LOC_CommercialOrIndustrial  
+-0.039797926642701 * LOC_ApartmentBuilding  
+-0.030180875519192 * LOC_School);  
COMPUTE FRONTING_ADJ = EXP(      +-0.068977405949314 * FR_MajorStrip  
+-0.084935299177916 * FR_SecondaryArtery  
+ 0.023011978198188 * FR_PrivateRoad).  
COMPUTE TRAFFIC_ADJ = EXP(      +-0.009042971884461 * TrafficMedium  
+-0.167718221995529 * TrafficHeavy).  
  
COMPUTE SITEADJ = Water_ADJ * LOC_ADJ * FRONTING_ADJ * TRAFFIC_ADJ .  
COMPUTE SUM_Acres = SUMLANDX / 43560.  
  
* COMPUTE TEMP1 = ESP_ECON * .50.  
* IF(NBHD EQ 224)TEMP1 = ESP_ECON * .30.  
  
* AGGREGATE  
/OUTFILE = * MODEL=ADDVARIABLES  
/BREAK = NBHD  
/BaseValue = MEDIAN(TEMP1)  
/LandSqftMedian = median(SUMLANDX).  
  
COMPUTE BaseValue = 300000.  
IF(NBHD EQ 23)Basevalue = 1077921.296183300.  
IF(NBHD EQ 34)Basevalue = 397925.233037901.  
IF(NBHD EQ 70)Basevalue = 473909.177777907.  
IF(NBHD EQ 82)Basevalue = 779222.395902518.  
IF(NBHD EQ 198)Basevalue = 830006.272344020.  
IF(NBHD EQ 199)BaseValue = 671491.434643551.  
IF(NBHD EQ 210)Basevalue = 649659.330795896.
```

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IF(NBHD EQ 211)BaseValue = 664892.299988620.  
IF(NBHD EQ 212)BaseValue = 368475.609973477.  
IF(NBHD EQ 213)BaseValue = 620794.994569088.  
IF(NBHD EQ 214)BaseValue = 773588.628502294.  
IF(NBHD EQ 215)BaseValue = 1227632.299568530.  
IF(NBHD EQ 216)BaseValue = 847155.856783503.  
IF(NBHD EQ 217)BaseValue = 914115.633343920.  
IF(NBHD EQ 218)BaseValue = 592618.258655386.  
IF(NBHD EQ 219)BaseValue = 347887.498247732.  
IF(NBHD EQ 220)BaseValue = 1222006.353774180.  
IF(NBHD EQ 221)BaseValue = 940005.156040837.  
IF(NBHD EQ 222)BaseValue = 1175612.808566820.  
IF(NBHD EQ 223)BaseValue = 348901.045135716.  
IF(NBHD EQ 224)BaseValue = 276042.547138002.  
IF(NBHD EQ 225)BaseValue = 550028.880933377.  
IF(NBHD EQ 226)BaseValue = 385607.998256163.  
IF(NBHD EQ 227)BaseValue = 464378.601898589.  
IF(NBHD EQ 228)BaseValue = 565573.423675213.  
IF(NBHD EQ 229)BaseValue = 847383.454066374.  
IF(NBHD EQ 245)BaseValue = 1223393.776968600.  
IF(NBHD EQ 246)BaseValue = 514164.869976297.  
IF(NBHD EQ 247)BaseValue = 505500.296773564.  
IF(NBHD EQ 248)BaseValue = 461960.166922675.  
IF(NBHD EQ 249)BaseValue = 478432.495560247.  
IF(NBHD EQ 250)BaseValue = 642827.318367206.  
IF(NBHD EQ 251)BaseValue = 521701.163198696.  
IF(NBHD EQ 252)BaseValue = 576067.377615506.  
IF(NBHD EQ 253)BaseValue = 394392.426918203.  
IF(NBHD EQ 254)BaseValue = 517513.786051945.  
IF(NBHD EQ 255)BaseValue = 431038.585791115.  
IF(NBHD EQ 256)BaseValue = 420769.520180124.  
IF(NBHD EQ 257)BaseValue = 434024.899640394.  
IF(NBHD EQ 258)BaseValue = 302783.231583052.  
IF(NBHD EQ 259)BaseValue = 582125.996028119.  
IF(NBHD EQ 260)BaseValue = 664889.102753063.  
IF(NBHD EQ 261)BaseValue = 747279.594919039.  
IF(NBHD EQ 262)BaseValue = 529983.866811305.  
IF(NBHD EQ 263)BaseValue = 796275.045081600.  
IF(NBHD EQ 264)BaseValue = 732749.095842822.  
IF(NBHD EQ 265)BaseValue = 495388.667331558.  
IF(NBHD EQ 278)BaseValue = 851389.819526984.  
IF(NBHD EQ 279)BaseValue = 909620.406630747.  
IF(NBHD EQ 280)BaseValue = 1290779.695828800.  
IF(NBHD EQ 281)BaseValue = 253338.814982351.  
IF(NBHD EQ 282)BaseValue = 536020.651887750.  
IF(NBHD EQ 283)BaseValue = 1078506.968584800.  
IF(NBHD EQ 284)BaseValue = 649697.745851558.  
IF(NBHD EQ 285)BaseValue = 533565.714505082.  
IF(NBHD EQ 286)BaseValue = 497754.930484442.  
IF(NBHD EQ 287)BaseValue = 557668.235185492.  
IF(NBHD EQ 288)BaseValue = 1767320.043273060.  
IF(NBHD EQ 289)BaseValue = 1407061.532650210.  
IF(NBHD EQ 290)BaseValue = 1027585.438959820.  
IF(NBHD EQ 291)BaseValue = 512170.296958793.  
IF(NBHD EQ 293)BaseValue = 1177858.790012710.  
IF(NBHD EQ 294)BaseValue = 287864.249032621.  
IF(NBHD EQ 295)BaseValue = 347834.488948669.  
IF(NBHD EQ 296)BaseValue = 294860.512403210.  
IF(NBHD EQ 297)BaseValue = 701499.405684995.  
IF(NBHD EQ 298)BaseValue = 946746.616736994.  
IF(NBHD EQ 307)BaseValue = 848597.464847816.  
IF(NBHD EQ 325)BaseValue = 304053.256574792.  
IF(NBHD EQ 326)BaseValue = 737289.089114153.

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IF(NBHD EQ 327)BaseValue = 360381.157711552.  
IF(NBHD EQ 328)BaseValue = 647997.258519773.  
IF(NBHD EQ 330)BaseValue = 281778.416522542.

COMPUTE LandSqftMedian = 10000.  
IF(NBHD EQ 23)LandSqftMedian = 87290.00.  
IF(NBHD EQ 34)LandSqftMedian = 6000.00.  
IF(NBHD EQ 70)LandSqftMedian = 8726.00.  
IF(NBHD EQ 82)LandSqftMedian = 87569.00.  
IF(NBHD EQ 198)LandSqftMedian = 36155.00.  
IF(NBHD EQ 199)LandSqftMedian = 10800.00.  
IF(NBHD EQ 210)LandSqftMedian = 21084.00.  
IF(NBHD EQ 211)LandSqftMedian = 30404.00.  
IF(NBHD EQ 212)LandSqftMedian = 7300.00.  
IF(NBHD EQ 213)LandSqftMedian = 21580.00.  
IF(NBHD EQ 214)LandSqftMedian = 43569.00.  
IF(NBHD EQ 215)LandSqftMedian = 29933.00.  
IF(NBHD EQ 216)LandSqftMedian = 9520.00.  
IF(NBHD EQ 217)LandSqftMedian = 10725.00.  
IF(NBHD EQ 218)LandSqftMedian = 6780.00.  
IF(NBHD EQ 219)LandSqftMedian = 6000.00.  
IF(NBHD EQ 220)LandSqftMedian = 20350.00.  
IF(NBHD EQ 221)LandSqftMedian = 17978.00.  
IF(NBHD EQ 222)LandSqftMedian = 86684.00.  
IF(NBHD EQ 223)LandSqftMedian = 4407.00.  
IF(NBHD EQ 224)LandSqftMedian = 6200.00.  
IF(NBHD EQ 225)LandSqftMedian = 8700.00.  
IF(NBHD EQ 226)LandSqftMedian = 6100.00.  
IF(NBHD EQ 227)LandSqftMedian = 6900.00.  
IF(NBHD EQ 228)LandSqftMedian = 11102.00.  
IF(NBHD EQ 239)LandSqftMedian = 87120.00.  
IF(NBHD EQ 245)LandSqftMedian = 40946.00.  
IF(NBHD EQ 246)LandSqftMedian = 8450.00.  
IF(NBHD EQ 247)LandSqftMedian = 7500.00.  
IF(NBHD EQ 248)LandSqftMedian = 8145.00.  
IF(NBHD EQ 249)LandSqftMedian = 6000.00.  
IF(NBHD EQ 250)LandSqftMedian = 9840.00.  
IF(NBHD EQ 251)LandSqftMedian = 7900.00.  
IF(NBHD EQ 252)LandSqftMedian = 9000.00.  
IF(NBHD EQ 253)LandSqftMedian = 5978.00.  
IF(NBHD EQ 254)LandSqftMedian = 8976.00.  
IF(NBHD EQ 255)LandSqftMedian = 6468.00.  
IF(NBHD EQ 256)LandSqftMedian = 6720.00.  
IF(NBHD EQ 257)LandSqftMedian = 6552.00.  
IF(NBHD EQ 258)LandSqftMedian = 6188.00.  
IF(NBHD EQ 259)LandSqftMedian = 6392.00.  
IF(NBHD EQ 260)LandSqftMedian = 13144.00.  
IF(NBHD EQ 261)LandSqftMedian = 13860.00.  
IF(NBHD EQ 262)LandSqftMedian = 7954.00.  
IF(NBHD EQ 263)LandSqftMedian = 12400.00.  
IF(NBHD EQ 264)LandSqftMedian = 11484.00.  
IF(NBHD EQ 265)LandSqftMedian = 6080.00.  
IF(NBHD EQ 278)LandSqftMedian = 87556.00.  
IF(NBHD EQ 279)LandSqftMedian = 93994.00.  
IF(NBHD EQ 280)LandSqftMedian = 168142.00.  
IF(NBHD EQ 281)LandSqftMedian = 7400.00.  
IF(NBHD EQ 282)LandSqftMedian = 12000.00.  
IF(NBHD EQ 283)LandSqftMedian = 40007.00.  
IF(NBHD EQ 284)LandSqftMedian = 20865.00.  
IF(NBHD EQ 285)LandSqftMedian = 11770.00.  
IF(NBHD EQ 286)LandSqftMedian = 14900.00.  
IF(NBHD EQ 287)LandSqftMedian = 15750.00.  
IF(NBHD EQ 288)LandSqftMedian = 138521.00.

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IF(NBHD EQ 289)LandSqftMedian = 134858.00.
IF(NBHD EQ 290)LandSqftMedian = 174270.50.
IF(NBHD EQ 291)LandSqftMedian = 11000.00.
IF(NBHD EQ 293)LandSqftMedian = 211266.00.
IF(NBHD EQ 294)LandSqftMedian = 7565.50.
IF(NBHD EQ 295)LandSqftMedian = 10030.00.
IF(NBHD EQ 296)LandSqftMedian = 7920.00.
IF(NBHD EQ 297)LandSqftMedian = 89298.00.
IF(NBHD EQ 298)LandSqftMedian = 88862.00.
IF(NBHD EQ 307)LandSqftMedian = 87503.50.
IF(NBHD EQ 325)LandSqftMedian = 8000.00.
IF(NBHD EQ 326)LandSqftMedian = 88427.00.
IF(NBHD EQ 327)LandSqftMedian = 13750.00.
IF(NBHD EQ 328)LandSqftMedian = 87120.00.
IF(NBHD EQ 330)LandSqftMedian = 7626.00.

FORMATS BaseValue LandSqftMedian (comma10).
COMPUTE Base50Rate = BaseValue / LandSqftMedian**.50.

COMPUTE UnderWaterValue = 0.
IF(UNDERWATER_SF GT 0)UnderWaterValue = TRUNC(((UNDERWATER_SF**.50 * Base50Rate) *
.20) / 100) * 100.

COMPUTE IssueWgt = 1.
IF(LandIssueSF_Sum GT 0)IssueWgt = (LandIssuePCTX * LandIssueSF) /
(LandIssuePCT_ECONX * LandIssueSF_Sum).
DESCRIPTIVES IssueWgt.

IF(LandIssueSF_Sum LT 1000 AND LandIssuePCT_ECONX GT .10)LandIssuePCT_ECONX = .10.
COMPUTE LandIssueValue_ECON = 0.
IF(LandIssueSF_Sum GT 0)LandIssueValue_ECON = (LandIssueSF_Sum**.50 * Base50Rate) *
LandIssuePCT_ECONX.
EXECUTE.

COMPUTE LandIssueValue = TRUNC((LandIssuevalue_ECON * IssueWgt) / 100) * 100.
FORMATS UnderWaterValue LandIssueValue LandIssueValue_ECON (COMMA10.0).
EXECUTE.

DO IF(SUMLANDX GT 0).
COMPUTE SUMLANDY= SUMLANDX.
COMPUTE SLY = (1742400 - 435600.0000000)**1.05. /* THIS IS CHANGED TO FIT PROGNOSIS.
IF(SUM_Acres GE 10)SUMLANDY = 435600 + (SUMLANDX - 435600.0000000)**1.05.
IF(SUM_Acres GT 40)SUMLANDY = (435600 + SLY) + (SUMLANDY - 435600.0000000 +
SLY)**1.10.
COMPUTE SQRTSUMLANDY = SUMLANDY**.50.
END IF.
FORMATS SUMLANDY (F32.8).
EXECUTE.

IF(SUMLANDX GT 0)Allocated50LandValue_ECON = TRUNC(SUMLANDY**.50 * Base50Rate *
SITEADJ).
IF(SUMLANDX GT 0 AND Discount EQ 1)Allocated50LandValue_ECON = TRUNC(SUMLANDX**.50 *
(Base50Rate * .20) * SITEADJ).
RECODE Allocated50LandValue_ECON (SYSMIS = 0).
FORMATS Allocated50LandValue_ECON (COMMA10.0).
EXECUTE.

DO IF(SUMLANDX GT 0).
COMPUTE PCT_LAND = RND(LANDSQFTX / SUMLANDX * 100)/ 100.
END IF.
IF(PARCEL_TYPE EQ 'S')PCT_LAND = 1.
IF(SUMLANDX EQ 0)PCT_LAND = 1.
IF(LANDSQFTX NE SUMLANDX AND PCT_LAND LT .005 AND LANDSQFTX GT 100)PCT_LAND = .005.

```

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FORMATS PCT\_LAND (F5.3).

```
COMPUTE TMPLAND = (Allocated50LandValue_ECON * PCT_LAND).
IF(TMPLAND GE 100000)ESP_LAND = TRUNC(TMPLAND / 1000) * 1000.
IF(TMPLAND LT 100000)ESP_LAND = TRUNC(TMPLAND / 100) * 100.
* IF(ESP_LAND LT 1000)ESP_LAND = 1000.
```

```
COMPUTE TOTAL_LAND_ECON = Allocated50Landvalue_ECON + LandIssuevalue_ECON.
```

```
COMPUTE LAND_TOTAL = ESP_LAND + UnderwaterValue + LandIssueValue.
```

```
IF(LAND_TOTAL LT 500)LAND_TOTAL = 500.
```

```
FORMATS ESP_LAND UnderWaterValue LandIssueValue LAND_TOTAL TOTAL_LAND_ECON
(COMMA10.0).
```

```
DESCRIPTIVES TMPLAND ESP_LAND UnderwaterValue LandIssueValue LAND_TOTAL
TOTAL_LAND_ECON.
```

```
*****
*      +-0.003105938426889  *  LnSFLA2.
*      + 0.171431492614557  *  NBHD222
*      + 0.03   *  NBHD222.
* model is low on large acreage properties, will add binary for over 10 acres.
*      +-0.162370396674317  *  stNbhd_307_oldstyle - NBHD 307 IS TOO HIGH, THIS
ADJUSTMENT GETS OLD STYLE IN THE PROPER LEVEL, BUT NOTHING ELSE.
*      + 0.171431492614557  *  NBHD222.
```

```
COMPUTE LARGELAND = 0.
```

```
IF(SUMLAND GT 435600)LARGELAND = 1.
```

```
FORMATS LARGELAND (F1.0).
```

```
*      + 0.208059579406491  *  BLK_03_191.
*      + 0.013426112977742  *  Gas.
*      + 0.231182447217536  *  EXT_CementFiber.
*      + 0.084620580563932  *  NBHD291.
*      + 0.228624817674368  *  BLK_01_066 - BY RUSS.
*      + 0.183347327838837  *  BLK_02_308 - BY RUSS.
*      + 0.404964312187437  *  BLK_02_312 - BY RUSS.
*      + 0.177760616204040  *  BLK_02_318 - BY RUSS.
*      + 0.158460583307041  *  BLK_02_343 - BY RUSS.
*      + 0.439922750355632  *  BLK_02_346 - BY RUSS.
*      + 0.116347936941120  *  BLK_03_076 - BY RUSS.
*      + 0.127495889077401  *  BLK_03_129 - BY RUSS.
*      + 0.184664992997250  *  BLK_03_13901 - BY RUSS - REMOVED.
*      + 0.183813282510734  *  BLK_03_182 - BY RUSS - REMOVED.
*      + 0.129194760407274  *  BLK_05_J03 - BY RUSS.
*      + 0.177716044351131  *  BLK_10_348 - BY RUSS.
*      + 0.121119877727132  *  BLK_27_040 - BY RUSS.
*      + 0.153395169872082  *  BLK_30_065 - BY RUSS.
```

```
DO IF(SFLA_ECON GT 0).
```

```
COMPUTE ESP_ECON = EXP(13.823079883721140
+ 0.327706464207177  *  LN_SQFTxRATIO1
+ 0.508180252001367  *  LN_SQFTxRATIO2
+ 0.003   *  LnSFLA2
+-0.053036537739948  *  LN_AtticSF_RATIO
+ 0.066597947119478  *  LN_LIN_BSMTx_Ratio
+ 0.062547393560281  *  LN_RECBSMTx_RATIO
+ 0.240372210462205  *  LN_PCT_GOOD
+ 0.107594272676506  *  LG1_LN_LANDSIZERATIO1
+ 0.186742331219287  *  LG1_LN_LANDSIZERATIO2
+ 0.114999586824696  *  LG2_LN_LANDSIZERATIO1
```

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```

+ 0.126584315677239 * LG2_LN_LANDSIZERATIO2
+ 0.13976 * LARGELAND
+ 0.060132922155883 * LN_AttBltGar_RATIO
+ 0.035400699697828 * LN_LinDetGarCarport_RATIO
+ 0.049352430256165 * LN_TerraceX_RATIO
+ 0.014356752161863 * LN_PatioX_RATIO
+ 0.027090585316663 * LN_LINPORCH_RATIO
+ 0.049755337911120 * LN_Gazebo_SF_RATIO
+ 0.053647489785290 * LN_BathHouse_SF_RATIO
+ 0.031935466493148 * LN_PoolX_RATIO
+ 0.021939122155012 * LN_CanopyX_RATIO
+ 0.028796061420521 * LNFireplaceX
+ 0.073449902380187 * LNFIXTOT
+ 0.029578578586904 * Elevator
+ 0.022643975494409 * ST_RaisedRanch_HiRanch
+ 0.043479310792159 * ST_SplitLevel
+-0.033955246982635 * ST_ModifiedRanch
+-0.055049626441102 * ST_Contemporary
+-0.142584398556221 * ST_Townhouse
+ 0.242302149577623 * ST_HomownerAssoc
+-0.032591105927575 * ST_Splash
+-0.108538250864490 * stNbhd_23_Contemporary
+-0.079746715160532 * stNbhd_23_Ranch
+-0.041859343188140 * stNbhd_23_SplitLevel
+-0.117505001699856 * stNbhd_70_Ranch
+-0.056748423902541 * stNbhd_70_cape
+-0.223687206018389 * stNbhd_198_colonial
+-0.245162845558345 * stNbhd_198_Ranch
+ 0.100850816317339 * stNbhd820ldStyle
+-0.055623751841875 * stNbhd_199_cape
+-0.015008331082290 * stNbhd_199_SplitLevel
+-0.157024843197856 * stNbhd_199_Oldstyle
+-0.244177611138750 * stNbhd_211_ModifiedRanch
+ 0.102796096516293 * stNbhd_212_cape
+-0.195193200645724 * stNbhd_219_colonial
+-0.084324129457494 * stNbhd_220_Ranch
+-0.097846565007867 * stNbhd_220_SplitLevel
+ 0.150725813267852 * stNbhd_221_colonial
+-0.116211925104080 * stNbhd_222_ModifiedRanch
+-0.059972484400962 * stNbhd_223_colonial
+-0.148642894143552 * stNbhd_223_SplitLevel
+-0.042137354141755 * stNbhd_225_SplitLevel
+-0.030154537034322 * stNbhd_228_SplitLevel
+-0.188901093271642 * stNbhd_239_SplitLevel
+-0.122822266420422 * stNbhd_239_Contemporary
+-0.144764042670645 * stNbhd_239_Splash
+ 0.195156838932448 * stNbhd_245_ST_MansionEstate
+ 0.063578384072243 * stNbhd_254_Oldstyle
+-0.082403576236264 * stNbhd_263_Oldstyle
+ 0.109325924830884 * stNbhd_265_RaisedRanch
+-0.292214099591903 * stNbhd_278_SplitLevel
+ 0.127417961660070 * stNbhd_280_cape
+ 0.102123075554568 * stNbhd_281_Splash
+ 0.181800815029874 * stNbhd_282_Ranch
+ 0.161227469982201 * stNbhd_293_Oldstyle
+-0.076254723298339 * stNbhd_294_colonial
+-0.135206531304812 * stNbhd_295_cape
+-0.075725780936059 * stNbhd_296_colonial
+-0.076649007461997 * stNbhd_297_cape
+-0.166109380359243 * stNbhd_297_Contemporary
+ 0.203587574021380 * stNbhd_325_SplitLevel
+-0.037918710690770 * stNbhd_326_Ranch
+ 0.251205233238793 * stNbhd_326_Oldstyle

```

Market 3 2021 Prediction Prognose.sps

```

+-0.058198861142999 * TwoThreeFamily
+-0.162735720495673 * QualEMinusQualDPlus
+-0.107109255858312 * QualCMinus
+-0.070850202963576 * QualC
+-0.029036253688682 * QualCPlusQualBMinus
+ 0.029615052127826 * QualBPlus
+ 0.036127310169282 * QualAMinusQualA
+ 0.067528051812741 * QualAPlus
+ 0.141396892339124 * QualXMinusQualZ
+ 0.081086601519292 * Qual_210_A_plus
+-0.148075722492084 * Qual_23_Cminus
+ 0.171643225676665 * Qual_211_Aplus
+ 0.253331810440891 * Qual_213_Aplus
+-0.104771154893578 * Qual_216_Bminus
+ 0.091923049233517 * Qual_225_Bplus
+-0.260541125040482 * Qual_225_Cminus
+-0.091891162137153 * Qual_239_Cminus
+-0.093469739450794 * Qual_245_Bminus
+ 0.098219495555083 * Qual_247_Bplus
+-0.079423994816752 * Qual_255_Cminus
+ 0.193245269700133 * Qual_260_Aplus
+ 0.123851614265344 * Qual_261_A_plus
+ 0.097241266636609 * Qual_262_Bplus
+ 0.208504414209255 * Qual_285_Bminusplus
+ 0.094459610481535 * Qual_326_Aplus
+ 0.121069056616751 * Qual_263_Aplus
+ 0.026357999660069 * EXT_Brick
+ 0.026357999660069 * EXT_CementFiber
+-0.052163156338818 * BSMT_None
+-0.083606963827133 * Electric
+-0.043410811121436 * HtSysSteamVapor
+-0.045810886251358 * HtSysHotWater
+-0.022286696119197 * HtSysForcedHotAir
+-0.040731839765731 * HtSysPipelessNoHeat
+ 0.375058750159730 * Water_BayX
+ 0.534890006596434 * Water_Soundx
+ 0.106409209973469 * Water_CanalX
+ 0.054152689045670 * Water_WaterViewX
+ 0.222831672338114 * WATER_viewGroup14
+ 0.196697734267237 * WATER_LAkeGroup13
+ 0.224505179608634 * WATER_ViewGroup13
+ 0.277527291300173 * NBHD_223_WATER_View
+ 0.206955904531147 * Water_BayGroup_5
+ 0.565277457151813 * NBHD_290_BAY
+ 0.581211602471974 * NBHD_297_BAY
+ 0.644418256527290 * NBHD_245_BAY
+ 0.349789203094001 * NBHD_220_BAY
+ 0.908056726188494 * NBHD_222_BAY
+-0.061417793288794 * LOC_MajorHighwayX
+-0.048680080045764 * LOC_SecondaryStreetX
+-0.111249159784383 * LOC_LongIslandRailRoadx
+-0.060282678840256 * LOC_CommercialOrIndustrialx
+-0.039797926642701 * LOC_ApartmentBuildingX
+-0.030180875519192 * LOC_Schoolx
+-0.068977405949314 * FR_MajorStripX
+-0.084935299177916 * FR_SecondaryArteryX
+ 0.023011978198188 * FR_PrivateRoad
+-0.009042971884461 * TrafficMediumX
+-0.167718221995529 * TrafficHeavyX
+ 0.080663889248006 * NBHD23
+ 0.102189663275724 * NBHD34
+-0.111900591203516 * NBHD82
+-0.103050904177128 * NBHD198

```

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+ 0.031949260676924 \* NBHD199  
+-0.251793576458302 \* NBHD210  
+-0.263536233800748 \* NBHD211  
+-0.255808417957673 \* NBHD212  
+-0.294284132660824 \* NBHD213  
+-0.479750351763344 \* NBHD214  
+ 0.286287635203721 \* NBHD215  
+ 0.493328609085945 \* NBHD216  
+ 0.553789099117755 \* NBHD217  
+ 0.391079409582043 \* NBHD218  
+ 0.116709699251099 \* NBHD219  
+ 0.671919700774983 \* NBHD220  
+ 0.364911504920284 \* NBHD221  
+ 0.03 \* NBHD222  
+ 0.088568989521270 \* NBHD223  
+ 0.155840541103791 \* NBHD224  
+ 0.267806004174130 \* NBHD225  
+ 0.124752010506779 \* NBHD226  
+ 0.262203012048416 \* NBHD227  
+ 0.264625442721536 \* NBHD228  
+-0.088448828281556 \* NBHD239  
+ 0.174799570617596 \* NBHD245  
+ 0.212369122472891 \* NBHD246  
+ 0.250570985071977 \* NBHD247  
+ 0.125976052797400 \* NBHD248  
+ 0.278689108683041 \* NBHD249  
+ 0.272625942413912 \* NBHD250  
+ 0.242675161758650 \* NBHD251  
+ 0.176189933610540 \* NBHD252  
+ 0.235691782518928 \* NBHD253  
+ 0.286251163190513 \* NBHD254  
+ 0.287635300723827 \* NBHD255  
+ 0.108774045679155 \* NBHD256  
+ 0.254164458812080 \* NBHD257  
+ 0.126706362971968 \* NBHD258  
+ 0.228887380410458 \* NBHD259  
+ 0.109599686068183 \* NBHD260  
+ 0.136518794433085 \* NBHD261  
+ 0.117011874790564 \* NBHD262  
+ 0.140204726151677 \* NBHD263  
+ 0.146517388641847 \* NBHD264  
+ 0.180992026438413 \* NBHD265  
+-0.134812169832810 \* NBHD278  
+-0.116277557885379 \* NBHD279  
+-0.285076254313164 \* NBHD281  
+ 0.092796311946976 \* NBHD282  
+ 0.097218967420221 \* NBHD284  
+ 0.004082250012393 \* NBHD286\_7  
+ 0.226375375747832 \* NBHD288  
+-0.181842637144778 \* NBHD290  
+ 0.02 \* NBHD291  
+-0.163619104969773 \* NBHD293  
+-0.152058093784012 \* NBHD294  
+-0.139103455865387 \* NBHD295  
+-0.125965415975056 \* NBHD296  
+-0.299467627710772 \* NBHD297  
+-0.113160746961179 \* NBHD298  
+-0.210131022340995 \* NBHD307  
+-0.228797883342159 \* NBHD325  
+-0.127603339163709 \* NBHD326  
+-0.052778381816382 \* NBHD327\_8  
+-0.171780852824061 \* NBHD330  
+ 0.290461280459462 \* NBHD\_TAXDIST\_511

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+-0.074704509448582 \* NBHD\_TAXDIST\_813  
+-0.290396866000978 \* NBHD\_TAXDIST\_721  
+ 0.081384648386884 \* BLK\_01\_059  
+ 0.13976 \* BLK\_01\_066  
+ 0.099106656980571 \* BLK\_01\_082  
+-0.123088186256984 \* BLK\_01\_099  
+ 0.111684675157818 \* BLK\_01\_133  
+-0.118866405034839 \* BLK\_01\_148  
+-0.084002281711653 \* BLK\_01\_164  
+ 0.166459736874822 \* BLK\_01\_177  
+-0.076798970626663 \* BLK\_02\_248  
+ 0.073574200906185 \* BLK\_02\_269  
+-0.088155848175937 \* BLK\_02\_300  
+ 0.13976 \* BLK\_02\_308  
+ 0.37156 \* BLK\_02\_312  
+ 0.09531 \* BLK\_02\_318  
+ 0.131051951244917 \* BLK\_02\_326  
+ 0.13976 \* BLK\_02\_343  
+ 0.26236 \* BLK\_02\_346  
+-0.144938696717892 \* BLK\_03\_058  
+-0.161183235982687 \* BLK\_03\_06602  
+ 0.055990623679993 \* BLK\_03\_068  
+-0.201729477220365 \* BLK\_03\_073  
+ 0.03922 \* BLK\_03\_076  
+-0.176806250881373 \* BLK\_03\_096  
+ 0.075292521350476 \* BLK\_03\_100  
+ 0.09531 \* BLK\_03\_129  
+-0.216995262754659 \* BLK\_03\_163  
+-0.094716641081860 \* BLK\_03\_178  
+ 0.173748936538210 \* BLK\_03\_184  
+ 0.139761942375158 \* BLK\_03\_191  
+ 0.258464896927044 \* BLK\_03\_195  
+ 0.098245458960472 \* BLK\_03\_198  
+-0.080890074673798 \* BLK\_03\_200  
+-0.123625662291495 \* BLK\_03\_217  
+ 0.069249470889266 \* BLK\_04\_B  
+-0.190434898337960 \* BLK\_04\_J  
+-0.097511154533004 \* BLK\_04\_045  
+ 0.067454665222182 \* BLK\_04\_046  
+-0.158732022226166 \* BLK\_04\_075  
+-0.124041144711206 \* BLK\_04\_114  
+ 0.078888457989806 \* BLK\_05\_G  
+-0.291937392088834 \* BLK\_05\_00401  
+-0.152310990425903 \* BLK\_05\_028  
+-0.107435008322584 \* BLK\_05\_043  
+-0.173706826802949 \* BLK\_05\_046  
+ 0.091465250346693 \* BLK\_05\_068  
+-0.153295315053274 \* BLK\_05\_084  
+ 0.073881206229988 \* BLK\_05\_118  
+ 0.088389384665305 \* BLK\_05\_137  
+-0.182788211965850 \* BLK\_05\_156  
+ 0.09531 \* BLK\_05\_J03  
+-0.102878707519078 \* BLK\_06\_05304  
+-0.182173412220192 \* BLK\_06\_066  
+ 0.154339759368315 \* BLK\_06\_082  
+-0.196407775590136 \* BLK\_08\_263  
+-0.104409702985151 \* BLK\_08\_K06  
+ 0.089242225148100 \* BLK\_08\_K09  
+ 0.13976 \* BLK\_10\_348  
+ 0.38 \* BLK\_10\_D  
+ 0.205062152671195 \* BLK\_15\_199  
+ 0.058590095455979 \* BLK\_16\_B  
+-0.113969531907962 \* BLK\_16\_003

```

Market 3 2021 Prediction Prognose.sps
+ 0.102990837629941 * BLK_18_D
+-0.117861205762216 * BLK_18_004
+-0.135065118266937 * BLK_22_B
+-0.116169060812761 * BLK_22_E
+ 0.145594230438377 * BLK_22_G
+-0.149761714344261 * BLK_22_K
+-0.232999332479179 * BLK_22_F01
+ 0.092024667310113 * BLK_24_002
+ 0.110022933708776 * BLK_25_B
+-0.172286520364266 * BLK_26_002
+-0.146067218395159 * BLK_27_013
+ 0.10 * BLK_27_040
+-0.066002473890296 * BLK_27_059
+ 0.40 * BLK_27_H
+-0.356810502520822 * BLK_28_B
+-0.067292780221429 * BLK_29_J
+ 0.145085647507925 * BLK_29_M
+-0.067470594142386 * BLK_29_001
+-0.076585344310533 * BLK_29_D12
+ 0.219881883605150 * BLK_30_H
+-0.200200739309790 * BLK_30_033
+ 0.13976 * BLK_30_065
+ 0.123456155189432 * BLK_41_028
+-0.138759391216039 * BLK_41_086
+-0.110273838328540 * BLK_41_090
+-0.193229908340118 * BLK_41_103)
+ 1 * COST_RCNLDX.

END IF.

FORMATS ESP_ECON (COMMA10.0).

DO IF(PARCEL_TYPE EQ 'S').
  COMPUTE RATIO = ESP_ECON / TASP.
  COMPUTE RATIO2 = ESP_ECON / SOLDPRICE.
END IF.
EXECUTE.

INSERT FILE = !Predsintax + 'Prognose\Market 3 2021 Coefficients.sps'
SYNTAX = INTERACTIVE
ERROR = STOP.

COMPUTE DIFF = ESP2 / ESP_ECON.
DESCRIPTIVES DIFF.

COMPUTE DIFF = ESP2 / ESP3.
DESCRIPTIVES DIFF.

IF(PCTCOMPLETE GT 0)CompletePercent = PCTCOMPLETE / 100.
RECODE CompletePercent (SYSMIS = 1).

DO IF(ESP_ECON GT 0).
  COMPUTE Allocated50ImpValue_ECON = TRUNC(ESP_ECON - TOTAL_LAND_ECON).
  * IF(Allocated50LandValue_ECON EQ 0)Allocated50ImpValue_ECON = TRUNC(ESP_ECON -
  LandIssueValue_ECON).
END IF.
RECODE Allocated50ImpValue_ECON (SYSMIS = 0).

STRING Costvalue (A3).
COMPUTE CostValue = 'No'.
IF(Allocated50ImpValue_ECON LE 0)CostValue = 'Yes'.

COMPUTE IMP_COST_VALUE = TRUNC((RCNLD_P + ExtraImpsCost_P + COST_RCNLDX_P) / 1000)
* 1000.

```

Market 3 2021 Prediction Prognose.sps

FORMATS IMP\_COST\_VALUE (COMMA10.0).

```
DO IF(SFLA_ECON GT 0).
  COMPUTE PCT_IMP = RND(SFLA / SFLA_ECON * 100) / 100.
END IF.
IF(PARCEL_TYPE EQ 'S')PCT_IMP = 1.

COMPUTE ESP_IMP = TRUNC(Allocated50ImpValue_ECON * PCT_IMP * CompletePercent / 1000)
* 1000.
IF(Allocated50ImpValue_ECON LE 0)ESP_IMP = IMP_COST_VALUE * CompletePercent.
IF(SFLA_ECON EQ 0)ESP_IMP = IMP_COST_VALUE * CompletePercent.
COMPUTE ESP_TOTAL = LAND_TOTAL + ESP_IMP.
FORMATS LAND_TOTAL ESP_LAND ESP_IMP ESP_TOTAL (COMMA10.0).
EXECUTE.

COMPUTE UseCost = 0.
COMPUTE LandOverride = 0.
COMPUTE ImpOverride = 0.
FORMATS LandOverride ImpOverride (COMMA10.0).
```

\* Market 3.

```
IF(PARID EQ '05037 04210')UseCost = 1.
* IF(PARID EQ '41015 00010')UseCost = 1.
* IF(PARID EQ '16006 0061B')UseCost = 1.
* IF(PARID EQ '19 A 05920')UseCost = 1.
* IF(PARID EQ '27 H 03090')UseCost = 1.
IF(PARID EQ '27 H 03390')UseCost = 1.
* IF(PARID EQ '01175 00650')UseCost = 1.
* IF(PARID EQ '27 H 00070')UseCost = 1.
IF(PARID EQ '01128 01530')UseCost = 1.
IF(PARID EQ '01128 01560')UseCost = 1.
* IF(PARID EQ '03 E 05040')UseCost = 1.
* IF(PARID EQ '03 E 05050')UseCost = 1.
* IF(PARID EQ '03 E 10600')UseCost = 1.
IF(PARID EQ '03040 05060')UseCost = 1.
IF(PARID EQ '031380203140')UseCost = 1.
IF(PARID EQ '03145 04390')UseCost = 1.
IF(PARID EQ '04 Q 02270')UseCost = 1.
IF(PARID EQ '04117 00370')UseCost = 1.
IF(PARID EQ '05026 01560')UseCost = 1.
IF(PARID EQ '06053 00170')UseCost = 1.
IF(PARID EQ '06053 09450')UseCost = 1.
IF(PARID EQ '08 A 01730')UseCost = 1.
IF(PARID EQ '08 A 07270')UseCost = 1.
IF(PARID EQ '08235 00340')UseCost = 1.
IF(PARID EQ '16 C 0393A')UseCost = 1.
IF(PARID EQ '16 C 0393B')UseCost = 1.
IF(PARID EQ '17009 00090')UseCost = 1.
IF(PARID EQ '17009 01840')UseCost = 1.
IF(PARID EQ '23 B 05130')UseCost = 1.
IF(PARID EQ '23043 00140')UseCost = 1.
IF(PARID EQ '24 E 00110')UseCost = 1.
IF(PARID EQ '26 A 02550')UseCost = 1.
IF(PARID EQ '26 A 06780')UseCost = 1.
IF(PARID EQ '27005 00050')UseCost = 1.
IF(PARID EQ '27017 01290')UseCost = 1.
IF(PARID EQ '28013 00100')UseCost = 1.
IF(PARID EQ '28016 00330')UseCost = 1.
IF(PARID EQ '29 R0303050')UseCost = 1.
IF(PARID EQ '29009 01160')UseCost = 1.
IF(PARID EQ '29019 01440')UseCost = 1.
IF(PARID EQ '30 E 02510')UseCost = 1.
```

```

Market 3 2021 Prediction Prognose.sps
IF(PARID EQ '40090  00070')UseCost = 1.
IF(PARID EQ '41  A  00780')UseCost = 1.
IF(PARID EQ '41  H  00170')UseCost = 1.
IF(PARID EQ '41055  00030')UseCost = 1.
IF(PARID EQ '42  L  02240')UseCost = 1.
* IF(PARID EQ '27  G  17390')UseCost = 1.
IF(PARID EQ '27  H  03350')UseCost = 1.
IF(PARID EQ '16  B  17330')UseCost = 1.
IF(PARID EQ '10348  00290')UseCost = 1.
IF(PARID EQ '10  C  13780')UseCost = 1.
IF(PARID EQ '04  B  02780')UseCost = 1.
IF(PARID EQ '26  C  02990')UseCost = 1.
IF(PARID EQ '26  C  01040')UseCost = 1.
IF(PARID EQ '15  A  06790')UseCost = 1.

IF(PARID EQ '03162  08220')LandOverride = 35000000. /*10-3-18.
IF(PARID EQ '03  E  1099B')LandOverride = 23000000. /*10-4-18.
IF(PARID EQ '03  E  1099C')LandOverride = 18000000. /*10-4-18.
IF(PARID EQ '03  E  10510')LandOverride = 6000000 : /*10-4-18.
IF(PARID EQ '01013  00090')LandOverride = 2000000 : /*10-4-18.

IF(UseCost EQ 1)CostValue = 'Yes'.

IF(LandOverride GT 0)LAND_TOTAL = TRUNC(LandOverride * PCT_LAND / 1000) * 1000.
IF(IMPOverride GT 0)ESP_IMP = TRUNC(IMPOverride * PCT_IMP * CompletePercent / 1000)
* 1000.
IF(UseCost EQ 1)ESP_IMP = IMP_COST_VALUE * CompletePercent.
COMPUTE ESP_TOTAL = LAND_TOTAL + ESP_IMP.
FORMATS LAND_TOTAL ESP_LAND ESP_IMP ESP_TOTAL (COMMA10.0).

STRING QUAL_Text (A2).
RECODE QUAL_(1 = 'E-')(2 = 'E')(3 = 'E+')(4 = 'D-')(5 = 'D')(6 = 'D+')(7 = 'C-')(8 =
'C')(9 = 'C+')
      (10 = 'B-')(11 = 'B')(12 = 'B+')(13 = 'A-')(14 = 'A')(15 = 'A+')(16 = 'X-')(17 =
'X')(18 = 'X+')
      (19 = 'S-')(20 = 'S')(21 = 'S+')(22 = 'Z-')(23 = 'Z')(24 = 'Z+') INTO
QUAL_Text.

STRING CDU_Text (A10).
RECODE CDU_(1 = 'unsound')(2 = 'Very Poor')(3 = 'Poor')(4 = 'Fair')(5 = 'Average')
(6 = 'Good')(7 = 'Very Good')(8 = 'Excellent') INTO CDU_Text.

STRING Style_Text (A25).
RECODE Style_(1 = 'Ranch')(2 = 'Raised Ranch/Hi Ranch')(3 = 'Split Level')(4 =
'Modified Ranch')(5 = 'Cape')
      (6 = 'Colonial')(7 = 'Victorian')(8 = 'Contemporary')(9 = 'Old Style')(10 =
'Bungalow, Cottage')(11 = 'Duplex, Triplex')
      (12 = 'Mansion, Estate')(13 = 'Townhouse')(14 = 'Condo')(16 = 'Homeowner
Assoc')(17 = 'Other')(18 = 'Splanch')
      (19 = 'Carriage House')(20 = 'Tudor')(22 = '22') INTO Style_Text.

* codebook luc.
string LUC_Text (A20).
IF (ANY(LUC, "2100", "2101", "2102", "2150", "2500")) LUC_Text = 'One Family'.
IF (LUC EQ "2200") LUC_Text = 'Two Family'.
IF (LUC EQ "2300") LUC_Text = 'Three Family'.
IF (LUC EQ "2800") LUC_Text = 'Multi Residential'.
IF(LUC_NUM GE 3000 AND LUC_NUM LT 4000) LUC_Text = 'Vacant Land'.
IF (LUC EQ "4830") LUC_Text = 'Converted Residence'.
IF(LUC_NUM GE 6000) LUC_Text = 'Exempt'.
* alter type LUC_Text (amin).

* codebook extwall.

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string EXTWALL_Text (A20).
IF (EXTWALL EQ 1) EXTWALL_Text = 'Frame'.
IF (EXTWALL EQ 2) EXTWALL_Text = 'Brick'.
IF (EXTWALL EQ 3) EXTWALL_Text = 'Mas/Frame'.
IF (EXTWALL EQ 4) EXTWALL_Text = 'Conc Blk'.
IF (EXTWALL EQ 5) EXTWALL_Text = 'Stucco'.
IF (EXTWALL EQ 6) EXTWALL_Text = 'Alum/Vinyl'.
IF (EXTWALL EQ 7) EXTWALL_Text = 'Stone'.
IF (EXTWALL EQ 8) EXTWALL_Text = 'Composition'.
IF (EXTWALL EQ 9) EXTWALL_Text = 'Masonry'.
IF (EXTWALL EQ 10) EXTWALL_Text = 'Log'.
IF (EXTWALL EQ 11) EXTWALL_Text = 'Cement Fiber'.
* alter type EXTWALL_Text (amin).

* codebook bsmt.
string Basement_Text (a20).
IF (BSMT EQ 0) Basement_Text = 'None'.
IF (BSMT EQ 1) Basement_Text = '1/4 Bsmt/Slab'.
IF (BSMT EQ 2) Basement_Text = '1/2 Bsmt/Crawl'.
IF (BSMT EQ 3) Basement_Text = '3/4 Bsmt'.
IF (BSMT EQ 4) Basement_Text = 'Full'.
* alter type Basement_Text (amin).

* codebook heat.
string Heat_Text (a10).
IF (HEAT EQ 0) Heat_Text = 'N/A'.
IF (HEAT EQ 1) Heat_Text = 'None'.
IF (HEAT EQ 2) Heat_Text = 'Non-Cntrl'.
IF (HEAT EQ 3) Heat_Text = 'Cntrl Ht'.
IF (HEAT EQ 4) Heat_Text = 'Cntrl HtAC'.
* alter type Heat_Text (amin).

* codebook fuel.
string Fuel_Text (a15).
IF (FUEL EQ 0) Fuel_Text = 'N/A'.
IF (FUEL EQ 1) Fuel_Text = 'Oil'.
IF (FUEL EQ 2) Fuel_Text = 'Coal Stk'.
IF (FUEL EQ 3) Fuel_Text = 'Gas'.
IF (FUEL EQ 4) Fuel_Text = 'Coal Hnd'.
IF (FUEL EQ 5) Fuel_Text = 'Solar'.
IF (FUEL EQ 6) Fuel_Text = 'Elec'.
IF (FUEL EQ 7) Fuel_Text = 'Other'.
IF (FUEL EQ 8) Fuel_Text = 'Geothermal'.
* alter type Fuel_Text (amin).

* codebook heatsys.
string Heatsys_Text (a15).
IF (HEATSYS EQ 0) Heatsys_Text = 'N/A'.
IF (HEATSYS EQ 1) Heatsys_Text = 'Steam/Vapor'.
IF (HEATSYS EQ 2) Heatsys_Text = 'Hot Wtr'.
IF (HEATSYS EQ 3) Heatsys_Text = 'Elec/Solar'.
IF (HEATSYS EQ 4) Heatsys_Text = 'Forced Air'.
IF (HEATSYS EQ 5) Heatsys_Text = 'Central AC'.
IF (HEATSYS EQ 6) Heatsys_Text = 'N/A'.
IF (HEATSYS EQ 7) Heatsys_Text = 'Hot Air'.
IF (HEATSYS EQ 8) Heatsys_Text = 'Pipeless'.
IF (HEATSYS EQ 9) Heatsys_Text = 'None'.
* alter type Heatsys_Text (amin).
* EXECUTE.

FORMATS AttBltGar DETGARx CARPORTx (COMMA10.0).
STRING Parking_Text (A100).

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IF (AttBltGar GT 0)Parking_Text =
CONCAT('Att-',LTRIM(RTRIM(STRING(AttBltGar,F10)))). .
IF (DETGARx GT 0)Parking_Text =
CONCAT(LTRIM(RTRIM(Parking_Text)), '/', 'Det-', LTRIM(RTRIM(STRING(DETGARx,F10)))). .
IF (CARPORTx GT 0)Parking_Text =
CONCAT(LTRIM(RTRIM(Parking_Text)), '//', 'Cpt-', LTRIM(RTRIM(STRING(CARPORTx,F10)))). .
IF (CHAR.SUBSTR(Parking_Text,1,1) EQ '/')Parking_Text = CHAR.SUBSTR(Parking_Text,2).
ALTER TYPE Parking_Text (AMIN).

STRING Porch_Text (A100).
IF (OpenPorchX GT 0)Porch_Text = CONCAT('Op-',LTRIM(RTRIM(STRING(OpenPorchX,F10)))). .
IF (EnclPorchX GT 0)Porch_Text =
CONCAT(LTRIM(RTRIM(Porch_Text)), '/', 'Ep-', LTRIM(RTRIM(STRING(EnclPorchX,F10)))). .
IF (CHAR.SUBSTR(Porch_Text,1,1) EQ '/')Porch_Text = CHAR.SUBSTR(Porch_Text,2).
ALTER TYPE Parking_Text (AMIN).

STRING TerracePatio_Text (A100).
IF (TerraceX GT 0)TerracePatio_Text =
CONCAT('Ter-',LTRIM(RTRIM(STRING(TerraceX,F10)))). .
IF (PatioX GT 0)TerracePatio_Text =
CONCAT(LTRIM(RTRIM(TerracePatio_Text)), '/', 'Pto-', LTRIM(RTRIM(STRING(PatioX,F10)))). .
IF (CHAR.SUBSTR(TerracePatio_Text,1,1) EQ '/')TerracePatio_Text =
CHAR.SUBSTR(TerracePatio_Text,2).
ALTER TYPE Parking_Text (AMIN).

STRING YRBLT_Text (A12).
COMPUTE YRBLT_Text =
CONCAT(STRING(YRBLT,F4.0), '- ', LTRIM(STRING((PCT_GOOD_ADJ*100),F6.2))). .
EXECUTE.

STRING BATH_Text (A15).
COMPUTE BATH_Text =
CONCAT(LTRIM(RTRIM(STRING(FIXBATH,F4.0))), '- ', LTRIM(RTRIM(STRING(FIXHALF,F4.0))), '- ',
,LTRIM(RTRIM(STRING(FIXTOT,F4.0)))).

STRING LARGE_Text (A3).
IF(LARGE LAND EQ 1)LARGE_Text = 'Yes'.
IF(LARGE LAND EQ 0)LARGE_Text = 'No'.
EXECUTE.

SAVE OUTFILE !ModelData3 + 'PREDICTION.SAV'.
COMMENT BOOKMARK;LINE_NUM=1079;ID=2.

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\* Encoding: UTF-8.

GET FILE= !ModelData4 + 'MARKET 4 RESIDENTIAL MASTER POPULATION WITH SALES FOR PROGNOSIS.sav'.  
DATASET NAME DataSet1.

SORT CASES BY PARID.

\* RENAME VARIABLES (OUT = OUT2).

\* INSERT FILE = !Modelsyntax4 + 'Market 4 outliers.sps'  
SYNTAX = INTERACTIVE  
ERROR = STOP.

\* IF(OUT EQ 1)ValidityCode = 'Invalid'.  
\* IF(OUT EQ 2)ValidityCode = 'Invalid'.  
\* IF(OUT EQ 3)ValidityCode = 'Invalid'.

\* COMPUTE KEEP = 1.  
\* IF(ValidityCode EQ 'Invalid' AND PARCEL\_TYPE EQ 'S')KEEP = 0.  
\* CROSSTABS KEEP BY PARCEL\_TYPE.  
\* CROSSTABS KEEP BY OUT.

\* SELECT IF(KEEP EQ 1).  
EXECUTE.

\* SORT CASES BY PARCEL\_TYPE (A) PARID (A) SOLDDATE (D).  
\* COMPUTE DUP = 0.  
\* IF(PARCEL\_TYPE EQ 'S' AND LAG(PARCEL\_TYPE) EQ 'S' AND PARID EQ LAG(PARID))DUP = 1.

\* FREQUENCIES DUP.

\* SELECT IF(DUP EQ 0).

\* EXECUTE.

\* DELETE VARIABLES KEEP.

\* EXECUTE.

DO IF(PARCEL\_TYPE EQ 'P' AND SFLA\_ECON GT 0).  
COMPUTE VPPSF = APRTOT / SFLA\_ECON.

END IF.

DO IF(PARCEL\_TYPE EQ 'S' AND SFLA\_ECON GT 0).  
COMPUTE SPPSF = SOLDPRICE / SFLA\_ECON.

END IF.

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RECODE QUAL (1 2 3 = 1)(4 5 6 = 2)(7 8 9 = 3)(10 11 12 = 4)(13 14 15 = 5)(16 17 18 = 6)(19 20 21 = 7)(22 23 24 = 8) INTO Qual\_Grp.  
VALUE LABELS Qual\_Grp 1 'E' 2 'D' 3 'C' 4 'B' 5 'A' 6 'X' 7 'S' 8 'Z'.

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STRING NBHDGroup (A50).

COMPUTE NBHDGroup = NBHD\_LAbel.

DO IF(NBHD GT 0 AND CHAR.INDEX(NBHD\_LAbel,"-") GT 0).  
COMPUTE NBHDGroup = LTRIM(RTRIM(CHAR.SUBSTR(NBHD\_LAbel,1,(CHAR.INDEX(NBHD\_LAbel,"-") - 1))).  
END IF.

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DO IF(CHAR.INDEX(NBHD_LAbel,"(") GT 0 AND NBHD GT 0).
  COMPUTE NBHDGroup = LTRIM(RTRIM(CHAR.SUBSTR(NBHD_LAbel,1,(CHAR.INDEX(NBHD_LAbel,"(")-1))).
END IF.
* FREQUENCIES NBHDGroup.

*Run this this the first time and then comment it out and use the second one.
* AUTORECODE VARIABLES=NBDGroup
/INTO NBHDGroupNum
/SAVE TEMPLATE= !Modelsyntax4 + 'NBHD Desc Template.sat'
/PRINT.

* AUTORECODE VARIABLES=NBDGroup
/INTO NBHDGroupNum
/APPLY TEMPLATE= !Modelsyntax4 + 'NBHD Desc Template.sat'
/PRINT.

RECODE NBHDGroup ('Baldwin' = 1) ('Freeport' = 2) ('Hempstead' = 3) ('Roosevelt' = 4) ('Uniondale' = 5) INTO NBHDGroupNum.

VALUE LABELS NBHDGroupNum
1 'Baldwin'
2 'Freeport'
3 'Hempstead'
4 'Roosevelt'
5 'Uniondale'.

* CROSSTABS SMONTH BY SYEAR.

COMPUTE TGROUP = NBHDGroupNum.
* RECODE TGROUP (1 = 1) (2, 3, 4 = 2) (5 = 3).
* IF (ANY(NBHD, 117, 119)) TGROUP = 4.
* IF(NBHD EQ 51) TGROUP = 51.
* IF(NBHD EQ 143) TGROUP = 143.

* set tnumbers = both.
* FREQUENCIES nbhdgroupnum.
* set tnumbers = values.

DO IF(SYEAR GT 0).
  COMPUTE SDATE = DATE.MOYR(SMONTH,SYEAR).
END IF.
FORMATS SDATE (MOYR6).

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*****.

*ENTER YOUR STARTING DATE, BASE VALUATION DATE - FORMAT IS MONTH THEN YEAR.
COMPUTE STARTDATE = DATE.MOYR(1,2011).
COMPUTE BASEDATE = DATE.MOYR(12, 2018).
COMPUTE TIMEPERIOD = DATEDIFF(BASEDATE,STARTDATE,"MONTHS") .
COMPUTE MONTHS = DATEDIFF(SDATE,STARTDATE,"MONTHS") .
COMPUTE MONTH = TIMEPERIOD - MONTHS.
EXECUTE .

*CREATE QUARTER AND SEMI ANNUAL VARIABLES.
* RECODE SYEAR (2011 = 0)(2012 = 1)(2013 = 2)(2014 = 3)(2015 = 4)(2016 = 5)(2017 = 6)(2018 = 7) INTO ANNUAL.
* RECODE SMONTH (LO THRU 3 = 1)(LO THRU 6 = 2)(LO THRU 9 = 3)(LO THRU HI = 4) INTO QUARTERLY.

* COMPUTE QUARTER = (ANNUAL * 4) + QUARTERLY.

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* RECODE SMONTH (LO THRU 6 = 1)(LO THRU HI = 2) INTO SEMIYEARLY.  
* COMPUTE SEMI_ANNUAL = (ANNUAL * 2) + SEMIYEARLY.  
* SORT CASES BY TGROUP SEMI_ANNUAL MONTHS.  
* SET TNUMBERS = VALUES.  
* MEANS SPPSF BY TGROUP /CELLS MEAN MEDIAN.  
* SET TNUMBERS = BOTH.  
* COMPUTE SPPSF_RATIO = 0.  
* IF (TGROUP EQ 1) SPPSF_RATIO = SPPSF / 225.56.  
* IF (TGROUP EQ 2) SPPSF_RATIO = SPPSF / 188.86.  
* IF (TGROUP EQ 3) SPPSF_RATIO = SPPSF / 164.64.  
* IF (TGROUP EQ 4) SPPSF_RATIO = SPPSF / 181.22.  
* IF (TGROUP EQ 5) SPPSF_RATIO = SPPSF / 213.97.  
  
* AGGREGATE OUTFILE = *  
MODE = ADDVARIABLES OVERWRITE = YES  
/BREAK TGROUP MONTHS  
/MEDIAN_SPPSF = MEDIAN(SPPSF)  
/MEDIAN_RATIO = MEDIAN(SPPSF_RATIO).  
  
* SET TNUMBERS = VALUES.  
* EXAMINE MEDIAN_RATIO BY TGROUP /PLOT = NONE /NOTOTAL /STATISTICS = NONE  
/PERCENTILES (25 50 75) = HAVERAGE.  
* SET TNUMBERS = BOTH.  
  
* COMPUTE TRIM_SPPSF = 0.  
* IF (TGROUP EQ 1.00 AND NOT(RANGE(MEDIAN_RATIO, 0.5971, 1.3986))) TRIM_SPPSF =  
1.00.  
* IF (TGROUP EQ 2.00 AND NOT(RANGE(MEDIAN_RATIO, 0.439, 1.5422))) TRIM_SPPSF =  
2.00.  
* IF (TGROUP EQ 3.00 AND NOT(RANGE(MEDIAN_RATIO, 0.3681, 1.6526))) TRIM_SPPSF =  
3.00.  
* IF (TGROUP EQ 4.00 AND NOT(RANGE(MEDIAN_RATIO, 0.388, 1.634))) TRIM_SPPSF = 4.00.  
* IF (TGROUP EQ 5.00 AND NOT(RANGE(MEDIAN_RATIO, 0.4416, 1.5749))) TRIM_SPPSF =  
5.00.  
* COMPUTE FILTERX = TRIM_SPPSF EQ 0.  
* FILTER BY FILTERX.  
  
* SORT CASES BY TGROUP.  
* SPLIT FILE BY TGROUP.  
  
* SET CTEMPLATE="C:\Users\thimg\Dropbox\clients\Template\LoessLinewithFitLine.sgt".  
* GRAPH /SCATTER SDATE WITH MEDIAN_RATIO.  
* SET CTEMPLATE NONE.  
  
* MEANS MEDIAN_RATIO BY SYEAR BY SDATE /CELLS MIN MAX MEAN MEDIAN COUNT STDDEV.  
* SPLIT FILE OFF.  
* FILTER OFF.  
  
* TEMPORARY.  
* SELECT IF(TGROUP EQ 5).  
* MEANS MEDIAN_RATIO BY SYEAR BY SDATE /CELLS MIN MAX MEAN MEDIAN COUNT STDDEV.  
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***** SPLINES *****  
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\* SORT CASES BY TGROUP (A).  
\* SPLIT FILE BY TGROUP.  
\* GRAPH /SCATTERPLOT SDATE WITH SPPSF BY QUAL  
/TEMPLATE = !TEMPLATE + 'LoessLineWithFitLine.sgt'.  
\* SPLIT FILE OFF.

COMPUTE SPLINEDATE1 = DATE.MOYR(12, 2018).  
COMPUTE SPLINEDATE2 = DATE.MOYR(12, 2018).  
COMPUTE SPLINEDATE3 = DATE.MOYR(12, 2018).  
COMPUTE SPLINEDATE4 = DATE.MOYR(12, 2018).  
COMPUTE SPLINEDATE5 = DATE.MOYR(12, 2018).  
COMPUTE SPLINEDATE6 = DATE.MOYR(12, 2018).

IF (TGROUP EQ 1) SPLINEDATE1 = DATE.MOYR(6, 2013).  
IF (TGROUP EQ 1) SPLINEDATE2 = DATE.MOYR(7, 2015).  
IF (TGROUP EQ 1) SPLINEDATE3 = DATE.MOYR(9, 2016).  
IF (TGROUP EQ 1) SPLINEDATE4 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 2) SPLINEDATE1 = DATE.MOYR(9, 2015).  
IF (TGROUP EQ 2) SPLINEDATE2 = DATE.MOYR(5, 2016).  
IF (TGROUP EQ 2) SPLINEDATE3 = DATE.MOYR(4, 2017).  
IF (TGROUP EQ 2) SPLINEDATE4 = DATE.MOYR(7, 2018).  
\* IF (TGROUP EQ 2) SPLINEDATE5 = DATE.MOYR(11, 2016).

IF (TGROUP EQ 3) SPLINEDATE1 = DATE.MOYR(6, 2014).  
IF (TGROUP EQ 3) SPLINEDATE2 = DATE.MOYR(1, 2016).  
IF (TGROUP EQ 3) SPLINEDATE3 = DATE.MOYR(2, 2017).  
IF (TGROUP EQ 3) SPLINEDATE4 = DATE.MOYR(7, 2018).  
\* IF (TGROUP EQ 3) SPLINEDATE5 = DATE.MOYR(1, 2017).

IF (TGROUP EQ 4) SPLINEDATE1 = DATE.MOYR(11, 2013).  
IF (TGROUP EQ 4) SPLINEDATE2 = DATE.MOYR(8, 2014).  
IF (TGROUP EQ 4) SPLINEDATE3 = DATE.MOYR(5, 2015).  
IF (TGROUP EQ 4) SPLINEDATE4 = DATE.MOYR(4, 2016).  
IF (TGROUP EQ 4) SPLINEDATE5 = DATE.MOYR(5, 2017).  
IF (TGROUP EQ 4) SPLINEDATE6 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 5) SPLINEDATE1 = DATE.MOYR(10, 2013).  
IF (TGROUP EQ 5) SPLINEDATE2 = DATE.MOYR(6, 2014).  
IF (TGROUP EQ 5) SPLINEDATE3 = DATE.MOYR(12, 2015).  
IF (TGROUP EQ 5) SPLINEDATE4 = DATE.MOYR(4, 2017).  
IF (TGROUP EQ 5) SPLINEDATE5 = DATE.MOYR(7, 2018).

FORMATS STARTDATE BASEDATE SPLINEDATE1 SPLINEDATE2 SPLINEDATE3 SPLINEDATE4  
SPLINEDATE5  
SPLINEDATE5 (DATE9).

COMPUTE SPLINE\_DIFF1 = DATEDIFF(SPLINEDATE1,STARTDATE,"MONTHS") .  
COMPUTE SPLINE\_DIFF2 = DATEDIFF(SPLINEDATE2,STARTDATE,"MONTHS") .  
COMPUTE SPLINE\_DIFF3 = DATEDIFF(SPLINEDATE3,STARTDATE,"MONTHS") .  
COMPUTE SPLINE\_DIFF4 = DATEDIFF(SPLINEDATE4,STARTDATE,"MONTHS") .  
COMPUTE SPLINE\_DIFF5 = DATEDIFF(SPLINEDATE5,STARTDATE,"MONTHS") .  
COMPUTE SPLINE\_DIFF6 = DATEDIFF(SPLINEDATE6,STARTDATE,"MONTHS") .  
EXECUTE.

COMPUTE MONTHS1 = MONTHS.  
IF(MONTHS GT SPLINE\_DIFF1)MONTHS1 = SPLINE\_DIFF1.  
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COMPUTE MONTHS2 = MONTHS - SPLINE\_DIFF1.  
RECODE MONTHS2 (LO THRU 0 = 0).  
IF(MONTHS GT SPLINE\_DIFF2)MONTHS2 = SPLINE\_DIFF2 - SPLINE\_DIFF1.  
COMPUTE MONTHS3 = MONTHS - SPLINE\_DIFF2 .  
RECODE MONTHS3 (LO THRU 0 = 0).  
IF(MONTHS GT SPLINE\_DIFF3)MONTHS3 = SPLINE\_DIFF3 - SPLINE\_DIFF2.  
COMPUTE MONTHS4 = MONTHS - SPLINE\_DIFF3 .  
RECODE MONTHS4 (LO THRU 0 = 0).  
IF(MONTHS GT SPLINE\_DIFF4)MONTHS4 = SPLINE\_DIFF4 - SPLINE\_DIFF3.  
COMPUTE MONTHS5 = MONTHS - SPLINE\_DIFF4 .  
RECODE MONTHS5 (LO THRU 0 = 0).  
IF(MONTHS GT SPLINE\_DIFF5)MONTHS5 = SPLINE\_DIFF5 - SPLINE\_DIFF4.  
COMPUTE MONTHS6 = MONTHS - SPLINE\_DIFF5 .  
RECODE MONTHS6 (LO THRU 0 = 0).  
IF(MONTHS GT SPLINE\_DIFF6)MONTHS6 = SPLINE\_DIFF6 - SPLINE\_DIFF5.  
COMPUTE MONTHS7 = MONTHS - SPLINE\_DIFF6 .  
RECODE MONTHS7 (LO THRU 0 = 0).  
  
COMPUTE SPLINE = 1.  
IF(MONTHS2 GT 0)SPLINE = 2.  
IF(MONTHS3 GT 0)SPLINE = 3.  
IF(MONTHS4 GT 0)SPLINE = 4.  
IF(MONTHS5 GT 0)SPLINE = 5.  
IF(MONTHS6 GT 0)SPLINE = 6.  
IF(MONTHS7 GT 0)SPLINE = 7.  
FREQUENCIES SPLINE.

\* SORT CASES BY TGROUP (A).  
\* SPLIT FILE BY TGROUP.  
\* GRAPH /SCATTERPLOT SDATE WITH SPPSF BY SPLINE  
/TEMPLATE = !TEMPLATE + 'LoessLineWithFitLine.sgt'.  
\* SPLIT FILE OFF.

\*\*\*\*\*  
\*\*\*\*\*MONTH\*\*\*\*\*  
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COMPUTE MONTH1 = SPLINE\_DIFF1 - MONTHS1.  
COMPUTE MONTH2 = (SPLINE\_DIFF2 - SPLINE\_DIFF1) - MONTHS2.  
COMPUTE MONTH3 = (SPLINE\_DIFF3 - SPLINE\_DIFF2) - MONTHS3.  
COMPUTE MONTH4 = (SPLINE\_DIFF4 - SPLINE\_DIFF3) - MONTHS4.  
COMPUTE MONTH5 = (SPLINE\_DIFF5 - SPLINE\_DIFF4) - MONTHS5.  
COMPUTE MONTH6 = (SPLINE\_DIFF6 - SPLINE\_DIFF5) - MONTHS6.  
COMPUTE MONTH7 = (TIMEPERIOD - SPLINE\_DIFF6) - MONTHS7.

\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*TGROUP  
MONTHS\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

\* IF (TGROUP EQ 1) MONTHS1\_1 = MONTHS1.  
\* IF (TGROUP EQ 1) MONTHS2\_1 = MONTHS2.  
\* IF (TGROUP EQ 1) MONTHS3\_1 = MONTHS3.  
\* IF (TGROUP EQ 1) MONTHS4\_1 = MONTHS4.  
\* IF (TGROUP EQ 1) MONTHS5\_1 = MONTHS5.  
\* IF (TGROUP EQ 1) MONTHS6\_1 = MONTHS6.

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* IF (TGROUP EQ 2) MONTHS1_2 = MONTHS1.  
* IF (TGROUP EQ 2) MONTHS2_2 = MONTHS2.  
* IF (TGROUP EQ 2) MONTHS3_2 = MONTHS3.  
* IF (TGROUP EQ 2) MONTHS4_2 = MONTHS4.  
* IF (TGROUP EQ 2) MONTHS5_2 = MONTHS5.  
* IF (TGROUP EQ 2) MONTHS6_2 = MONTHS6.  
  
* IF (TGROUP EQ 3) MONTHS1_3 = MONTHS1.  
* IF (TGROUP EQ 3) MONTHS2_3 = MONTHS2.  
* IF (TGROUP EQ 3) MONTHS3_3 = MONTHS3.  
* IF (TGROUP EQ 3) MONTHS4_3 = MONTHS4.  
* IF (TGROUP EQ 3) MONTHS5_3 = MONTHS5.  
* IF (TGROUP EQ 3) MONTHS6_3 = MONTHS6.  
  
* IF (TGROUP EQ 4) MONTHS1_4 = MONTHS1.  
* IF (TGROUP EQ 4) MONTHS2_4 = MONTHS2.  
* IF (TGROUP EQ 4) MONTHS3_4 = MONTHS3.  
* IF (TGROUP EQ 4) MONTHS4_4 = MONTHS4.  
* IF (TGROUP EQ 4) MONTHS5_4 = MONTHS5.  
* IF (TGROUP EQ 4) MONTHS6_4 = MONTHS6.  
  
* IF (TGROUP EQ 5) MONTHS1_5 = MONTHS1.  
* IF (TGROUP EQ 5) MONTHS2_5 = MONTHS2.  
* IF (TGROUP EQ 5) MONTHS3_5 = MONTHS3.  
* IF (TGROUP EQ 5) MONTHS4_5 = MONTHS4.  
* IF (TGROUP EQ 5) MONTHS5_5 = MONTHS5.  
* IF (TGROUP EQ 5) MONTHS6_5 = MONTHS6.  
  
* RECODE MONTHS1_1 TO MONTHS5_5 (SYSMIS = 0).  
* EXECUTE.  
  
*****  
*****  
***** RATES *****  
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*****  
  
COMPUTE RATE1 = 1.  
COMPUTE RATE2 = 1.  
COMPUTE RATE3 = 1.  
COMPUTE RATE4 = 1.  
COMPUTE RATE5 = 1.  
COMPUTE RATE6 = 1.  
COMPUTE RATE7 = 1.  
  
IF(TGROUP EQ 1)RATE1 = 1.00606**MONTH1.  
IF(TGROUP EQ 1)RATE2 = 1.00449**MONTH2.  
IF(TGROUP EQ 1)RATE3 = 1.00449**MONTH3.  
IF(TGROUP EQ 1)RATE4 = 1.00700**MONTH4.  
  
IF(TGROUP EQ 2)RATE1 = 1.00135**MONTH1.  
IF(TGROUP EQ 2)RATE2 = 1.01109**MONTH2.  
IF(TGROUP EQ 2)RATE3 = 1.00975**MONTH3.  
IF(TGROUP EQ 2)RATE4 = 1.00699**MONTH4.  
  
IF(TGROUP EQ 3)RATE1 = 1.00000**MONTH1.  
IF(TGROUP EQ 3)RATE2 = 1.00508**MONTH2.  
IF(TGROUP EQ 3)RATE3 = 1.01454**MONTH3.  
IF(TGROUP EQ 3)RATE4 = 1.00424**MONTH4.
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IF(TGROUP EQ 4)RATE1 = 0.99658**MONTH1.  
IF(TGROUP EQ 4)RATE2 = 1.01602**MONTH2.  
IF(TGROUP EQ 4)RATE3 = 1.00000**MONTH3.  
IF(TGROUP EQ 4)RATE4 = 1.01155**MONTH4.  
IF(TGROUP EQ 4)RATE5 = 1.00973**MONTH5.  
IF(TGROUP EQ 4)RATE6 = 1.00000**MONTH6.  
  
IF(TGROUP EQ 5)RATE1 = 1.00000**MONTH1.  
IF(TGROUP EQ 5)RATE2 = 1.01266**MONTH2.  
IF(TGROUP EQ 5)RATE3 = 1.00505**MONTH3.  
IF(TGROUP EQ 5)RATE4 = 1.00659**MONTH4.  
IF(TGROUP EQ 5)RATE5 = 1.00573**MONTH5.  
  
COMPUTE ADJRATE = RATE1 * RATE2 * RATE3 * RATE4 * RATE5 * RATE6 * RATE7.  
  
SORT CASES BY TGROUP (A).  
SPLIT FILE BY TGROUP.  
GRAPH /SCATTERPLOT SDATE WITH ADJRATE BY SPLINE  
/TEMPLATE = !TEMPLATE + 'Time Rates.sgt'.  
SPLIT FILE OFF.  
  
COMPUTE TASP = SOLDPRICE * ADJRATE.  
FORMATS TASP (COMMA10.0).  
* DESCRIIFF1) - MONTHS2.  
* COMPUTE MONTH3 = (TIMEPERIOD - SPLINE_DIFF2) - MONTHS3.  
* COMPUTE MONTH4 = 0.  
* COMPUTE MONTH5 = 0.  
* END IF.  
* DESCRIPTIVES ADJ_SALE_PRICE TASP.  
*****  
***** LANDSQFT *****  
*****  
  
COMPUTE LandIssuePCTx = 1.  
IF(LandIssuePCT LT 0)LandIssuePCTx = 1 + (LandIssuePCT / 100).  
  
COMPUTE LandIssuePCT_ECONx = 1.  
IF(LandIssuePCT_ECON LT 0)LandIssuePCT_ECONx = 1 + (LandIssuePCT_ECON / 100).  
  
COMPUTE SUMLANDX = SUMLAND - LandIssueSF_Sum.  
IF(EconType EQ '')SUMLANDX = SUMLAND - LandIssueSF.  
  
COMPUTE LANDSQFTx = LANDSQFT - LandIssueSF.  
  
FORMATS SUMLANDX LANDSQFTx (COMMA10.0).  
DESCRIPTIVES SUMLANDX LANDSQFTx.  
  
DO IF(SUMLANDX GT 0).  
COMPUTE LN_LANDSQFT = LN(SUMLANDX).  
END IF.  
RECODE LN_LANDSQFT (SYSMIS = 0).  
EXECUTE.  
  
DO IF(SUMLANDX GT 0).
```

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```
COMPUTE LANDSIZERATIO = (SUMLANDX / 5000).
END IF.
RECODE LANDSIZERATIO (SYSMIS = 1).
COMPUTE LN_LANDSIZERATIO = LN(LANDSIZERATIO).
COMPUTE LN_LANDSIZERATIO1 = 0.
IF(LANDSIZERATIO LT 1)LN_LANDSIZERATIO1 = LN_LANDSIZERATIO.
COMPUTE LN_LANDSIZERATIO2 = 0.
IF(LANDSIZERATIO GT 1)LN_LANDSIZERATIO2 = LN_LANDSIZERATIO.
EXECUTE.

* TEMPORARY.
* SELECT IF(SUMLAND GT 0).
* GRAPH /SCATTERPLOT(BIVAR)= SUMLAND WITH SPPSF .

* TEMPORARY.
* SELECT IF(LANDSQFT GT 300000).
* LIST RECEPTIONNO ACCOUNTNO SUMLAND.
```

```
*****
*****LIVING
AREA*****.
*****.
```

```
COMPUTE BASEADJ = STORIES.
RECODE BASEADJ (1.7 = 1.75)(2.7 = 2.75)(3.7 = 3.75).
* FREQUENCIES BASEADJ.
```

```
* this code when used will match SFLA.
* COMPUTE AtticSF = 0.
* IF(ATTIC EQ 3)AtticSF = FLR1AREA * .20.
* IF(ATTIC EQ 4)AtticSF = FLR1AREA * .40.
```

```
* COMPUTE SQFT = RND((FLR1AREA * BASEADJ) + RND(AtticSF) + FINBSMTAREA + FirstSF +
HalfStory + Story34
+ AtticFinished + AtticPartFinished +
FinBsmt + Solarium).
```

```
COMPUTE AtticSF = AtticFinished + AtticPartFinished .
IF(ATTIC EQ 3)AtticSF = AtticSF + RND(FLR1AREA * .20).
IF(ATTIC EQ 4)AtticSF = AtticSF + RND(FLR1AREA * .40).
```

```
COMPUTE SQFT = RND((FLR1AREA * BASEADJ) + RND(AtticSF) + FirstSF + HalfStory +
Story34 + Solarium).
```

```
COMPUTE UPERSF = RND((FLR1AREA * BASEADJ) - FLR1AREA + HalfStory + Story34) .
COMPUTE FINBSMTx = FINBSMTAREA + FinBsmt.
COMPUTE UNFBSMTx = UNFINAREA + UnfBsmt.
COMPUTE RECBSMTx = RECROMAREA + RecRoom.
RECODE FINBSMTx UNFBSMTx RECBSMTx (LO THRU 10 = 0).
```

```
FORMATS AtticSF SQFT FINBSMTx UNFBSMTx RECBSMTx (COMMA10.0).
```

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```
COMPUTE SQFTX = SQFT.  
* IF(SFLA2 GT 0)SQFTX = SQFT + ( SFLA2 * .75).  
DO IF(SFLA_ECON GT 0).  
COMPUTE LnSQFTX= LN(SQFTX).  
END IF.  
RECODE LnSQFTX (SYSMIS = 0).  
EXECUTE.  
  
DO IF(SQFTX GT 0).  
COMPUTE SQFTXRATIO = (SQFTX / 1500).  
END IF.  
RECODE SQFTXRATIO (SYSMIS = 1).  
COMPUTE LN_SQFTXRATIO = LN(SQFTXRATIO).  
COMPUTE LN_SQFTXRATIO1 = 0.  
IF(SQFTXRATIO LT 1)LN_SQFTXRATIO1 = LN_SQFTXRATIO.  
COMPUTE LN_SQFTXRATIO2 = 0.  
IF(SQFTXRATIO GT 1)LN_SQFTXRATIO2 = LN_SQFTXRATIO.  
EXECUTE.  
  
DO IF(SFLA2 GT 0).  
COMPUTE LnSFLA2= LN(SFLA2).  
END IF.  
RECODE LnSFLA2 (SYSMIS = 0).  
EXECUTE.  
  
COMPUTE SFLA2_RATIO = 1 + (SFLA2 / 1000).  
COMPUTE LN_SFLA2_RATIO = LN(SFLA2_RATIO).  
  
*QUALITY GRADE OF SECOND RESIDENCE SHOWS SLIGHT NEED OF ADJUSTMENT.  
COMPUTE QualRes2D_OR_LESS = 0.  
IF(SFLA2 GT 0 AND QUAL2 LE 6)QualRes2D_OR_LESS = 1.  
  
COMPUTE UPERSF_RATIO = 1 + (UPERSF / 1000).  
COMPUTE LN_UPERSF_RATIO = LN(UPERSF_RATIO).  
  
COMPUTE AtticSF_RATIO = 1 + (AtticSF / 1000).  
COMPUTE LN_AtticSF_RATIO = LN(AtticSF_RATIO).  
  
*****BSMT***.  
  
IF(UNFBSMTX GT 0)LNUNFBSMTX = LN(UNFBSMTX).  
IF(FINBSMTX GT 0)LNFINBSMTX = LN(FINBSMTX).  
IF(RECBSMTX GT 0)LNRECBSMTX = LN(RECBSMTX).  
RECODE LNUNFBSMTX LNFINBSMTX LNRECBSMTX (SYSMIS = 0).  
  
COMPUTE UNFBSMTX_RATIO = 1 + (UNFBSMTX / 1000).  
COMPUTE LN_UNFBSMTX_RATIO = LN(UNFBSMTX_RATIO).  
  
COMPUTE FINBSMTX_RATIO = 1 + (FINBSMTX / 1000).  
COMPUTE LN_FINBSMTX_RATIO = LN(FINBSMTX_RATIO).  
  
COMPUTE LIN_BSMTX = RND((RECBSMTX * 1.0) + (FINBSMTX * 1.10) + (UNFBSMTX * .5)).  
COMPUTE LIN_BSMTX_Ratio = 1 + (LIN_BSMTX / 1000).  
COMPUTE LN_LIN_BSMTX_Ratio = LN(LIN_BSMTX_Ratio).  
  
COMPUTE RECBSMTX_RATIO = 1 + (RECBSMTX / 1000).  
COMPUTE LN_RECBSMTX_RATIO = LN(RECBSMTX_RATIO).  
EXECUTE.
```

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```
*****  
*****EFFECTIVE  
AGE*****  
*****  
  
Compute EFFYRBLT = YRBLT.  
IF(YRREMOD GT 0)EFFYRBLT = YRREMOD.  
  
DO IF(PARCEL_TYPE EQ 'S').  
COMPUTE EFFAGE = SYEAR - EFFYRBLT.  
END IF.  
DO IF(PARCEL_TYPE EQ 'P').  
COMPUTE EFFAGE = 2018 - EFFYRBLT.  
END IF.  
  
* TEMPORARY.  
* SELECT IF(PARCEL_TYPE EQ 'S').  
* GRAPH /SCATTERPLOT(BIVAR)= EFFAGE WITH DEPR  
/MISSING=LISTWISE.  
  
DO IF(DEPR GT 0).  
COMPUTE PCT_GOOD= DEPR/100.  
COMPUTE LN_PCT_GOOD = LN(PCT_GOOD).  
END IF.  
RECODE LN_PCT_GOOD (SYSMIS = 0).  
  
* DESCRIPTIVES PCT_GOOD.  
VARIABLE LABELS PCT_GOOD 'PERCENTAGE OF VALUE LEFT IN UNIT'.  
EXECUTE.  
  
*****  
*****  
*****  
***GARAGE***.  
  
Compute ATTGARX = Garage.  
Compute BLTINGARX = BsmtGarage.  
Compute DETGARX = GarageDetached_SF.  
Compute CARPORTX = CARPORT + Carport_SF.  
Recode ATTGARX BLTINGARX DETGARX CARPORTX (LO THRU 10 = 0).  
  
Compute ATTGARX_RATIO = 1 + (ATTGARX / 480).  
Compute LN_ATTGARX_RATIO = LN(ATTGARX_RATIO).  
  
Compute BLTINGARX_RATIO = 1 + (BLTINGARX / 480).  
Compute LN_BLTINGARX_RATIO = LN(BLTINGARX_RATIO).  
  
Compute DETGARX_RATIO = 1 + (DETGARX / 480).  
Compute LN_DETGARX_RATIO = LN(DETGARX_RATIO).  
  
Compute CARPORTX_RATIO = 1 + (CARPORTX / 480).  
Compute LN_CARPORTX_RATIO = LN(CARPORTX_RATIO).  
Execute.  
  
Compute AttBltGar = ATTGARX + BLTINGARX.  
Compute AttBltGar_RATIO = 1+ (AttBltGar / 480).  
Compute LN_AttBltGar_RATIO = LN(AttBltGar_RATIO).  
  
Compute LinDetGarCarport = RND(DETGARX + (CARPORTX *.50)).  
Compute LinDetGarCarport_RATIO = 1+ (LinDetGarCarport / 480).  
Compute LN_LinDetGarCarport_RATIO = LN(LinDetGarCarport_RATIO).
```

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```
DO IF( GarageDetached_Depr GT 0).
  COMPUTE GarageDetachedPctGood= GarageDetached_Depr/100.
END IF.
RECODE GarageDetachedPctGood (SYSMIS = 1).
COMPUTE LN_GarageDetachedPctGood = LN(GarageDetachedPctGood).
EXECUTE.

COMPUTE LINGARAGEALL = ATTGARX + BLTINGARX + RND(DETGARX * .30) + RND(CARPORTX * .10).
COMPUTE LINGARAGEALL_RATIO = 1 + (LINGARAGEALL / 480).
COMPUTE LN_LINGARAGEALL_RATIO = LN(LINGARAGEALL_RATIO).

COMPUTE ShedX = UtilityBldg + UtilShed_SF.
RECODE ShedX (LO THRU 9 = 0).
COMPUTE ShedX_RATIO = 1 + (ShedX / 480).
COMPUTE LN_ShedX_RATIO = LN(ShedX_RATIO).

*****.
*****PORCHES PATIOS DECKS*****.

COMPUTE TerraceX = RaisedTerrace + Terrace_SF.
COMPUTE PatioX = Patio + PatioPool_SF.
COMPUTE OpenPorchX = OpenPorch + OpenFramePorch_SF + PorchScreened_SF + PatioCovered_SF.
COMPUTE Enc1PorchX = Enc1Porch + PoolEnclosure_SF.
COMPUTE WoodDeckX = WoodDeck + WoodDeck_SF.
COMPUTE CanopyX = Canopy + Canopy_SF.
COMPUTE GreenhouseX = Greenhouse + Greenhouse_SF.

COMPUTE TerraceX_RATIO = 1 + ((TerraceX) / 350).
COMPUTE LN_TerraceX_RATIO = LN(TerraceX_RATIO).

COMPUTE PatioX_RATIO = 1 + ((PatioX) / 115).
COMPUTE LN_PatioX_RATIO = LN(PatioX_RATIO).

COMPUTE OpenPorchX_RATIO = 1 + ((OpenPorchX) / 115).
COMPUTE LN_OpenPorchX_RATIO = LN(OpenPorchX_RATIO).

COMPUTE Enc1PorchX_RATIO = 1 + ((Enc1PorchX) / 115).
COMPUTE LN_Enc1PorchX_RATIO = LN(Enc1PorchX_RATIO).

COMPUTE LINPORCH_RATIO = (RND((OpenPorchX * .975) + Enc1PorchX) / 115) + 1.
COMPUTE LN_LINPORCH_RATIO = LN(LINPORCH_RATIO).

COMPUTE WoodDeckX_RATIO = 1 + ((WoodDeckX) / 145).
COMPUTE LN_WoodDeckX_RATIO = LN(WoodDeckX_RATIO).

COMPUTE CanopyX_RATIO = 1 + ((CanopyX) / 230).
COMPUTE LN_CanopyX_RATIO = LN(CanopyX_RATIO).

COMPUTE GreenhouseX_RATIO = 1 + ((GreenhouseX) / 500).
COMPUTE LN_GreenhouseX_RATIO = LN(GreenhouseX_RATIO).

COMPUTE Gazebo_SF_RATIO = 1 + ((Gazebo_SF) / 180).
COMPUTE LN_Gazebo_SF_RATIO = LN(Gazebo_SF_RATIO).

COMPUTE CabinX = Cabin_SF + OfficeStudio_SF.

COMPUTE CabinX_RATIO = 1 + ((CabinX) / 180).
COMPUTE LN_CabinX_RATIO = LN(CabinX_RATIO).
```

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```
COMPUTE BathHouse_SF_RATIO = 1 + ((BathHouse_SF) / 180).
COMPUTE LN_BathHouse_SF_RATIO = LN(BathHouse_SF_RATIO).

COMPUTE PoolX = PoolVinyl + PoolConc + PoolConc_SF + PoolFbg1_SF + PoolGuni_SF +
PoolVinyl_SF + SpaJacuzzi_SF.
COMPUTE Enc1PoolX = RND((Enc1PoolLow * .75) + Enc1PoolHigh + PoolEnclosure_SF).

COMPUTE PoolX_RATIO = 1 + ((PoolX) / 400).
COMPUTE LN_PoolX_RATIO = LN(PoolX_RATIO).

COMPUTE Enc1PoolX_RATIO = 1 + ((Enc1PoolX) / 400).
COMPUTE LN_Enc1PoolX_RATIO = LN(Enc1PoolX_RATIO).

COMPUTE TennisCourt_SF_RATIO = 1 + ((TennisCourt_SF) / 180).
COMPUTE LN_TennisCourt_SF_RATIO = LN(TennisCourt_SF_RATIO).
```

\*Elevator.

\*\*\*\*\*  
\* QUALITATIVE VARIABLES.

\*\*\*\*\*  
\*STYLE.  
  
RECODE STYLE (1 = 1)(ELSE = 0) INTO ST\_Ranch. /\* 304 SALES - 2162 POP.
COMPUTE GRP3\_Ranch = 0.
IF (TGROUP EQ 3 AND STYLE EQ 1) GRP3\_Ranch = 1.
COMPUTE GRP4\_Ranch = 0.
IF (TGROUP EQ 4 AND STYLE EQ 1) GRP4\_Ranch = 1.
COMPUTE GRP5\_Ranch = 0.
IF (TGROUP EQ 5 AND STYLE EQ 1) GRP5\_Ranch = 1.
RECODE STYLE (2 = 1)(ELSE = 0) INTO ST\_RaisedRanch\_HiRanch. /\* 185 SALES - 1477 POP.
COMPUTE GRP5\_RaisedRanch = 0.
IF (TGROUP EQ 5 AND STYLE EQ 2) GRP5\_RaisedRanch = 1.
RECODE STYLE (3 = 1)(ELSE = 0) INTO ST\_SplitLevel. /\* 173 SALES - 1157 POP.
IF (LIN\_BSMTX NE 0) ST\_RaisedRanch\_HiRanch = 0. /\*BSMT AND RAISED RANCH HIGHLY CORRELATED.
IF (LIN\_BSMTX NE 0) ST\_SplitLevel = 0. /\*BSMT AND SPLIT LEVEL HIGHLY CORRELATED.
RECODE STYLE (4 = 1)(ELSE = 0) INTO ST\_ModifiedRanch. /\* 11 SALES - 84 POP.
\* RECODE STYLE (5 = 1)(ELSE = 0) INTO ST\_Cape. /\* 1393 SALES - 9253 POP.
COMPUTE GRP2\_Cape = 0.
IF (TGROUP EQ 2 AND STYLE EQ 5) GRP2\_Cape = 1.
COMPUTE GRP4\_Cape = 0.
IF (TGROUP EQ 4 AND STYLE EQ 5) GRP4\_Cape = 1.
RECODE STYLE (6 = 1)(ELSE = 0) INTO ST\_Colonial. /\* 551 SALES - 3619 POP.
COMPUTE GRP3\_Colonial = 0.
IF (TGROUP EQ 3 AND STYLE EQ 6) GRP3\_Colonial = 1.
\* RECODE STYLE (7 = 1)(ELSE = 0) INTO ST\_Victorian. /\* 1 SALES - 5 POP.
\* RECODE STYLE (8 = 1)(ELSE = 0) INTO ST\_Contemporary. /\* 1 SALES - 9 POP.
RECODE STYLE (9 = 1)(ELSE = 0) INTO ST\_OldStyle. /\* 820 SALES - 4923 POP.
RECODE STYLE (10 = 1)(ELSE = 0) INTO ST\_BungalowCottage. /\* 337 SALES - 2074 POP.
COMPUTE GRP3\_BungalowCottage = 0.
IF (TGROUP EQ 3 AND STYLE EQ 10) GRP3\_BungalowCottage = 1.
RECODE STYLE (11 = 1)(ELSE = 0) INTO ST\_DuplexOrTriplex. /\* 26 SALES - 240 POP.
\* RECODE STYLE (12 = 1)(ELSE = 0) INTO ST\_MansionEstate. /\* 0 SALES - 0 POP.
\* RECODE STYLE (13 = 1)(ELSE = 0) INTO ST\_Townhouse. /\* 2 SALES - 25 POP.
\* RECODE STYLE (14 = 1)(ELSE = 0) INTO ST\_Condo. /\* 0 SALES - 0 POP.
\* RECODE STYLE (15 = 1)(ELSE = 0) INTO ST\_Coop. /\* 0 SALES - 0 POP.
\* RECODE STYLE (16 = 1)(ELSE = 0) INTO ST\_HomownerAssoc. /\* 0 SALES - 0 POP.
\* RECODE STYLE (17 = 1)(ELSE = 0) INTO ST\_Other. /\* 0 SALES - 0 POP.
RECODE STYLE (18 = 1)(ELSE = 0) INTO ST\_SpTanch. /\* 7 SALES - 50 POP.
\* RECODE STYLE (19 = 1)(ELSE = 0) INTO ST\_CarriageHouse. /\* 0 SALES - 0 POP.

```

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* RECODE STYLE (20 = 1)(ELSE = 0) INTO ST_Tudor. /* 1 SALES - 16 POP.
* RECODE STYLE (21 = 1)(ELSE = 0) INTO ST_Store_Dwell. /* 0 SALES - 0 POP.

* COMPUTE LIN_BSMT_YN = LIN_BSMTX GT 0.

*****.
*LUC.

RECODE LUC ("2150" = 1)(ELSE = 0) INTO OneFamilyWAppt.
RECODE LUC ("2200" = 1)(ELSE = 0) INTO TwoFamily.
RECODE LUC ("2300" = 1)(ELSE = 0) INTO ThreeFamily.
RECODE LUC ("2800" = 1)(ELSE = 0) INTO MultiRes.
COMPUTE ConvertedResidenceX = 0.
IF(LUC_NUM GE 4830)ConvertedResidenceX = 1.

*****.
*QUAL.

* RECODE QUAL (1 = 1)(ELSE = 0) INTO QualEMinus. /* 0 SALES - 0 POP.
* RECODE QUAL (2 = 1)(ELSE = 0) INTO QualE. /* 0 SALES - 0 POP.
* RECODE QUAL (3 = 1)(ELSE = 0) INTO QualEPlus. /* 0 SALES - 0 POP.
* RECODE QUAL (4 = 1)(ELSE = 0) INTO QualDMinus. /* 4 SALES - 30 POP.
* RECODE QUAL (5 = 1)(ELSE = 0) INTO QualD. /* 71 SALES - 481 POP.
RECODE QUAL (1 = 3.50)(2 = 3.25)(3 = 3)(4 = 2.75)(5 = 1.25)(6 = 1)(ELSE = 0) INTO
QualEMinusQualDPlus. /* 132 SALES - 809 POP.
RECODE QUAL (7 = 1)(ELSE = 0) INTO QualCMinus. /* 981 SALES - 6199 POP.
* RECODE QUAL (8 = 1)(ELSE = 0) INTO QualC. /* 2123 SALES - 14865 POP - BASE.
RECODE QUAL (9 = 1)(ELSE = 0) INTO QualCPlus. /* 400 SALES - 2319 POP.
RECODE QUAL (10 = 1)(ELSE = 0) INTO QualBMinus. /* 57 SALES - 248 POP.
RECODE QUAL (11 = 1)(12 = 1)(13 = 1)(14 = 1)(15 = 1.30)(16 = 1.40)(17 = 1.50)(18 =
2.00)
(19 = 2.25)(20 = 2.50)(21 = 2.75)(22 = 3.00)(23 = 3.25)(24 = 3.5)(ELSE = 0) INTO
QualBQualZPlus. /* 39 SALES - 110 POP.
* RECODE QUAL (12 = 1)(ELSE = 0) INTO QualBPlus. /* 3 SALES - 20 POP.
* RECODE QUAL (13 = 1)(ELSE = 0) INTO QualAMinus. /* 2 SALES - 7 POP.
* RECODE QUAL (14 = 1)(ELSE = 0) INTO QualA. /* 0 SALES - 6 POP.
* RECODE QUAL (15 = 1)(ELSE = 0) INTO QualAPlus. /* 0 SALES - 0 POP.
* RECODE QUAL (16 = 1)(ELSE = 0) INTO QualXMinus. /* 0 SALES - 0 POP.
* RECODE QUAL (17 = 1)(ELSE = 0) INTO QualX. /* 0 SALES - 0 POP.
* RECODE QUAL (18 = 1)(ELSE = 0) INTO QualXPlus. /* 0 SALES - 0 POP.
* RECODE QUAL (19 = 1)(ELSE = 0) INTO QualSMinus. /* 0 SALES - 0 POP.
* RECODE QUAL (20 = 1)(ELSE = 0) INTO QualS. /* 0 SALES - 0 POP.
* RECODE QUAL (21 = 1)(ELSE = 0) INTO QualSPplus. /* 0 SALES - 0 POP.
* RECODE QUAL (22 = 1)(ELSE = 0) INTO QualZMinus. /* 0 SALES - 0 POP.
* RECODE QUAL (23 = 1)(ELSE = 0) INTO QualZ. /* 0 SALES - 0 POP.
* RECODE QUAL (24 = 1)(ELSE = 0) INTO QualZPlus. /* 0 SALES - 0 POP.

DO IF (TGROUP EQ 5).
RECODE QUAL (10 = .95)(11 = 1)(12 = 1)(13 = 1)(14 = 1)(15 = 1.30)(16 = 1.40)
(17 = 1.50)(18 = 2.00)(19 = 2.25)(20 = 2.50)(21 = 2.75)(22 = 3.00)(23 = 3.25)
(24 = 3.5)(ELSE = 0) INTO G5_QualBMinusQualZPlus.
COMPUTE QualBMinus = 0.
COMPUTE QualBQualZPlus = 0.
END IF.
RECODE G5_QualBMinusQualZPlus (SYSMIS = 0).

*****.
*CDU.

* RECODE CDU (1 = 1)(ELSE=0) INTO CDU_Unsound. /* 0 SALES - 0 POP.
* RECODE CDU (2 = 1)(ELSE=0) INTO CDU_VeryPoor. /* 0 SALES - 1 POP.
* RECODE CDU (3 = 1)(ELSE=0) INTO CDU_Poor. /* 6 SALES - 38 POP.

```

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```

RECODE CDU (1 = 2.6)(2 = 2)(3 = 1.50)(4 = 1)(ELSE=0) INTO
CDU_UnsoundVeryPoorPoorFair. /* 384 SALES - 2562 POP.
* RECODE CDU (5 = 1)(ELSE=0) INTO CDU_Average. /* 3309 SALES - 21914 POP.
RECODE CDU (6 = 1)(7 = 1.25)(8 = 1.50)(ELSE=0) INTO CDU_GoodVeryGoodExcellent. /* 
113 SALES - 578 POP.
* RECODE CDU (7 = 1)(ELSE=0) INTO CDU_VeryGood. /* 0 SALES - 1 POP.
* RECODE CDU (8 = 1)(ELSE=0) INTO CDU_Excellent. /* 0 SALES - 0 POP.

*****.
*EXTWALL.

RECODE EXTWALL (1 = 1)(ELSE=0) INTO EXT_Frame. /* 553 SALES - 3449 POP.
RECODE EXTWALL (2, 9 = 1)(7 = 1.25)(10 = 1.35)(ELSE=0) INTO EXT_Brick. /* 226 SALES
- 1197 POP.
RECODE EXTWALL (3 = 1)(ELSE=0) INTO EXT_MasFrame. /* 658 SALES - 4312 POP.
RECODE EXTWALL (4 = 1)(ELSE=0) INTO EXT_ConcBlock. /* 4 SALES - 14 POP.
RECODE EXTWALL (5 = 1)(ELSE=0) INTO EXT_Stucco. /* 162 SALES - 1013 POP.
* RECODE EXTWALL (6 = 1)(ELSE=0) INTO EXT_Alumvinyl. /* 1797 SALES - 12689 POP.
* RECODE EXTWALL (7 = 1)(ELSE=0) INTO EXT_Stone. /* 3 SALES - 12 POP.
RECODE EXTWALL (8 = 1)(ELSE=0) INTO EXT_Composition. /* 391 SALES - 2279 POP.
* RECODE EXTWALL (9 = 1)(ELSE=0) INTO EXT_Masonry. /* 17 SALES - 120 POP.
* RECODE EXTWALL (10 = 1)(ELSE=0) INTO EXT_Log. /* 1 SALES - 2 POP.
RECODE EXTWALL (11 = 1)(ELSE=0) INTO EXT_CementFiber. /* 0 SALES - 7 POP.

*****.
*BSMT.

RECODE BSMT (0 = 1)(ELSE=0) INTO BSMT_None. /* 66 SALES - 446 POP.
RECODE BSMT (1 = 1)(ELSE=0) INTO BSMT_14orSlab. /* 10 SALES - 108 POP.
RECODE BSMT (2 = 1)(ELSE=0) INTO BSMT12orCrawl. /* 69 SALES - 407 POP.
RECODE BSMT (3 = 1)(ELSE=0) INTO BSMT34. /* 183 SALES - 1043 POP.
* RECODE BSMT (4 = 1)(ELSE=0) INTO BSMT_Full. /* 3484 SALES - 23090 POP.

*****.
*HEAT.
*weak variable.

RECODE HEAT (0, 1 = 1)(ELSE=0) INTO HEAT_None. /* 0 SALES - 20 POP.
RECODE HEAT (2 = 1)(ELSE=0) INTO HEAT_NonCntrl. /* 3 SALES - 29 POP.
RECODE HEAT (3 = 1)(ELSE=0) INTO HEAT_CntrlHt. /* 3537 SALES - 23318 POP.
* RECODE HEAT (4 = 1)(ELSE=0) INTO HEAT_CntrlHtAc. /* 272 SALES - 1727 POP.

*****.
*FUEL.
*weak variable.

* RECODE FUEL (1 = 1)(ELSE=0) INTO Oil. /* 2808 SALES - 18578 POP.
* RECODE FUEL (2 = 1)(ELSE=0) INTO CoalStoker. /* 9 SALES - 45 POP.
RECODE FUEL (3 = 1)(ELSE=0) INTO Gas. /* 601 SALES - 4234 POP.
* RECODE FUEL (4 = 1)(2 = 1.5)(ELSE=0) INTO Coal. /* 1 SALES - 34 POP.
* RECODE FUEL (5 = 1)(ELSE=0) INTO Solar. /* 0 SALES - 4 POP.
RECODE FUEL (5, 6, 8 = 1)(ELSE=0) INTO SolarElectricGeothermal. /* 4 SALES - 16 POP.

RECODE FUEL (7 = 1)(ELSE=0) INTO FUELOther. /* 389 SALES - 2183 POP.
* RECODE FUEL (8 = 1)(ELSE=0) INTO Geothermal. /* 0 SALES - 0 POP.

*****.
*HEATSYS.

* Will use Heat System Rather Than variable Heat.

RECODE HEATSYS (1 = 1)(ELSE=0) INTO HtSysSteamVapor. /* 1578 SALES - 9465 POP.
* RECODE HEATSYS (2 = 1)(ELSE=0) INTO HtSysHotwater. /* 1575 SALES - 11378 POP.

```

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```

* RECODE HEATSYS (3 = 1)(ELSE=0) INTO HtSysElectricSolar. /* 6 SALES - 22 POP.
RECODE HEATSYS (4 = 1)(ELSE=0) INTO HtSysForcedHotAir. /* 256 SALES - 1701 POP.
RECODE HEATSYS (5 = 1)(ELSE=0) INTO HtSysCentralWithAC. /* 270 SALES - 1692 POP.
* RECODE HEATSYS (6 = 1)(ELSE=0) INTO HtSysUnused. /* 0 SALES - 0 POP.
RECODE HEATSYS (7 = 1)(ELSE=0) INTO HtSysHotAir. /* 48 SALES - 298 POP.
RECODE HEATSYS (8 = 1)(ELSE=0) INTO HtSysPipeless. /* 70 SALES - 478 POP.
RECODE HEATSYS (9, 0 = 1)(ELSE=0) INTO HtSysNoHeat. /* 9 SALES - 60 POP.

DO IF (HEAT EQ 3 AND ANY(HEATSYS, 9, 0)).
COMPUTE HTSYSNOHEAT = 0.
COMPUTE HTSYSFORCEDHOTAIR = 1. /*CENTRAL HEAT WOULD BE FORCED HOT AIR AT THE VERY
LEAST.
END IF.

*****.
*ATTIC.
* WILL USE SQFT INSTEAD.

*****.
*ROOFCOVER ROOFTYPE HVACTYPE - WILL TEST IN RATIO STUDY.

COMPUTE FireplaceX = WBFP_O + WBFP_S + WBFP_PF.
DO IF(FireplaceX GT 0).
COMPUTE LNFireplaceX = LN(FireplaceX).
END IF.
RECODE LNFireplaceX (SYSMIS = 0).

*****.
*BATHS.

DO IF(FIXTOT GT 0).
COMPUTE LNFIXTOT = LN(FIXTOT).
END IF.
RECODE LNFIXTOT (SYSMIS = 0).

*****.
*LOCATION AND SITE QUALITATIVE VARIABLES.

*****.
*NBHD.

* means sppsf by nbhd /cells min max mean median stddev count.

RECODE NBHD (50 = 1)(ELSE = 0) INTO NBHD50. /*253 SALES - 1635 POP.
RECODE NBHD (51 = 1)(ELSE = 0) INTO NBHD51. /*167 SALES - 1105 POP.
RECODE NBHD (63 = 1)(ELSE = 0) INTO NBHD63. /*366 SALES - 2373 POP.
RECODE NBHD (64 = 1)(ELSE = 0) INTO NBHD64. /*227 SALES - 1705 POP.
RECODE NBHD (74 = 1)(ELSE = 0) INTO NBHD74. /*385 SALES - 3035 POP.
RECODE NBHD (75 = 1)(ELSE = 0) INTO NBHD75. /*236 SALES - 2098 POP.
RECODE NBHD (76 = 1)(ELSE = 0) INTO NBHD76. /*58 SALES - 420 POP.
* RECODE NBHD (77 = 1)(ELSE = 0) INTO NBHD77. /*402 SALES - 2562 POP.
RECODE NBHD (117 = 1)(ELSE = 0) INTO NBHD117. /*659 SALES - 3559 POP.
RECODE NBHD (118 = 1)(ELSE = 0) INTO NBHD118. /*91 SALES - 612 POP.
RECODE NBHD (119 = 1)(ELSE = 0) INTO NBHD119. /*167 SALES - 908 POP.
RECODE NBHD (141 = 1)(ELSE = 0) INTO NBHD141. /*126 SALES - 670 POP.
RECODE NBHD (142 = 1)(ELSE = 0) INTO NBHD142. /*230 SALES - 1712 POP.
RECODE NBHD (143 = 1)(ELSE = 0) INTO NBHD143. /*193 SALES - 1267 POP.
RECODE NBHD (144 = 1)(ELSE = 0) INTO NBHD144. /*252 SALES - 1433 POP.

COMPUTE NBHD_CHECK = SUM(NBHD50 TO NBHD144).
* FREQUENCIES NBHD_CHECK.

```

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```
* TEMPORARY.  
* SELECT IF(NBHD_CHECK EQ 0).  
* FREQUENCIES NBHD.  
  
IF (ANY(SECBLOCK, "34 E"))BLK_34_E = 1.  
IF (ANY(SECBLOCK, "34 206"))BLK_34_206 = 1.  
IF (ANY(SECBLOCK, "34 250"))BLK_34_250 = 1.  
IF (ANY(SECBLOCK, "34 276"))BLK_34_276 = 1.  
IF (ANY(SECBLOCK, "34 277"))BLK_34_277 = 1.  
IF (ANY(SECBLOCK, "34 307"))BLK_34_307 = 1.  
IF (ANY(SECBLOCK, "34 319"))BLK_34_319 = 1.  
IF (ANY(SECBLOCK, "34 321"))BLK_34_321 = 1.  
IF (ANY(SECBLOCK, "34 360"))BLK_34_360 = 1.  
IF (ANY(SECBLOCK, "34 367"))BLK_34_367 = 1.  
IF (ANY(SECBLOCK, "34 380"))BLK_34_380 = 1.  
IF (ANY(SECBLOCK, "34 391"))BLK_34_391 = 1.  
IF (ANY(SECBLOCK, "34 408"))BLK_34_408 = 1.  
IF (ANY(SECBLOCK, "34 410"))BLK_34_410 = 1.  
IF (ANY(SECBLOCK, "34 461"))BLK_34_461 = 1.  
IF (ANY(SECBLOCK, "35 442"))BLK_35_442 = 1.  
IF (ANY(SECBLOCK, "36 025"))BLK_36_025 = 1.  
IF (ANY(SECBLOCK, "36 026"))BLK_36_026 = 1.  
IF (ANY(SECBLOCK, "36 055"))BLK_36_055 = 1.  
IF (ANY(SECBLOCK, "36 060"))BLK_36_060 = 1.  
IF (ANY(SECBLOCK, "36 065"))BLK_36_065 = 1.  
IF (ANY(SECBLOCK, "36 134"))BLK_36_134 = 1.  
IF (ANY(SECBLOCK, "36 166"))BLK_36_166 = 1.  
IF (ANY(SECBLOCK, "36 180"))BLK_36_180 = 1.  
IF (ANY(SECBLOCK, "36 202"))BLK_36_202 = 1.  
IF (ANY(SECBLOCK, "36 235"))BLK_36_235 = 1.  
IF (ANY(SECBLOCK, "36 263"))BLK_36_263 = 1.  
IF (ANY(SECBLOCK, "36 28702"))BLK_36_28702 = 1.  
IF (ANY(SECBLOCK, "36 380"))BLK_36_380 = 1.  
IF (ANY(SECBLOCK, "36 382"))BLK_36_382 = 1.  
IF (ANY(SECBLOCK, "36 385"))BLK_36_385 = 1.  
IF (ANY(SECBLOCK, "36 417"))BLK_36_417 = 1.  
IF (ANY(SECBLOCK, "36 530"))BLK_36_530 = 1.  
IF (ANY(SECBLOCK, "44 038"))BLK_44_038 = 1.  
IF (ANY(SECBLOCK, "44 039"))BLK_44_039 = 1.  
IF (ANY(SECBLOCK, "44 065"))BLK_44_065 = 1.  
IF (ANY(SECBLOCK, "44 079"))BLK_44_079 = 1.  
IF (ANY(SECBLOCK, "50 007"))BLK_50_007 = 1.  
IF (ANY(SECBLOCK, "50 011"))BLK_50_011 = 1.  
IF (ANY(SECBLOCK, "50 338"))BLK_50_338 = 1.  
IF (ANY(SECBLOCK, "50 386"))BLK_50_386 = 1.  
IF (ANY(SECBLOCK, "54 003"))BLK_54_003 = 1.  
IF (ANY(SECBLOCK, "54 045"))BLK_54_045 = 1.  
IF (ANY(SECBLOCK, "54 063"))BLK_54_063 = 1.  
IF (ANY(SECBLOCK, "54 069"))BLK_54_069 = 1.  
IF (ANY(SECBLOCK, "54 463"))BLK_54_463 = 1.  
IF (ANY(SECBLOCK, "54 D"))BLK_54_D = 1.  
IF (ANY(SECBLOCK, "55 L"))BLK_55_L = 1.  
IF (ANY(SECBLOCK, "55 M"))BLK_55_M = 1.  
IF (ANY(SECBLOCK, "55 246"))BLK_55_246 = 1.  
IF (ANY(SECBLOCK, "55 298"))BLK_55_298 = 1.  
IF (ANY(SECBLOCK, "55 364"))BLK_55_364 = 1.  
IF (ANY(SECBLOCK, "55 373"))BLK_55_373 = 1.  
IF (ANY(SECBLOCK, "55 440"))BLK_55_440 = 1.  
IF (ANY(SECBLOCK, "55 483"))BLK_55_483 = 1.  
IF (ANY(SECBLOCK, "55 498"))BLK_55_498 = 1.  
IF (ANY(SECBLOCK, "55 548"))BLK_55_548 = 1.
```

RECODE BLK\_34\_E TO BLK\_55\_548 (SYSMIS = 0).

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```
* TEMPORARY.  
* SELECT IF(PARCEL_TYPE EQ 'S' AND SUM(BLK_34_E TO BLK_55_548) GT 0).  
* FREQUENCIES SECBLOCK.  
*****  
*****  
* SUBDIVISION ADJUSTMENTS - AS NEEDED.  
  
RECODE VILLAGECODE ('RVC' = 1)(ELSE = 0) INTO VillageRVC.  
  
* RECODE VillageCode ('FPS' = 1)(ELSE = 0) INTO VillageCodeFPS.  
COMPUTE SchoolDist_ROC = 0.  
IF(SchoolDistName EQ 'ROC')SchoolDist_ROC = 1.  
COMPUTE SchoolDist_WHE = 0.  
IF(SchoolDistName EQ 'WHE')SchoolDist_WHE = 1.  
COMPUTE VillageRVC = 0.  
IF(VillageNAMES EQ 'RVC')VillageRVC = 1.  
*****  
*WaterAttribute.  
  
* None .  
*****  
*Location.  
* None is base.  
  
* LOC_MajorHighway LOC_SecondaryStreet LOC_LongIslandRailRoad  
LOC_CommercialOrIndustrial  
LOC_ApartmentBuilding LOC_ContaminatedSite LOC_GolfCourse  
LOC_ReligiousInstitution LOC_School  
LOC_Park LOC_Cemetery LOC_AbuttsFireStation LOC_SplitSchoolDistrict LOC_Noise.  
  
*A few disparities between CommercialOrIndustrial and COMMERCIAL_INFLUENCE.  
COMPUTE LOC_CommercialOrIndustrialX = LOC_CommercialOrIndustrial.  
IF( COMMERCIAL_INFLUENCE EQ 1)LOC_CommercialOrIndustrialX = 1.  
  
COMPUTE LOC_ApartmentBuildingX = LOC_ApartmentBuilding.  
IF(LOC_CommercialOrIndustrialX EQ 1)LOC_ApartmentBuildingX = 0.  
  
COMPUTE LOC_ApartmentCommercialOrIndustrial = MAX(LOC_CommercialOrIndustrialX,  
LOC_ApartmentBuilding).  
  
*A few disparities between SecondaryStreet and SECONDARY_STREET - ALSO SUPER  
CORRELATED TO TRAFFIC - WILL NOT USE.  
COMPUTE LOC_SecondaryStreetX = LOC_SecondaryStreet.  
IF( SECONDARY_STREET EQ 1 AND LOC_MajorHighway NE 1)LOC_SecondaryStreetX = 1.  
  
*A few disparities between MajorHighway and MAJOR_HIGHWAY.  
COMPUTE LOC_MajorHighwayX = LOC_MajorHighway.  
IF(MAJOR_HIGHWAY EQ 1)LOC_MajorHighwayX = 1.  
  
COMPUTE LOC_SplitSchoolDistrictX = LOC_SplitSchoolDistrict.  
IF(SPLIT SCHOOL_VILLAGE EQ 1)LOC_SplitSchoolDistrictX = 1.  
*****  
* Fronting.  
* none and residential street and lane are base FR_ResidentialStreet  
FR_ResidentialLane .  
* FR_MajorStrip FR_SecondaryArtery FR_SecondaryStreet FR_Culdesac FR_DeadEnd  
FR_FrontageRoad FR_PrivateRoad  
  
COMPUTE FR_MarjorStripSecondaryArtery = FR_SecondaryArtery.
```

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IF(FR\_MajorStrip EQ 1)FR\_MarjorStripSecondaryArtery = 1.25.

\*\*\*\*\*

\*Traffic.

\*None and Light are base.

\* TrafficLight TrafficMedium TrafficHeavy.

COMPUTE TrafficMediumHeavy = TrafficMedium.

IF(TrafficHeavy EQ 1)TrafficMediumHeavy = 1.1.

\*\*\*\*\*

\*TOPO.

\*None.

\*\*\*\*\*

\*COST CONSTRAINTS.

COMPUTE ExtraImpsCost = SUM(RCNVAL2, RCNVAL3).

IF(ExtraImpsCost GT 0)LN\_ExtraImpsCost = LN(ExtraImpsCost).

RECODE LN\_ExtraImpsCost (SYSMIS = 0).

COMPUTE Cabin\_OfficeStudioCost = SUM(Cabin\_ADJRCNLD, OfficeStudio\_ADJRCNLD).

COMPUTE UtilityCost = SUM(UtilityBldgRCNLD, UtIshed\_ADJRCNLD).

COMPUTE AGCost = SUM(AGBldgs\_ADJRCNLD, Barn\_ADJRCNLD).

COMPUTE GreenhouseCost = SUM(GreenhouseRCNLD, Greenhouse\_ADJRCNLD).

COMPUTE PoolCost = SUM(PoolVinylRCNLD, PoolConcRCNLD, PoolFbgl\_ADJRCNLD, PoolGuni\_ADJRCNLD, PoolVinyl\_ADJRCNLD, SpaJacuzzi\_ADJRCNLD).

COMPUTE EnclPoolCost = SUM(EnclPoolLowRCNLD, EnclPoolHighRCNLD, PoolEnclosure\_ADJRCNLD, BathHouse\_ADJRCNLD).

COMPUTE WallCost = SUM(Fence\_ADJRCNLD, Masonrywall\_ADJRCNLD, Paving\_ADJRCNLD).

COMPUTE MiscImpCost = SUM(ElevatorRCNLD, TennisCourt\_ADJRCNLD, Cellar\_ADJRCNLD, MiscAddnRCNLD).

COMPUTE MiscWaterImpCost = SUM(BoatDock\_ADJRCNLD, BoatHouseEnclosed\_ADJRCNLD, BoatHouseOpen\_ADJRCNLD, BoatSlip\_ADJRCNLD, Bulkhead\_ADJRCNLD, Seawall\_ADJRCNLD).

COMPUTE MiscCoverCost = SUM(Canopy\_ADJRCNLD, Gazebo\_ADJRCNLD, Terrace\_ADJRCNLD).

COMPUTE COST\_RCNLDX\_P = SUM(Cabin\_OfficeStudioCost\_P, AGCost\_P, EnclPoolCost\_P, WallCost\_P, MiscImpCost\_P, MiscWaterImpCost\_P, MiscCoverCost\_P).

COMPUTE COST\_RCNLDx = SUM(Cabin\_OfficeStudioCost, AGCost, GreenhouseCost, EnclPoolCost, WallCost, MiscImpCost, MiscWaterImpCost, MiscCoverCost).

RECODE COST\_RCNLDx (SYSMIS = 0).

FORMATS ExtraImpsCost Cabin\_OfficeStudioCost UtilityCost AGCost GreenhouseCost PoolCost

EnclPoolCost WallCost MiscImpCost MiscWaterImpCost MiscCoverCost COST\_RCNLDx COST\_RCNLDx\_P (COMMAD0.0).

TEMPORARY.

SELECT IF(COST\_RCNLDx GT 0).

DESCRIPTIVES COST\_RCNLDx COST\_RCNLDx\_P.

\*\*\*\*\*

\*REGRESSION RUN.

DO IF( PARCEL\_TYPE EQ 'S').

\* COMPUTE ADJPRICE = SOLDPRICE.

COMPUTE ADJPRICE = TASP.

END IF.

\*\*\*\*\*

\* LAND VALUE.

COMPUTE PCT\_GOOD\_ADJ = EXP( + .155072184610991 \* LN\_PCT\_GOOD ).  
COMPUTE LOC\_ADJ = EXP( + -.043954290625610 \* LOC\_ApartmentCommercialOrIndustrial ).

```

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COMPUTE FRONTING_ADJ = EXP(      +          -.038859784605933 * FR_MajorStrip
).
COMPUTE TRAFFIC_ADJ = EXP(      +          -.05 * TrafficMediumHeavy).

COMPUTE SITEADJ = LOC_ADJ * FRONTING_ADJ * TRAFFIC_ADJ .
COMPUTE SUM_Acres = SUMLAND / 43560.0.

* COMPUTE TEMP1 = ESP_ECON * .35.

* AGGREGATE
/OUTFILE = * MODEL=ADDVARIABLES
/BREAK = NBHD
/BaseValue = MEDIAN(TEMP1)
/LandSqftMedian = median(SUMLAND).

COMPUTE BaseValue = 120000.
IF(NBHD EQ 50)BaseValue = 128065.97289244257.
IF(NBHD EQ 51)BaseValue = 151825.68248297556.
IF(NBHD EQ 63)BaseValue = 115898.89555943127.
IF(NBHD EQ 64)BaseValue = 119932.00389525149.
IF(NBHD EQ 74)BaseValue = 139366.93465321395.
IF(NBHD EQ 75)BaseValue = 139234.06503590200.
IF(NBHD EQ 76)BaseValue = 141814.22406855000.
IF(NBHD EQ 77)BaseValue = 129853.66084404926.
IF(NBHD EQ 117)BaseValue = 157750.97748806427.
IF(NBHD EQ 118)BaseValue = 169312.72399330820.
IF(NBHD EQ 119)BaseValue = 155393.63802074178.
IF(NBHD EQ 141)BaseValue = 181645.99052379820.
IF(NBHD EQ 142)BaseValue = 108734.08503005143.
IF(NBHD EQ 143)BaseValue = 118262.20615533378.
IF(NBHD EQ 144)BaseValue = 113564.25062842741.

IF(NBHD EQ 50)LandSqftMedian = 6000.0.
IF(NBHD EQ 51)LandSqftMedian = 7500.0.
IF(NBHD EQ 63)LandSqftMedian = 6138.0.
IF(NBHD EQ 64)LandSqftMedian = 6358.0.
IF(NBHD EQ 74)LandSqftMedian = 6000.0.
IF(NBHD EQ 75)LandSqftMedian = 6000.0.
IF(NBHD EQ 76)LandSqftMedian = 7310.5.
IF(NBHD EQ 77)LandSqftMedian = 5100.0.
IF(NBHD EQ 117)LandSqftMedian = 6000.0.
IF(NBHD EQ 118)LandSqftMedian = 8700.0.
IF(NBHD EQ 119)LandSqftMedian = 6250.0.
IF(NBHD EQ 141)LandSqftMedian = 7300.0.
IF(NBHD EQ 142)LandSqftMedian = 5000.0.
IF(NBHD EQ 143)LandSqftMedian = 5500.0.
IF(NBHD EQ 144)LandSqftMedian = 5100.0.

FORMATS BaseValue LandSqftMedian (comma10).
COMPUTE Base50Rate = BaseValue / LandSqftMedian**.50.

COMPUTE IssueWgt = 1.
IF(LandIssueSF_Sum GT 0)IssueWgt = (LandIssuePCTx * LandIssueSF) /
(LandIssuePCT_ECONx * LandIssueSF_Sum).
DESCRIPTIVES IssueWgt.

IF(LandIssueSF_Sum LT 1000 AND LandIssuePCT_ECONx GT .10)LandIssuePCT_ECONx = .10.
COMPUTE LandIssueValue_ECON = 0.
IF(LandIssueSF_Sum GT 0)LandIssueValue_ECON = (LandIssueSF_Sum**.50 * Base50Rate) *
LandIssuePCT_ECONx.
EXECUTE.

COMPUTE LandIssueValue = TRUNC((LandIssueValue_ECON * IssueWgt) / 100) * 100.

```

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FORMATS LandIssueValue LandIssueValue\_ECON (COMMA10.0).

EXECUTE.

```

IF(SUMLANDX GT 0)Allocated50LandValue_ECON = TRUNC(SUMLANDX**.50 * Base50Rate *
SITEADJ).
IF(SUMLANDX GT 0 AND Discount EQ 1)Allocated50LandValue_ECON = TRUNC(SUMLANDX**.50 *
(Base50Rate * .20) * SITEADJ).
RECODE Allocated50LandValue_ECON (SYSMIS = 0).
FORMATS Allocated50LandValue_ECON (COMMA10.0).
EXECUTE.

DO IF(SUMLANDX GT 0).
  COMPUTE PCT_LAND = RND(LANDSQFTX / SUMLANDX * 100) / 100.
END IF.
IF(PARCEL_TYPE EQ 'S')PCT_LAND = 1.
IF(SUMLANDX EQ 0)PCT_LAND = 1.
IF(LANDSQFTX NE SUMLANDX AND PCT_LAND LT .005 AND LANDSQFTX GT 100)PCT_LAND = .005.
FORMATS PCT_LAND (F5.3).

  COMPUTE TMPLAND = (Allocated50LandValue_ECON * PCT_LAND).
  IF(TMPLAND GE 100000)ESP_LAND = TRUNC(TMPLAND / 1000) * 1000.
  IF(TMPLAND LT 100000)ESP_LAND = TRUNC(TMPLAND / 100) * 100.
  * IF(ESP_LAND LT 1000)ESP_LAND = 1000.

  COMPUTE TOTAL_LAND_ECON = Allocated50LandValue_ECON + LandIssueValue_ECON.

  COMPUTE LAND_TOTAL = ESP_LAND + LandIssueValue.
  IF(LAND_TOTAL LT 500)LAND_TOTAL = 500.
  FORMATS ESP_LAND LandIssueValue LAND_TOTAL TOTAL_LAND_ECON (COMMA10.0).

  DESCRIPTIVES TMPLAND ESP_LAND LandIssueValue LAND_TOTAL TOTAL_LAND_ECON.

*****.
* PREDICTION .

* BLK_54_D was constrained after the model - 9 sales indicate a need for an 10
percent downward adjustment.
*      +          .287008370165077   * BLK_34_276 - By Russ.
*      +          .195510126435849   * BLK_44_038 - By Russ.
*      +          .294551027006672   * BLK_44_079 - By Russ.

DO IF(SFLA_ECON GT 0).
  COMPUTE ESP_ECON = EXP(12.781997118103620
    +          .271076320989076   * LN_SQFTXRATIO1
    +          .233993342050024   * LN_SQFTXRATIO2
    +          .086235751525730   * LN_UNFBSMTX_RATIO
    +          .249519740737106   * LN_FINBSMTX_RATIO
    +          .063820898999053   * LN_RECBSMTX_RATIO
    +          .155072184610991   * LN_PCT_GOOD
    +          .064071562995354   * LN_LANDSIZERATIO1
    +          .052428616487104   * LN_LANDSIZERATIO2
    +          .065220244381705   * LNFIXTOT
    +          .063767741079099   * LN_LINGARAGEALL_RATIO
    +          .019956950933522   * LN_LINPORCH_RATIO
    +          .013597806691379   * LN_WoodDeckX_RATIO
    +          .059902297192087   * LN_PoolX_RATIO
    +          -.051802191658753  * ST_Ranch
    +          .054280175478027   * GRP3_Ranch
    +          .058250959644152   * GRP4_Ranch
    +          .078928900774840   * GRP5_Ranch
    +          .073617167153015   * ST_ModifiedRanch
    +          .037514225629586   * GRP4_Cape
    +          .024843474770303   * ST_Colonial

```

```

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+.060211706297518 * GRP3_Colonial
+.024557137047039 * ST_Bungalowcottage
+.090676931823708 * ST_Splanch
+.028710790941038 * TwoFamily
+.317788363782755 * MultiRes
+.014049804681002 * ConvertedResidenceX
+.038316734423324 * QualEMinusQualDPlus
+.011684156396638 * QualCMinus
+.027186469379325 * QualCPlus
+.063863600495563 * QualBMinus
+.177197283182629 * QualBQualZPlus
+.072077939213236 * G5_QualBMinusQualZPlus
+.073624636397054 * QualRes2D_OR_LESS
+.043954290625610 * LOC_ApartmentCommercialOrIndustrial
+.038859784605933 * FR_MajorStrip
+.059230568833195 * NBHD51
+.108479187481593 * NBHD63
+.084861690076089 * NBHD64
+.083030294386234 * NBHD74
+.089010795099066 * NBHD75
+.078248596826683 * NBHD76
+.173153751211406 * NBHD117
+.117066646979118 * NBHD118
+.154566434480773 * NBHD119
+.084198864600731 * NBHD141
+.188110050656508 * NBHD142
+.120888236674857 * NBHD143
+.126894026977023 * NBHD144
+.286802747129852 * VillageRVC
+.217976204954334 * SchoolDist_ROC
+.126443638672519 * BLK_34_206
+.158682883131052 * BLK_34_250
+.227117032324163 * BLK_34_276
+.227117032324163 * BLK_34_277
+.239797674655910 * BLK_34_307
+.318796077660267 * BLK_34_319
+.164169841384088 * BLK_34_321
+.067243525280856 * BLK_34_367
+.101904272555070 * BLK_34_380
+.156088233991152 * BLK_35_442
+.040621321733712 * BLK_36_235
+.074928879868297 * BLK_36_417
+.149380697279466 * BLK_44_038
+.149380697279466 * BLK_44_039
+.167171434138521 * BLK_44_065
+.27 * BLK_44_079
+.064729276303978 * BLK_54_069
+.081596626380354 * BLK_55__L
+.105360515657826 * BLK_54_D
-.05 * TrafficMediumHeavy
.00117 * LnSFLA2)
1 * COST_RCNLDX.

END IF.
```

FORMATS ESP\_ECON (COMMA10.0).

```

DO IF(PARCEL_TYPE EQ 'S').
  COMPUTE RATIO = ESP_ECON / ADJPRICE.
  COMPUTE RATIO2 = ESP_ECON / SOLDPRICE.
END IF.
```

```

INSERT FILE = !Predsintax + 'Prognose\Market 4 2021 Coefficients.sps'
SYNTAX = INTERACTIVE
```

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ERROR = STOP.

COMPUTE DIFF = ESP2 / ESP\_ECON.  
DESCRIPTIVES DIFF.

COMPUTE DIFF = ESP2 / ESP3.  
DESCRIPTIVES DIFF.

IF(PCTCOMPLETE GT 0)CompletePercent = PCTCOMPLETE / 100.  
RECODE CompletePercent (SYSMIS = 1).

DO IF(ESP\_ECON GT 0).  
COMPUTE Allocated50ImpValue\_ECON = TRUNC(ESP\_ECON - TOTAL\_LAND\_ECON).  
\* IF(Allocated50LandValue\_ECON EQ 0)Allocated50ImpValue\_ECON = TRUNC(ESP\_ECON -  
LandIssueValue\_ECON).  
END IF.  
RECODE Allocated50ImpValue\_ECON (SYSMIS = 0).

STRING CostValue (A3).  
COMPUTE CostValue = 'No'.  
IF(Allocated50ImpValue\_ECON LE 0)CostValue = 'Yes'.

COMPUTE IMP\_COST\_VALUE = TRUNC((RCNLD\_P + ExtraImpsCost\_P + COST\_RCNLDx\_P) / 1000)  
\* 1000.  
FORMATS IMP\_COST\_VALUE (COMMA10.0).

DO IF(SFLA\_ECON GT 0).  
COMPUTE PCT\_IMP = RND(SFLA / SFLA\_ECON \* 100) / 100.  
END IF.

COMPUTE ESP\_IMP = TRUNC(Allocated50ImpValue\_ECON \* PCT\_IMP \* CompletePercent / 1000)  
\* 1000.  
IF(Allocated50ImpValue\_ECON LE 0)ESP\_IMP = IMP\_COST\_VALUE \* CompletePercent.  
IF(SFLA\_ECON EQ 0)ESP\_IMP = IMP\_COST\_VALUE \* CompletePercent.  
COMPUTE ESP\_TOTAL = LAND\_TOTAL + ESP\_IMP.  
FORMATS LAND\_TOTAL ESP\_LAND ESP\_IMP ESP\_TOTAL (COMMA10.0).

\* COMPUTE UseCost = 0.  
\* COMPUTE LandOverride = 0.  
\* COMPUTE ImpOverride = 0.  
\* FORMATS LandOverride ImpOverride (COMMA10.0).

\* IF(UseCost EQ 1)CostValue = 'Yes'.  
\* IF(LandOverride GT 0)ESP\_LAND = TRUNC(LandOverride \* PCT\_LAND / 1000) \* 1000.  
\* IF(ImpOverride GT 0)ESP\_IMP = TRUNC(ImpOverride \* PCT\_IMP \* CompletePercent /  
1000) \* 1000.  
\* IF(UseCost EQ 1)ESP\_IMP = IMP\_COST\_VALUE \* CompletePercent.  
\* COMPUTE ESP\_TOTAL = ESP\_LAND + ESP\_IMP.  
\* FORMATS LAND\_TOTAL ESP\_LAND ESP\_IMP ESP\_TOTAL (COMMA10.0).

STRING QUAL\_Text (A2).  
RECODE QUAL (1 = 'E-')(2 = 'E')(3 = 'E+')(4 = 'D-')(5 = 'D')(6 = 'D+')(7 = 'C-')(8 =  
'C')(9 = 'C+')  
      (10 = 'B-')(11 = 'B')(12 = 'B+')(13 = 'A-')(14 = 'A')(15 = 'A+')(16 = 'X-')(17  
= 'X')(18 = 'X+')  
      (19 = 'S-')(20 = 'S')(21 = 'S+')(22 = 'Z-')(23 = 'Z')(24 = 'Z+') INTO  
QUAL\_Text.

STRING CDU\_Text (A10).  
RECODE CDU (1 = 'Unsound')(2 = 'Very Poor')(3 = 'Poor')(4 = 'Fair')(5 = 'Average')

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(6 = 'Good')(7 = 'very Good')(8 = 'Excellent') INTO CDU_Text.

STRING Style_Text (A25).
RECODE Style (1 = 'Ranch')(2 = 'Raised Ranch/Hi Ranch')(3 = 'Split Level')(4 =
'Modified Ranch')(5 = 'Cape')
      (6 = 'Colonial')(7 = 'Victorian')(8 = 'Contemporary')(9 = 'Old Style')(10 =
'Bungalow, Cottage')(11 = 'Duplex, Triplex')
      (12 = 'Mansion, Estate')(13 = 'Townhouse')(14 = 'Condo')(16 = 'Homeowner
Assoc')(17 = 'Other')(18 = 'Splanch')
      (19 = 'Carriage House')(20 = 'Tudor')(22 = '22') INTO Style_Text.

* codebook luc.
string LUC_Text (A20).
IF (ANY(LUC, "2100", "2101", "2102", "2150", "2500")) LUC_Text = 'One Family'.
IF (LUC EQ "2200") LUC_Text = 'Two Family'.
IF (LUC EQ "2300") LUC_Text = 'Three Family'.
IF (LUC EQ "2800") LUC_Text = 'Multi Residential'.
IF(LUC_NUM GE 3000 AND LUC_NUM LT 4000) LUC_Text = 'Vacant Land'.
IF (LUC EQ "4830") LUC_Text = 'Converted Residence'.
IF(LUC_NUM GE 6000) LUC_Text = 'Exempt'.
* alter type LUC_Text (amin).

* codebook extwall.
string EXTWALL_Text (A20).
IF (EXTWALL EQ 1) EXTWALL_Text = 'Frame'.
IF (EXTWALL EQ 2) EXTWALL_Text = 'Brick'.
IF (EXTWALL EQ 3) EXTWALL_Text = 'Mas/Frame'.
IF (EXTWALL EQ 4) EXTWALL_Text = 'Conc Blk'.
IF (EXTWALL EQ 5) EXTWALL_Text = 'Stucco'.
IF (EXTWALL EQ 6) EXTWALL_Text = 'Alum/Vinyl'.
IF (EXTWALL EQ 7) EXTWALL_Text = 'Stone'.
IF (EXTWALL EQ 8) EXTWALL_Text = 'Composition'.
IF (EXTWALL EQ 9) EXTWALL_Text = 'Masonry'.
IF (EXTWALL EQ 10) EXTWALL_Text = 'Log'.
IF (EXTWALL EQ 11) EXTWALL_Text = 'Cement Fiber'.
* alter type EXTWALL_Text (amin).

* codebook bsmt.
string Basement_Text (a20).
IF (BSMT EQ 0) Basement_Text = 'None'.
IF (BSMT EQ 1) Basement_Text = '1/4 Bsmt/Slab'.
IF (BSMT EQ 2) Basement_Text = '1/2 Bsmt/Crawl'.
IF (BSMT EQ 3) Basement_Text = '3/4 Bsmt'.
IF (BSMT EQ 4) Basement_Text = 'Full'.
* alter type Basement_Text (amin).

* codebook heat.
string Heat_Text (a10).
IF (HEAT EQ 0) Heat_Text = 'N/A';
IF (HEAT EQ 1) Heat_Text = 'None'.
IF (HEAT EQ 2) Heat_Text = 'Non-Cntrl'.
IF (HEAT EQ 3) Heat_Text = 'Cntrl Ht'.
IF (HEAT EQ 4) Heat_Text = 'Cntrl HtAC'.
* alter type Heat_Text (amin).

* codebook fuel.
string Fuel_Text (a15).
IF (FUEL EQ 0) Fuel_Text = 'N/A'.
IF (FUEL EQ 1) Fuel_Text = 'Oil'.
IF (FUEL EQ 2) Fuel_Text = 'Coal Stk'.
IF (FUEL EQ 3) Fuel_Text = 'Gas'.
IF (FUEL EQ 4) Fuel_Text = 'Coal Hnd'.
IF (FUEL EQ 5) Fuel_Text = 'Solar'.

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IF (FUEL EQ 6) Fuel_Text = 'Elec';
IF (FUEL EQ 7) Fuel_Text = 'Other';
IF (FUEL EQ 8) Fuel_Text = 'Geothermal'.
* alter type Fuel_Text (amin).

* codebook heatsys.
string Heatsys_Text (a15).
IF (HEATSYS EQ 0) Heatsys_Text = 'N/A'.
IF (HEATSYS EQ 1) Heatsys_Text = 'Steam/Vapor'.
IF (HEATSYS EQ 2) Heatsys_Text = 'Hot Wtr'.
IF (HEATSYS EQ 3) Heatsys_Text = 'Elec/Solar'.
IF (HEATSYS EQ 4) Heatsys_Text = 'Forced Air'.
IF (HEATSYS EQ 5) Heatsys_Text = 'Central AC'.
IF (HEATSYS EQ 6) Heatsys_Text = 'N/A'.
IF (HEATSYS EQ 7) Heatsys_Text = 'Hot Air'.
IF (HEATSYS EQ 8) Heatsys_Text = 'Pipeless'.
IF (HEATSYS EQ 9) Heatsys_Text = 'None'.
* alter type Heatsys_Text (amin).
* EXECUTE.

FORMATS AttBltGar DETGARx CARPORTx (COMMA10.0).

STRING Parking_Text (A100).
IF (AttBltGar GT 0)Parking_Text =
CONCAT('Att-',LTRIM(RTRIM(STRING(AttBltGar,F10))))..
IF (DETGARx GT 0)Parking_Text =
CONCAT(LTRIM(RTRIM(Parking_Text)), '/', 'Det-',LTRIM(RTRIM(STRING(DETGARx,F10))))..
IF (CARPORTx GT 0)Parking_Text =
CONCAT(LTRIM(RTRIM(Parking_Text)), '/', 'Cpt-',LTRIM(RTRIM(STRING(CARPORTx,F10))))..
IF (CHAR.SUBSTR(Parking_Text,1,1) EQ '/')Parking_Text = CHAR.SUBSTR(Parking_Text,2).
ALTER TYPE Parking_Text (AMIN).

STRING Porch_Text (A100).
IF (OpenPorchX GT 0)Porch_Text = CONCAT('Op-',LTRIM(RTRIM(STRING(OpenPorchX,F10))))..
IF (EnclPorchX GT 0)Porch_Text =
CONCAT(LTRIM(RTRIM(Porch_Text)), '/', 'Ep-',LTRIM(RTRIM(STRING(EnclPorchX,F10))))..
IF (CHAR.SUBSTR(Porch_Text,1,1) EQ '/')Porch_Text = CHAR.SUBSTR(Porch_Text,2).
ALTER TYPE Parking_Text (AMIN).

STRING TerracePatio_Text (A100).
IF (TerraceX GT 0)TerracePatio_Text =
CONCAT('Ter-',LTRIM(RTRIM(STRING(TerraceX,F10))))..
IF (PatioX GT 0)TerracePatio_Text =
CONCAT(LTRIM(RTRIM(TerracePatio_Text)), '/', 'Pto-',LTRIM(RTRIM(STRING(PatioX,F10))))..
IF (CHAR.SUBSTR(TerracePatio_Text,1,1) EQ '/')TerracePatio_Text =
CHAR.SUBSTR(TerracePatio_Text,2).
ALTER TYPE Parking_Text (AMIN).

STRING YRBLT_Text (A12).
COMPUTE YRBLT_Text =
CONCAT(STRING(YRBLT,F4.0), '-', LTRIM(STRING((PCT_GOOD_ADJ*100),F6.2)))..
EXECUTE.

STRING BATH_Text (A15).
COMPUTE BATH_Text =
CONCAT(LTRIM(RTRIM(STRING(FIXBATH,F4.0))), '-', LTRIM(RTRIM(STRING(FIXHALF,F4.0))), '-').
, LTRIM(RTRIM(STRING(FIXTOT,F4.0))))..
EXECUTE.

SAVE OUTFILE !ModelData4 + 'PREDICTION.SAV'.

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\* Encoding: UTF-8.

GET FILE= !ModelData5 + 'MARKET 5 RESIDENTIAL MASTER POPULATION WITH SALES FOR PROGNOSIS.sav'.  
DATASET NAME DataSet1.

\* STRING SECBLOCK (A6).  
\* COMPUTE SECBLOCK = CONCAT(LTRIM(CHAR.SUBSTR(PARID,1,2)), '-',  
LTRIM(CHAR.SUBSTR(PARID,3,3))).  
\* EXECUTE.

\* COMPUTE OUT2 = OUT.

\* INSERT FILE = !ModelSyntax5 + 'Market 5 Outliers.sps'  
SYNTAX = INTERACTIVE  
ERROR = STOP.

\* IF (OUT NE 0) VALIDITYCODE = 'Invalid'.

\* COMPUTE KEEP = 1.  
\* IF(ValidityCode EQ 'Invalid' AND PARCEL\_TYPE EQ 'S')KEEP = 0.  
\* CROSSTABS KEEP BY PARCEL\_TYPE.  
\* CROSSTABS KEEP BY OUT.

\* SELECT IF(KEEP EQ 1).  
\* EXECUTE.

DO IF(PARCEL\_TYPE EQ 'P' AND SFLA\_ECON GT 0).  
COMPUTE VPPSF = APRTOT / SFLA\_ECON.  
END IF.  
DO IF(PARCEL\_TYPE EQ 'S' AND SFLA\_ECON GT 0).  
COMPUTE SPPSF = SOLDPRICE / SFLA\_ECON.  
END IF.

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STRING NBHDGroup (A50).  
COMPUTE NBHDGroup = NBHD\_LAbel.  
DO IF(NBHD GT 0 AND CHAR.INDEX(NBHD\_LAbel,"-") GT 0).  
COMPUTE NBHDGroup = LTRIM(RTRIM(CHAR.SUBSTR(NBHD\_LAbel,1,(CHAR.INDEX(NBHD\_LAbel,"-") - 1)))).  
END IF.  
DO IF(CHAR.INDEX(NBHD\_LAbel,"(") GT 0 AND NBHD GT 0).  
COMPUTE NBHDGroup = LTRIM(RTRIM(CHAR.SUBSTR(NBHD\_LAbel,1,(CHAR.INDEX(NBHD\_LAbel,"(" - 1))))).  
END IF.  
\* FREQUENCIES NBHDGroup.

\*Run this this the first time and then comment it out and use the second one.

\* AUTORECODE VARIABLES=NHBDGroup  
/INTO NBHDGroupNum  
/SAVE TEMPLATE= !ModelSyntax5 + 'NBHD Desc Template.sat'  
/PRINT.

\* AUTORECODE VARIABLES=NHBDGroup  
/INTO NBHDGroupNum

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/APPPLY TEMPLATE= !ModelSyntax5 + 'NBHD Desc Template.sat'
/PRINT.

RECODE NBHDGroup ('East Rockaway' = 1)('Hewlett' = 2)('Island Park' = 3)('Lawrence'
= 4)('Long Beach' = 5)
                           ('Lynbrook' = 6)('Malverne' =
7)('Oceanside' = 8)('Valley Stream' = 9)('Woodmere' = 10) INTO NBHDGroupNum.

VALUE LABELS NBHDGroupNum
      1  'East Rockaway'
      2  'Hewlett'
      3  'Island Park'
      4  'Lawrence'
      5  'Long Beach'
      6  'Lynbrook'
      7  'Malverne'
      8  'Oceanside'
      9  'Valley Stream'
     10  'Woodmere'.

COMPUTE TGROUP = NBHDGroupNum.

DO IF(SYEAR GT 0).
  COMPUTE SDATE = DATE.MOYR(SMONTH,SYEAR).
END IF.
FORMATS SDATE (MOYR6).

*ENTER YOUR STARTING DATE, BASE VALUATION DATE - FORMAT IS MONTH THEN YEAR.
COMPUTE STARTDATE = DATE.MOYR(1,2011).
COMPUTE BASEDATE = DATE.MOYR(12, 2018).
COMPUTE TIMEPERIOD = DATEDIFF(BASEDATE,STARTDATE,"MONTHS") .
COMPUTE MONTHS = DATEDIFF(SDATE,STARTDATE,"MONTHS") .
COMPUTE MONTH = TIMEPERIOD - MONTHS.
EXECUTE .

COMPUTE SPLINEDATE1 = DATE.MOYR(12, 2018).
COMPUTE SPLINEDATE2 = DATE.MOYR(12, 2018).
COMPUTE SPLINEDATE3 = DATE.MOYR(12, 2018).
COMPUTE SPLINEDATE4 = DATE.MOYR(12, 2018).
COMPUTE SPLINEDATE5 = DATE.MOYR(12, 2018).
COMPUTE SPLINEDATE6 = DATE.MOYR(12, 2018).

IF (TGROUP EQ 1) SPLINEDATE1 = DATE.MOYR(10, 2014).
IF (TGROUP EQ 1) SPLINEDATE2 = DATE.MOYR(12, 2015).
IF (TGROUP EQ 1) SPLINEDATE3 = DATE.MOYR(9, 2016).
IF (TGROUP EQ 1) SPLINEDATE4 = DATE.MOYR(4, 2017).
IF (TGROUP EQ 1) SPLINEDATE5 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 2) SPLINEDATE1 = DATE.MOYR(8, 2013).
IF (TGROUP EQ 2) SPLINEDATE2 = DATE.MOYR(5, 2014).
IF (TGROUP EQ 2) SPLINEDATE3 = DATE.MOYR(6, 2015).
IF (TGROUP EQ 2) SPLINEDATE4 = DATE.MOYR(12, 2016).
IF (TGROUP EQ 2) SPLINEDATE5 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 3) SPLINEDATE1 = DATE.MOYR(12, 2013).
IF (TGROUP EQ 3) SPLINEDATE2 = DATE.MOYR(3, 2016).
IF (TGROUP EQ 3) SPLINEDATE3 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 4) SPLINEDATE1 = DATE.MOYR(11, 2013).
IF (TGROUP EQ 4) SPLINEDATE2 = DATE.MOYR(10, 2014).
IF (TGROUP EQ 4) SPLINEDATE3 = DATE.MOYR(9, 2015).

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IF (TGROUP EQ 4) SPLINEDATE4 = DATE.MOYR(7, 2016).
IF (TGROUP EQ 4) SPLINEDATE5 = DATE.MOYR(5, 2017).
IF (TGROUP EQ 4) SPLINEDATE6 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 5) SPLINEDATE1 = DATE.MOYR(8, 2014).
IF (TGROUP EQ 5) SPLINEDATE2 = DATE.MOYR(7, 2015).
IF (TGROUP EQ 5) SPLINEDATE3 = DATE.MOYR(3, 2017).
IF (TGROUP EQ 5) SPLINEDATE4 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 6) SPLINEDATE1 = DATE.MOYR(6, 2013).
IF (TGROUP EQ 6) SPLINEDATE2 = DATE.MOYR(6, 2014).
IF (TGROUP EQ 6) SPLINEDATE3 = DATE.MOYR(4, 2015).
IF (TGROUP EQ 6) SPLINEDATE4 = DATE.MOYR(11, 2016).
IF (TGROUP EQ 6) SPLINEDATE5 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 7) SPLINEDATE1 = DATE.MOYR(11, 2013).
IF (TGROUP EQ 7) SPLINEDATE2 = DATE.MOYR(6, 2015).
IF (TGROUP EQ 7) SPLINEDATE3 = DATE.MOYR(11, 2016).
IF (TGROUP EQ 7) SPLINEDATE4 = DATE.MOYR(6, 2017).
IF (TGROUP EQ 7) SPLINEDATE5 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 8) SPLINEDATE1 = DATE.MOYR(8, 2014).
IF (TGROUP EQ 8) SPLINEDATE2 = DATE.MOYR(9, 2015).
IF (TGROUP EQ 8) SPLINEDATE3 = DATE.MOYR(4, 2017).
IF (TGROUP EQ 8) SPLINEDATE4 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 9) SPLINEDATE1 = DATE.MOYR(7, 2014).
IF (TGROUP EQ 9) SPLINEDATE2 = DATE.MOYR(6, 2015).
IF (TGROUP EQ 9) SPLINEDATE3 = DATE.MOYR(10, 2016).
IF (TGROUP EQ 9) SPLINEDATE4 = DATE.MOYR(7, 2017).
IF (TGROUP EQ 9) SPLINEDATE5 = DATE.MOYR(7, 2018).

IF (TGROUP EQ 10) SPLINEDATE1 = DATE.MOYR(8, 2013).
IF (TGROUP EQ 10) SPLINEDATE2 = DATE.MOYR(9, 2014).
IF (TGROUP EQ 10) SPLINEDATE3 = DATE.MOYR(1, 2016).
IF (TGROUP EQ 10) SPLINEDATE4 = DATE.MOYR(6, 2017).
IF (TGROUP EQ 10) SPLINEDATE5 = DATE.MOYR(7, 2018).

```

FORMATS STARTDATE BASEDATE SPLINEDATE1 SPLINEDATE2 SPLINEDATE3 SPLINEDATE4  
 SPLINEDATE5 SPLINEDATE6 (DATE9).

```

COMPUTE SPLINE_DIFF1 = DATEDIFF(SPLINEDATE1,STARTDATE,"MONTHS") .
COMPUTE SPLINE_DIFF2 = DATEDIFF(SPLINEDATE2,STARTDATE,"MONTHS") .
COMPUTE SPLINE_DIFF3 = DATEDIFF(SPLINEDATE3,STARTDATE,"MONTHS") .
COMPUTE SPLINE_DIFF4 = DATEDIFF(SPLINEDATE4,STARTDATE,"MONTHS") .
COMPUTE SPLINE_DIFF5 = DATEDIFF(SPLINEDATE5,STARTDATE,"MONTHS") .
COMPUTE SPLINE_DIFF6 = DATEDIFF(SPLINEDATE6,STARTDATE,"MONTHS") .

COMPUTE MONTHS1 = MONTHS.
IF (MONTHS GT SPLINE_DIFF1)MONTHS1 = SPLINE_DIFF1.
COMPUTE MONTHS2 = MONTHS - SPLINE_DIFF1.
RECODE MONTHS2 (LO THRU 0 = 0).
IF(MONTHS GT SPLINE_DIFF2)MONTHS2 = SPLINE_DIFF2 - SPLINE_DIFF1.
COMPUTE MONTHS3 = MONTHS - SPLINE_DIFF2 .
RECODE MONTHS3 (LO THRU 0 = 0).
IF (MONTHS GT SPLINE_DIFF3) MONTHS3 = SPLINE_DIFF3 - SPLINE_DIFF2.
COMPUTE MONTHS4 = MONTHS - SPLINE_DIFF3.
RECODE MONTHS4 (LO THRU 0 = 0).
IF (MONTHS GT SPLINE_DIFF4) MONTHS4 = SPLINE_DIFF4 - SPLINE_DIFF3.
COMPUTE MONTHS5 = MONTHS - SPLINE_DIFF4.
RECODE MONTHS5 (LO THRU 0 = 0).
IF (MONTHS GT SPLINE_DIFF5) MONTHS5 = SPLINE_DIFF5 - SPLINE_DIFF4.
COMPUTE MONTHS6 = MONTHS - SPLINE_DIFF5.

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RECODE MONTHS6 (LO THRU 0 = 0).
IF (MONTHS GT SPLINE_DIFF6) MONTHS6 = SPLINE_DIFF6 - SPLINE_DIFF5.
COMPUTE MONTHS7 = MONTHS - SPLINE_DIFF6.
RECODE MONTHS7 (LO THRU 0 = 0).

* IF (TGROUP EQ 1) MONTHS1_1 = MONTHS1.
* IF (TGROUP EQ 1) MONTHS2_1 = MONTHS2.
* IF (TGROUP EQ 1) MONTHS3_1 = MONTHS3.
* IF (TGROUP EQ 1) MONTHS4_1 = MONTHS4.
* IF (TGROUP EQ 1) MONTHS5_1 = MONTHS5.

* IF (TGROUP EQ 2) MONTHS1_2 = MONTHS1.
* IF (TGROUP EQ 2) MONTHS2_2 = MONTHS2.
* IF (TGROUP EQ 2) MONTHS3_2 = MONTHS3.
* IF (TGROUP EQ 2) MONTHS4_2 = MONTHS4.
* IF (TGROUP EQ 2) MONTHS5_2 = MONTHS5.

* IF (TGROUP EQ 3) MONTHS1_3 = MONTHS1.
* IF (TGROUP EQ 3) MONTHS2_3 = MONTHS2.
* IF (TGROUP EQ 3) MONTHS3_3 = MONTHS3.

* IF (TGROUP EQ 4) MONTHS1_4 = MONTHS1.
* IF (TGROUP EQ 4) MONTHS2_4 = MONTHS2.
* IF (TGROUP EQ 4) MONTHS3_4 = MONTHS3.
* IF (TGROUP EQ 4) MONTHS4_4 = MONTHS4.
* IF (TGROUP EQ 4) MONTHS5_4 = MONTHS5.
* IF (TGROUP EQ 4) MONTHS6_4 = MONTHS6.

* IF (TGROUP EQ 5) MONTHS1_5 = MONTHS1.
* IF (TGROUP EQ 5) MONTHS2_5 = MONTHS2.
* IF (TGROUP EQ 5) MONTHS3_5 = MONTHS3.
* IF (TGROUP EQ 5) MONTHS4_5 = MONTHS4.

* IF (TGROUP EQ 6) MONTHS1_6 = MONTHS1.
* IF (TGROUP EQ 6) MONTHS2_6 = MONTHS2.
* IF (TGROUP EQ 6) MONTHS3_6 = MONTHS3.
* IF (TGROUP EQ 6) MONTHS4_6 = MONTHS4.
* IF (TGROUP EQ 6) MONTHS5_6 = MONTHS5.

* IF (TGROUP EQ 7) MONTHS1_7 = MONTHS1.
* IF (TGROUP EQ 7) MONTHS2_7 = MONTHS2.
* IF (TGROUP EQ 7) MONTHS3_7 = MONTHS3.
* IF (TGROUP EQ 7) MONTHS4_7 = MONTHS4.
* IF (TGROUP EQ 7) MONTHS5_7 = MONTHS5.

* IF (TGROUP EQ 8) MONTHS1_8 = MONTHS1.
* IF (TGROUP EQ 8) MONTHS2_8 = MONTHS2.
* IF (TGROUP EQ 8) MONTHS3_8 = MONTHS3.
* IF (TGROUP EQ 8) MONTHS4_8 = MONTHS4.

* IF (TGROUP EQ 9) MONTHS1_9 = MONTHS1.
* IF (TGROUP EQ 9) MONTHS2_9 = MONTHS2.
* IF (TGROUP EQ 9) MONTHS3_9 = MONTHS3.
* IF (TGROUP EQ 9) MONTHS4_9 = MONTHS4.
* IF (TGROUP EQ 9) MONTHS5_9 = MONTHS5.

* IF (TGROUP EQ 10) MONTHS1_10 = MONTHS1.
* IF (TGROUP EQ 10) MONTHS2_10 = MONTHS2.
* IF (TGROUP EQ 10) MONTHS3_10 = MONTHS3.
* IF (TGROUP EQ 10) MONTHS4_10 = MONTHS4.
* IF (TGROUP EQ 10) MONTHS5_10 = MONTHS5.

* RECODE MONTHS1_1 TO MONTHS5_10 (SYSMIS = 0).
```

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```
COMPUTE SPLINE = 1.  
IF(MONTHS2 GT 0)SPLINE = 2.  
IF(MONTHS3 GT 0)SPLINE = 3.  
IF(MONTHS4 GT 0)SPLINE = 4.  
IF(MONTHS5 GT 0)SPLINE = 5.  
IF(MONTHS6 GT 0)SPLINE = 6.  
IF(MONTHS7 GT 0)SPLINE = 7.  
FREQUENCIES SPLINE.  
  
COMPUTE MONTH1 = SPLINE_DIFF1 - MONTHS1.  
COMPUTE MONTH2 = (SPLINE_DIFF2 - SPLINE_DIFF1) - MONTHS2.  
COMPUTE MONTH3 = (SPLINE_DIFF3 - SPLINE_DIFF2) - MONTHS3.  
COMPUTE MONTH4 = (SPLINE_DIFF4 - SPLINE_DIFF3) - MONTHS4.  
COMPUTE MONTH5 = (SPLINE_DIFF5 - SPLINE_DIFF4) - MONTHS5.  
COMPUTE MONTH6 = (SPLINE_DIFF6 - SPLINE_DIFF5) - MONTHS6.  
COMPUTE MONTH7 = (TIMEPERIOD - SPLINE_DIFF6) - MONTHS7.  
  
COMPUTE RATE1 = 1.  
COMPUTE RATE2 = 1.  
COMPUTE RATE3 = 1.  
COMPUTE RATE4 = 1.  
COMPUTE RATE5 = 1.  
COMPUTE RATE6 = 1.  
COMPUTE RATE7 = 1.  
  
IF(TGROUP EQ 1 )RATE1 = 1.00162**MONTH1 .  
IF(TGROUP EQ 1 )RATE2 = 1.00321**MONTH2 .  
IF(TGROUP EQ 1 )RATE3 = 1.00000**MONTH3 .  
IF(TGROUP EQ 1 )RATE4 = 1.00754**MONTH4 .  
IF(TGROUP EQ 1 )RATE5 = 1.01159**MONTH5 .  
  
IF(TGROUP EQ 2 )RATE1 = 1.00650**MONTH1 .  
IF(TGROUP EQ 2 )RATE2 = 1.00000**MONTH2 .  
IF(TGROUP EQ 2 )RATE3 = 1.00000**MONTH3 .  
IF(TGROUP EQ 2 )RATE4 = 1.00789**MONTH4 .  
IF(TGROUP EQ 2 )RATE5 = 1.00336**MONTH5 .  
  
IF(TGROUP EQ 3 )RATE1 = .99666**MONTH1 .  
IF(TGROUP EQ 3 )RATE2 = 1.00598**MONTH2 .  
IF(TGROUP EQ 3 )RATE3 = 1.00332**MONTH3 .  
  
IF(TGROUP EQ 4)RATE1 = 1.00000**MONTH1.  
IF(TGROUP EQ 4)RATE2 = 1.00707**MONTH2.  
IF(TGROUP EQ 4)RATE3 = 1.00349**MONTH3.  
IF(TGROUP EQ 4)RATE4 = 1.01055**MONTH4.  
IF(TGROUP EQ 4)RATE5 = 1.00000**MONTH5.  
IF(TGROUP EQ 4)RATE6 = 1.00879**MONTH6.  
  
IF(TGROUP EQ 5)RATE1 = 1.00125**MONTH1.  
IF(TGROUP EQ 5)RATE2 = 1.00000**MONTH2.  
IF(TGROUP EQ 5)RATE3 = 1.00632**MONTH3.  
IF(TGROUP EQ 5)RATE4 = 1.00417**MONTH4.  
  
IF(TGROUP EQ 6)RATE1 = 1.00165**MONTH1.  
IF(TGROUP EQ 6)RATE2 = 1.00727**MONTH2.  
IF(TGROUP EQ 6)RATE3 = 1.00000**MONTH3.  
IF(TGROUP EQ 6)RATE4 = 1.00323**MONTH4.  
IF(TGROUP EQ 6)RATE5 = 1.00661**MONTH5.  
  
IF(TGROUP EQ 7)RATE1 = 1.00326**MONTH1.  
IF(TGROUP EQ 7)RATE2 = 1.00683**MONTH2.  
IF(TGROUP EQ 7)RATE3 = 1.00000**MONTH3.
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IF(TGROUP EQ 7)RATE4 = 1.01894**MONTH4.
IF(TGROUP EQ 7)RATE5 = 1.00000**MONTH5.

IF(TGROUP EQ 8)RATE1 = 1.00129**MONTH1.
IF(TGROUP EQ 8)RATE2 = 1.00304**MONTH2.
IF(TGROUP EQ 8)RATE3 = 1.00668**MONTH3.
IF(TGROUP EQ 8)RATE4 = 1.00363**MONTH4.

IF(TGROUP EQ 9)RATE1 = 1.00408**MONTH1.
IF(TGROUP EQ 9)RATE2 = 1.00426**MONTH2.
IF(TGROUP EQ 9)RATE3 = 1.00491**MONTH3.
IF(TGROUP EQ 9)RATE4 = 1.00811**MONTH4.
IF(TGROUP EQ 9)RATE5 = 1.00297**MONTH5.

IF(TGROUP EQ 10)RATE1 = 1.00694**MONTH1.
IF(TGROUP EQ 10)RATE2 = 1.00000**MONTH2.
IF(TGROUP EQ 10)RATE3 = 1.01148**MONTH3.
IF(TGROUP EQ 10)RATE4 = 1.00000**MONTH4.
IF(TGROUP EQ 10)RATE5 = 1.01298**MONTH5.

COMPUTE ADJRATE = RATE1 * RATE2 * RATE3 * RATE4 * RATE5 * RATE6 * RATE7.

* SORT CASES BY TGROUP.
* SPLIT FILE BY TGROUP.
* GRAPH /SCATTER MONTHS WITH ADJRATE BY SPLINE.
* SPLIT FILE OFF.

SORT CASES BY TGROUP (A).
SPLIT FILE BY TGROUP.
GRAPH /SCATTERPLOT SDATE WITH ADJRATE BY SPLINE
/TEMPLATE = !TEMPLATE + 'Time Rates.sgt'.
SPLIT FILE OFF.

COMPUTE TASP = SOLDPRICE * ADJRATE.
FORMATS TASP (COMMA10.0).
* DESCRIPTIVES SOLDPRICE TASP.

* COMPUTE INV_RATE = 1 / ADJRATE.

*TIMEREVIEW.
* SORT CASES BY TGROUP.
* AGGREGATE OUTFILE = * MODE = ADDVARIABLES OVERWRITE = YES
/BREAK TGROUP
/MEAN_INVRATE = MEAN(INV_RATE)
/MEAN_ADJRATE = MEAN(ADJRATE).

* COMPUTE INV_RATE_ALIGNED = INV_RATE * MEAN_ADJRATE. /*ALIGN INVERSE RATE WITH
ADJRATE DATA.

*VIEW REASONABILITY OF TIME ADJUSTMENT FACTORS.
* SPLIT FILE BY TGROUP.
* GRAPH /LINE (MULTIPLE) = MEDIAN (MEDIAN_RATIO) MEDIAN(INV_RATE_ALIGNED) BY
MONTHS.
* SPLIT FILE OFF.

*****.
*LANDSQFT.

COMPUTE LandIssuePCTx = 1.
IF(LandIssuePCT LT 0)LandIssuePCTx = 1 + (LandIssuePCT / 100).

COMPUTE LandIssuePCT_ECONx = 1.
IF(LandIssuePCT_ECON LT 0)LandIssuePCT_ECONx = 1 + (LandIssuePCT_ECON / 100).

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```
COMPUTE UNDERWATER_SF_ECONX = UNDERWATER_SF_ECON.  
IF(LandIssueSF_Sum EQ UNDERWATER_SF_ECON)UNDERWATER_SF_ECONX = 0.  
  
COMPUTE UNDERWATER_SFx = UNDERWATER_SF.  
IF(LandIssueSF EQ UNDERWATER_SF)UNDERWATER_SFx = 0.  
  
IF(LandIssueSF GT 0)UNDERWATER_SFx = 0.  
IF(LandIssueSF_Sum GT 0)UNDERWATER_SFx = 0.  
  
COMPUTE SUMLANDx = SUMLAND - UNDERWATER_SF_ECONX - LandIssueSF_Sum.  
IF(EconType EQ '')SUMLANDx = SUMLAND - UNDERWATER_SFx - LandIssueSF.  
  
COMPUTE LANDSQFTx = LANDSQFT - UNDERWATER_SFx - LandIssueSF.  
  
FORMATS SUMLANDx LANDSQFTx UNDERWATER_SFx UNDERWATER_SF_ECONx (COMMA10.0).  
  
DESCRIPTIVES SUMLANDx LANDSQFTx.  
  
COMPUTE LN_LANDSQFT = 0.  
IF (SUMLANDx GT 0) LN_LANDSQFT = LN(SUMLANDx).  
  
COMPUTE LANDSIZERATIO = 1.  
IF (SUMLANDx GT 0) LANDSIZERATIO = (SUMLANDx / 6000).  
* IF(ANY(NBHDGroupNum, 1))LANDSIZERATIO = (SUMLANDx / 6000).  
  
COMPUTE LN_LANDSIZERATIO = LN(LANDSIZERATIO).  
  
COMPUTE LN_LANDSIZERATIO1 = 0.  
IF(ANY(NBHDGroupNum, 1, 2, 3, 5, 6, 7, 8, 9) AND LANDSIZERATIO LT  
1)LN_LANDSIZERATIO1 = LN_LANDSIZERATIO.  
COMPUTE LN_LANDSIZERATIO2 = 0.  
IF(ANY(NBHDGroupNum, 1, 2, 3, 5, 6, 7, 8, 9) AND LANDSIZERATIO GT  
1)LN_LANDSIZERATIO2 = LN_LANDSIZERATIO.  
EXECUTE.  
  
COMPUTE LN_Land410Ratio1 = 0.  
IF(ANY(NBHDGroupNum, 4, 10) AND LANDSIZERATIO LT 1)LN_Land410Ratio1 =  
LN_LANDSIZERATIO.  
COMPUTE LN_Land410Ratio2 = 0.  
IF(ANY(NBHDGroupNum, 4, 10) AND LANDSIZERATIO GT 1)LN_Land410Ratio2 =  
LN_LANDSIZERATIO.  
EXECUTE.  
  
*****  
**LIVING AREA.  
  
COMPUTE BASEADJ = STORIES.  
RECODE BASEADJ (1.7 = 1.75)(2.7 = 2.75)(3.7 = 3.75).  
* FREQUENCIES BASEADJ.  
  
*****  
* this code when used will match SFLA.  
* COMPUTE AtticSF = 0.  
* IF(ATTIC EQ 3)AtticSF = FLR1AREA * .20.  
* IF(ATTIC EQ 4)AtticSF = FLR1AREA * .40.  
  
* COMPUTE SQFT = RND((FLR1AREA * BASEADJ) + RND(AtticSF) + FINBSMTAREA + FirstSF +  
HalfStory + Story34  
+ AtticFinished + AtticPartFinished +  
FinBsmt + Solarium).  
*****
```

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```
*****.  
COMPUTE AtticSF = AtticFinished + AtticPartFinished .  
IF(ATTIC EQ 3)AtticSF = AtticSF + RND(FLR1AREA * .20).  
IF(ATTIC EQ 4)AtticSF = AtticSF + RND(FLR1AREA * .40).  
  
COMPUTE SQFT = RND((FLR1AREA * BASEADJ) + RND(AtticSF) + FirstSF + HalfStory +  
Story34 + Solarium) .  
  
COMPUTE UPERSF = RND((FLR1AREA * BASEADJ) - FLR1AREA + HalfStory + Story34) .  
COMPUTE FINBSMTX = FINBSMTAREA + FinBsmt.  
COMPUTE UNFBSMTX= UNFINAREA + UnfBsmt.  
COMPUTE RECBSMTX = RECROMAREA + RecRoom.  
RECODE FINBSMTX UNFBSMTX RECBSMTX (LO THRU 10 = 0).  
  
FORMATS AtticSF SQFT FINBSMTX UNFBSMTX RECBSMTX (COMMA10.0).  
  
COMPUTE SQFTX = SQFT.  
* IF(SFLA2 GT 0)SQFTX = SQFT + ( SFLA2 * .75).  
DO IF(SFLA_ECON GT 0).  
COMPUTE LnSQFTX= LN(SQFTX) .  
END IF.  
RECODE LnSQFTX (SYSMIS = 0).  
EXECUTE.  
  
* MEANS SQFTX /CELLS MIN MAX MEAN MEDIAN COUNT.  
DO IF(SQFTX GT 0).  
COMPUTE SQFTXRATIO = (SQFTX / 1500).  
END IF.  
RECODE SQFTXRATIO (SYSMIS = 1).  
COMPUTE LN_SQFTXRATIO = LN(SQFTXRATIO).  
COMPUTE LN_SQFTXRATIO1 = 0.  
IF(SQFTXRATIO LT 1)LN_SQFTXRATIO1 = LN_SQFTXRATIO.  
COMPUTE LN_SQFTXRATIO2 = 0.  
IF(SQFTXRATIO GT 1)LN_SQFTXRATIO2 = LN_SQFTXRATIO.  
EXECUTE.  
  
DO IF(SFLA2 GT 0).  
COMPUTE LnSFLA2= LN(SFLA2) .  
END IF.  
RECODE LnSFLA2 (SYSMIS = 0).  
EXECUTE.  
  
COMPUTE SFLA2_RATIO = 1 + (SFLA2 / 1000).  
COMPUTE LN_SFLA2_RATIO = LN(SFLA2_RATIO).  
  
COMPUTE UPERSF_RATIO = 1 + (UPERSF / 1000).  
COMPUTE LN_UPERSF_RATIO = LN(UPERSF_RATIO).  
  
COMPUTE AtticSF_RATIO = 1 + (AtticSF / 1000).  
COMPUTE LN_AtticSF_RATIO = LN(AtticSF_RATIO).  
  
*****.  
*BSMT.  
  
* TEMP.  
* SELECT IF UNFBSMT > 0.  
* EXAMINE UNFBSMT /PLOT = NONE /PERCENTILES /NOTOTAL.  
  
* TEMP.  
* SELECT IF FINBSMT > 0.  
* EXAMINE FINBSMT /PLOT = NONE /PERCENTILES /NOTOTAL.
```

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```
* TEMP.
* SELECT IF RECBSMT > 0.
* EXAMINE RECBSMT /PLOT = NONE /PERCENTILES /NOTOTAL.

IF(UNFBSMTX GT 0)LNUNFBSMTX = LN(UNFBSMTX).
IF(FINBSMTX GT 0)LNFINBSMTX = LN(FINBSMTX).
IF(RECBSMTX GT 0)LNRECBSMTX = LN(RECBSMTX).
RECODE LNUNFBSMTX LNFINBSMTX LNRECBSMTX (SYSMIS = 0).

COMPUTE UNFBSMTX_RATIO = 1 + (UNFBSMTX / 1000).
COMPUTE LN_UNFBSMTX_RATIO = LN(UNFBSMTX_RATIO).

COMPUTE FINBSMTX_RATIO = 1 + (FINBSMTX / 1000).
COMPUTE LN_FINBSMTX_RATIO = LN(FINBSMTX_RATIO).

COMPUTE LIN_BSMTX = RND(FINBSMTX + (UNFBSMTX * .5)).
COMPUTE LIN_BSMTX_Ratio = 1 + (LIN_BSMTX / 1000).
COMPUTE LN_LIN_BSMTX_Ratio = LN(LIN_BSMTX_Ratio).

COMPUTE RECBSMTX_RATIO = 1 + (RECBSMTX / 1000).
COMPUTE LN_RECBSMTX_RATIO = LN(RECBSMTX_RATIO).

*****EFFECTIVE AGE*****.

DO IF(DEPR GT 0).
  COMPUTE PCT_GOOD= DEPR/100.
  COMPUTE LN_PCT_GOOD = LN(PCT_GOOD).
END IF.
  * DESCRIPTIVES PCT_GOOD.
VARIABLE LABELS PCT_GOOD 'PERCENTAGE OF VALUE LEFT IN UNIT'.
RECODE LN_PCT_GOOD (SYSMIS = 0).
EXECUTE.

*****.
*GARAGE.

COMPUTE ATTGARX = Garage.
COMPUTE BLTINGARX = BsmtGarage.
COMPUTE DETGARX = GarageDetached_SF.
COMPUTE CARPORTX = CARPORT + Carport_SF.
RECODE ATTGARX BLTINGARX DETGARX CARPORTX (LO THRU 10 = 0).

COMPUTE ATTGARX_RATIO = 1 + (ATTGARX / 480).
COMPUTE LN_ATTGARX_RATIO = LN(ATTGARX_RATIO).

COMPUTE BLTINGARX_RATIO = 1 + (BLTINGARX / 480).
COMPUTE LN_BLTINGARX_RATIO = LN(BLTINGARX_RATIO).

COMPUTE DETGARX_RATIO = 1 + (DETGARX / 480).
COMPUTE LN_DETGARX_RATIO = LN(DETGARX_RATIO).

COMPUTE CARPORTX_RATIO = 1 + (CARPORTX / 480).
COMPUTE LN_CARPORTX_RATIO = LN(CARPORTX_RATIO).
EXECUTE.

COMPUTE AttBltGar = ATTGARX + BLTINGARX.
COMPUTE AttBltGar_RATIO = 1+ (AttBltGar / 480).
COMPUTE LN_AttBltGar_RATIO = LN(AttBltGar_RATIO).

COMPUTE LinDetGarCarport = RND(DETGARX + (CARPORTX *.50)).
COMPUTE LinDetGarCarport_RATIO = 1 + (LinDetGarCarport / 480).
COMPUTE LN_LinDetGarCarport_RATIO = LN(LinDetGarCarport_RATIO).
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```
COMPUTE LIN_GARX = RND(ATTGARX + BLTINGARX + (DETGARX * .3)).  
COMPUTE LIN_GARX_RATIO = 1+ (LIN_GARX / 480).  
COMPUTE LN_LIN_GARX_RATIO = LN(LIN_GARX_RATIO).  
  
DO IF( GarageDetached_Depr GT 0).  
COMPUTE GarageDetachedPctGood= GarageDetached_Depr/100.  
END IF.  
RECODE GarageDetachedPctGood (SYSMIS = 1).  
COMPUTE LN_GarageDetachedPctGood = LN(GarageDetachedPctGood).  
EXECUTE.  
  
COMPUTE ShedX = UtilityBldg + Utilshed_SF.  
RECODE ShedX (LO THRU 9 = 0).  
COMPUTE ShedX_RATIO = 1 + (ShedX / 480).  
COMPUTE LN_ShedX_RATIO = LN(ShedX_RATIO).  
  
*****  
*Porch.  
  
COMPUTE TerraceX = RaisedTerrace + Terrace_SF.  
COMPUTE PatioX = Patio + PatioPool_SF.  
COMPUTE OpenPorchX = OpenPorch + OpenFramePorch_SF + Porchscreened_SF.  
COMPUTE Enc1PorchX = Enc1Porch.  
* COMPUTE Enc1PorchX = Enc1Porch + PoolEnclosure_SF.  
COMPUTE WoodDeckX = WoodDeck + WoodDeck_SF.  
COMPUTE CanopyX = Canopy + Canopy_SF.  
COMPUTE GreenhouseX = Greenhouse + Greenhouse_SF.  
COMPUTE BOATDOCKX = BOATDOCK_SF.  
  
COMPUTE TerraceX_RATIO = 1 + ((TerraceX) / 350).  
COMPUTE LN_TerraceX_RATIO = LN(TerraceX_RATIO).  
  
COMPUTE PatioX_RATIO = 1 + ((PatioX) / 240).  
COMPUTE LN_PatioX_RATIO = LN(PatioX_RATIO).  
  
COMPUTE OpenPorchX_RATIO = 1 + ((OpenPorchX) / 115).  
COMPUTE LN_OpenPorchX_RATIO = LN(OpenPorchX_RATIO).  
  
COMPUTE Enc1PorchX_RATIO = 1 + ((Enc1PorchX) / 115).  
COMPUTE LN_Enc1PorchX_RATIO = LN(Enc1PorchX_RATIO).  
  
COMPUTE LINPORCH_RATIO = (RND((OpenPorchX * .975) + Enc1PorchX) / 115) + 1.  
COMPUTE LN_LINPORCH_RATIO = LN(LINPORCH_RATIO).  
  
COMPUTE WoodDeckX_RATIO = 1 + ((WoodDeckX) / 250).  
COMPUTE LN_WoodDeckX_RATIO = LN(WoodDeckX_RATIO).  
  
COMPUTE CanopyX_RATIO = 1 + ((CanopyX) / 110).  
COMPUTE LN_CanopyX_RATIO = LN(CanopyX_RATIO).  
  
COMPUTE GreenhouseX_RATIO = 1 + ((GreenhouseX) / 135).  
COMPUTE LN_GreenhouseX_RATIO = LN(GreenhouseX_RATIO).  
  
COMPUTE Gazebo_SF_RATIO = 1 + ((Gazebo_SF) / 120).  
COMPUTE LN_Gazebo_SF_RATIO = LN(Gazebo_SF_RATIO).  
  
COMPUTE CabinX = Cabin_SF + OfficeStudio_SF.  
  
COMPUTE CabinX_RATIO = 1 + ((CabinX) / 300).  
COMPUTE LN_GCabinX_RATIO = LN(CabinX_RATIO).  
  
COMPUTE BathHouse_SF_RATIO = 1 + ((BathHouse_SF) / 180).
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COMPUTE LN_BathHouse_SF_RATIO = LN(BathHouse_SF_RATIO).

COMPUTE PoolX = PoolVinyl + PoolConc + PoolConc_SF + PoolFbg1_SF + PoolGuni_SF +
PoolVinyl_SF + SpaJacuzzi_SF.
COMPUTE Enc1PoolX = RND((Enc1PoolLow * .75) + Enc1PoolHigh + PoolEnclosure_SF).

COMPUTE PoolX_RATIO = 1 + ((PoolX) / 400).
COMPUTE LN_PoolX_RATIO = LN(PoolX_RATIO).

COMPUTE Enc1PoolX_RATIO = 1 + ((Enc1PoolX) / 400).
COMPUTE LN_Enc1PoolX_RATIO = LN(Enc1PoolX_RATIO).

COMPUTE TennisCourt_SF_RATIO = 1 + ((TennisCourt_SF) / 180).
COMPUTE LN_TennisCourt_SF_RATIO = LN(TennisCourt_SF_RATIO).

COMPUTE BOATDOCKx_RATIO = 1 + ((BOATDOCKx) / 300).
COMPUTE LN_BOATDOCKx_RATIO = LN(BOATDOCKx_RATIO).

*****.
* QUALITATIVE VARIABLES.

*****.
*STYLE.

RECODE STYLE (1 = 1) (ELSE = 0) INTO Ranch. /*1005 SALES - 5630 POP.
RECODE STYLE (2 = 1) (ELSE = 0) INTO RaisedRanch. /*662 SALES - 4348 POP.
RECODE STYLE (3 = 1) (ELSE = 0) INTO SplitLevel. /*858 SALES - 5328 POP.
RECODE STYLE (4 = 1) (ELSE = 0) INTO ModifiedRanch. /*101 SALES - 676 POP.
* RECODE STYLE (5 = 1) (ELSE = 0) INTO Cape. /*2297 SALES - 14913 POP; BASE.
RECODE STYLE (6 = 1) (ELSE = 0) INTO Colonial. /*1605 SALES - 11058 POP.
* RECODE STYLE (7 = 1) (ELSE = 0) INTO Victorian. /*1 SALES - 8 POP.
RECODE STYLE (8 = 1) (ELSE = 0) INTO Contemporary. /*118 SALES - 830 POP.
RECODE STYLE (9 = 1) (ELSE = 0) INTO OldStyle. /*1817 SALES - 11976 POP.
RECODE STYLE (10 = 1) (ELSE = 0) INTO BungalowCottage. /*712 SALES - 4305 POP.
RECODE STYLE (11 = 1) (ELSE = 0) INTO DuplexTriplex. /*123 SALES - 956 POP.
RECODE STYLE (13 = 1) (ELSE = 0) INTO Townhouse. /*50 SALES - 259 POP.
* RECODE STYLE (16 = 1) (ELSE = 0) INTO HomeOwnerAssoc. /*1 SALES - 1 POP.
RECODE STYLE (18 = 1) (ELSE = 0) INTO Splash. /*97 SALES - 708 POP.
* RECODE STYLE (19 = 1) (ELSE = 0) INTO CarriageHouse. /*0 SALES - 1 POP.
RECODE STYLE (20 = 1) (ELSE = 0) INTO Tudor. /*6 SALES - 45 POP.
RECODE STYLE (22 = 1) (ELSE = 0) INTO Style_Unknown. /*13 SALES - 149 POP.

* COMPUTE LIN_BSMT_YN = LIN_BSMTX GT 0.
IF (LIN_BSMTX NE 0) RAISEDRANCH = 0. /*BSMT AND RAISED RANCH HIGHLY CORRELATED.
IF (LIN_BSMTX NE 0) SPLITLEVEL = 0. /*BSMT AND SPLIT LEVEL HIGHLY CORRELATED.

DO IF (TGROUP EQ 2).
RECODE STYLE (10 = 1) (ELSE = 0) INTO G2_BungalowCottage.
RECODE STYLE (11 = 1) (ELSE = 0) INTO G2_DuplexTriplex.
RECODE STYLE (13 = 1) (ELSE = 0) INTO G2_Townhouse.
COMPUTE BungalowCottage = 0.
COMPUTE DuplexTriplex = 0.
COMPUTE Townhouse = 0.
END IF.
RECODE G2_BungalowCottage G2_DuplexTriplex G2_Townhouse (SYSMIS = 0).

DO IF (TGROUP EQ 4).
RECODE STYLE (10 = 1) (ELSE = 0) INTO G4_BungalowCottage.
RECODE STYLE (18 = 1) (ELSE = 0) INTO G4_Splash.
COMPUTE BungalowCottage = 0.
COMPUTE Splash = 0.

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```
END IF.  
RECODE G4_BungalowCottage G4_Splanch (SYSMIS = 0).  
  
DO IF (TGROUP EQ 5).  
RECODE STYLE (4 = 1) (ELSE = 0) INTO G5_ModifiedRanch.  
RECODE STYLE (13 = 1) (ELSE = 0) INTO G5_Townhouse.  
COMPUTE ModifiedRanch = 0.  
COMPUTE Townhouse = 0.  
END IF.  
RECODE G5_ModifiedRanch G5_Townhouse (SYSMIS = 0).  
  
DO IF (TGROUP EQ 6).  
RECODE STYLE (4 = 1) (ELSE = 0) INTO G6_ModifiedRanch.  
RECODE STYLE (10 = 1) (ELSE = 0) INTO G6_BungalowCottage.  
COMPUTE ModifiedRanch = 0.  
COMPUTE BungalowCottage = 0.  
END IF.  
RECODE G6_ModifiedRanch G6_BungalowCottage (SYSMIS = 0).  
  
DO IF (TGROUP EQ 8).  
RECODE STYLE (13 = 1) (ELSE = 0) INTO G8_Townhouse.  
COMPUTE Townhouse = 0.  
END IF.  
RECODE G8_Townhouse (SYSMIS = 0).  
  
DO IF (TGROUP EQ 9).  
RECODE STYLE (10 = 1) (ELSE = 0) INTO G9_BungalowCottage.  
RECODE STYLE (11 = 1) (ELSE = 0) INTO G9_DuplexTriplex.  
RECODE STYLE (13 = 1) (ELSE = 0) INTO G9_Townhouse.  
COMPUTE BungalowCottage = 0.  
COMPUTE DuplexTriplex = 0.  
COMPUTE Townhouse = 0.  
END IF.  
RECODE G9_BungalowCottage G9_DuplexTriplex G9_Townhouse (SYSMIS = 0).  
  
*****  
*ELEVATED HOUSES.  
* Elevated ElevatedGarage ElevatedCarport.  
DO IF(Elevated NE '').  
COMPUTE ElevatedNum = NUMBER(Elevated,F1.0).  
END IF.  
RECODE ElevatedNum (SYSMIS = 0).  
RECODE ElevatedNum (1 THRU HIGHEST = 1)(ELSE = 0) INTO ElevatedHome.  
IF(ElevatedGarage NE '') ElevatedHome = 1.  
IF(ElevatedCarport NE '') ElevatedHome = 1.  
* RECODE ElevatedNum (1, 5 = 1)(ELSE = 0) INTO ElevatedCrawlPilings.  
* RECODE ElevatedNum (2, 3, 4 = 1)(ELSE = 0) INTO ElevatedUnfinishedx.  
DO IF(ElevatedGarage NE '').  
COMPUTE ElevatedGarageNum = NUMBER(ElevatedGarage,F1.0).  
END IF.  
RECODE ElevatedGarageNum (SYSMIS = 0).  
*****  
*LUC.  
* RECODE LUC ("2150" = 1)(ELSE = 0) INTO OneFamilyWAppt. /* 34 SALES - 219 POP.  
* RECODE LUC ("2200" = 1)(ELSE = 0) INTO TwoFamily. /* 1039 SALES - 6976 POP.  
* RECODE LUC ("2300" = 1)(ELSE = 0) INTO ThreeFamily. /* 43 SALES - 303 POP.  
RECODE LUC ("2800" = 1)(ELSE = 0) INTO MultiRes. /* 30 SALES - 250 POP.  
RECODE LUC ("4830" = 1)(ELSE = 0) INTO ConvertedResidence. /* 21 SALES - 198 POP.  
RECODE LUC ("6201" = 1)(ELSE = 0) INTO Religious. /* 9 SALES - 94 POP.
```

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\*QUAL.  
\* 8 - C IS BASE.

RECODE QUAL (1 = 1.60) (2 = 1.40) (3 = 1.20) (4 = 1) (ELSE = 0) INTO QualEMinusQualDMinus.  
RECODE QUAL (5 = 1.05) (6 = 1.025) (7 = 1) (ELSE = 0) INTO QualDQualCMinus.  
RECODE QUAL (9 = 1) (ELSE = 0) INTO QualCPlus.  
RECODE QUAL (10 = 1) (ELSE = 0) INTO QualBMinus.  
RECODE QUAL (11 = 1) (ELSE = 0) INTO QualB.  
RECODE QUAL (12 = 1) (ELSE = 0) INTO QualBPlus.  
RECODE QUAL (13 = 1) (ELSE = 0) INTO QualAMinus.  
RECODE QUAL (14 = 1) (15 = 1.30)(16 = 1.70) (17 = 2.20) (18 = 3) (19 = 3.5) (20 = 4.00) (ELSE = 0) INTO QualAQuals.

\*\*\*\*\*.

\*CDU.

\* RECODE CDU (1 = 1) (ELSE = 0) INTO CDU\_Unsound. /\* 0 SALES - 0 POP.  
\* RECODE CDU (2 = 1) (ELSE = 0) INTO CDU\_VeryPoor. /\* 1 SALES - 2 POP.  
\* RECODE CDU (3 = 1) (ELSE = 0) INTO CDU\_Poor. /\* 11 SALES - 102 POP.  
RECODE CDU (1 = 6) (2 = 4) (3 = 2) (4 = 1) (ELSE = 0) INTO CDU\_UnsoundCDU\_Fair. /\*  
802 SALES - 5418 POP.  
\* RECODE CDU (5 = 1) (ELSE = 0) INTO CDU\_Average. /\* 5841 SALES - 38066 POP.  
\* RECODE CDU (6 = 1) (ELSE = 0) INTO CDU\_Good. /\* 2062 SALES - 13039 POP.  
RECODE CDU (6 = .85) (7 = 1) (ELSE = 0) INTO CDU\_GoodCDU\_VeryGood. /\* 516 SALES -  
3090 POP.  
RECODE CDU (8 = 1) (ELSE = 0) INTO CDU\_Excellent. /\* 233 SALES - 1474 POP.

RECODE CDU\_UnsoundCDU\_Fair TO CDU\_EXCELLENT (SYSMIS = 0).

COMPUTE G4\_CDU\_Excellent = 0.  
IF (TGROUP EQ 4) G4\_CDU\_Excellent = CDU\_Excellent.  
IF (TGROUP EQ 4) CDU\_Excellent = 0.

COMPUTE G5\_CDU\_UnsoundCDU\_Fair = 0.  
IF (TGROUP EQ 5) G5\_CDU\_UnsoundCDU\_Fair = CDU\_UnsoundCDU\_Fair.  
IF (TGROUP EQ 5) CDU\_UnsoundCDU\_Fair = 0.  
RECODE G5\_CDU\_UnsoundCDU\_Fair (6 = 10) (4 = 8) (2 = 6).

COMPUTE G7\_CDU\_UnsoundCDU\_Fair = 0.  
IF (TGROUP EQ 7) G7\_CDU\_UnsoundCDU\_Fair = CDU\_UnsoundCDU\_Fair.  
IF (TGROUP EQ 7) CDU\_UnsoundCDU\_Fair = 0.

\*\*\*\*\*.

\*EXTWALL.

RECODE EXTWALL (1 = 1) (ELSE = 0) INTO EXTWALL\_Frame. /\* 1459 SALES - 8568 POP.  
RECODE EXTWALL (2, 9 = 1)(7 = 1.25)(10 = 1.35)(ELSE = 0) INTO EXTWALL\_Brick. /\* 461  
SALES - 2812 POP.  
RECODE EXTWALL (3 = 1) (ELSE = 0) INTO EXTWALL\_MasFrame. /\* 1465 SALES - 9299 POP.  
\* RECODE EXTWALL (4 = 1) (ELSE = 0) INTO EXTWALL\_ConcBlk. /\* 4 SALES - 12 POP.  
RECODE EXTWALL (5 = 1) (ELSE = 0) INTO EXTWALL\_Stucco. /\* 605 SALES - 4248 POP.  
\* RECODE EXTWALL (6 = 1) (ELSE = 0) INTO EXTWALL\_AlumVinyl. /\* 4636 SALES - 31050  
POP; BASE.  
\* RECODE EXTWALL (7 = 1) (ELSE = 0) INTO EXTWALL\_Stone. /\* 2 SALES - 18 POP.  
RECODE EXTWALL (8 = 1) (ELSE = 0) INTO EXTWALL\_Comp. /\* 794 SALES - 4919 POP.  
\* RECODE EXTWALL (9 = 1) (ELSE = 0) INTO EXTWALL\_Mas. /\* 31 SALES - 223 POP.  
\* RECODE EXTWALL (10 = 1) (ELSE = 0) INTO EXTWALL\_Log. /\* 0 SALES - 2 POP.  
RECODE EXTWALL (11 = 1) (ELSE = 0) INTO EXTWALL\_CmntFbr. /\* 9 SALES - 40 POP.

\*\*\*\*\*.

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\*BSMT.

```
RECODE BSMT (0 = 1) (ELSE = 0) INTO BSMT_None. /* 1677 SALES - 10703 POP.  
RECODE BSMT (1 = 1) (ELSE = 0) INTO BSMT_QuartersLab. /* 87 SALES - 480 POP.  
RECODE BSMT (2 = 1) (ELSE = 0) INTO BSMT_HalfCrawl. /* 501 SALES - 3144 POP.  
RECODE BSMT (3 = 1) (ELSE = 0) INTO BSMT_ThreeQuarter. /* 400 SALES - 2622 POP.  
* RECODE BSMT (5 = 1) (ELSE = 0) INTO BSMT_Full. /* 6801 SALES - 44242 POP.
```

\*\*\*\*\*

\*HEAT.

```
RECODE HEAT (0, 1 = 1) (ELSE = 0) INTO HEAT_None. /* 3 SALES - 29 POP.  
RECODE HEAT (2 = 1) (ELSE = 0) INTO HEAT_NonCntrl. /* 4 SALES - 52 POP.  
* RECODE HEAT (3 = 1) (ELSE = 0) INTO HEAT_Cntrl. /* 7093 SALES - 45194 POP; BASE.  
RECODE HEAT (4 = 1) (ELSE = 0) INTO HEAT_CntrlHtac. /* 2366 SALES - 15916 POP.
```

\*\*\*\*\*

\*FUEL.

```
RECODE FUEL (0 = 1) (ELSE = 0) INTO Fuel_None. /* 0 SALES - 6 POP.  
* RECODE FUEL (1 = 1) (ELSE = 0) INTO Fuel_Oil. /* 6642 SALES - 41997 POP; BASE.  
RECODE FUEL (2 = 1) (ELSE = 0) INTO Fuel_CoalStkr. /* 16 SALES - 46 POP.  
RECODE FUEL (3 = 1) (ELSE = 0) INTO Fuel_Gas. /* 2358 SALES - 16608 POP.  
RECODE FUEL (4 = 1) (ELSE = 0) INTO Fuel_CoalHand. /* 7 SALES - 40 POP.  
RECODE FUEL (5 = 1) (ELSE = 0) INTO Fuel_Solar. /* 1 SALES - 13 POP.  
RECODE FUEL (6 = 1) (ELSE = 0) INTO Fuel_Elect. /* 15 SALES - 67 POP.  
RECODE FUEL (7 = 1) (ELSE = 0) INTO Fuel_Other. /* 427 SALES - 2410 POP.  
RECODE FUEL (8 = 1) (ELSE = 0) INTO Fuel_Geo. /* 0 SALES - 4 POP.
```

\*\*\*\*\*

\*HEATSYS.

\* Will use Heat System Rather Than variable Heat.  
\*Heatsys None appears to have data issues, comes in fine with base model; 16 cases  
of none with cdu very good.

```
RECODE HEATSYS (1 = 1) (ELSE = 0) INTO HEATSYS_SteamVpr. /* 2687 SALES - 16894 POP.  
* RECODE HEATSYS (2 = 1) (ELSE = 0) INTO HEATSYS_HotWtr. /* 3894 SALES - 24940 POP;  
BASE.  
RECODE HEATSYS (3 = 1) (ELSE = 0) INTO HEATSYS_ElecSolar. /* 8 SALES - 84 POP.  
RECODE HEATSYS (4 = 1) (ELSE = 0) INTO HEATSYS_FrcdAir. /* 440 SALES - 2846 POP.  
RECODE HEATSYS (5 = 1) (ELSE = 0) INTO HEATSYS_CntrlAir. /* 2313 SALES - 15662 POP.  
* RECODE HEATSYS (6 = 1) (ELSE = 0) INTO HEATSYS_Unused. /* 0 SALES - 1 POP.  
RECODE HEATSYS (7 = 1) (ELSE = 0) INTO HEATSYS_HotAir. /* 37 SALES - 282 POP.  
RECODE HEATSYS (6, 8, 9 = 1) (ELSE = 0) INTO HEATSYS_PipelessNone. /* 43 SALES - 273  
POP.  
* RECODE HEATSYS (6, 9 = 1) (ELSE = 0) INTO HEATSYS_None. /* 44 SALES - 209 POP.
```

\*\*\*\*\*

\*ATTIC.

\* WILL USE SQFT INSTEAD.

\*\*\*\*\*  
\*ROOFCOVER ROOFTYPE HVACTYPE - WILL TEST IN RATIO STUDY.

```
COMPUTE FireplaceX = WBFP_O + WBFP_S + WBFP_PF.  
DO IF(FireplaceX GT 0).  
COMPUTE LNFireplaceX = LN(FireplaceX).  
END IF.  
RECODE LNFireplaceX (SYSMIS = 0).
```

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```
*****  
*BATHS.  
  
DO IF(FIXTOT GT 0).  
COMPUTE LNFIXTOT = LN(FIXTOT).  
END IF.  
RECODE LNFIXTOT (SYSMIS = 0).  
  
*****  
*LOCATION AND SITE QUALITATIVE VARIABLES.  
  
*****  
*NBHD.  
  
RECODE NBHD (38 = 1) (ELSE = 0) INTO NBHD_38. /* 130 SALES - 887 POP.  
RECODE NBHD (40 = 1) (ELSE = 0) INTO NBHD_40. /* 298 SALES - 2207 POP.  
RECODE NBHD (45 = 1) (ELSE = 0) INTO NBHD_45. /* 207 SALES - 1358 POP.  
RECODE NBHD (46 = 1) (ELSE = 0) INTO NBHD_46. /* 130 SALES - 811 POP.  
RECODE NBHD (60 = 1) (ELSE = 0) INTO NBHD_60. /* 98 SALES - 651 POP.  
RECODE NBHD (61 = 1) (ELSE = 0) INTO NBHD_61. /* 150 SALES - 1132 POP.  
RECODE NBHD (62 = 1) (ELSE = 0) INTO NBHD_62. /* 63 SALES - 479 POP.  
RECODE NBHD (71 = 1) (ELSE = 0) INTO NBHD_71. /* 201 SALES - 1603 POP.  
RECODE NBHD (72 = 1) (ELSE = 0) INTO NBHD_72. /* 299 SALES - 1718 POP.  
RECODE NBHD (73 = 1) (ELSE = 0) INTO NBHD_73. /* 226 SALES - 1305 POP.  
RECODE NBHD (83 = 1) (ELSE = 0) INTO NBHD_83. /* 139 SALES - 960 POP.  
RECODE NBHD (84 = 1) (ELSE = 0) INTO NBHD_84. /* 99 SALES - 816 POP.  
RECODE NBHD (102 = 1) (ELSE = 0) INTO NBHD_102. /* 251 SALES - 1621 POP.  
* RECODE NBHD (103 = 1) (ELSE = 0) INTO NBHD_103. /* 325 SALES - 2015 POP.  
RECODE NBHD (104 = 1) (ELSE = 0) INTO NBHD_104. /* 302 SALES - 2252 POP.  
RECODE NBHD (105 = 1) (ELSE = 0) INTO NBHD_105. /* 98 SALES - 575 POP.  
RECODE NBHD (106 = 1) (ELSE = 0) INTO NBHD_106. /* 190 SALES - 1232 POP.  
RECODE NBHD (107 = 1) (ELSE = 0) INTO NBHD_107. /* 228 SALES - 1623 POP.  
RECODE NBHD (108 = 1) (ELSE = 0) INTO NBHD_108. /* 185 SALES - 1567 POP.  
RECODE NBHD (162 = 1) (ELSE = 0) INTO NBHD_162. /* 227 SALES - 1621 POP.  
RECODE NBHD (163 = 1) (ELSE = 0) INTO NBHD_163. /* 228 SALES - 1388 POP.  
RECODE NBHD (164 = 1) (ELSE = 0) INTO NBHD_164. /* 184 SALES - 1291 POP.  
RECODE NBHD (165 = 1) (ELSE = 0) INTO NBHD_165. /* 371 SALES - 2431 POP.  
RECODE NBHD (166 = 1) (ELSE = 0) INTO NBHD_166. /* 197 SALES - 1435 POP.  
RECODE NBHD (167 = 1) (ELSE = 0) INTO NBHD_167. /* 103 SALES - 634 POP.  
RECODE NBHD (168 = 1) (ELSE = 0) INTO NBHD_168. /* 185 SALES - 1069 POP.  
RECODE NBHD (169 = 1) (ELSE = 0) INTO NBHD_169. /* 48 SALES - 352 POP.  
RECODE NBHD (170 = 1) (ELSE = 0) INTO NBHD_170. /* 201 SALES - 1183 POP.  
RECODE NBHD (171 = 1) (ELSE = 0) INTO NBHD_171. /* 99 SALES - 410 POP.  
RECODE NBHD (172 = 1) (ELSE = 0) INTO NBHD_172. /* 264 SALES - 1652 POP.  
RECODE NBHD (173 = 1) (ELSE = 0) INTO NBHD_173. /* 158 SALES - 913 POP.  
RECODE NBHD (174 = 1) (ELSE = 0) INTO NBHD_174. /* 137 SALES - 915 POP.  
RECODE NBHD (175 = 1) (ELSE = 0) INTO NBHD_175. /* 166 SALES - 943 POP.  
RECODE NBHD (187 = 1) (ELSE = 0) INTO NBHD_187. /* 115 SALES - 805 POP.  
RECODE NBHD (188 = 1) (ELSE = 0) INTO NBHD_188. /* 17 SALES - 138 POP.  
RECODE NBHD (189 = 1) (ELSE = 0) INTO NBHD_189. /* 40 SALES - 245 POP.  
RECODE NBHD (190 = 1) (ELSE = 0) INTO NBHD_190. /* 66 SALES - 476 POP.  
RECODE NBHD (191 = 1) (ELSE = 0) INTO NBHD_191. /* 313 SALES - 2233 POP.  
RECODE NBHD (192 = 1) (ELSE = 0) INTO NBHD_192. /* 117 SALES - 719 POP.  
RECODE NBHD (193 = 1) (ELSE = 0) INTO NBHD_193. /* 177 SALES - 1123 POP.  
RECODE NBHD (194 = 1) (ELSE = 0) INTO NBHD_194. /* 111 SALES - 863 POP.  
RECODE NBHD (195 = 1) (ELSE = 0) INTO NBHD_195. /* 393 SALES - 2402 POP; BASE.  
RECODE NBHD (196 = 1) (ELSE = 0) INTO NBHD_196. /* 132 SALES - 773 POP.  
RECODE NBHD (197 = 1) (ELSE = 0) INTO NBHD_197. /* 51 SALES - 297 POP.  
RECODE NBHD (200 = 1) (ELSE = 0) INTO NBHD_200. /* 60 SALES - 488 POP.  
RECODE NBHD (201 = 1) (ELSE = 0) INTO NBHD_201. /* 146 SALES - 1132 POP.  
RECODE NBHD (202 = 1) (ELSE = 0) INTO NBHD_202. /* 257 SALES - 1467 POP.  
RECODE NBHD (203 = 1) (ELSE = 0) INTO NBHD_203. /* 12 SALES - 93 POP.
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RECODE NBHD (204 = 1) (ELSE = 0) INTO NBHD_204. /* 389 SALES - 1760 POP.
RECODE NBHD (205 = 1) (ELSE = 0) INTO NBHD_205. /* 138 SALES - 684 POP.
RECODE NBHD (206 = 1) (ELSE = 0) INTO NBHD_206. /* 264 SALES - 1410 POP.
RECODE NBHD (207 = 1) (ELSE = 0) INTO NBHD_207. /* 152 SALES - 977 POP.
RECODE NBHD (208 = 1) (ELSE = 0) INTO NBHD_208. /* 116 SALES - 747 POP.
RECODE NBHD (209 = 1) (ELSE = 0) INTO NBHD_209. /* 213 SALES - 1310 POP.

COMPUTE NBHD_CHECK = SUM(NBHD_38 TO NBHD_209).
* FREQUENCIES NBHD_CHECK.

* TEMPORARY.
* SELECT IF(NBHD_CHECK EQ 0).
* FREQUENCIES NBHD.

*****.
* SUBDIVISION ADJUSTMENTS - AS NEEDED.

*LONG BEACH BLOCK ADJUSTMENTS.
IF (ANY(SECBLOCK, '59 164', '59 165', '59 166', '59 167', '59 168', '59 169',
      '59 124', '59 139', '59 148', '59 149', '59 150', '59 151',
      '59 152', '59 153', '59 154', '59 163')) SUB59_1 = 1.

IF (ANY(SECBLOCK, '59 092', '59 093', '59 094', '59 096')) SUB59_2 = 1.

IF (ANY(SECBLOCK, '58 037', '58 038', '58 039', '58 040', '58 041', '58 042',
      '58 043', '58 044', '58 045', '58 046', '58 047', '58 048',
      '58 049', '58 050', '58 051', '58 052', '58 053', '58 054',
      '58 061')) SUB58_1 = 1.

IF (ANY(SECBLOCK, '58 153', '58 154', '58 156', '58 062', '58 063', '58 150',
      '58 151', '58 152')) SUB58_2 = 1.

RECODE SUB59_1 TO SUB58_2 (SYSMIS = 0).

* CROSSTABS SUB59_1 TO SUB58_2 BY PARCEL_TYPE.

*****.
*WaterAttribute.
* Water_None is base.
* No occurrences of Water_Primary, Water_Lake and Water_Sound.
* Water_Bay Water_Canal Water_Ocean Water_WaterView.

* Water_Bay in NBHD 136 is a little high, will reduce.
COMPUTE Water_Bay195 = 0.
IF(Water_Bay EQ 1 AND NBHD EQ 195)Water_Bay195 = 1.

*****.
*Location.
* None is base.
* LOC_MajorHighway LOC_SecondaryStreet LOC_LongIslandRailRoad
LOC_CommercialOrIndustrial
LOC_ApartmentBuilding LOC_ContaminatedSite LOC_GolfCourse
LOC_ReligiousInstitution LOC_School
LOC_Park LOC_Cemetery LOC_AbuttsFireStation LOC_SplitSchoolDistrict LOC_Noise.

* crosstabs LOC_MajorHighway by MAJOR_HIGHWAY.

**A few disparities between FireStation and ABUTS_FIRESTATION.
COMPUTE LOC_AbuttsFireStationX = LOC_AbuttsFireStation.
IF(ABUTS_FIRESTATION EQ 1)LOC_AbuttsFireStationX = 1.
*A few disparities between Apartment and APARTMENT_INFLUENCE.

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COMPUTE LOC_ApartmentBuildingX = LOC_ApartmentBuilding.
IF(APARTMENT_INFLUENCE EQ 1) LOC_ApartmentBuildingX = 1.
*A few disparities between CommercialOrIndustrial and COMMERCIAL_INFLUENCE.
COMPUTE LOC_CommercialOrIndustrialX = LOC_CommercialOrIndustrial.
IF(COMMERCIAL_INFLUENCE EQ 1) LOC_CommercialOrIndustrialX = 1.
*A few disparities between SecondaryStreet and SECONDARY_STREET.
COMPUTE LOC_SecondaryStreetX = LOC_SecondaryStreet.
IF( SECONDARY_STREET EQ 1)LOC_SecondaryStreetX = 1.

*A few disparities between MajorHighway and MAJOR_HIGHWAY.
COMPUTE LOC_MajorHighwayX = LOC_MajorHighway.
IF( MAJOR_HIGHWAY EQ 1)LOC_MajorHighwayX = 1.

*FITTING TERRIBLY IN LOCATION ADJUSTMENT.
*ADJUSTING WITH TRAFFIC ADJUSTMENT; SEEMS TO BE MORE OF A PARKING/CONGESTION ISSUE.
 * DO IF (NBHD EQ 195).
 * COMPUTE LOC_NONE = 1.
 * END IF.

*****.
* Fronting.
* none and residential street and lane are base.
 * FR_MajorStrip FR_SecondaryArtery FR_SecondaryStreet FR_ResidentialStreet
FR_ResidentialLane
    FR_Culdesac FR_DeadEnd FR_FrontageRoad FR_PrivateRoad.

 * COMPUTE FR_SecondaryArteryStreet = FR_SecondaryArtery.
 * IF(FR_SecondaryStreet EQ 1)FR_SecondaryArteryStreet = 1.

*****.
*Traffic.
*None and Light are base.
*TrafficLight TrafficMedium TrafficHeavy.

*****.
*TOPO.
*None and Level are base.

*****.
*COST CONSTRAINTS.

*COST CONSTRAINTS.
COMPUTE ExtraImpsCost = SUM(RCNVAL2, RCNVAL3).
IF(ExtraImpsCost GT 0)LN_ExtraImpsCost = LN(ExtraImpsCost).
RECODE LN_ExtraImpsCost (SYSMIS = 0).

COMPUTE Cabin_OfficeStudioCost = SUM(Cabin_ADJRCNLD, OfficeStudio_ADJRCNLD).
COMPUTE UtilityCost = SUM(UtilityBldgRCNLD, UtilShed_ADJRCNLD).
COMPUTE AGCost = SUM(AGBldgs_ADJRCNLD, Barn_ADJRCNLD).
COMPUTE GreenhouseCost = SUM(GreenhouseRCNLD, Greenhouse_ADJRCNLD).
COMPUTE PoolCost = SUM(PoolVinylRCNLD, PoolConcrCNLD, PoolFbgl_ADJRCNLD,
PoolGuni_ADJRCNLD, PoolVinyl_ADJRCNLD, SpaJacuzzi_ADJRCNLD).
COMPUTE EnclPoolCost = SUM(EnclPoolLowRCNLD, EnclPoolHighRCNLD,
PoolEnclosure_ADJRCNLD, BathHouse_ADJRCNLD).
COMPUTE WallCost = SUM(Fence_ADJRCNLD, MasonryWall_ADJRCNLD, Paving_ADJRCNLD).
COMPUTE MiscImpCost = SUM(ElevatorRCNLD, TennisCourt_ADJRCNLD, Cellar_ADJRCNLD,
MiscAddnRCNLD).
COMPUTE MiscWaterImpCost = SUM(BoatDock_ADJRCNLD, BoatHouseEnclosed_ADJRCNLD,
BoatHouseOpen_ADJRCNLD, BoatSlip_ADJRCNLD, Bulkhead_ADJRCNLD, Seawall_ADJRCNLD).
 * COMPUTE MiscCoverCost = SUM(Canopy_ADJRCNLD, Gazebo_ADJRCNLD, Terrace_ADJRCNLD).
COMPUTE MiscCoverCost = SUM(Canopy_ADJRCNLD, Gazebo_ADJRCNLD).

COMPUTE COST_RCNLDX_P = SUM(Cabin_OfficeStudioCost_P, AGCost_P, EnclPoolCost_P,

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WallCost_P, MiscImpCost_P, MiscWaterImpCost_P, MiscCoverCost_P).
COMPUTE COST_RCNLDX = SUM(Cabin_OfficeStudioCost, AGCost, GreenhouseCost,
EnclPoolCost, wallCost, MiscImpCost, MiscWaterImpCost, MiscCoverCost).
RECODE COST_RCNLDX (SYSMIS = 0).
FORMATS ExtraImpsCost Cabin_OfficeStudioCost UtilityCost AGCost GreenhouseCost
PoolCost
    EnclPoolCost wallCost MiscImpCost MiscWaterImpCost MiscCoverCost COST_RCNLDX
COST_RCNLDX_P (COMM10.0).

TEMPORARY.
SELECT IF(COST_RCNLDX GT 0).
DESCRIPTIVES COST_RCNLDX COST_RCNLDX_P.

*****PREDICTION*****.

DO IF( PARCEL_TYPE EQ 'S').
  * COMPUTE ADJPRICE = SOLDPRICE.
  COMPUTE ADJPRICE = TASP.
END IF.

*****.
* LAND VALUE.

COMPUTE PCT_GOOD_ADJ = EXP(      +          .220667035632462  * LN_PCT_GOOD).
COMPUTE Water_ADJ = EXP(      +          .306152790556838  * Water_Bay
+          -0.09431067947124  * Water_Bay195
+          .086156466589031  * Water_Canal
+          .665497462141245  * Water_Ocean
+          .081961441630169  * Water_WaterView).
COMPUTE LOC_ADJ = EXP(      +          -.049524377514821  * LOC_MajorHighwayX
+          -.034705618973604  * LOC_LongIslandRailRoad
+          -.050313030144661  * LOC_CommercialOrIndustrialX
+          -.041679830011118  * LOC_ApartmentBuildingX
+          -.017229001604055  * LOC_School
+          .045904634711877  * LOC_Park
+          -.119263954953450  * LOC_Cemetery
+          -.064056824508782  * LOC_AbuttsFirestationX
+          -.123056545419962  * LOC_Noise).
COMPUTE FRONTING_ADJ = EXP(      +          -.031579321655762  *
FR_SecondaryArtery).
COMPUTE TRAFFIC_ADJ = EXP(      +          -.041989654455415  * TrafficHeavy
+          -.026394456121045  * TrafficMedium).

COMPUTE SITEADJ = Water_ADJ * LOC_ADJ * FRONTING_ADJ * TRAFFIC_ADJ .
COMPUTE SUM_Acres = SUMLAND / 43560.

* COMPUTE TEMP1 = ESP_ECON * .40.
* IF(NBHD EQ 189)TEMP1 = ESP_ECON * .65.

* AGGREGATE
/OUTFILE = * MODEL=ADDVARIABLES
/BREAK = NBHD
/BaseValue = MEDIAN(TEMP1)
/LandSqftMedian = median(SUMLANDX).

IF(NBHD EQ 38)BaseValue = 204710.28661049430.
IF(NBHD EQ 40)BaseValue = 180021.50187326160.
IF(NBHD EQ 45)Basevalue = 181463.71121079900.
IF(NBHD EQ 46)Basevalue = 208050.92482775090.
IF(NBHD EQ 60)Basevalue = 186819.00234044570.
IF(NBHD EQ 61)BaseValue = 166127.39838860990.
IF(NBHD EQ 62)BaseValue = 183942.25212846730.

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IF(NBHD EQ 71)BaseValue = 162153.41405229740.  
IF(NBHD EQ 72)BaseValue = 197183.45477344500.  
IF(NBHD EQ 73)BaseValue = 189520.99348063880.  
IF(NBHD EQ 83)BaseValue = 196828.30582134920.  
IF(NBHD EQ 84)BaseValue = 177157.43385910410.  
IF(NBHD EQ 102)BaseValue = 239614.05538582950.  
IF(NBHD EQ 103)BaseValue = 199331.39705605270.  
IF(NBHD EQ 104)BaseValue = 198967.58172608310.  
IF(NBHD EQ 105)BaseValue = 206482.54139804350.  
IF(NBHD EQ 106)BaseValue = 247807.84499012840.  
IF(NBHD EQ 107)BaseValue = 197458.17066865860.  
IF(NBHD EQ 108)BaseValue = 197554.93912471480.  
IF(NBHD EQ 162)BaseValue = 188930.73887447410.  
IF(NBHD EQ 163)BaseValue = 215759.76387391050.  
IF(NBHD EQ 164)BaseValue = 191397.77708453190.  
IF(NBHD EQ 165)BaseValue = 195962.85992922910.  
IF(NBHD EQ 166)BaseValue = 214692.04320507370.  
IF(NBHD EQ 167)BaseValue = 190109.07104994770.  
IF(NBHD EQ 168)BaseValue = 167474.84438127800.  
IF(NBHD EQ 169)BaseValue = 197694.70297591860.  
IF(NBHD EQ 170)BaseValue = 193975.61825698910.  
IF(NBHD EQ 171)BaseValue = 209304.20414142780.  
IF(NBHD EQ 172)BaseValue = 208804.24948712440.  
IF(NBHD EQ 173)BaseValue = 215885.82622840350.  
IF(NBHD EQ 174)BaseValue = 235284.83344377810.  
IF(NBHD EQ 175)BaseValue = 272080.72780591850.  
IF(NBHD EQ 187)BaseValue = 362100.66490588740.  
IF(NBHD EQ 188)BaseValue = 247614.23045204030.  
IF(NBHD EQ 189)BaseValue = 699160.90521916380.  
IF(NBHD EQ 190)BaseValue = 323368.93460325750.  
IF(NBHD EQ 191)BaseValue = 263783.36051959230.  
IF(NBHD EQ 192)BaseValue = 238116.98729726820.  
IF(NBHD EQ 193)BaseValue = 216672.23803542220.  
IF(NBHD EQ 194)BaseValue = 235233.55384051510.  
IF(NBHD EQ 195)BaseValue = 218868.13697338260.  
IF(NBHD EQ 196)BaseValue = 453079.94912415420.  
IF(NBHD EQ 197)BaseValue = 269012.30065613250.  
IF(NBHD EQ 200)BaseValue = 222804.46526376220.  
IF(NBHD EQ 201)BaseValue = 190175.79637008370.  
IF(NBHD EQ 202)BaseValue = 306584.30013119350.  
IF(NBHD EQ 203)BaseValue = 151203.16614374660.  
IF(NBHD EQ 204)BaseValue = 311628.84402916580.  
IF(NBHD EQ 205)BaseValue = 316886.94217714610.  
IF(NBHD EQ 206)BaseValue = 304733.27059789500.  
IF(NBHD EQ 207)BaseValue = 394065.70946120770.  
IF(NBHD EQ 208)BaseValue = 179949.41674545580.  
IF(NBHD EQ 209)BaseValue = 211729.81899265560.

IF(NBHD EQ 38)LandSqftMedian = 5993.0.  
IF(NBHD EQ 40)LandSqftMedian = 4947.0.  
IF(NBHD EQ 45)LandSqftMedian = 5000.0.  
IF(NBHD EQ 46)LandSqftMedian = 6000.0.  
IF(NBHD EQ 60)LandSqftMedian = 6000.0.  
IF(NBHD EQ 61)LandSqftMedian = 4800.0.  
IF(NBHD EQ 62)LandSqftMedian = 5440.0.  
IF(NBHD EQ 71)LandSqftMedian = 6090.0.  
IF(NBHD EQ 72)LandSqftMedian = 5900.0.  
IF(NBHD EQ 73)LandSqftMedian = 5310.0.  
IF(NBHD EQ 83)LandSqftMedian = 5292.0.  
IF(NBHD EQ 84)LandSqftMedian = 4320.0.  
IF(NBHD EQ 102)LandSqftMedian = 6300.0.  
IF(NBHD EQ 103)LandSqftMedian = 6138.0.  
IF(NBHD EQ 104)LandSqftMedian = 6000.0.

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IF(NBHD EQ 105)LandSqftMedian = 6000.0.  
IF(NBHD EQ 106)LandSqftMedian = 6250.0.  
IF(NBHD EQ 107)LandSqftMedian = 6000.0.  
IF(NBHD EQ 108)LandSqftMedian = 6120.0.  
IF(NBHD EQ 162)LandSqftMedian = 6480.0.  
IF(NBHD EQ 163)LandSqftMedian = 6426.0.  
IF(NBHD EQ 164)LandSqftMedian = 6000.0.  
IF(NBHD EQ 165)LandSqftMedian = 5000.0.  
IF(NBHD EQ 166)LandSqftMedian = 6000.0.  
IF(NBHD EQ 167)LandSqftMedian = 4906.0.  
IF(NBHD EQ 168)LandSqftMedian = 4200.0.  
IF(NBHD EQ 169)LandSqftMedian = 6844.0.  
IF(NBHD EQ 170)LandSqftMedian = 5000.0.  
IF(NBHD EQ 171)LandSqftMedian = 5000.0.  
IF(NBHD EQ 172)LandSqftMedian = 5000.0.  
IF(NBHD EQ 173)LandSqftMedian = 5338.0.  
IF(NBHD EQ 174)LandSqftMedian = 6060.0.  
IF(NBHD EQ 175)LandSqftMedian = 7500.0.  
IF(NBHD EQ 187)LandSqftMedian = 4200.0.  
IF(NBHD EQ 188)LandSqftMedian = 6451.0.  
IF(NBHD EQ 189)LandSqftMedian = 6240.0.  
IF(NBHD EQ 190)LandSqftMedian = 7500.0.  
IF(NBHD EQ 191)LandSqftMedian = 4000.0.  
IF(NBHD EQ 192)LandSqftMedian = 3852.0.  
IF(NBHD EQ 193)LandSqftMedian = 4000.0.  
IF(NBHD EQ 194)LandSqftMedian = 4000.0.  
IF(NBHD EQ 195)LandSqftMedian = 1800.0.  
IF(NBHD EQ 196)LandSqftMedian = 6800.0.  
IF(NBHD EQ 197)LandSqftMedian = 4000.0.  
IF(NBHD EQ 200)LandSqftMedian = 6250.0.  
IF(NBHD EQ 201)LandSqftMedian = 5840.0.  
IF(NBHD EQ 202)LandSqftMedian = 6200.0.  
IF(NBHD EQ 203)LandSqftMedian = 4160.0.  
IF(NBHD EQ 204)LandSqftMedian = 6879.0.  
IF(NBHD EQ 205)LandSqftMedian = 6200.0.  
IF(NBHD EQ 206)LandSqftMedian = 7000.0.  
IF(NBHD EQ 207)LandSqftMedian = 7080.0.  
IF(NBHD EQ 208)LandSqftMedian = 4600.0.  
IF(NBHD EQ 209)LandSqftMedian = 6000.0.
```

FORMATS BaseValue LandSqftMedian (comma10).

COMPUTE Base50Rate = BaseValue / LandSqftMedian\*\*.50.

COMPUTE UnderwaterValue = 0.

```
IF(UNDERWATER_SF GT 0)UnderWaterValue = TRUNC(((UNDERWATER_SF**.50 * Base50Rate) *  
.20) / 100) * 100.
```

COMPUTE IssueWgt = 1.

```
IF(LandIssueSF_Sum GT 0)IssueWgt = (LandIssuePCTx * LandIssueSF) /  
(LandIssuePCT_ECONx * LandIssueSF_Sum).  
DESCRIPTIVES IssueWgt.
```

```
IF(LandIssueSF_Sum LT 1000 AND LandIssuePCT_ECONx GT .10)LandIssuePCT_ECONx = .10.  
COMPUTE LandIssueValue_ECON = 0.
```

```
IF(LandIssueSF_Sum GT 0)LandIssueValue_ECON = (LandIssueSF_Sum**.50 * Base50Rate) *  
LandIssuePCT_ECONx.  
EXECUTE.
```

COMPUTE LandIssueValue = TRUNC((LandIssueValue\_ECON \* IssueWgt) / 100) \* 100.

```
FORMATS UnderWaterValue LandIssueValue LandIssueValue_ECON (COMMA10.0).  
EXECUTE.
```

```
IF(SUMLANDX GT 0)Allocated50LandValue_ECON = TRUNC(SUMLANDX**.50 * Base50Rate *  
Page 20
```

Market 5 2021 Prediction Prognose.sps

```
SITEADJ).
IF(SUMLANDX GT 0 AND Discount EQ 1)Allocated50LandValue_ECON = TRUNC(SUMLANDX**.50 *  
(Base50Rate *.20) * SITEADJ).
RECODE Allocated50LandValue_ECON (SYSMIS = 0).
FORMATS Allocated50LandValue_ECON (COMMA10.0).
EXECUTE.

DO IF(SUMLANDX GT 0).
  COMPUTE PCT_LAND = RND(LANDSQFTX / SUMLANDX * 100) / 100.
  END IF.
  IF(PARCEL_TYPE EQ 'S')PCT_LAND = 1.
  IF(SUMLANDX EQ 0)PCT_LAND = 1.
  IF(LANDSQFTX NE SUMLANDX AND PCT_LAND LT .005 AND LANDSQFTX GT 100)PCT_LAND = .005.
  FORMATS PCT_LAND (F5.3).

  COMPUTE TMPLAND = (Allocated50LandValue_ECON * PCT_LAND) .
  IF(TMPLAND GE 100000)ESP_LAND = TRUNC(TMPLAND / 1000) * 1000.
  IF(TMPLAND LT 100000)ESP_LAND = TRUNC(TMPLAND / 100) * 100.
  * IF(ESP_LAND LT 1000)ESP_LAND = 1000.

  COMPUTE TOTAL_LAND_ECON = Allocated50LandValue_ECON + LandIssueValue_ECON.

  COMPUTE LAND_TOTAL = ESP_LAND + UnderwaterValue + LandIssueValue.
  IF(LAND_TOTAL LT 500)LAND_TOTAL = 500.
  FORMATS ESP_LAND UnderWaterValue LandIssueValue LAND_TOTAL TOTAL_LAND_ECON  
(COMMA10.0).

DESCRIPTIVES TMPLAND ESP_LAND UnderWaterValue LandIssueValue LAND_TOTAL  
TOTAL_LAND_ECON.

*****.
*      +          .109834978286095 * EXTWALL_CmntFbr.

DO IF(SFLA_ECON GT 0).
  COMPUTE ESP_ECON = EXP(13.102941587525470
    +          .106926545410187 * LN_LANDSIZERATIO1
    +          .048967042887536 * LN_LANDSIZERATIO2
    +          .191659223067459 * LN_Land410Ratio1
    +          .140446305265910 * LN_Land410Ratio2
    +          .243998679379678 * LN_SQFTXRATIO1
    +          .358063230689318 * LN_SQFTXRATIO2
    +          -.033263695513040 * LN_UPPERSF_RATIO
    +          -.067490993890936 * LN_AtticSF_RATIO
    +          .121071864179636 * LN_LIN_BSMTx_Ratio
    +          .073494359575809 * LN_RECBSMTx_RATIO
    +          .220667035632462 * LN_PCT_GOOD
    +          .027134816802257 * LN_LIN_GARx_RATIO
    +          .051474267305387 * LN_TerraceX_RATIO
    +          .008667971241088 * LN_PatioX_RATIO
    +          .020601160215762 * LN_LINPORCH_RATIO
    +          .017412586662872 * LN_WoodDeckX_RATIO
    +          .080802746717306 * LN_PoolX_RATIO
    +          .025107422440539 * LNFireplaceX
    +          .054104335795913 * LNFIXTOT
    +          .094015744277173 * ElevatedHome
    +          .122540325975811 * MultiRes
    +          -.167814710583681 * Religious
    +          -.020351805656126 * Ranch
    +          -.040346375907210 * RaisedRanch
    +          .015067844626258 * Colonial
    +          .033287537174201 * Contemporary
    +          -.044614976043795 * BungalowCottage
```

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```

+
+.241503560102506 * Townhouse
+.097650484043336 * G2_DuplexTriplex
+.075875433747645 * G2_Townhouse
+.086681037346435 * G4_BungalowCottage
+.075387633481050 * G4_Splanch
-.097596169794591 * G5_Townhouse
+.133037198468406 * G6_ModifiedRanch
+.084939053522044 * G6_BungalowCottage
+.036352954677502 * G9_BungalowCottage
+.061478898289567 * G9_DuplexTriplex
+.093086531979846 * QualEMinusQualDMinus
-.020493868045774 * QualDQualCMinus
+.016703115128938 * QualCPlus
+.083556589414939 * QualBMinus
+.088588168350325 * QualB
+.146702128376909 * QualBPlus
+.376488009136284 * QualAMinus
+.396955913903961 * QualAQuals
+.024706603834034 * EXTWALL_Stucco
-.008306757995094 * EXTWALL_Comp
+.024706603834034 * EXTWALL_CmntFbr
-.052145899282302 * BSMT_None
+.048223129080143 * HEAT_CntrlHtac
-.006213873501926 * HEATSYS_SteamVpr
-.054767384251865 * HEATSYS_PipelessNone
+.306152790556838 * Water_Bay
-0.09431067947124 * Water_Bay195
+.086156466589031 * Water_Canal
+.665497462141245 * Water_Ocean
+.081961441630169 * Water_WaterView
-.049524377514821 * LOC_MajorHighwayX
-.034705618973604 * LOC_LongIslandRailRoad
-.050313030144661 * LOC_CommercialOrIndustrialX
-.041679830011118 * LOC_ApartmentBuildingX
-.017229001604055 * LOC_School
+.045904634711877 * LOC_Park
-.119263954953450 * LOC_Cemetery
-.064056824508782 * LOC_AbuttsFireStationX
-.123056545419962 * LOC_Noise
-.031579321655762 * FR_SecondaryArtery
-.041989654455415 * TrafficHeavy
-.026394456121045 * TrafficMedium
+.065698597473202 * SUB59_1
-.288353229039426 * SUB59_2
+.257765840462499 * SUB58_1
-.099320930127662 * SUB58_2
-.038748725021878 * NBHD_38
-.072203055674828 * NBHD_40
-.058133884183662 * NBHD_45
-.058282345242392 * NBHD_46
-.139283453734724 * NBHD_60
-.143882317314687 * NBHD_61
-.132701509000538 * NBHD_62
-.167891297814922 * NBHD_71
-.065765483725533 * NBHD_72
-.052704765743223 * NBHD_73
-.070811999285270 * NBHD_83
+.014809846508034 * NBHD_102
-.028580709753623 * NBHD_105
+.143256301135588 * NBHD_106
-.047905470696213 * NBHD_162
+.019819530093879 * NBHD_163
-.041751117714904 * NBHD_164

```

```

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+
+.015494575810068 * NBHD_166
+.063044005658385 * NBHD_168
+.047125064505219 * NBHD_169
+.033780314618350 * NBHD_170
+.059492022921328 * NBHD_172
+.049457713897711 * NBHD_173
+.044234586096305 * NBHD_174
+.047777126264339 * NBHD_175
+.544636272596730 * NBHD_187
+.113860388044355 * NBHD_188
+.465683131477228 * NBHD_189
+.188993540614318 * NBHD_190
+.209050679521499 * NBHD_191
+.156123684702897 * NBHD_192
+.072323878537187 * NBHD_193
+.140286862643317 * NBHD_194
+.208091837529065 * NBHD_195
+.333669006040193 * NBHD_196
+.282247928759698 * NBHD_197
+.065036713522192 * NBHD_200
+.286438034664764 * NBHD_202
+-.126463357614475 * NBHD_203
+.174456362600525 * NBHD_204
+.212847183797581 * NBHD_205
+.152918802032998 * NBHD_206
+.366714029159306 * NBHD_207
+-.085151026152055 * NBHD_208
+.00117 * LnSFLA2)
1 * COST_RCNLDX.

END IF.

FORMATS ESP_ECON (COMMA10.0).

DO IF(PARCEL_TYPE EQ 'S').
COMPUTE RATIO = ESP_ECON / TASP.
COMPUTE RATIO2 = ESP_ECON / SOLDPRICE.
END IF.
EXECUTE.

INSERT FILE = !Predsyntax + 'Prognose\Market 5 2021 Coefficients.sps'
SYNTAX = INTERACTIVE
ERROR = STOP.

COMPUTE DIFF = ESP2 / ESP_ECON.
DESCRIPTIVES DIFF.

COMPUTE DIFF = ESP2 / ESP3.
DESCRIPTIVES DIFF.

IF(PCTCOMPLETE GT 0)CompletePercent = PCTCOMPLETE / 100.
RECODE CompletePercent (SYSMIS = 1).

DO IF(ESP_ECON GT 0).
COMPUTE Allocated50ImpValue_ECON = TRUNC(ESP_ECON - TOTAL_LAND_ECON).
* IF(Allocated50LandValue_ECON EQ 0)Allocated50ImpValue_ECON = TRUNC(ESP_ECON -
LandIssueValue_ECON).
END IF.
RECODE Allocated50ImpValue_ECON (SYSMIS = 0).

STRING Costvalue (A3).
COMPUTE CostValue = 'No'.
IF(Allocated50ImpValue_ECON LE 0)CostValue = 'Yes'.

```

```

Market 5 2021 Prediction Prognose.sps
COMPUTE IMP_COST_VALUE = TRUNC((RCNLD_P + ExtraImpsCost_P + COST_RCNLDX_P) / 1000)
* 1000.
FORMATS IMP_COST_VALUE (COMMA10.0).

DO IF(SFLA_ECON GT 0).
COMPUTE PCT_IMP = RND(SFLA / SFLA_ECON * 100)/ 100.
END IF.

COMPUTE ESP_IMP = TRUNC(Allocated50ImpValue_ECON * PCT_IMP * CompletePercent / 1000)
* 1000.
IF(Allocated50ImpValue_ECON LE 0 AND IMP_COST_VALUE GT 0)ESP_IMP = IMP_COST_VALUE *
PCT_IMP * CompletePercent.
IF(SFLA_ECON EQ 0)ESP_IMP = IMP_COST_VALUE * CompletePercent.
COMPUTE ESP_TOTAL = LAND_TOTAL + ESP_IMP.
FORMATS LAND_TOTAL ESP_LAND ESP_IMP ESP_TOTAL (COMMA10.0).
EXECUTE.

COMPUTE UseCost = 0.
COMPUTE LandOverride = 0.
COMPUTE ImpOverride = 0.
FORMATS LandOverride ImpOverride (COMMA10.0).

* Market 5.

IF(PARID EQ '35480 00020')UseCost = 1.
IF(PARID EQ '38396 01270')UseCost = 1.
IF(PARID EQ '59006 01670')UseCost = 1.

IF(PARID EQ '43042 02340')Landoverride = 2000000.
IF(PARID EQ '43042 02350')Landoverride = 400000.
IF(PARID EQ '38 G 10120')Landoverride = 3000000.

IF(UseCost EQ 1)CostValue = 'Yes'.

IF(LandOverride GT 0)ESP_LAND = TRUNC(LandOverride * PCT_LAND / 1000) * 1000.
IF(ImpOverride GT 0)ESP_IMP = TRUNC(ImpOverride * PCT_IMP * CompletePercent / 1000)
* 1000.
IF(UseCost EQ 1)ESP_IMP = IMP_COST_VALUE * CompletePercent.
COMPUTE ESP_TOTAL = LAND_TOTAL + ESP_IMP.
FORMATS ESP_LAND ESP_IMP ESP_TOTAL (COMMA10.0).

STRING QUAL_Text (A2).
RECODE QUAL (1 = 'E-')(2 = 'E')(3 = 'E+')(4 = 'D-')(5 = 'D')(6 = 'D+')(7 = 'C-')(8 =
'C')(9 = 'C+')
      (10 = 'B-')(11 = 'B')(12 = 'B+')(13 = 'A-')(14 = 'A')(15 = 'A+')(16 = 'X-')(17 =
'X')(18 = 'X+')
      (19 = 'S-')(20 = 'S')(21 = 'S+')(22 = 'Z-')(23 = 'Z')(24 = 'Z+') INTO
QUAL_Text.

STRING CDU_Text (A10).
RECODE CDU (1 = 'Unsound')(2 = 'Very Poor')(3 = 'Poor')(4 = 'Fair')(5 = 'Average')
(6 = 'Good')(7 = 'Very Good')(8 = 'Excellent') INTO CDU_Text.

STRING Style_Text (A25).
RECODE Style (1 = 'Ranch')(2 = 'Raised Ranch/Hi Ranch')(3 = 'Split Level')(4 =
'Modified Ranch')(5 = 'Cape')
      (6 = 'Colonial')(7 = 'Victorian')(8 = 'Contemporary')(9 = 'Old Style')(10 =
'Bungalow, Cottage')(11 = 'Duplex, Triplex')
      (12 = 'Mansion, Estate')(13 = 'Townhouse')(14 = 'Condo')(16 = 'Homowner
Assoc')(17 = 'Other')(18 = 'Splanch')
      (19 = 'Carriage House')(20 = 'Tudor')(22 = '22') INTO Style_Text.

* codebook luc.

```

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Market 5 2021 Prediction Prognose.sps
string LUC_Text (A20).
IF (ANY(LUC, "2100", "2101", "2102", "2150", "2500")) LUC_Text = 'One Family'.
IF (LUC EQ "2200") LUC_Text = 'Two Family'.
IF (LUC EQ "2300") LUC_Text = 'Three Family'.
IF (LUC EQ "2800") LUC_Text = 'Multi Residential'.
IF(LUC_NUM GE 3000 AND LUC_NUM LT 4000) LUC_Text = 'Vacant Land'.
IF (LUC EQ "4830") LUC_Text = 'Converted Residence'.
IF(LUC_NUM GE 6000) LUC_Text = 'Exempt'.
* alter type LUC_Text (amin).

* codebook extwall.
string EXTWALL_Text (A20).
IF (EXTWALL EQ 1) EXTWALL_Text = 'Frame'.
IF (EXTWALL EQ 2) EXTWALL_Text = 'Brick'.
IF (EXTWALL EQ 3) EXTWALL_Text = 'Mas/Frame'.
IF (EXTWALL EQ 4) EXTWALL_Text = 'Conc Blk'.
IF (EXTWALL EQ 5) EXTWALL_Text = 'Stucco'.
IF (EXTWALL EQ 6) EXTWALL_Text = 'Alum/Vinyl'.
IF (EXTWALL EQ 7) EXTWALL_Text = 'Stone'.
IF (EXTWALL EQ 8) EXTWALL_Text = 'Composition'.
IF (EXTWALL EQ 9) EXTWALL_Text = 'Masonry'.
IF (EXTWALL EQ 10) EXTWALL_Text = 'Log'.
IF (EXTWALL EQ 11) EXTWALL_Text = 'Cement Fiber'.
* alter type EXTWALL_Text (amin).

* codebook bsmt.
string Basement_Text (a20).
IF (BSMT EQ 0) Basement_Text = 'None'.
IF (BSMT EQ 1) Basement_Text = '1/4 Bsmt/slab'.
IF (BSMT EQ 2) Basement_Text = '1/2 Bsmt/Crawl'.
IF (BSMT EQ 3) Basement_Text = '3/4 Bsmt'.
IF (BSMT EQ 4) Basement_Text = 'Full'.
* alter type Basement_Text (amin).

* codebook heat.
string Heat_Text (a10).
IF (HEAT EQ 0) Heat_Text = 'N/A'.
IF (HEAT EQ 1) Heat_Text = 'None'.
IF (HEAT EQ 2) Heat_Text = 'Non-Cntrl'.
IF (HEAT EQ 3) Heat_Text = 'Cntrl Ht'.
IF (HEAT EQ 4) Heat_Text = 'Cntrl HtAC'.
* alter type Heat_Text (amin).

* codebook fuel.
string Fuel_Text (a15).
IF (FUEL EQ 0) Fuel_Text = 'N/A'.
IF (FUEL EQ 1) Fuel_Text = 'Oil'.
IF (FUEL EQ 2) Fuel_Text = 'Coal Stk'.
IF (FUEL EQ 3) Fuel_Text = 'Gas'.
IF (FUEL EQ 4) Fuel_Text = 'Coal Hnd'.
IF (FUEL EQ 5) Fuel_Text = 'Solar'.
IF (FUEL EQ 6) Fuel_Text = 'Elec'.
IF (FUEL EQ 7) Fuel_Text = 'Other'.
IF (FUEL EQ 8) Fuel_Text = 'Geothermal'.
* alter type Fuel_Text (amin).

* codebook heatsys.
string Heatsys_Text (a15).
IF (HEATSYS EQ 0) Heatsys_Text = 'N/A'.
IF (HEATSYS EQ 1) Heatsys_Text = 'Steam/vapor'.
IF (HEATSYS EQ 2) Heatsys_Text = 'Hot Wtr'.
IF (HEATSYS EQ 3) Heatsys_Text = 'Elec/Solar'.
IF (HEATSYS EQ 4) Heatsys_Text = 'Forced Air'.

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Market 5 2021 Prediction Prognose.sps
IF (HEATSYS EQ 5) Heatsys_Text = 'Central AC'.
IF (HEATSYS EQ 6) Heatsys_Text = 'N/A'.
IF (HEATSYS EQ 7) Heatsys_Text = 'Hot Air'.
IF (HEATSYS EQ 8) Heatsys_Text = 'Pipeless'.
IF (HEATSYS EQ 9) Heatsys_Text = 'None'.
* alter type Heatsys_Text (amin).
* EXECUTE.

FORMATS AttBltGar DETGARX CARPORTx (COMMA10.0).

STRING Parking_Text (A100).
IF (AttBltGar GT 0)Parking_Text =
CONCAT('Att-',LTRIM(RTRIM(STRING(AttBltGar,F10))))..
IF (DETGARX GT 0)Parking_Text =
CONCAT(LTRIM(RTRIM(Parking_Text)), '/', 'Det-',LTRIM(RTRIM(STRING(DETGARX,F10))))..
IF (CARPORTx GT 0)Parking_Text =
CONCAT(LTRIM(RTRIM(Parking_Text)), '/', 'Cpt-',LTRIM(RTRIM(STRING(CARPORTx,F10))))..
IF (CHAR.SUBSTR(Parking_Text,1,1) EQ '/')Parking_Text = CHAR.SUBSTR(Parking_Text,2).
ALTER TYPE Parking_Text (AMIN).

STRING Porch_Text (A100).
IF (OpenPorchX GT 0)Porch_Text = CONCAT('Op-',LTRIM(RTRIM(STRING(OpenPorchX,F10))))..
IF (EnclPorchX GT 0)Porch_Text =
CONCAT(LTRIM(RTRIM(Porch_Text)), '/', 'Ep-',LTRIM(RTRIM(STRING(EnclPorchX,F10))))..
IF (CHAR.SUBSTR(Porch_Text,1,1) EQ '/')Porch_Text = CHAR.SUBSTR(Porch_Text,2).
ALTER TYPE Parking_Text (AMIN).

STRING TerracePatio_Text (A100).
IF (TerraceX GT 0)TerracePatio_Text =
CONCAT('Ter-',LTRIM(RTRIM(STRING(TerraceX,F10))))..
IF (PatioX GT 0)TerracePatio_Text =
CONCAT(LTRIM(RTRIM(TerracePatio_Text)), '/', 'Pto-',LTRIM(RTRIM(STRING(PatioX,F10))))..
IF (CHAR.SUBSTR(TerracePatio_Text,1,1) EQ '/')TerracePatio_Text =
CHAR.SUBSTR(TerracePatio_Text,2).
ALTER TYPE Parking_Text (AMIN).

STRING ElevatedHome_Text (A3).
RECODE ElevatedHome (1 = 'Yes')(ELSE = 'No') INTO ElevatedHome_Text.

STRING YRBLT_Text (A12).
COMPUTE YRBLT_Text =
CONCAT(STRING(YRBLT,F4.0), '-', LTRIM(STRING((PCT_GOOD_ADJ*100),F6.2)))..
EXECUTE.

STRING BATH_Text (A15).
COMPUTE BATH_Text =
CONCAT(LTRIM(RTRIM(STRING(FIXBATH,F4.0))), '-', LTRIM(RTRIM(STRING(FIXHALF,F4.0))), '-').
, LTRIM(RTRIM(STRING(FIXTOT,F4.0))))..
EXECUTE.

SAVE OUTFILE !ModelData5 + 'PREDICTION.SAV'.

```

Market 6 2021 Prediction Prognose.sps

\* Encoding: UTF-8.

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\*\*\*\*\*  
\*\*\*\*\* MARKET 6 REGRESSION  
ANALYSIS\*\*\*\*\*

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GET FILE= !ModelData6 + 'MARKET 6 RESIDENTIAL MASTER POPULATION WITH SALES FOR  
PROGNOSIS.sav'.  
DATASET NAME DataSet1 WINDOW=FRONT.

\* SELECT IF(SFLA\_ECON GT 0). /\* HAVE A DOWNLOAD PROBLEM WITH ASSOCIATED PARCELS ON  
SALES.

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\* SELECT IF(PARCEL\_TYPE EQ 'S').

DO IF(PARCEL\_TYPE EQ 'P' AND SFLA\_ECON GT 0).  
COMPUTE VPPSF = TOTAPR1 / SFLA\_ECON.  
END IF.  
DO IF(PARCEL\_TYPE EQ 'S' AND SFLA\_ECON GT 0).  
COMPUTE SPPSF = SOLDPRICE / SFLA\_ECON.  
END IF.  
EXECUTE.

FORMATS VPPSF SPPSF (F16.2).

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\*

\* COMPUTE OUT2 = OUT.

\* INSERT FILE = !ModelSyntax6 + 'Market 6 outliers.sps'  
SYNTAX = INTERACTIVE  
ERROR = STOP.

\* IF(OUT EQ 1 AND SALEVAL NE 'J')ValidityCode = 'Invalid'.  
\* IF(OUT EQ 2)ValidityCode = 'Invalid'.  
\* IF(OUT EQ 3)ValidityCode = 'Invalid'.

COMPUTE KEEP = 1.  
IF(ValidityCode EQ 'Invalid' AND PARCEL\_TYPE EQ 'S')KEEP = 0.

Market 6 2021 Prediction Prognose.sps

```
* CROSSTABS KEEP BY PARCEL_TYPE.  
* SELECT IF(KEEP EQ 1).  
EXECUTE.  
* DELETE VARIABLES KEEP.  
* EXECUTE.  
*****  
*.  
*.  
*.  
*.  
*.  
*.  
*.  
  
STRING NBHDGroup (A50).  
COMPUTE NBHDGroup = NBHD_LAbel.  
DO IF(NBHD GT 0 AND CHAR.INDEX(NBHD_LAbel,"-") GT 0).  
COMPUTE NBHDGroup = LTRIM(RTRIM(CHAR.SUBSTR(NBHD_LAbel,1,(CHAR.INDEX(NBHD_LAbel,"-") - 1)))).  
END IF.  
DO IF(INDEX(NBHD_LAbel,"(") GT 0 AND NBHD GT 0).  
COMPUTE NBHDGroup = LTRIM(RTRIM(CHAR.SUBSTR(NBHD_LAbel,1,(CHAR.INDEX(NBHD_LAbel,"(") - 1)))).  
END IF.  
* FREQUENCIES NBHDGroup.  
  
IF (NBHDGROUP EQ 'Amityville' OR NBHDGROUP EQ 'Freeport') NBHDGROUP = 'Amityville,  
Freeport'.  
* FREQUENCIES NBHDGroup.  
  
*Run this the first time and then comment it out and use the second one.  
* AUTORECODE VARIABLES=NBDGroup  
/INTO NBHDGroupNum  
/SAVE TEMPLATE= !ModelSyntax6 + 'NBHD Desc Template.sat'  
/PRINT.  
  
* AUTORECODE VARIABLES=NBDGroup  
/INTO NBHDGroupNum  
/APPLY TEMPLATE= !ModelSyntax6 + 'NBHD Desc Template.sat'  
/PRINT.  
  
RECODE NBHDGroup ('Amityville, Freeport' = 1)('Baldwin' = 2)('Bellmore' =  
3)('Massapequa' = 4)('Merrick' = 5)  
('North Bellmore' = 6)('North Merrick' = 7)('Seaford' = 8)('Wantagh'  
= 9) INTO NBHDGroupNum.  
VALUE LABELS NBHDGroupNum  
1 'Amityville, Freeport'  
2 'Baldwin'  
3 'Bellmore'  
4 'Massapequa'  
5 'Merrick'  
6 'North Bellmore'  
7 'North Merrick'  
8 'Seaford'  
9 'Wantagh'.  
*****  
*.  
*.  
*.  
*.  
*****
```

Market 6 2021 Prediction Prognose.sps

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\*.

COMPUTE TGROUP = NBHDGroupNum.

string tgrouplabel (a250).

recode nbhdgroupnum (1, 4 = '1 Amityville\nFreeport')(2 = '2 Baldwin')(3 = '3 Bellmore')(4 = '4 Massapequa')(5 = '5 Merrick')(6 = '6 North Bellmore')(7 = '7 North Merrick')(8 = '8 Seaford')(9 = '9 Wantagh') into tgrouplabel.

execute.

alter type tgrouplabel (a = amin).

\* FREQUENCIES TGROUPlabel.

IF (NBHD EQ 43)TGROUP EQ 43.

IF (NBHD EQ 52)TGROUP EQ 52.

IF (NBHD EQ 53)TGROUP EQ 53.

IF (NBHD EQ 54)TGROUP EQ 54.

IF (NBHD EQ 57)TGROUP EQ 57.

IF (NBHD EQ 58)TGROUP EQ 58.

IF (NBHD EQ 59)TGROUP EQ 59.

IF (NBHD EQ 88)TGROUP EQ 88.

IF (NBHD EQ 89)TGROUP EQ 89.

IF (NBHD EQ 92)TGROUP EQ 92.

IF (NBHD EQ 93)TGROUP EQ 93.

IF (NBHD EQ 114)TGROUP EQ 114.

IF (NBHD EQ 120)TGROUP EQ 120.

IF (NBHD EQ 122)TGROUP EQ 122.

IF (NBHD EQ 128)TGROUP EQ 128.

IF (NBHD EQ 131)TGROUP EQ 131.

IF (NBHD EQ 133)TGROUP EQ 133.

IF (NBHD EQ 134)TGROUP EQ 134.

\* CROSSTABS SMONTH BY SYEAR.

DO IF(SYEAR GT 0).

COMPUTE SDATE = DATE.MOYR(SMONTH,SYEAR).

END IF.

EXECUTE.

FORMATS SDATE (MOYR6).

\*\*\*\*\*

\*

\*\*\*\*\*

\*

\*ENTER YOUR STARTING DATE, BASE VALUATION DATE - FORMAT IS MONTH THEN YEAR.

COMPUTE STARTDATE = DATE.MOYR(1,2012).

COMPUTE BASEDATE = DATE.MOYR(12, 2018).

COMPUTE TIMEPERIOD = DATEDIFF(BASEDATE,STARTDATE,"MONTHS") .

COMPUTE MONTHS = DATEDIFF(SDATE,STARTDATE,"MONTHS") .

COMPUTE MONTH = TIMEPERIOD - MONTHS.

EXECUTE .

COMPUTE SPLINEDATE1 = BASEDATE.

COMPUTE SPLINEDATE2 = BASEDATE.

COMPUTE SPLINEDATE3 = BASEDATE.

COMPUTE SPLINEDATE4 = BASEDATE.

COMPUTE SPLINEDATE5 = BASEDATE.

COMPUTE SPLINEDATE6 = BASEDATE.

DO IF(ANY(TGROUP,1)).

COMPUTE SPLINEDATE1 = DATE.MOYR(5, 2014).

COMPUTE SPLINEDATE2 = DATE.MOYR(6, 2015).

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```
COMPUTE SPLINEDATE3 = DATE.MOYR(8, 2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(5, 2017).
COMPUTE SPLINEDATE5 = DATE.MOYR(7, 2018).
END IF.
```

```
DO IF(ANY(TGROUP, 2)).
COMPUTE SPLINEDATE1 = DATE.MOYR(2, 2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(10, 2015).
COMPUTE SPLINEDATE3 = DATE.MOYR(4, 2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(1, 2017).
COMPUTE SPLINEDATE5 = DATE.MOYR(7, 2018).
END IF.
```

```
DO IF(ANY(TGROUP, 3)).
COMPUTE SPLINEDATE1 = DATE.MOYR(10, 2013).
COMPUTE SPLINEDATE2 = DATE.MOYR(3, 2015).
COMPUTE SPLINEDATE3 = DATE.MOYR(1, 2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(3, 2017).
COMPUTE SPLINEDATE5 = DATE.MOYR(7, 2018).
END IF.
```

```
DO IF(ANY(TGROUP, 4)).
COMPUTE SPLINEDATE1 = DATE.MOYR(12, 2013).
COMPUTE SPLINEDATE2 = DATE.MOYR(3, 2015).
COMPUTE SPLINEDATE3 = DATE.MOYR(1, 2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(12, 2016).
COMPUTE SPLINEDATE5 = DATE.MOYR(7, 2018).
END IF.
```

```
DO IF(ANY(TGROUP, 5)).
COMPUTE SPLINEDATE1 = DATE.MOYR(5, 2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(12, 2015).
COMPUTE SPLINEDATE3 = DATE.MOYR(11, 2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).
END IF.
```

```
DO IF(ANY(TGROUP, 6)).
COMPUTE SPLINEDATE1 = DATE.MOYR(6, 2013).
COMPUTE SPLINEDATE2 = DATE.MOYR(5, 2014).
COMPUTE SPLINEDATE3 = DATE.MOYR(1, 2015).
COMPUTE SPLINEDATE4 = DATE.MOYR(11, 2015).
COMPUTE SPLINEDATE5 = DATE.MOYR(1, 2017).
COMPUTE SPLINEDATE6 = DATE.MOYR(7, 2018).
END IF.
```

```
DO IF(ANY(TGROUP, 7)).
COMPUTE SPLINEDATE1 = DATE.MOYR(7, 2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(12, 2015).
COMPUTE SPLINEDATE3 = DATE.MOYR(10, 2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).
END IF.
```

```
DO IF(ANY(TGROUP, 8)).
COMPUTE SPLINEDATE1 = DATE.MOYR(3, 2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(1, 2016).
COMPUTE SPLINEDATE3 = DATE.MOYR(9, 2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(3, 2017).
COMPUTE SPLINEDATE5 = DATE.MOYR(7, 2018).
END IF.
```

```
DO IF(ANY(TGROUP, 9)).
COMPUTE SPLINEDATE1 = DATE.MOYR(1, 2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(2, 2015).
```

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```
COMPUTE SPLINEDATE3 = DATE.MOYR(1, 2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(12, 2016).
COMPUTE SPLINEDATE5 = DATE.MOYR(7, 2018).
END IF.
```

```
DO IF(ANY(TGROUP, 43)).
COMPUTE SPLINEDATE1 = DATE.MOYR(1, 2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(1, 2015).
COMPUTE SPLINEDATE3 = DATE.MOYR(11, 2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).
END IF.
```

```
DO IF(ANY(TGROUP, 52)).
COMPUTE SPLINEDATE1 = DATE.MOYR(1, 2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(2, 2017).
COMPUTE SPLINEDATE3 = DATE.MOYR(7, 2018).
END IF.
```

```
DO IF(ANY(TGROUP, 53)).
COMPUTE SPLINEDATE1 = DATE.MOYR(1, 2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(12, 2015).
COMPUTE SPLINEDATE3 = DATE.MOYR(1, 2017).
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).
END IF.
```

```
DO IF(ANY(TGROUP, 54)).
COMPUTE SPLINEDATE1 = DATE.MOYR(5, 2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(3, 2015).
COMPUTE SPLINEDATE3 = DATE.MOYR(9, 2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).
END IF.
```

```
DO IF(ANY(TGROUP, 57)).
COMPUTE SPLINEDATE1 = DATE.MOYR(3, 2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(1, 2016).
COMPUTE SPLINEDATE3 = DATE.MOYR(12, 2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).
END IF.
```

```
DO IF(ANY(TGROUP, 58)).
COMPUTE SPLINEDATE1 = DATE.MOYR(12, 2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(1, 2016).
COMPUTE SPLINEDATE3 = DATE.MOYR(1, 2017).
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).
END IF.
```

```
DO IF(ANY(TGROUP, 59)).
COMPUTE SPLINEDATE1 = DATE.MOYR(10, 2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(10, 2015).
COMPUTE SPLINEDATE3 = DATE.MOYR(5, 2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).
END IF.
```

```
DO IF(ANY(TGROUP, 88)).
COMPUTE SPLINEDATE1 = DATE.MOYR(1, 2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(12, 2015).
COMPUTE SPLINEDATE3 = DATE.MOYR(12, 2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).
END IF.
```

```
DO IF(ANY(TGROUP, 89)).
COMPUTE SPLINEDATE1 = DATE.MOYR(2, 2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(1, 2015).
```

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```
COMPUTE SPLINEDATE3 = DATE.MOYR(11,2015).
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).
END IF.

DO IF(ANY(TGROUP,92)).
COMPUTE SPLINEDATE1 = DATE.MOYR(9,2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(9,2015).
COMPUTE SPLINEDATE3 = DATE.MOYR(10,2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).
END IF.

DO IF(ANY(TGROUP,93)).
COMPUTE SPLINEDATE1 = DATE.MOYR(6,2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(6,2015).
COMPUTE SPLINEDATE3 = DATE.MOYR(10,2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).
END IF.

DO IF(ANY(TGROUP,114)).
COMPUTE SPLINEDATE1 = DATE.MOYR(10,2013).
COMPUTE SPLINEDATE2 = DATE.MOYR(12,2015).
COMPUTE SPLINEDATE3 = DATE.MOYR(1,2017).
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).
END IF.

DO IF(ANY(TGROUP,120)).
COMPUTE SPLINEDATE1 = DATE.MOYR(6,2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(10,2015).
COMPUTE SPLINEDATE3 = DATE.MOYR(2,2017).
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).
END IF.

DO IF(ANY(TGROUP,122)).
COMPUTE SPLINEDATE1 = DATE.MOYR(6,2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(7,2015).
COMPUTE SPLINEDATE3 = DATE.MOYR(12,2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).
END IF.

DO IF(ANY(TGROUP,128)).
COMPUTE SPLINEDATE1 = DATE.MOYR(12,2013).
COMPUTE SPLINEDATE2 = DATE.MOYR(1,2015).
COMPUTE SPLINEDATE3 = DATE.MOYR(10,2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).
END IF.

DO IF(ANY(TGROUP,131)).
COMPUTE SPLINEDATE1 = DATE.MOYR(1,2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(4,2015).
COMPUTE SPLINEDATE3 = DATE.MOYR(9,2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).
END IF.

DO IF(ANY(TGROUP,133)).
COMPUTE SPLINEDATE1 = DATE.MOYR(6,2013).
COMPUTE SPLINEDATE2 = DATE.MOYR(10,2014).
COMPUTE SPLINEDATE3 = DATE.MOYR(2,2016).
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).
END IF.

DO IF(ANY(TGROUP,134)).
COMPUTE SPLINEDATE1 = DATE.MOYR(1,2014).
COMPUTE SPLINEDATE2 = DATE.MOYR(12,2014).
```

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```
COMPUTE SPLINEDATE3 = DATE.MOYR(2,2016).  
COMPUTE SPLINEDATE4 = DATE.MOYR(7, 2018).  
END IF.
```

```
FORMATS STARTDATE BASEDATE SPLINEDATE1 SPLINEDATE2 SPLINEDATE3 SPLINEDATE4  
SPLINEDATE5 SPLINEDATE6 (DATE9).
```

```
COMPUTE SPLINE_DIFF1 = DATEDIFF(SPLINEDATE1,STARTDATE,"MONTHS") .  
COMPUTE SPLINE_DIFF2 = DATEDIFF(SPLINEDATE2,STARTDATE,"MONTHS") .  
COMPUTE SPLINE_DIFF3 = DATEDIFF(SPLINEDATE3,STARTDATE,"MONTHS") .  
COMPUTE SPLINE_DIFF4 = DATEDIFF(SPLINEDATE4,STARTDATE,"MONTHS") .  
COMPUTE SPLINE_DIFF5 = DATEDIFF(SPLINEDATE5,STARTDATE,"MONTHS") .  
COMPUTE SPLINE_DIFF6 = DATEDIFF(SPLINEDATE6,STARTDATE,"MONTHS") .
```

```
COMPUTE MONTHS1 = MONTHS.  
IF(MONTHS GT SPLINE_DIFF1)MONTHS1 = SPLINE_DIFF1.  
COMPUTE MONTHS2 = MONTHS - SPLINE_DIFF1.  
RECODE MONTHS2 (LO THRU 0 = 0).  
IF(MONTHS GT SPLINE_DIFF2)MONTHS2 = SPLINE_DIFF2 - SPLINE_DIFF1.  
COMPUTE MONTHS3 = MONTHS - SPLINE_DIFF2 .  
RECODE MONTHS3 (LO THRU 0 = 0).  
IF(MONTHS GT SPLINE_DIFF3)MONTHS3 = SPLINE_DIFF3 - SPLINE_DIFF2.  
COMPUTE MONTHS4 = MONTHS - SPLINE_DIFF3 .  
RECODE MONTHS4 (LO THRU 0 = 0).  
IF(MONTHS GT SPLINE_DIFF4)MONTHS4 = SPLINE_DIFF4 - SPLINE_DIFF3.  
COMPUTE MONTHS5 = MONTHS - SPLINE_DIFF4 .  
RECODE MONTHS5 (LO THRU 0 = 0).  
IF(MONTHS GT SPLINE_DIFF5)MONTHS5 = SPLINE_DIFF5 - SPLINE_DIFF4.  
COMPUTE MONTHS6 = MONTHS - SPLINE_DIFF5 .  
RECODE MONTHS6 (LO THRU 0 = 0).  
IF(MONTHS GT SPLINE_DIFF6)MONTHS6 = SPLINE_DIFF6 - SPLINE_DIFF5.  
COMPUTE MONTHS7 = MONTHS - SPLINE_DIFF6 .  
RECODE MONTHS7 (LO THRU 0 = 0).
```

```
COMPUTE SPLINE = 1.  
IF(MONTHS2 GT 0)SPLINE = 2.  
IF(MONTHS3 GT 0)SPLINE = 3.  
IF(MONTHS4 GT 0)SPLINE = 4.  
IF(MONTHS5 GT 0)SPLINE = 5.  
IF(MONTHS6 GT 0)SPLINE = 6.  
IF(MONTHS7 GT 0)SPLINE = 7.  
FREQUENCIES SPLINE.
```

```
COMPUTE MONTH1 = SPLINE_DIFF1 - MONTHS1.  
COMPUTE MONTH2 = (SPLINE_DIFF2 - SPLINE_DIFF1) - MONTHS2.  
COMPUTE MONTH3 = (SPLINE_DIFF3 - SPLINE_DIFF2) - MONTHS3.  
COMPUTE MONTH4 = (SPLINE_DIFF4 - SPLINE_DIFF3) - MONTHS4.  
COMPUTE MONTH5 = (SPLINE_DIFF5 - SPLINE_DIFF4) - MONTHS5.  
COMPUTE MONTH6 = (SPLINE_DIFF6 - SPLINE_DIFF5) - MONTHS6.  
COMPUTE MONTH7 = (TIMEPERIOD - SPLINE_DIFF6) - MONTHS7.
```

```
* IF(TGROUP EQ 1)MONTHS1_1 = MONTHS1.  
* IF(TGROUP EQ 1)MONTHS2_1 = MONTHS2.  
* IF(TGROUP EQ 1)MONTHS3_1 = MONTHS3.  
* IF(TGROUP EQ 1)MONTHS4_1 = MONTHS4.  
* IF(TGROUP EQ 1)MONTHS5_1 = MONTHS5.  
  
* IF(TGROUP EQ 2)MONTHS1_2 = MONTHS1.  
* IF(TGROUP EQ 2)MONTHS2_2 = MONTHS2.  
* IF(TGROUP EQ 2)MONTHS3_2 = MONTHS3.  
* IF(TGROUP EQ 2)MONTHS4_2 = MONTHS4.  
* IF(TGROUP EQ 2)MONTHS5_2 = MONTHS5.
```

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```
* IF(TGROUP EQ 3)MONTHS1_3 = MONTHS1.  
* IF(TGROUP EQ 3)MONTHS2_3 = MONTHS2.  
* IF(TGROUP EQ 3)MONTHS3_3 = MONTHS3.  
* IF(TGROUP EQ 3)MONTHS4_3 = MONTHS4.  
* IF(TGROUP EQ 3)MONTHS5_3 = MONTHS5.  
  
* IF(TGROUP EQ 4)MONTHS1_4 = MONTHS1.  
* IF(TGROUP EQ 4)MONTHS2_4 = MONTHS2.  
* IF(TGROUP EQ 4)MONTHS3_4 = MONTHS3.  
* IF(TGROUP EQ 4)MONTHS4_4 = MONTHS4.  
* IF(TGROUP EQ 4)MONTHS5_4 = MONTHS5.  
* IF(TGROUP EQ 4)MONTHS6_4 = MONTHS6.  
  
* IF(TGROUP EQ 5)MONTHS1_5 = MONTHS1.  
* IF(TGROUP EQ 5)MONTHS2_5 = MONTHS2.  
* IF(TGROUP EQ 5)MONTHS3_5 = MONTHS3.  
* IF(TGROUP EQ 5)MONTHS4_5 = MONTHS4.  
  
* IF(TGROUP EQ 6)MONTHS1_6 = MONTHS1.  
* IF(TGROUP EQ 6)MONTHS2_6 = MONTHS2.  
* IF(TGROUP EQ 6)MONTHS3_6 = MONTHS3.  
* IF(TGROUP EQ 6)MONTHS4_6 = MONTHS4.  
* IF(TGROUP EQ 6)MONTHS5_6 = MONTHS5.  
* IF(TGROUP EQ 6)MONTHS6_6 = MONTHS6.  
  
* IF(TGROUP EQ 7)MONTHS1_7 = MONTHS1.  
* IF(TGROUP EQ 7)MONTHS2_7 = MONTHS2.  
* IF(TGROUP EQ 7)MONTHS3_7 = MONTHS3.  
* IF(TGROUP EQ 7)MONTHS4_7 = MONTHS4.  
  
* IF(TGROUP EQ 8)MONTHS1_8 = MONTHS1.  
* IF(TGROUP EQ 8)MONTHS2_8 = MONTHS2.  
* IF(TGROUP EQ 8)MONTHS3_8 = MONTHS3.  
* IF(TGROUP EQ 8)MONTHS4_8 = MONTHS4.  
* IF(TGROUP EQ 8)MONTHS5_8 = MONTHS5.  
  
* IF(TGROUP EQ 9)MONTHS1_9 = MONTHS1.  
* IF(TGROUP EQ 9)MONTHS2_9 = MONTHS2.  
* IF(TGROUP EQ 9)MONTHS3_9 = MONTHS3.  
* IF(TGROUP EQ 9)MONTHS4_9 = MONTHS4.  
* IF(TGROUP EQ 9)MONTHS5_9 = MONTHS5.  
  
* IF(TGROUP EQ 43)MONTHS1_43 = MONTHS1.  
* IF(TGROUP EQ 43)MONTHS2_43 = MONTHS2.  
* IF(TGROUP EQ 43)MONTHS3_43 = MONTHS3.  
* IF(TGROUP EQ 43)MONTHS4_43 = MONTHS4.  
  
* IF(TGROUP EQ 52)MONTHS1_52 = MONTHS1.  
* IF(TGROUP EQ 52)MONTHS2_52 = MONTHS2.  
* IF(TGROUP EQ 52)MONTHS3_52 = MONTHS3.  
  
* IF(TGROUP EQ 53)MONTHS1_53 = MONTHS1.  
* IF(TGROUP EQ 53)MONTHS2_53 = MONTHS2.  
* IF(TGROUP EQ 53)MONTHS3_53 = MONTHS3.  
* IF(TGROUP EQ 53)MONTHS4_53 = MONTHS4.  
  
* IF(TGROUP EQ 54)MONTHS1_54 = MONTHS1.  
* IF(TGROUP EQ 54)MONTHS2_54 = MONTHS2.  
* IF(TGROUP EQ 54)MONTHS3_54 = MONTHS3.  
* IF(TGROUP EQ 54)MONTHS4_54 = MONTHS4.  
  
* IF(TGROUP EQ 57)MONTHS1_57 = MONTHS1.  
* IF(TGROUP EQ 57)MONTHS2_57 = MONTHS2.
```

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```
* IF(TGROUP EQ 57)MONTHS3_57 = MONTHS3.  
* IF(TGROUP EQ 57)MONTHS4_57 = MONTHS4.  
  
* IF(TGROUP EQ 58)MONTHS1_58 = MONTHS1.  
* IF(TGROUP EQ 58)MONTHS2_58 = MONTHS2.  
* IF(TGROUP EQ 58)MONTHS3_58 = MONTHS3.  
* IF(TGROUP EQ 58)MONTHS4_58 = MONTHS4.  
  
* IF(TGROUP EQ 59)MONTHS1_59 = MONTHS1.  
* IF(TGROUP EQ 59)MONTHS2_59 = MONTHS2.  
* IF(TGROUP EQ 59)MONTHS3_59 = MONTHS3.  
* IF(TGROUP EQ 59)MONTHS4_59 = MONTHS4.  
  
* IF(TGROUP EQ 88)MONTHS1_88 = MONTHS1.  
* IF(TGROUP EQ 88)MONTHS2_88 = MONTHS2.  
* IF(TGROUP EQ 88)MONTHS3_88 = MONTHS3.  
* IF(TGROUP EQ 88)MONTHS4_88 = MONTHS4.  
  
* IF(TGROUP EQ 89)MONTHS1_89 = MONTHS1.  
* IF(TGROUP EQ 89)MONTHS2_89 = MONTHS2.  
* IF(TGROUP EQ 89)MONTHS3_89 = MONTHS3.  
* IF(TGROUP EQ 89)MONTHS4_89 = MONTHS4.  
  
* IF(TGROUP EQ 92)MONTHS1_92 = MONTHS1.  
* IF(TGROUP EQ 92)MONTHS2_92 = MONTHS2.  
* IF(TGROUP EQ 92)MONTHS3_92 = MONTHS3.  
* IF(TGROUP EQ 92)MONTHS4_92 = MONTHS4.  
  
* IF(TGROUP EQ 93)MONTHS1_93 = MONTHS1.  
* IF(TGROUP EQ 93)MONTHS2_93 = MONTHS2.  
* IF(TGROUP EQ 93)MONTHS3_93 = MONTHS3.  
* IF(TGROUP EQ 93)MONTHS4_93 = MONTHS4.  
  
* IF(TGROUP EQ 114)MONTHS1_114 = MONTHS1.  
* IF(TGROUP EQ 114)MONTHS2_114 = MONTHS2.  
* IF(TGROUP EQ 114)MONTHS3_114 = MONTHS3.  
* IF(TGROUP EQ 114)MONTHS4_114 = MONTHS4.  
  
* IF(TGROUP EQ 120)MONTHS1_120 = MONTHS1.  
* IF(TGROUP EQ 120)MONTHS2_120 = MONTHS2.  
* IF(TGROUP EQ 120)MONTHS3_120 = MONTHS3.  
* IF(TGROUP EQ 120)MONTHS4_120 = MONTHS4.  
  
* IF(TGROUP EQ 122)MONTHS1_122 = MONTHS1.  
* IF(TGROUP EQ 122)MONTHS2_122 = MONTHS2.  
* IF(TGROUP EQ 122)MONTHS3_122 = MONTHS3.  
* IF(TGROUP EQ 122)MONTHS4_122 = MONTHS4.  
  
* IF(TGROUP EQ 128)MONTHS1_128 = MONTHS1.  
* IF(TGROUP EQ 128)MONTHS2_128 = MONTHS2.  
* IF(TGROUP EQ 128)MONTHS3_128 = MONTHS3.  
* IF(TGROUP EQ 128)MONTHS4_128 = MONTHS4.  
  
* IF(TGROUP EQ 131)MONTHS1_131 = MONTHS1.  
* IF(TGROUP EQ 131)MONTHS2_131 = MONTHS2.  
* IF(TGROUP EQ 131)MONTHS3_131 = MONTHS3.  
* IF(TGROUP EQ 131)MONTHS4_131 = MONTHS4.  
  
* IF(TGROUP EQ 133)MONTHS1_133 = MONTHS1.  
* IF(TGROUP EQ 133)MONTHS2_133 = MONTHS2.  
* IF(TGROUP EQ 133)MONTHS3_133 = MONTHS3.  
* IF(TGROUP EQ 133)MONTHS4_133 = MONTHS4.
```

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```
* IF(TGROUP EQ 134)MONTHS1_134 = MONTHS1.  
* IF(TGROUP EQ 134)MONTHS2_134 = MONTHS2.  
* IF(TGROUP EQ 134)MONTHS3_134 = MONTHS3.  
* IF(TGROUP EQ 134)MONTHS4_134 = MONTHS4.  
  
* RECODE MONTHS1_1 TO MONTHS4_134 (SYSMIS = 0).  
  
COMPUTE RATE1 = 1.  
COMPUTE RATE2 = 1.  
COMPUTE RATE3 = 1.  
COMPUTE RATE4 = 1.  
COMPUTE RATE5 = 1.  
COMPUTE RATE6 = 1.  
COMPUTE RATE7 = 1.  
  
IF(TGROUP EQ 1 )RATE1 = .99661***MONTH1 .  
IF(TGROUP EQ 1 )RATE2 = 1.00612***MONTH2 .  
IF(TGROUP EQ 1 )RATE3 = 1.00634***MONTH3 .  
IF(TGROUP EQ 1 )RATE4 = 1.00634***MONTH4 .  
IF(TGROUP EQ 1 )RATE5 = 1.00752***MONTH5 .  
  
IF(TGROUP EQ 2 )RATE1 = 1.00000***MONTH1 .  
IF(TGROUP EQ 2 )RATE2 = 1.00540***MONTH2 .  
IF(TGROUP EQ 2 )RATE3 = 1.00000***MONTH3 .  
IF(TGROUP EQ 2 )RATE4 = 1.01271***MONTH4 .  
  
IF(TGROUP EQ 3 )RATE1 = 1.00000***MONTH1 .  
IF(TGROUP EQ 3 )RATE2 = 1.00000***MONTH2 .  
IF(TGROUP EQ 3 )RATE3 = 1.00000***MONTH3 .  
IF(TGROUP EQ 3 )RATE4 = 1.00575***MONTH4 .  
IF(TGROUP EQ 3 )RATE5 = 1.00000***MONTH5 .  
  
IF(TGROUP EQ 4 )RATE1 = 1.00000***MONTH1 .  
IF(TGROUP EQ 4 )RATE2 = 1.00256***MONTH2 .  
IF(TGROUP EQ 4 )RATE3 = 1.00000***MONTH3 .  
IF(TGROUP EQ 4 )RATE4 = 1.00775***MONTH4 .  
IF(TGROUP EQ 4 )RATE5 = 1.00196***MONTH5 .  
  
IF(TGROUP EQ 5 )RATE1 = 1.00000***MONTH1 .  
IF(TGROUP EQ 5 )RATE2 = 1.00286***MONTH2 .  
IF(TGROUP EQ 5 )RATE3 = 1.00452***MONTH3 .  
IF(TGROUP EQ 5 )RATE4 = 1.00368***MONTH4 .  
  
IF(TGROUP EQ 6 )RATE1 = 1.00267***MONTH1 .  
IF(TGROUP EQ 6 )RATE2 = 1.00589***MONTH2 .  
IF(TGROUP EQ 6 )RATE3 = 1.00000***MONTH3 .  
IF(TGROUP EQ 6 )RATE4 = 1.00000***MONTH4 .  
IF(TGROUP EQ 6 )RATE5 = 1.00652***MONTH5 .  
IF(TGROUP EQ 6 )RATE6 = 1.00240***MONTH6 .  
  
IF(TGROUP EQ 7 )RATE1 = 1.00262***MONTH1 .  
IF(TGROUP EQ 7 )RATE2 = 1.00355***MONTH2 .  
IF(TGROUP EQ 7 )RATE3 = 1.00000***MONTH3 .  
IF(TGROUP EQ 7 )RATE4 = 1.00565***MONTH4 .  
  
IF(TGROUP EQ 8 )RATE1 = 1.00000***MONTH1 .  
IF(TGROUP EQ 8 )RATE2 = 1.00356***MONTH2 .  
IF(TGROUP EQ 8 )RATE3 = 1.00000***MONTH3 .  
IF(TGROUP EQ 8 )RATE4 = 1.01083***MONTH4 .  
IF(TGROUP EQ 8 )RATE5 = 1.00662***MONTH5 .  
  
IF(TGROUP EQ 9 )RATE1 = 1.00000***MONTH1 .  
IF(TGROUP EQ 9 )RATE2 = 1.00363***MONTH2 .
```

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IF(TGROUP EQ 9 )RATE3 = 1.00372\*\*\*MONTH3 .  
IF(TGROUP EQ 9 )RATE4 = 1.00000\*\*\*MONTH4 .  
IF(TGROUP EQ 9 )RATE5 = 1.00421\*\*\*MONTH5 .  
  
IF(TGROUP EQ 43 )RATE1 = 1.00416\*\*\*MONTH1 .  
IF(TGROUP EQ 43 )RATE2 = 1.00000\*\*\*MONTH2 .  
IF(TGROUP EQ 43 )RATE3 = 1.00468\*\*\*MONTH3 .  
IF(TGROUP EQ 43 )RATE4 = 1.00461\*\*\*MONTH4 .  
  
IF(TGROUP EQ 52 )RATE1 = 1.00263\*\*\*MONTH1 .  
IF(TGROUP EQ 52 )RATE2 = 1.00462\*\*\*MONTH2 .  
IF(TGROUP EQ 52 )RATE3 = 1.00865\*\*\*MONTH3 .  
  
IF(TGROUP EQ 53 )RATE1 = 1.00000\*\*\*MONTH1 .  
IF(TGROUP EQ 53 )RATE2 = 1.00290\*\*\*MONTH2 .  
IF(TGROUP EQ 53 )RATE3 = 1.00761\*\*\*MONTH3 .  
IF(TGROUP EQ 53 )RATE4 = 1.00000\*\*\*MONTH4 .  
  
IF(TGROUP EQ 54 )RATE1 = 1.00000\*\*\*MONTH1 .  
IF(TGROUP EQ 54 )RATE2 = 1.00000\*\*\*MONTH2 .  
IF(TGROUP EQ 54 )RATE3 = 1.00648\*\*\*MONTH3 .  
IF(TGROUP EQ 54 )RATE4 = 1.00581\*\*\*MONTH4 .  
  
IF(TGROUP EQ 57 )RATE1 = 1.00000\*\*\*MONTH1 .  
IF(TGROUP EQ 57 )RATE2 = 1.00891\*\*\*MONTH2 .  
IF(TGROUP EQ 57 )RATE3 = 1.00000\*\*\*MONTH3 .  
IF(TGROUP EQ 57 )RATE4 = 1.01553\*\*\*MONTH4 .  
  
IF(TGROUP EQ 58 )RATE1 = 1.00372\*\*\*MONTH1 .  
IF(TGROUP EQ 58 )RATE2 = 1.00000\*\*\*MONTH2 .  
IF(TGROUP EQ 58 )RATE3 = 1.01037\*\*\*MONTH3 .  
IF(TGROUP EQ 58 )RATE4 = 1.00000\*\*\*MONTH4 .  
  
IF(TGROUP EQ 59 )RATE1 = 1.00000\*\*\*MONTH1 .  
IF(TGROUP EQ 59 )RATE2 = 1.00000\*\*\*MONTH2 .  
IF(TGROUP EQ 59 )RATE3 = 1.00893\*\*\*MONTH3 .  
IF(TGROUP EQ 59 )RATE4 = 1.00537\*\*\*MONTH4 .  
  
IF(TGROUP EQ 88 )RATE1 = 1.00000\*\*\*MONTH1 .  
IF(TGROUP EQ 88 )RATE2 = 1.00000\*\*\*MONTH2 .  
IF(TGROUP EQ 88 )RATE3 = 1.00000\*\*\*MONTH3 .  
IF(TGROUP EQ 88 )RATE4 = 1.00831\*\*\*MONTH4 .  
  
IF(TGROUP EQ 89 )RATE1 = 1.00402\*\*\*MONTH1 .  
IF(TGROUP EQ 89 )RATE2 = 1.00000\*\*\*MONTH2 .  
IF(TGROUP EQ 89 )RATE3 = 1.00000\*\*\*MONTH3 .  
IF(TGROUP EQ 89 )RATE4 = 1.00637\*\*\*MONTH4 .  
  
IF(TGROUP EQ 92 )RATE1 = 1.00254\*\*\*MONTH1 .  
IF(TGROUP EQ 92 )RATE2 = 1.00000\*\*\*MONTH2 .  
IF(TGROUP EQ 92 )RATE3 = 1.00000\*\*\*MONTH3 .  
IF(TGROUP EQ 92 )RATE4 = 1.00404\*\*\*MONTH4 .  
  
IF(TGROUP EQ 93 )RATE1 = 1.00404\*\*\*MONTH1 .  
IF(TGROUP EQ 93 )RATE2 = 1.00000\*\*\*MONTH2 .  
IF(TGROUP EQ 93 )RATE3 = 1.00494\*\*\*MONTH3 .  
IF(TGROUP EQ 93 )RATE4 = 1.00499\*\*\*MONTH4 .  
  
IF(TGROUP EQ 114)RATE1 = 1.00000\*\*\*MONTH1 .  
IF(TGROUP EQ 114)RATE2 = 1.00274\*\*\*MONTH2 .  
IF(TGROUP EQ 114)RATE3 = 1.00000\*\*\*MONTH3 .  
IF(TGROUP EQ 114)RATE4 = 1.01036\*\*\*MONTH4 .

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IF(TGROUP EQ 120)RATE1 = 1.00215\*\*\*MONTH1 .  
IF(TGROUP EQ 120)RATE2 = 1.00355\*\*\*MONTH2 .  
IF(TGROUP EQ 120)RATE3 = 1.00292\*\*\*MONTH3 .  
IF(TGROUP EQ 120)RATE4 = 1.01267\*\*\*MONTH4 .

IF(TGROUP EQ 122)RATE1 = .99724\*\*\*MONTH1 .  
IF(TGROUP EQ 122)RATE2 = 1.00516\*\*\*MONTH2 .  
IF(TGROUP EQ 122)RATE3 = 1.00450\*\*\*MONTH3 .  
IF(TGROUP EQ 122)RATE4 = 1.00564\*\*\*MONTH4 .

IF(TGROUP EQ 128)RATE1 = 1.00000\*\*\*MONTH1 .  
IF(TGROUP EQ 128)RATE2 = 1.00888\*\*\*MONTH2 .  
IF(TGROUP EQ 128)RATE3 = 1.00000\*\*\*MONTH3 .  
IF(TGROUP EQ 128)RATE4 = 1.00433\*\*\*MONTH4 .

IF(TGROUP EQ 131)RATE1 = 1.00000\*\*\*MONTH1 .  
IF(TGROUP EQ 131)RATE2 = 1.00000\*\*\*MONTH2 .  
IF(TGROUP EQ 131)RATE3 = 1.00501\*\*\*MONTH3 .  
IF(TGROUP EQ 131)RATE4 = 1.00411\*\*\*MONTH4 .

IF(TGROUP EQ 133)RATE1 = 1.00610\*\*\*MONTH1 .  
IF(TGROUP EQ 133)RATE2 = 1.00450\*\*\*MONTH2 .  
IF(TGROUP EQ 133)RATE3 = .99612\*\*\*MONTH3 .  
IF(TGROUP EQ 133)RATE4 = 1.00861\*\*\*MONTH4 .

IF(TGROUP EQ 134)RATE1 = .99511\*\*\*MONTH1 .  
IF(TGROUP EQ 134)RATE2 = 1.00862\*\*\*MONTH2 .  
IF(TGROUP EQ 134)RATE3 = 1.00000\*\*\*MONTH3 .  
IF(TGROUP EQ 134)RATE4 = 1.00758\*\*\*MONTH4 .

COMPUTE ADJRATE = RATE1 \* RATE2 \* RATE3 \* RATE4 \* RATE5 \* RATE6 \* RATE7.

SORT CASES BY TGROUP (A).

SPLIT FILE BY TGROUP.

GRAPH /SCATTERPLOT SDATE WITH ADJRATE BY SPLINE.

SPLIT FILE OFF.

COMPUTE TASPF = SOLDPRICE \* ADJRATE.

FORMATS TASPF (COMMA10.0).

\* COMPUTE TASPSF= TASPF/SQFT\_BLDG1.

\* DESCRIPTIVES ADJ\_SALE\_PRICE TASPF TASPSF.

EXECUTE.

\*\*\*\*\*  
\*\*\*\*\*LANDSQFT\*\*\*\*\*  
\*\*\*\*\*

COMPUTE LandIssuePCTx = 1.

IF(LandIssuePCT LT 0)LandIssuePCTx = 1 + (LandIssuePCT / 100).

COMPUTE LandIssuePCT\_ECONx = 1.

IF(LandIssuePCT\_ECON LT 0)LandIssuePCT\_ECONx = 1 + (LandIssuePCT\_ECON / 100).

COMPUTE UNDERWATER\_SF\_ECONx = UNDERWATER\_SF\_ECON.

IF(LandIssueSF\_Sum EQ UNDERWATER\_SF\_ECON)UNDERWATER\_SF\_ECONx = 0.

COMPUTE UNDERWATER\_SFx = UNDERWATER\_SF.

IF(LandIssueSF\_EQ UNDERWATER\_SF)UNDERWATER\_SFx = 0.

IF(LandIssueSF GT 0)UNDERWATER\_SFx = 0.  
IF(LandIssueSF\_Sum GT 0)UNDERWATER\_SFx = 0.

COMPUTE SUMLANDX = SUMLAND - UNDERWATER\_SF\_ECONx - LandIssueSF\_Sum.

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IF(EconType EQ '')SUMLANDX = SUMLAND - UNDERWATER_SFx - LandIssueSF.
COMPUTE LANDSQFTX = LANDSQT - UNDERWATER_SFx - LandIssueSF.
FORMATS SUMLANDX LANDSQFTX UNDERWATER_SFx UNDERWATER_SF_ECONX (COMMA10.0).
DESCRIPTIVES SUMLANDX LANDSQFTX.

DO IF(SUMLANDX GT 0).
  COMPUTE LN_LANDSQFT = LN(SUMLANDX).
END IF.
RECODE LN_LANDSQFT (SYSMIS = 0).
EXECUTE.

* ISSUE WITH 6000 AND LESS LAND.

* IF(SUMLANDX LT 6000)LN_LandRecip6000 = LN(6000 - SUMLANDX).
* RECODE LN_LandRecip6000 (SYSMIS = 0).

*****.

IF(SUMLANDX GT 0 AND NOT(ANY(NBHDGroupNum, 1,2, 3, 5, 7 )) )LANDSIZERATIO =
(SUMLANDX / 8340).
RECODE LANDSIZERATIO (SYSMIS = 1).
COMPUTE LN_LANDSIZERATIO = LN(LANDSIZERATIO).
COMPUTE LN_LANDSIZERATIO1 = 0.
IF(LANDSIZERATIO LT 1)LN_LANDSIZERATIO1 = LN_LANDSIZERATIO.
COMPUTE LN_LANDSIZERATIO2 = 0.
IF(LANDSIZERATIO GT 1)LN_LANDSIZERATIO2 = LN_LANDSIZERATIO.

IF(NBHDGroupNum EQ 1 AND SUMLANDX GT 0)LANDAmityvilleFreeportRATIO = (SUMLANDX /
8340).
RECODE LANDAmityvilleFreeportRATIO (SYSMIS = 1).
COMPUTE LN_LANDAmityvilleFreeportRATIO = LN(LANDAmityvilleFreeportRATIO).
IF(LANDAmityvilleFreeportRATIO LT 1)LN_LANDAmityvilleFreeportRATIO1 =
LN_LANDAmityvilleFreeportRATIO.
IF(LANDAmityvilleFreeportRATIO GT 1)LN_LANDAmityvilleFreeportRATIO2 =
LN_LANDAmityvilleFreeportRATIO.
RECODE LN_LANDAmityvilleFreeportRATIO1 LN_LANDAmityvilleFreeportRATIO2 (SYSMIS = 0).

IF(NBHDGroupNum EQ 2 AND SUMLANDX GT 0)LANDBaldwinRATIO = (SUMLANDX / 6000).
RECODE LANDBaldwinRATIO (SYSMIS = 1).
COMPUTE LN_LANDBaldwinRATIO = LN(LANDBaldwinRATIO).
IF(LANDBaldwinRATIO LT 1)LN_LANDBaldwinRATIO1 = LN_LANDBaldwinRATIO.
IF(LANDBaldwinRATIO GT 1)LN_LANDBaldwinRATIO2 = LN_LANDBaldwinRATIO.
RECODE LN_LANDBaldwinRATIO1 LN_LANDBaldwinRATIO2 (SYSMIS = 0).

IF(NBHDGroupNum EQ 3 AND SUMLANDX GT 0)LANDBellmoreRATIO = (SUMLANDX / 6000).
RECODE LANDBellmoreRATIO (SYSMIS = 1).
COMPUTE LN_LANDBellmoreRATIO = LN(LANDBellmoreRATIO).
IF(LANDBellmoreRATIO LT 1)LN_LANDBellmoreRATIO1 = LN_LANDBellmoreRATIO.
IF(LANDBellmoreRATIO GT 1)LN_LANDBellmoreRATIO2 = LN_LANDBellmoreRATIO.
RECODE LN_LANDBellmoreRATIO1 LN_LANDBellmoreRATIO2 (SYSMIS = 0).

IF(NBHDGroupNum EQ 5 AND SUMLANDX GT 0)LANDMerrickRATIO = (SUMLANDX / 6500).
RECODE LANDMerrickRATIO (SYSMIS = 1).
COMPUTE LN_LANDMerrickRATIO = LN(LANDMerrickRATIO).
IF(LANDMerrickRATIO LT 1)LN_LANDMerrickRATIO1 = LN_LANDMerrickRATIO.
IF(LANDMerrickRATIO GT 1)LN_LANDMerrickRATIO2 = LN_LANDMerrickRATIO.
RECODE LN_LANDMerrickRATIO1 LN_LANDMerrickRATIO2 (SYSMIS = 0).

* IF(NBHDGroupNum EQ 6 AND SUMLANDx GT 0)LN_LANDNorthBellmore = LN(SUMLANDX).
* RECODE LN_LANDNorthBellmore (SYSMIS = 0).

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* IF(NBHDGroupNum EQ 6 AND SUMLANDX GT 0)LANDNorthBellmoreRATIO = (SUMLANDX /  
6500).  
* RECODE LANDNorthBellmoreRATIO (SYSMIS = 1).  
* COMPUTE LN_LANDNorthBellmoreRATIO = LN(LANDNorthBellmoreRATIO).  
* IF(LANDNorthBellmoreRATIO LT 1)LN_LANDNorthBellmoreRATIO1 =  
LN_LANDNorthBellmoreRATIO.  
* IF(LANDNorthBellmoreRATIO GT 1)LN_LANDNorthBellmoreRATIO2 =  
LN_LANDNorthBellmoreRATIO.  
* RECODE LN_LANDNorthBellmoreRATIO1 LN_LANDNorthBellmoreRATIO2 (SYSMIS = 0).  
  
IF(NBHDGroupNum EQ 7 AND SUMLANDX GT 0)LANDNorthMerrickRATIO = (SUMLANDX / 6500).  
RECODE LANDNorthMerrickRATIO (SYSMIS = 1).  
COMPUTE LN_LANDNorthMerrickRATIO = LN(LANDNorthMerrickRATIO).  
IF(LANDNorthMerrickRATIO LT 1)LN_LANDNorthMerrickRATIO1 = LN_LANDNorthMerrickRATIO.  
IF(LANDNorthMerrickRATIO GT 1)LN_LANDNorthMerrickRATIO2 = LN_LANDNorthMerrickRATIO.  
RECODE LN_LANDNorthMerrickRATIO1 LN_LANDNorthMerrickRATIO2 (SYSMIS = 0).  
  
EXECUTE.  
  
*****  
*****LIVING AREA*****  
*****  
  
COMPUTE BASEADJ = STORIES.  
RECODE BASEADJ (1.7 = 1.75)(2.7 = 2.75)(3.7 = 3.75).  
* FREQUENCIES BASEADJ.  
  
*****  
* This code when used will match SFLA.  
* COMPUTE AtticSF = 0.  
* IF(ATTIC EQ 3)AtticSF = FLR1AREA * .20.  
* IF(ATTIC EQ 4)AtticSF = FLR1AREA * .40.  
  
* COMPUTE SQFT = RND((FLR1AREA * BASEADJ) + RND(AtticSF) + FINBSMTAREA + FirstSF +  
HalfStory + Story34  
+ AtticFinished + AtticPartFinished + FinBsmt + Solarium).  
*****  
  
COMPUTE AtticSF = AtticFinished + AtticPartFinished .  
IF(ATTIC EQ 3)AtticSF = AtticSF + RND(FLR1AREA * .20).  
IF(ATTIC EQ 4)AtticSF = AtticSF + RND(FLR1AREA * .40).  
  
COMPUTE SQFT = RND((FLR1AREA * BASEADJ) + RND(AtticSF) + FirstSF + Halfstory +  
Story34 + Solarium).  
  
COMPUTE UPERSF = RND((FLR1AREA * BASEADJ) - FLR1AREA + HalfStory + Story34) .  
COMPUTE FINBSMTX = FINBSMTAREA + FinBsmt.  
COMPUTE UNFBSMTX = UNFINAREA + UnfBsmt.  
COMPUTE RECBSMTX = RECROMAREA + RecRoom.  
RECODE FINBSMTX UNFBSMTX RECBSMTX (LO THRU 10 = 0).  
  
FORMATS AtticSF SQFT FINBSMTX UNFBSMTX RECBSMTX (COMMA10.0).  
EXECUTE.  
  
DO IF(SFLA_ECON GT 0).  
COMPUTE SQFTX = SQFT.  
* IF(SFLA2 GT 0)SQFTX = SQFT + RND(SFLA2 * .80).  
COMPUTE LnSQFTX= LN(SQFTX).  
COMPUTE SQFTZ = SQFTX.  
IF(SQFTX GE 2200)SQFTZ = RND(2200 + ((SQFTX - 2200)**1.07)).
```

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COMPUTE LnSQFTz= LN(SQFTz).
END IF.
RECODE LnSQFTx (SYSMIS = 0).
RECODE LnSQFTz (SYSMIS = 0).
EXECUTE.

DO IF(SFLA2 GT 0).
COMPUTE LnSFLA2= LN(SFLA2).
END IF.
RECODE LnSFLA2 (SYSMIS = 0).
EXECUTE.

* COMPUTE UPERSF_RATIO = 1 + (UPERSF / 720).
* COMPUTE LN_UPERSF_RATIO = LN(UPERSF_RATIO).

* COMPUTE AtticSF_RATIO = 1 + (AtticSF / 320).
* COMPUTE LN_AtticSF_RATIO = LN(AtticSF_RATIO).
EXECUTE.

*****.
*BSMT.

IF(UNFBSMTx GT 0)LNUNFBSMTx = LN(UNFBSMTx).
IF(FINBSMTx GT 0)LNFINBSMTx = LN(FINBSMTx).
IF(RECBSMTx GT 0)LNRECBSMTx = LN(RECBSMTx).
RECODE LNUNFBSMTx LNFINBSMTx LNRECBSMTx (SYSMIS = 0).

COMPUTE UNFBSMTx_RATIO = 1 + (UNFBSMTx / 500).
COMPUTE LN_UNFBSMTx_RATIO = LN(UNFBSMTx_RATIO).

COMPUTE FINBSMTx_RATIO = 1 + (FINBSMTx / 500).
COMPUTE LN_FINBSMTx_RATIO = LN(FINBSMTx_RATIO).

COMPUTE RECBSMTx_RATIO = 1 + (RECBSMTx / 500).
COMPUTE LN_RECBSMTx_RATIO = LN(RECBSMTx_RATIO).

RECODE BSMT (0=1)(ELSE = 0) INTO NO_BSMT.
*****.
*****.
*****.EFFECTIVE
AGE*****.
*****.
*****.

COMPUTE NEW_DEPR = DEPR.
IF(DEPR LE 65) NEW_DEPR = RND(DEPR+((65 - DEPR)**.65)).

DO IF(DEPR GT 0).
COMPUTE PCT_GOOD= NEW_DEPR/100.
COMPUTE LN_PCT_GOOD = LN(PCT_GOOD).
END IF.
* DESCRIPTIVES PCT_GOOD.
VARIABLE LABELS PCT_GOOD 'PERCENTAGE OF VALUE LEFT IN UNIT'.
RECODE LN_PCT_GOOD (SYSMIS = 0).
EXECUTE.

*****.
*****.
*****.GARAGES*****.
*****.
*****.
*****.

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```
COMPUTE ATTGARX = Garage.
COMPUTE BLTINGARX = BsmtGarage.
COMPUTE DETGARX = GarageDetached_SF.
COMPUTE CARPORTX = CARPORT + Carport_SF.
RECODE ATTGARX BLTINGARX DETGARX CARPORTX (LO THRU 10 = 0).

* COMPUTE ATTGARX_RATIO = 1 + (ATTGARX / 480).
* COMPUTE LN_ATTGARX_RATIO = LN(ATTGARX_RATIO).

* COMPUTE BLTINGARX_RATIO = 1 + (BLTINGARX / 480).
* COMPUTE LN_BLTINGARX_RATIO = LN(BLTINGARX_RATIO).

* COMPUTE DETGARX_RATIO = 1 + (DETGARX / 480).
* COMPUTE LN_DETGARX_RATIO = LN(DETGARX_RATIO).

* COMPUTE CARPORTX_RATIO = 1 + (CARPORTX / 480).
* COMPUTE LN_CARPORTX_RATIO = LN(CARPORTX_RATIO).

COMPUTE AttBltGar = ATTGARX + BLTINGARX.
* COMPUTE AttBltGar_RATIO = 1+ (AttBltGar / 480).
* COMPUTE LN_AttBltGar_RATIO = LN(AttBltGar_RATIO).

COMPUTE LINGAR = ATTGARX + BLTINGARX + RND(DETGARX * .75) + RND(CARPORTX *.40).
COMPUTE LINGAR_RATIO = 1+ (LINGAR / 480).
COMPUTE LN_LINGAR_RATIO = LN(LINGAR_RATIO).

* COMPUTE LinDetGarCarport = DETGARX + RND(CARPORTX *.50).
* COMPUTE LinDetGarCarport_RATIO = 1+ (LinDetGarCarport / 480).
* COMPUTE LN_LinDetGarCarport_RATIO = LN(LinDetGarCarport_RATIO).

DO IF( GarageDetached_Depr GT 0).
COMPUTE GarageDetachedPctGood= GarageDetached_Depr/100.
END IF.
RECODE GarageDetachedPctGood (SYSMIS = 1).
COMPUTE LN_GarageDetachedPctGood = LN(GarageDetachedPctGood).

COMPUTE ShedX = UtilityBldg + UtilShed_SF.
RECODE ShedX (LO THRU 9 = 0).
COMPUTE ShedX_RATIO = 1 + (ShedX / 480).
COMPUTE LN_ShedX_RATIO = LN(ShedX_RATIO).

* COMPUTE BoatdockSF_ratio = 1+ (BoatDock_SF/340).
* COMPUTE LN_BoatdockSF_ratio = LN(BoatdockSF_ratio).

*****.
***Porch***.

COMPUTE TerraceX = RaisedTerrace + Terrace_SF.
COMPUTE PatioX = Patio + PatioPool_SF + RND(PatioCovered_SF *1.10).
COMPUTE OpenPorchX = OpenPorch + OpenFramePorch_SF + PorchScreened_SF.
COMPUTE Enc1PorchX = Enc1Porch + PoolEnclosure_SF.
COMPUTE allPorchX = OpenPorchX + Enc1PorchX.
COMPUTE WoodDeckX = WoodDeck + WoodDeck_SF.
COMPUTE CanopyX = Canopy + Canopy_SF.
COMPUTE GreenhouseX = Greenhouse + Greenhouse_SF.

COMPUTE TerraceX_RATIO = 1 + ((TerraceX) / 250).
COMPUTE LN_TerraceX_RATIO = LN(TerraceX_RATIO).

COMPUTE PatioX_RATIO = 1 + ((PatioX) / 250).
COMPUTE LN_PatioX_RATIO = LN(PatioX_RATIO).

* COMPUTE OpenPorchX_RATIO = 1 + ((OpenPorchX) / 100).
```

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* COMPUTE LN_OpenPorchX_RATIO = LN(OpenPorchX_RATIO).
* COMPUTE EnclPorchX_RATIO = 1 + ((EnclPorchX) / 130).
* COMPUTE LN_EnclPorchX_RATIO = LN(EnclPorchX_RATIO).

COMPUTE LINPORCH_RATIO = (RND((OpenPorchx * .975) + EnclPorchX) / 115) + 1.
COMPUTE LN_LINPORCH_RATIO = LN(LINPORCH_RATIO).

* COMPUTE allPorchx_RATIO = 1 + ((allPorchx) / 130).
* COMPUTE LN_allPorchx_RATIO = LN(allPorchx_RATIO).

COMPUTE WoodDeckx_RATIO = 1 + ((WoodDeckx) / 320).
COMPUTE LN_WoodDeckx_RATIO = LN(WoodDeckx_RATIO).

COMPUTE CanopyX_RATIO = 1 + ((CanopyX) / 120).
COMPUTE LN_CanopyX_RATIO = LN(CanopyX_RATIO).

* COMPUTE GreenhouseX_RATIO = 1 + ((GreenhouseX) / 200).
* COMPUTE LN_GreenhouseX_RATIO = LN(GreenhouseX_RATIO).

* COMPUTE Gazebo_SF_RATIO = 1 + ((Gazebo_SF) / 180).
* COMPUTE LN_Gazebo_SF_RATIO = LN(Gazebo_SF_RATIO).

* COMPUTE CabinX = Cabin_SF + OfficeStudio_SF.

* COMPUTE CabinX_RATIO = 1 + ((CabinX) / 180).
* COMPUTE LN_CabinX_RATIO = LN(CabinX_RATIO).

* COMPUTE BathHouse_SF_RATIO = 1 + ((BathHouse_SF) / 180).
* COMPUTE LN_BathHouse_SF_RATIO = LN(BathHouse_SF_RATIO).

COMPUTE PoolX = PoolVinyl + PoolConc + PoolConc_SF + PoolFbgl_SF + PoolGuni_SF +
PoolVinyl_SF + SpaJacuzzi_SF.
COMPUTE EnclPoolX = RND(EnclPoolLow * .75) + EnclPoolHigh + PoolEnclosure_SF.

COMPUTE PoolX_RATIO = 1 + ((PoolX) / 400).
COMPUTE LN_PoolX_RATIO = LN(PoolX_RATIO).

* COMPUTE EnclPoolX_RATIO = 1 + ((EnclPoolX) / 400).
* COMPUTE LN_EnclPoolX_RATIO = LN(EnclPoolX_RATIO).

* COMPUTE TennisCourt_SF_RATIO = 1 + ((TennisCourt_SF) / 180).
* COMPUTE LN_TennisCourt_SF_RATIO = LN(TennisCourt_SF_RATIO).

*Elevator.

*****QUALITATIVE VARIABLES*****.
*****
```

\*ELEVATED HOUSES.

```

* Elevated ElevatedGarage ElevatedCarport.
DO IF(Elevated NE '').
  COMPUTE ElevatedNum = NUMBER(Elevated,F1.0).
END IF.
RECODE ElevatedNum (SYSMIS = 0).
RECODE ElevatedNum (1 THRU HIGHEST = 1)(ELSE = 0) INTO ElevatedHome.
IF(ElevatedGarage NE '')ElevatedHome = 1.
IF(ElevatedCarport NE '')ElevatedHome = 1.
  * RECODE ElevatedNum (1, 5 = 1)(ELSE = 0) INTO ElevatedCrawlPilings.
  * RECODE ElevatedNum (2, 3, 4 = 1)(ELSE = 0) INTO ElevatedUnfinishedx.
DO IF(ElevatedGarage NE '').
  COMPUTE ElevatedGarageNum = NUMBER(ElevatedGarage,F1.0).
```

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END IF.  
RECODE ElevatedGarageNum (SYSMIS = 0).

\*\*\*\*\*  
\*\*\*LUC\*\*\*.

RECODE LUC ("2150" = 1)(ELSE = 0) INTO AccApt.  
RECODE LUC ("2200" = 1)(ELSE = 0) INTO TwoFamily.  
RECODE LUC ("2300" = 1)(ELSE = 0) INTO ThreeFamily.  
RECODE LUC ("2800" = 1)(ELSE = 0) INTO MULTIPLEXES.  
COMPUTE ConvertedResidenceX = 0.  
IF(LUC\_NUM GE 4830)ConvertedResidenceX = 1.

\*\*\*\*\*  
\*\*\*STYLE VARIABLE\*\*\*.

RECODE STYLE (1 = 1)(ELSE=0) INTO Ranch./\* 1876 SALES - 8175 POP.  
RECODE STYLE (2 = 1)(ELSE=0) INTO RaisedRanch. /\* 1440 SALES - 7136 POP.  
RECODE STYLE (3 = 1)(ELSE=0) INTO SplitLevel. /\* 2888 SALES - 12071 POP.  
RECODE STYLE (4 = 1)(ELSE=0) INTO ModifiedRanch. /\* 194 SALES - 1123 POP.  
\* RECODE STYLE (5 = 1)(ELSE=0) INTO Cape. /\* 3655 SALES - 16525 POP. ---- Base.  
RECODE STYLE (6 = 1)(ELSE=0) INTO Colonial. /\* 2786 SALES - 12255 POP.  
\* RECODE STYLE (7 = 1)(ELSE=0) INTO Victorian. /\* 1 SALES - 9 POP.  
RECODE STYLE (8 = 1)(ELSE=0) INTO Contemporary. /\* 41 SALES - 236 POP.  
RECODE STYLE (9 = 1)(ELSE=0) INTO OldStyle. /\* 1031 SALES - 5266 POP.  
RECODE STYLE (10 = 1)(ELSE=0) INTO BungalowCottage. /\* 772 SALES - 3273 POP.  
RECODE STYLE (11 = 1)(ELSE=0) INTO DuplexTriplex. /\* 20 SALES - 128 POP.  
\* RECODE STYLE (12 = 1)(ELSE=0) INTO Mansion. /\* NONE.  
\* RECODE STYLE (13 = 1)(ELSE=0) INTO Townhouse./\* 6 SALES - 14 POP.  
\* RECODE STYLE (16 = 1)(ELSE=0) INTO HomeOwnerAssoc./\* 2 SALES - 6 POP.  
\* RECODE STYLE (17 = 1)(ELSE=0) INTO Other. /\* 0 SALES - 1 POP.  
RECODE STYLE (18 = 1)(ELSE=0) INTO Sbranch. /\* 579 SALES - 2324 POP.  
\* RECODE STYLE (19 = 1)(ELSE=0) INTO CarriageHouse. /\* 0 SALES - 1 POP.  
\* RECODE STYLE (20 = 1)(ELSE=0) INTO Tudor. /\* 9 SALES - 14 POP.  
\* RECODE STYLE(22 = 1)(ELSE=0) INTO STYLE22. /\* . SALES - 1 POP.

IF (NBHDGroupNum EQ 1 AND STYLE EQ 18) N1\_Sbranch = 1.  
IF (NBHD EQ 52 AND STYLE EQ 2) N52\_RAISEDRanch = 1.  
IF (NBHDGroupNum EQ 1 AND STYLE EQ 4) N1\_MODIFIEDRANCH = 1.  
\* IF (NBHDGroupNum EQ 2 AND STYLE EQ 6) N2\_COLONIAL = 1.  
IF (NBHDGroupNum EQ 3 AND STYLE EQ 1) N3\_Ranch = 1.  
IF (NBHDGroupNum EQ 3 AND STYLE EQ 10) N3\_BungalowCottage = 1.  
\* IF (NBHDGroupNum EQ 3 AND STYLE EQ 8) N3\_Contemporary = 1.  
\* IF (NBHDGroupNum EQ 4 AND STYLE EQ 13) N4\_Townhouse = 1.  
IF (NBHDGroupNum EQ 6 AND STYLE EQ 4) N6\_ModifiedRanch = 1.  
\* IF (NBHDGroupNum EQ 6 AND STYLE EQ 16) N6\_HomeOwnerAssoc = 1.  
IF (NBHD EQ 48 AND STYLE EQ 9) N48\_Oldstyle = 1.  
IF (NBHDGroupNum EQ 7 AND STYLE EQ 1) N7\_Ranch = 1.  
IF (NBHDGroupNum EQ 7 AND STYLE EQ 3) N7\_SplitLevel = 1.  
\* IF (NBHD EQ 44 AND STYLE EQ 2) N44\_RAISEDRanch = 1.  
IF (NBHDGroupNum EQ 8 AND STYLE EQ 9) N8\_OldStyle = 1.  
IF (NBHDGroupNum EQ 8 AND STYLE EQ 18) N8\_Sbranch = 1.  
IF (NBHDGroupNum EQ 8 AND STYLE EQ 11) N8\_DuplexTriplex = 1.  
IF (NBHDGroupNum EQ 9 AND STYLE EQ 4) N9\_ModifiedRanch = 1.  
RECODE N1\_Sbranch TO N9\_ModifiedRanch (SYSMIS = 0).

\* IF (NBHDGroupNum EQ 1 AND STYLE EQ 18) Sbranch = 0.  
\* IF (NBHD EQ 52 AND STYLE EQ 2) RaisedRanch= 0.  
\* IF (NBHDGroupNum EQ 1 AND STYLE EQ 4) ModifiedRanch = 0.  
\* IF (NBHDGroupNum EQ 2 AND STYLE EQ 6) Colonial = 0.  
\* IF (NBHDGroupNum EQ 3 AND STYLE EQ 1) Ranch = 0.  
\* IF (NBHDGroupNum EQ 3 AND STYLE EQ 10) BungalowCottage = 0.  
\* IF (NBHDGroupNum EQ 3 AND STYLE EQ 8) Contemporary = 0.

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```

* IF (NBHDGroupNum EQ 4 AND STYLE EQ 13) Townhouse = 0.
* IF (NBHDGroupNum EQ 6 AND STYLE EQ 4) ModifiedRanch = 0.
* IF (NBHDGroupNum EQ 6 AND STYLE EQ 16) HomeOwnerAssoc = 0.
* IF (NBHD EQ 48 AND STYLE EQ 8) Oldstyle = 0.
* IF (NBHDGroupNum EQ 7 AND STYLE EQ 1) Ranch = 0.
* IF (NBHD EQ 44 AND STYLE EQ 2) RaisedRanch = 0.
* IF (NBHDGroupNum EQ 7 AND STYLE EQ 3) SplitLevel = 0.
* IF (NBHDGroupNum EQ 8 AND STYLE EQ 9) OldStyle = 0.
* IF (NBHDGroupNum EQ 8 AND STYLE EQ 18) Sbranch = 0.
* IF (NBHDGroupNum EQ 8 AND STYLE EQ 11) DuplexTriplex = 0.
* IF (NBHDGroupNum EQ 9 AND STYLE EQ 4) ModifiedRanch = 0.

*****.
***QUALITY***.

* RECODE QUAL (1 = 1)(ELSE=0) INTO QualEMinus.
* RECODE QUAL (4 = 1)(ELSE=0) INTO QualDMinus. /* 13 SALES - 84 POP.
RECODE QUAL (1 = 1.50)(4 = 1.25)(5 = 1)(ELSE=0) INTO QualEMinusDMinus.
RECODE QUAL (6 = 1)(7=.70)(ELSE=0) INTO QualDPlusCminus.
* RECODE QUAL (7 = 1)(ELSE=0) INTO QualCminus.
* RECODE QUAL (8 = 1)(ELSE=0) INTO QualC.
RECODE QUAL (9 = 1)(ELSE=0) INTO QualCplus.
RECODE QUAL (10 = 1)(ELSE=0) INTO QualBminus.
RECODE QUAL (11 = 1)(ELSE=0) INTO QualB.
* RECODE QUAL (11 = 1)(12 = 1.05)(13 = 1.10)(14 = 1.15)(15 = 1.2)(16 = 1.25)(17 =
1.3)(18 = 1.35)(19 = 1.45)(20 = 1.5)(21 = 1.55)(22 = 1.6)(23 = 1.65)(ELSE=0) INTO
QualBandUp. /* 65 SALES - 437 POP.
RECODE QUAL (12 = 1)(ELSE=0) INTO QualBPlus. /* 20 SALES - 139 POP.
* RECODE QUAL (13 = 1)(ELSE=0) INTO QualAMinus. /* 4 SALES - 15 POP.
* RECODE QUAL (14 = 1)(ELSE=0) INTO QualA. /* 0 SALES - 11 POP.
* RECODE QUAL (15 = 1)(ELSE=0) INTO QualAPlus. /* 0 SALES - 3 POP.
* RECODE QUAL (16 = 1)(ELSE=0) INTO QualXMinus. /* 1 SALES - 4 POP.
* RECODE QUAL (17 = 1)(ELSE=0) INTO QualX. /* 1 SALES - 5 POP.
* RECODE QUAL (12 = 1)(13 = 1.05)(15 = 1.10)(16 = 1.15)(17 = 1.20)(18 = 1.25)(19 =
1.30)(20 = 1.35)(21 = 1.40)(22 = 1.45)(23 = 1.50)(ELSE=0) INTO QuaBPlusandUp.
RECODE QUAL (13 = 1)(14 = 1.10)(15 = 1.20)(16 = 1.30)(17 = 1.40)(18 = 1.5)(19 =
1.6)(20 = 1.70)(21 = 1.80)(22 = 1.9)(23 = 2.00)(ELSE=0) INTO QuaAandUp.

* COMPUTE NBHD128GECPLUS = 0.
* IF(NBHD EQ 128 AND QUAL GE 9) NBHD128GECPLUS =1.

*****.
*****CDU*****.

* RECODE CDU (1 = 1)(ELSE=0) INTO CDU_Unsound. /* 0 .
* RECODE CDU (2 = 1)(ELSE=0) INTO CDU_VeryPoor. /* 1 POP.
* RECODE CDU (3 = 1)(ELSE=0) INTO CDU_Poor. /* 4 SALES - 11 POP.
* RECODE CDU (4 = 1)(ELSE=0) INTO CDU_Fair. /* 299 SALES - 2401 POP.
* RECODE CDU (1 = 1.15)(2 = 1.10)(3 = 1.05)(4 = 1)(ELSE=0) INTO
CDU_UnsoundVeryPoorPoorFair.
* RECODE CDU (5 = 1)(ELSE=0) INTO CDU_Average. /* 4982 SALES - 36083 POP --- BASE.
* RECODE CDU (6 = 1)(ELSE=0) INTO CDU_Good. /* 2316 SALES - 15994 POP.
* RECODE CDU (6 = 1)(7 = 1.15)(ELSE=0) INTO CDU_GoodVeryGood. /* 753 SALES - 5287
POP.
* RECODE CDU (7 = 1)(ELSE=0) INTO CDU_VeryGood. /* 753 SALES - 5287 POP.
* RECODE CDU (8 = 1)(ELSE=0) INTO CDU_Excellent. /* 53 SALES - 372 POP.
* RECODE CDU (6 = .5)(7 = 1)(8 = 3)(ELSE=0) INTO CDU_GoodVeryGoodExcellent.

* Will just test Condition - Should be Colinear with CDU.

*****.
***EXTWALL***.

```

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```
RECODE EXTWALL (1 = 1)(ELSE=0) INTO EXT_Frame. /* 1062 SALES - 7158 POP.
RECODE EXTWALL (2 = 1)(ELSE=0) INTO EXT_Brick. /* 158 SALES - 1119 POP.
RECODE EXTWALL (3 = 1)(ELSE=0) INTO EXT_MasFrame. /* 573 SALES - 4200 POP.
* RECODE EXTWALL (4 = 1)(ELSE=0) INTO EXT_ConcBlock. /* 5 SALES - 11 POP.
RECODE EXTWALL (4 7 9 = 1)(ELSE=0) INTO EXT_ConcBlockMasonry.
RECODE EXTWALL (5 = 1)(ELSE=0) INTO EXT_Stucco. /* 256 SALES - 1672 POP.
* RECODE EXTWALL (6 = 1)(ELSE=0) INTO EXT_AlumVinyl. /* 5115 SALES - 37433 POP --- BASE.
* RECODE EXTWALL (7 = 1)(ELSE=0) INTO EXT_Stone. /* 2 SALES - 24 POP.
RECODE EXTWALL (8 = 1)(ELSE=0) INTO EXT_Composition. /* 1226 SALES - 8424 POP.
* RECODE EXTWALL (9 = 1)(ELSE=0) INTO EXT_Masonry. /* 8 SALES - 84 POP.
* RECODE EXTWALL (10 = 1)(ELSE=0) INTO EXT_Log. /* SALES - 3 POP. /*RATIO TEST.
* RECODE EXTWALL (11 = 1)(ELSE=0) INTO EXT_CementFiber. /* 2 SALES - 21 POP.
```

\*\*\*\*\*

\*\*\*BSMT\*\*\*.

```
* RECODE BSMT (0 = 1)(ELSE=0) INTO BSMT_None.
* RECODE BSMT (1 = 1)(ELSE=0) INTO BSMT_14orSlab.
* RECODE BSMT (2 = 1)(ELSE=0) INTO BSMT12orCrawl.
* RECODE BSMT (3 = 1)(ELSE=0) INTO BSMT34.
* RECODE BSMT (4 = 1)(ELSE=0) INTO BSMT_Full. /* --- BASE.
```

\*\*\*\*\*

\*HEAT.

```
* Will use Heat System Rather Than variable Heat.
* RECODE HEAT (1 = 1)(ELSE=0) INTO HEAT_None. /* 2 SALES - 15 POP. /*RATIO TEST.
* RECODE HEAT (2 = 1)(ELSE=0) INTO HEAT_NonCntrl. /* 2 SALES - 19 POP. /*RATIO TEST.
* RECODE HEAT (3 = 1)(ELSE=0) INTO HEAT_CntrlHt. /* 6064 SALES - 42854 POP --- BASE.
* RECODE HEAT (4 = 1)(ELSE=0) INTO HEAT_CntrlHtAc. /* 2339 SALES - 17260 POP.
* EXECUTE.
```

\*\*\*\*\*

\*FUEL.

```
* RECODE FUEL (1 = 1)(ELSE=0) INTO Oil. /* 6348 SALES - 45108 POP --- BASE.
* RECODE FUEL (2 = 1)(ELSE=0) INTO CoalStoker. /* 2 SALES - 21 POP. /*RATIO TEST.
* RECODE FUEL (3 = 1)(ELSE=0) INTO Gas. /* 1879 SALES - 13885 POP.
* RECODE FUEL (4 = 1)(ELSE=0) INTO CoalHand Fired. /* 6 SALES - 36 POP. /*RATIO TEST.
* RECODE FUEL (5 = 1)(ELSE=0) INTO Solar. /* 1 SALES - 6 POP. /*RATIO TEST.
* RECODE FUEL (6 = 1)(ELSE=0) INTO Electric. /* 6 SALES - 73 POP. /*RATIO TEST.
* RECODE FUEL (7 = 1)(ELSE=0) INTO FUELOther. /* 165 SALES - 1017 POP.
* RECODE FUEL (8 = 1)(ELSE=0) INTO Geothermal. /* 0 SALES - 4 POP.
```

\*\*\*\*\*

\*HEATSYS.

```
* Will use Heat System Rather Than variable Heat.
* RECODE HEATSYS (1 = 1)(ELSE=0) INTO HtSysSteamVapor. /* 3136 SALES - 6751 POP.
* RECODE HEATSYS (2 = 1)(ELSE=0) INTO HtSysHotWater. /* 10413 SALES - 31274 POP ---- Base.
* RECODE HEATSYS (3 = 1)(ELSE=0) INTO HtSysElectricSolar. /* 13 SALES - 73 POP. /*RATIO TEST.
RECODE HEATSYS (4 = 1)(ELSE=0) INTO HtSysForcedHotAir. /* 2090 SALES - 4238 POP.
RECODE HEATSYS (5 = 1)(ELSE=0) INTO HtSysCentralWithAC. /* 4596 SALES - 17106 POP.
* RECODE HEATSYS (6 = 1)(ELSE=0) INTO HtSysUnused.
RECODE HEATSYS (7 = 1)(ELSE=0) INTO HtSysHotAir. /* 21 SALES - 151 POP.
RECODE HEATSYS (8 = 1)(ELSE=0) INTO HtSysPipeless. /* 59 SALES - 439 POP.
* RECODE HEATSYS (9 = 1)(ELSE=0) INTO HtSysNoHeat. /* 18 SALES - 113 POP.
```

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```
*****  
*ATTIC.  
* WILL USE SQFT INSTEAD.  
*****  
*ROOFCOVER ROOFTYPE HVACTYPE - WILL TEST IN RATIO STUDY.
```

```
COMPUTE Fireplacedx = WBFP_O + WBFP_S + WBFP_PF.  
DO IF(FireplaceX GT 0).  
COMPUTE LNFirreplaceX = LN(FireplaceX).  
END IF.  
RECODE LNFirreplaceX (SYSMIS = 0).  
*****
```

```
*BATHS.  
DO IF(FIXTOT GT 0).  
COMPUTE LNFIXTOT = LN(FIXTOT).  
END IF.  
RECODE LNFIXTOT (SYSMIS = 0).  
*****
```

```
* COMPUTE FULL_BATH = FIXBATH.  
* COMPUTE HALF_BATH = FIXHALF.  
* COMPUTE ADD_FIX = FIXADDL.  
*****
```

```
*LOCATION AND SITE QUALITATIVE VARIABLES.  
*****  
***NBHD.***.
```

```
* RECODE nbhd(41 = 1)(ELSE=0) INTO nbhd41. /* 904 SALES - 4363 POP. /*BASE.  
RECODE nbhd(42 = 1)(ELSE=0) INTO nbhd42. /* 18 SALES - 109 POP.  
RECODE nbhd(43 = 1)(ELSE=0) INTO nbhd43. /* 238 SALES - 1070 POP.  
RECODE nbhd(44 = 1)(ELSE=0) INTO nbhd44. /* 929 SALES - 3884 POP.  
RECODE nbhd(48 = 1)(ELSE=0) INTO nbhd48. /* 473 SALES - 2236 POP.  
* RECODE nbhd(49 = 1)(ELSE=0) INTO nbhd49. /* 603 SALES - 2468 POP.  
RECODE nbhd(52 = 1)(ELSE=0) INTO nbhd52. /* 386 SALES - 2031 POP.  
RECODE nbhd(53 = 1)(ELSE=0) INTO nbhd53. /* 344 SALES - 1573 POP.  
RECODE nbhd(54 = 1)(ELSE=0) INTO nbhd54. /* 265 SALES - 1129 POP.  
RECODE nbhd(55 = 1)(ELSE=0) INTO nbhd55. /* 514 SALES - 2034 POP.  
RECODE nbhd(56 = 1)(ELSE=0) INTO nbhd56. /* 770 SALES - 3545 POP.  
RECODE nbhd(57 = 1)(ELSE=0) INTO nbhd57. /* 123 SALES - 638 POP.  
RECODE nbhd(58 = 1)(ELSE=0) INTO nbhd58. /* 102 SALES - 597 POP.  
RECODE nbhd(59 = 1)(ELSE=0) INTO nbhd59. /* 115 SALES - 663 POP.  
RECODE nbhd(85 = 1)(ELSE=0) INTO nbhd85. /* 411 SALES - 1746 POP.  
RECODE nbhd(86 = 1)(ELSE=0) INTO nbhd86. /* 269 SALES - 1378 POP.  
RECODE nbhd(88 = 1)(ELSE=0) INTO nbhd88. /* 127 SALES - 534 POP.  
RECODE nbhd(89 = 1)(ELSE=0) INTO nbhd89. /* 227 SALES - 1050 POP.  
RECODE nbhd(90 = 1)(ELSE=0) INTO nbhd90. /* 430 SALES - 1771 POP.  
RECODE nbhd(91 = 1)(ELSE=0) INTO nbhd91. /* 561 SALES - 2419 POP.  
RECODE nbhd(92 = 1)(ELSE=0) INTO nbhd92. /* 253 SALES - 1231 POP.  
RECODE nbhd(93 = 1)(ELSE=0) INTO nbhd93. /* 520 SALES - 2332 POP.
```

```
* RECODE nbhd(94 = 1)(ELSE=0) INTO nbhd94. /* 301 SALES - 1320 POP.  
IF(NBHD EQ 94 AND SchoolDistName EQ 'MAS')NBHD94SchoolDist_MAS = 1.  
IF(NBHD EQ 94 AND SchoolDistName EQ 'FAR')NBHD94SchoolDist_FAR = 1.
```

```
RECODE nbhd(95 = 1)(ELSE=0) INTO nbhd95. /* 519 SALES - 2308 POP.
```

```
* RECODE nbhd(96 = 1)(ELSE=0) INTO nbhd96. /* 479 SALES - 2247 POP.  
IF(NBHD EQ 96 AND SchoolDistName EQ 'MAS')NBHD96SchoolDist_MAS = 1.
```

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```

IF(NBHD EQ 96 AND SchoolDistName EQ 'FAR')NBHD96SchoolDist_FAR = 1.

RECODE nbhd(114 = 1)(ELSE=0) INTO nbhd114. /* 385 SALES - 1763 POP.
* RECODE nbhd(115 = 1)(ELSE=0) INTO nbhd115. /* 488 SALES - 2312 POP.
RECODE nbhd(116 = 1)(ELSE=0) INTO nbhd116. /* 350 SALES - 1741 POP.
RECODE nbhd(120 = 1)(ELSE=0) INTO nbhd120. /* 454 SALES - 1984 POP.
RECODE nbhd(121 = 1)(ELSE=0) INTO nbhd121. /* 341 SALES - 1454 POP.
RECODE nbhd(122 = 1)(ELSE=0) INTO nbhd122. /* 345 SALES - 1521 POP.
RECODE nbhd(128 = 1)(ELSE=0) INTO nbhd128. /* 392 SALES - 1634 POP.
RECODE nbhd(129 = 1)(ELSE=0) INTO nbhd129. /* 364 SALES - 1497 POP.
RECODE nbhd(130 = 1)(ELSE=0) INTO nbhd130. /* 474 SALES - 1763 POP.
RECODE nbhd(131 = 1)(ELSE=0) INTO nbhd131. /* 497 SALES - 1974 POP.
RECODE nbhd(132 = 1)(ELSE=0) INTO nbhd132. /* 684 SALES - 3337 POP.
RECODE nbhd(133 = 1)(ELSE=0) INTO nbhd133. /* 298 SALES - 1371 POP.
RECODE nbhd(134 = 1)(ELSE=0) INTO nbhd134. /* 347 SALES - 1529 POP.

EXECUTE.

* COMPUTE NBHD_CHECK = SUM(nbhd41 TO nbhd134).
* FREQUENCIES NBHD_CHECK.
* TEMPORARY.
* SELECT IF(NBHD_CHECK EQ 0).
* FREQUENCIES NBHD.
* EXECUTE.

IF (ANY(SECBLOCK, "48 126"))BLK_48_126 = 1.
IF (ANY(SECBLOCK, "48 127"))BLK_48_127 = 1.
IF (ANY(SECBLOCK, "48 135"))BLK_48_135 = 1.
IF (ANY(SECBLOCK, "48 146"))BLK_48_146 = 1.
IF (ANY(SECBLOCK, "48 163"))BLK_48_163 = 1.
IF (ANY(SECBLOCK, "48 164"))BLK_48_164 = 1.
IF (ANY(SECBLOCK, "48 165"))BLK_48_165 = 1.
IF (ANY(SECBLOCK, "48 205"))BLK_48_205 = 1.
IF (ANY(SECBLOCK, "48 425"))BLK_48_425 = 1.
IF (ANY(SECBLOCK, "48 435"))BLK_48_435 = 1.
IF (ANY(SECBLOCK, "48 561"))BLK_48_561 = 1.
IF (ANY(SECBLOCK, "48 569"))BLK_48_569 = 1.
IF (ANY(SECBLOCK, "48 591"))BLK_48_591 = 1.
IF (ANY(SECBLOCK, "50 U"))BLK_50_U = 1.
IF (ANY(SECBLOCK, "50 374"))BLK_50_374 = 1.
IF (ANY(SECBLOCK, "50 379"))BLK_50_379 = 1.
IF (ANY(SECBLOCK, "50 555"))BLK_50_555 = 1.
IF (ANY(SECBLOCK, "50 597"))BLK_50_597 = 1.
IF (ANY(SECBLOCK, "51 291"))BLK_51_291 = 1.
IF (ANY(SECBLOCK, "51 454"))BLK_51_454 = 1.
IF (ANY(SECBLOCK, "51 470"))BLK_51_470 = 1.
IF (ANY(SECBLOCK, "52 129"))BLK_52_129 = 1.
IF (ANY(SECBLOCK, "52 262"))BLK_52_262 = 1.
IF (ANY(SECBLOCK, "53 092"))BLK_53_092 = 1.
IF (ANY(SECBLOCK, "53 145"))BLK_53_145 = 1.
IF (ANY(SECBLOCK, "53 162"))BLK_53_162 = 1.
IF (ANY(SECBLOCK, "53 165"))BLK_53_165 = 1.
IF (ANY(SECBLOCK, "53 189"))BLK_53_189 = 1.
IF (ANY(SECBLOCK, "53 195"))BLK_53_195 = 1.
IF (ANY(SECBLOCK, "54 098"))BLK_54_098 = 1.
IF (ANY(SECBLOCK, "54 199"))BLK_54_199 = 1.
IF (ANY(SECBLOCK, "54 213"))BLK_54_213 = 1.
IF (ANY(SECBLOCK, "54 21801"))BLK_54_21801 = 1.
IF (ANY(SECBLOCK, "54 282"))BLK_54_282 = 1.
IF (ANY(SECBLOCK, "54 336"))BLK_54_336 = 1.
IF (ANY(SECBLOCK, "54 461"))BLK_54_461 = 1.
IF (ANY(SECBLOCK, "54 467"))BLK_54_467 = 1.
IF (ANY(SECBLOCK, "54 573"))BLK_54_573 = 1.
IF (ANY(SECBLOCK, "55 P"))BLK_55_P = 1.

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IF (ANY(SECBLOCK, "55 012"))BLK_55_012 = 1.
IF (ANY(SECBLOCK, "55 014"))BLK_55_014 = 1.
IF (ANY(SECBLOCK, "55 100"))BLK_55_100 = 1.
IF (ANY(SECBLOCK, "55 143"))BLK_55_143 = 1.
IF (ANY(SECBLOCK, "55 146"))BLK_55_146 = 1.
IF (ANY(SECBLOCK, "55 154"))BLK_55_154 = 1.
IF (ANY(SECBLOCK, "55 511"))BLK_55_511 = 1.
IF (ANY(SECBLOCK, "55 523"))BLK_55_523 = 1.
IF (ANY(SECBLOCK, "55 526"))BLK_55_526 = 1.
IF (ANY(SECBLOCK, "55 529"))BLK_55_529 = 1.
IF (ANY(SECBLOCK, "55 540"))BLK_55_540 = 1.
IF (ANY(SECBLOCK, "55 B09"))BLK_55_B09 = 1.
IF (ANY(SECBLOCK, "56 L"))BLK_56_L = 1.
IF (ANY(SECBLOCK, "56 007"))BLK_56_007 = 1.
IF (ANY(SECBLOCK, "56 098"))BLK_56_098 = 1.
IF (ANY(SECBLOCK, "56 153"))BLK_56_153 = 1.
IF (ANY(SECBLOCK, "56 207"))BLK_56_207 = 1.
IF (ANY(SECBLOCK, "56 247"))BLK_56_247 = 1.
IF (ANY(SECBLOCK, "56 267"))BLK_56_267 = 1.
IF (ANY(SECBLOCK, "56 438"))BLK_56_438 = 1.
IF (ANY(SECBLOCK, "56 440"))BLK_56_440 = 1.
IF (ANY(SECBLOCK, "56 446"))BLK_56_446 = 1.
IF (ANY(SECBLOCK, "56 450"))BLK_56_450 = 1.
IF (ANY(SECBLOCK, "56 462"))BLK_56_462 = 1.
IF (ANY(SECBLOCK, "56 488"))BLK_56_488 = 1.
IF (ANY(SECBLOCK, "56 502"))BLK_56_502 = 1.
IF (ANY(SECBLOCK, "57 C"))BLK_57_C = 1.
IF (ANY(SECBLOCK, "57 032"))BLK_57_032 = 1.
IF (ANY(SECBLOCK, "57 045"))BLK_57_045 = 1.
IF (ANY(SECBLOCK, "57 086"))BLK_57_086 = 1.
IF (ANY(SECBLOCK, "57 234"))BLK_57_234 = 1.
IF (ANY(SECBLOCK, "57 288"))BLK_57_288 = 1.
IF (ANY(SECBLOCK, "62 004"))BLK_62_004 = 1.
IF (ANY(SECBLOCK, "62 069"))BLK_62_069 = 1.
IF (ANY(SECBLOCK, "62 076"))BLK_62_076 = 1.
IF (ANY(SECBLOCK, "62 101"))BLK_62_101 = 1.
IF (ANY(SECBLOCK, "62 143"))BLK_62_143 = 1.
IF (ANY(SECBLOCK, "62 156"))BLK_62_156 = 1.
IF (ANY(SECBLOCK, "62 181"))BLK_62_181 = 1.
IF (ANY(SECBLOCK, "62 191"))BLK_62_191 = 1.
IF (ANY(SECBLOCK, "62 194"))BLK_62_194 = 1.
IF (ANY(SECBLOCK, "62 197"))BLK_62_197 = 1.
IF (ANY(SECBLOCK, "62 209"))BLK_62_209 = 1.
IF (ANY(SECBLOCK, "62 210"))BLK_62_210 = 1.
IF (ANY(SECBLOCK, "62 215"))BLK_62_215 = 1.
IF (ANY(SECBLOCK, "62 225"))BLK_62_225 = 1.
IF (ANY(SECBLOCK, "63 149"))BLK_63_149 = 1.
IF (ANY(SECBLOCK, "63 178"))BLK_63_178 = 1.
IF (ANY(SECBLOCK, "63 180"))BLK_63_180 = 1.
IF (ANY(SECBLOCK, "63 183"))BLK_63_183 = 1.
IF (ANY(SECBLOCK, "63 204"))BLK_63_204 = 1.
IF (ANY(SECBLOCK, "63 274"))BLK_63_274 = 1.
IF (ANY(SECBLOCK, "63 283"))BLK_63_283 = 1.
IF (ANY(SECBLOCK, "63 284"))BLK_63_284 = 1.
IF (ANY(SECBLOCK, "63 290"))BLK_63_290 = 1.
IF (ANY(SECBLOCK, "63 300"))BLK_63_300 = 1.
IF (ANY(SECBLOCK, "63 320"))BLK_63_320 = 1.
IF (ANY(SECBLOCK, "63 321"))BLK_63_321 = 1.
IF (ANY(SECBLOCK, "63 330"))BLK_63_330 = 1.
IF (ANY(SECBLOCK, "63 333"))BLK_63_333 = 1.
IF (ANY(SECBLOCK, "65 049"))BLK_65_049 = 1.
IF (ANY(SECBLOCK, "65 191"))BLK_65_191 = 1.
IF (ANY(SECBLOCK, "65 200"))BLK_65_200 = 1.

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IF (ANY(SECBLOCK,"65 220"))BLK_65_220 = 1.
IF (ANY(SECBLOCK,"65 228"))BLK_65_228 = 1.
IF (ANY(SECBLOCK,"65 252"))BLK_65_252 = 1.
IF (ANY(SECBLOCK,"65 265"))BLK_65_265 = 1.
IF (ANY(SECBLOCK,"66 026"))BLK_66_026 = 1.
IF (ANY(SECBLOCK,"66 061"))BLK_66_061 = 1.
IF (ANY(SECBLOCK,"66 064"))BLK_66_064 = 1.
IF (ANY(SECBLOCK,"66 087"))BLK_66_087 = 1.

RECODE BLK_48_126 TO BLK_66_087 (SYSMIS = 0).

*****
* SUBDIVISION ADJUSTMENTS - AS NEEDED.

RECODE NBHD96SchoolDist_MAS NBHD96SchoolDist_FAR NBHD94SchoolDist_MAS
NBHD94SchoolDist_FAR (SYSMIS = 0).
EXECUTE.
*****.
*WaterAttribute***.
* None is base.

COMPUTE Water_BayX = Water_Bay.
IF(SUM(Water_Sound, Water_Ocean) GT 0)Water_BayX = 0.
COMPUTE Water_CanalX = Water_Canal.
IF(SUM(Water_Sound, Water_Ocean, Water_Bay) GT 0)Water_CanalX = 0.
COMPUTE Water_LakeX = Water_Lake.
COMPUTE Water_OceanX = Water_Ocean.
COMPUTE Water_SoundX = Water_Sound.
COMPUTE Water_WaterViewX = Water_WaterView.
IF(SUM(Water_BayX, Water_CanalX, Water_OceanX, Water_SoundX) GT 0)Water_WaterViewX =
0.

COMPUTE N_5_9_BAY = 0.
IF (Water_BayX EQ 1 AND (ANY(NBHDGroupNum, 5,9))) N_5_9_BAY = 1.

COMPUTE NBHD_56_BAY = 0.
IF (Water_BayX EQ 1 AND (ANY(NBHD, 56))) NBHD_56_BAY = 1.

COMPUTE NBHD_59_BAY = 0.
IF (Water_BayX EQ 1 AND (ANY(NBHD, 59))) NBHD_59_BAY = 1.

* COMPUTE NBHD_54_CANAL = 0.
* IF (Water_Canal EQ 1 AND (ANY(NBHD, 54))) NBHD_54_CANAL = 1.

COMPUTE NBHD_90_BAY = 0.
IF (Water_BayX EQ 1 AND (ANY(NBHD, 90))) NBHD_90_BAY = 1.

COMPUTE N_2_BAY = 0.
IF (Water_BayX EQ 1 AND (ANY(NBHDGroupNum, 2))) N_2_BAY = 1.

COMPUTE N4_LAKE = 0.
IF (Water_LakeX EQ 1 AND NBHDGroupNum EQ 4) N4_LAKE = 1.

COMPUTE NBHD_131_CANAL = 0.
IF (Water_CanalX EQ 1 AND (ANY(NBHD, 131))) NBHD_131_CANAL = 1.

COMPUTE NBHD_130_CANAL = 0.
IF (Water_CanalX EQ 1 AND (ANY(NBHD, 130))) NBHD_130_CANAL = 1.

* COMPUTE N5_CANAL = 0.
* IF (Water_CanalX EQ 1 AND NBHDGroupNum EQ 5) N5_CANAL = 1.

```

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```
*****
***** THESE ARE NOW CREATED AS BINARIES IN THE PROGNOSIS VIEW.
***** Location.***.
***** Fronting.***.

COMPUTE FR_SecondaryArteryStreet = 0.
IF(FR_SecondaryArtery EQ 1)FR_SecondaryArteryStreet = 1.
IF(FR_SecondaryStreet EQ 1)FR_SecondaryArteryStreet = 1.

***** Traffic***.
*****.
COMPUTE Traffic_Med_Heavy = 0.
IF(TrafficMedium = 1)Traffic_Med_Heavy = 1.
IF(TrafficHeavy = 1)Traffic_Med_Heavy = 1.10.

*****TOPO***.
*****.
*****.
*****.
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*****.
*****.
*****.

*COST CONSTRAINTS.
COMPUTE ExtraImpsCost = SUM(RCNVAL2, RCNVAL3).
* IF(ExtraImpsCost GT 0)LN_ExtraImpsCost = LN(ExtraImpsCost).
* RECODE LN_ExtraImpsCost (SYSMIS = 0).

COMPUTE Cabin_OfficeStudioCost = SUM(Cabin_ADJRCNLD, OfficeStudio_ADJRCNLD,
Clubhouse_ADJRCNLD).
COMPUTE UtilityCost = SUM(UtilityBldgRCNLD, UtilShed_ADJRCNLD).
COMPUTE AGCost = SUM(AGBldgs_ADJRCNLD, Barn_ADJRCNLD).
COMPUTE GreenhouseCost = SUM(GreenhouseRCNLD, Greenhouse_ADJRCNLD).
COMPUTE PoolCost = SUM(PoolVinylRCNLD, PoolConrcnld, PoolFbgl_ADJRCNLD,
PoolGuni_ADJRCNLD, PoolVinyl_ADJRCNLD, SpaJacuzzi_ADJRCNLD).
IF(PoolCost GT 0)LN_PoolCost = LN(PoolCost).
RECODE LN_PoolCost (SYSMIS = 0).

COMPUTE EnclPoolCost = SUM(EnclPoolLowRCNLD, EnclPoolHighRCNLD,
PoolEnclosure_ADJRCNLD, BathHouse_ADJRCNLD).
COMPUTE WallCost = SUM(Fence_ADJRCNLD, MasonryWall_ADJRCNLD, Paving_ADJRCNLD).
COMPUTE MiscImpCost = SUM(ElevatorRCNLD, TennisCourt_ADJRCNLD, Cellar_ADJRCNLD,
MiscAddnRCNLD).
COMPUTE MiscWaterImpCost = SUM(BoatDock_ADJRCNLD, BoatHouseEnclosed_ADJRCNLD,
BoatHouseOpen_ADJRCNLD, BoatSlip_ADJRCNLD, Bulkhead_ADJRCNLD, Seawall_ADJRCNLD).
COMPUTE MiscCoverCost = SUM(Canopy_ADJRCNLD, Gazebo_ADJRCNLD, Terrace_ADJRCNLD).

COMPUTE COST_RCNLDx_P = SUM(Cabin_OfficeStudioCost_P, AGCost_P, EnclPoolCost_P,
WallCost_P, MiscImpCost_P, MiscWaterImpCost_P, MiscCoverCost_P).
COMPUTE COST_RCNLDx = SUM(Cabin_OfficeStudioCost, AGCost, GreenhouseCost,
EnclPoolCost, WallCost, MiscImpCost, MiscWaterImpCost, MiscCoverCost).
```

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RECODE COST\_RCNLDX (SYSMIS = 0).  
FORMATS ExtraImpsCost Cabin\_OfficeStudioCost UtilityCost AGCost GreenhouseCost  
PoolCost  
EnclPoolCost WallCost MiscImpCost MiscWaterImpCost MiscCoverCost COST\_RCNLDX  
COST\_RCNLDX\_P (COMMA10.0).

TEMPORARY.

SELECT IF(COST\_RCNLDX GT 0).  
DESCRIPTIVES COST\_RCNLDX COST\_RCNLDX\_P.

\*\*\*\*\*PREDICTION\*\*\*\*\*

DO IF( PARCEL\_TYPE EQ 'S').  
\* COMPUTE ADJPRICE = SOLDPRICE.  
COMPUTE ADJPRICE = TASP.  
END IF.

\*\*\*\*\*

\* LAND VALUE.

COMPUTE PCT\_GOOD\_ADJ = EXP( + .150767793857304 \* LN\_PCT\_GOOD).  
COMPUTE GarageDetachedPctGood\_ADJ = EXP( + .023788236871432 \*  
LN\_GarageDetachedPctGood).  
COMPUTE Water\_ADJ = EXP( + .246127883519785 \* Water\_Bay  
+ .087055431116503 \* Water\_Canal  
+ .073072652796278 \* N\_5\_9\_BAY  
+ .293483347712824 \* NBHD\_90\_BAY  
+ .063624150853788 \* N4\_LAKE  
+ .171644430877532 \* NBHD\_130\_CANAL).  
COMPUTE LOC\_ADJ = EXP( + -.066956742507881 \* LOC\_MajorHighway  
+ -.038452747191608 \* LOC\_SecondaryStreet  
+ -.076318103797329 \* LOC\_LongIslandRailRoad  
+ -.072258667004720 \* LOC\_CommercialOrIndustrial  
+ .017891135856523 \* LOC\_GolfCourse  
+ -.044403640149055 \* LOC\_ReligiousInstitution  
+ -.018249819697671 \* LOC\_School).  
COMPUTE FRONTING\_ADJ = EXP( + -.070333229385039 \* FR\_MajorStrip  
+ -.020287626435561 \* FR\_SecondaryArteryStreet).  
COMPUTE TRAFFIC\_ADJ = EXP( + -.033640950475550 \*  
Traffic\_Med\_Heavy).

COMPUTE SITEADJ = Water\_ADJ \* LOC\_ADJ \* FRONTING\_ADJ \* TRAFFIC\_ADJ .  
COMPUTE SUM\_Acres = SUMLAND / 43560.

\* COMPUTE TEMP1 = ESP\_ECON \* .40.

\* AGGREGATE  
/OUTFILE = \* MODEL=ADDVARIABLES  
/BREAK = NBHD  
/BaseValue = MEDIAN(TEMP1)  
/LandSqftMedian = median(SUMLANDx) .

COMPUTE BaseValue = 200000.  
IF(NBHD EQ 41)BaseValue = 197412.97633972140.  
IF(NBHD EQ 42)BaseValue = 198998.08038634800.  
IF(NBHD EQ 43)BaseValue = 199410.00178654260.  
IF(NBHD EQ 44)BaseValue = 212662.53907298220.  
IF(NBHD EQ 48)BaseValue = 202414.54563587060.  
IF(NBHD EQ 49)BaseValue = 205127.14905219230.  
IF(NBHD EQ 52)BaseValue = 164209.32356620510.  
IF(NBHD EQ 53)BaseValue = 183693.09296298710.  
IF(NBHD EQ 54)BaseValue = 205245.60054305250.  
IF(NBHD EQ 55)BaseValue = 235339.23809137530.

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IF(NBHD EQ 56)BaseValue = 157682.94275865010.  
IF(NBHD EQ 57)BaseValue = 170840.00626850100.  
IF(NBHD EQ 58)BaseValue = 135539.68805803940.  
IF(NBHD EQ 59)BaseValue = 151621.53283523840.  
IF(NBHD EQ 85)BaseValue = 233801.08584011850.  
IF(NBHD EQ 86)BaseValue = 196256.80739449970.  
IF(NBHD EQ 88)BaseValue = 317820.01231803510.  
IF(NBHD EQ 89)BaseValue = 203718.10107717510.  
IF(NBHD EQ 90)BaseValue = 280061.90104804310.  
IF(NBHD EQ 91)BaseValue = 224749.71219862540.  
IF(NBHD EQ 92)BaseValue = 201085.03284405830.  
IF(NBHD EQ 93)BaseValue = 206715.87551702960.  
IF(NBHD EQ 94)BaseValue = 185968.12411269280.  
IF(NBHD EQ 95)BaseValue = 196818.10794904140.  
IF(NBHD EQ 96)BaseValue = 189083.51703646130.  
IF(NBHD EQ 114)BaseValue = 217596.02297616060.  
IF(NBHD EQ 115)BaseValue = 204680.00494680990.  
IF(NBHD EQ 116)BaseValue = 201811.74409377440.  
IF(NBHD EQ 120)BaseValue = 196472.72238808740.  
IF(NBHD EQ 121)BaseValue = 158345.20024322700.  
IF(NBHD EQ 122)BaseValue = 203381.78118435960.  
IF(NBHD EQ 128)BaseValue = 226255.85105022040.  
IF(NBHD EQ 129)BaseValue = 205008.27384340460.  
IF(NBHD EQ 130)BaseValue = 250338.43374939420.  
IF(NBHD EQ 131)BaseValue = 278652.08660975820.  
IF(NBHD EQ 132)BaseValue = 224684.69423214660.  
IF(NBHD EQ 133)BaseValue = 236538.29930002960.  
IF(NBHD EQ 134)BaseValue = 212122.56466739150.

COMPUTE LandSqftMedian = 7000.0.  
IF(NBHD EQ 41)LandSqftMedian = 6440.0.  
IF(NBHD EQ 42)LandSqftMedian = 6048.0.  
IF(NBHD EQ 43)LandSqftMedian = 6480.0.  
IF(NBHD EQ 44)LandSqftMedian = 6500.0.  
IF(NBHD EQ 48)LandSqftMedian = 6780.0.  
IF(NBHD EQ 49)LandSqftMedian = 7200.0.  
IF(NBHD EQ 52)LandSqftMedian = 7560.0.  
IF(NBHD EQ 53)LandSqftMedian = 6250.0.  
IF(NBHD EQ 54)LandSqftMedian = 6300.0.  
IF(NBHD EQ 55)LandSqftMedian = 6500.0.  
IF(NBHD EQ 56)LandSqftMedian = 5952.0.  
IF(NBHD EQ 57)LandSqftMedian = 6600.0.  
IF(NBHD EQ 58)LandSqftMedian = 7426.5.  
IF(NBHD EQ 59)LandSqftMedian = 9041.0.  
IF(NBHD EQ 85)LandSqftMedian = 8000.0.  
IF(NBHD EQ 86)LandSqftMedian = 6791.5.  
IF(NBHD EQ 88)LandSqftMedian = 10200.0.  
IF(NBHD EQ 89)LandSqftMedian = 6000.0.  
IF(NBHD EQ 90)LandSqftMedian = 10000.0.  
IF(NBHD EQ 91)LandSqftMedian = 7392.0.  
IF(NBHD EQ 92)LandSqftMedian = 7344.0.  
IF(NBHD EQ 93)LandSqftMedian = 7000.0.  
IF(NBHD EQ 94)LandSqftMedian = 7020.0.  
IF(NBHD EQ 95)LandSqftMedian = 6000.0.  
IF(NBHD EQ 96)LandSqftMedian = 6000.0.  
IF(NBHD EQ 114)LandSqftMedian = 6678.0.  
IF(NBHD EQ 115)LandSqftMedian = 6000.0.  
IF(NBHD EQ 116)LandSqftMedian = 6360.0.  
IF(NBHD EQ 120)LandSqftMedian = 7050.0.  
IF(NBHD EQ 121)LandSqftMedian = 6000.0.  
IF(NBHD EQ 122)LandSqftMedian = 6300.0.  
IF(NBHD EQ 128)LandSqftMedian = 6750.0.  
IF(NBHD EQ 129)LandSqftMedian = 6000.0.

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IF(NBHD EQ 130)LandSqftMedian = 6100.0.
IF(NBHD EQ 131)LandSqftMedian = 6490.0.
IF(NBHD EQ 132)LandSqftMedian = 7625.0.
IF(NBHD EQ 133)LandSqftMedian = 7200.0.
IF(NBHD EQ 134)LandSqftMedian = 6000.0.

FORMATS BaseValue LandSqftMedian (comma10).
COMPUTE Base50Rate = BaseValue / LandSqftMedian**.50.

COMPUTE UnderWaterValue = 0.
IF(UNDERWATER_SF GT 0)UnderWaterValue = TRUNC(((UNDERWATER_SF**.50 * Base50Rate) *
.20) / 100) * 100.

COMPUTE IssueWgt = 1.
IF(LandIssueSF_Sum GT 0)IssueWgt = (LandIssuePCTX * LandIssueSF) /
(LandIssuePCT_ECONX * LandIssueSF_Sum).
DESCRIPTIVES IssueWgt.

IF(LandIssueSF_Sum LT 1000 AND LandIssuePCT_ECONX GT .10)LandIssuePCT_ECONX = .10.
COMPUTE LandIssueValue_ECON = 0.
IF(LandIssueSF_Sum GT 0)LandIssuevalue_ECON = (LandIssueSF_Sum**.50 * Base50Rate) *
LandIssuePCT_ECONX.
EXECUTE.

COMPUTE LandIssueValue = TRUNC((LandIssueValue_ECON * IssueWgt) / 100) * 100.
FORMATS UnderWaterValue LandIssuevalue LandIssueValue_ECON (COMMA10.0).
EXECUTE.

IF(SUMLANDX GT 0)Allocated50LandValue_ECON = TRUNC(SUMLANDX**.50 * Base50Rate *
SITEADJ).
IF(SUMLANDX GT 0 AND Discount EQ 1)Allocated50Landvalue_ECON = TRUNC(SUMLANDX**.50 *
(Base50Rate * .20) * SITEADJ).
RECODE Allocated50LandValue_ECON (SYSMIS = 0).
FORMATS Allocated50LandValue_ECON (COMMA10.0).
EXECUTE.

DO IF(SUMLANDX GT 0).
  COMPUTE PCT_LAND = RND(LANDSQFTX / SUMLANDX * 100) / 100.
END IF.
IF(PARCEL_TYPE EQ 'S')PCT_LAND = 1.
IF(SUMLANDX EQ 0)PCT_LAND = 1.
IF(LANDSQFTX NE SUMLANDX AND PCT_LAND LT .005 AND LANDSQFTX GT 100)PCT_LAND = .005.
FORMATS PCT_LAND (F5.3).

COMPUTE TMPLAND = (Allocated50LandValue_ECON * PCT_LAND) .
IF(TMPLAND GE 100000)ESP_LAND = TRUNC(TMPLAND / 1000) * 1000.
IF(TMPLAND LT 100000)ESP_LAND = TRUNC(TMPLAND / 100) * 100.
* IF(ESP_LAND LT 1000)ESP_LAND = 1000.

COMPUTE TOTAL_LAND_ECON = Allocated50Landvalue_ECON + LandIssuevalue_ECON.

COMPUTE LAND_TOTAL = ESP_LAND + UnderWaterValue + LandIssuevalue.
IF(LAND_TOTAL LT 500)LAND_TOTAL = 500.
FORMATS ESP_LAND UnderWaterValue LandIssueValue LAND_TOTAL TOTAL_LAND_ECON
(COMMA10.0).

DESCRIPTIVES TMPLAND ESP_LAND UnderWaterValue LandIssuevalue LAND_TOTAL
TOTAL_LAND_ECON.

*****
```

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```
*****  
DO IF(SFLA_ECON GT 0).  
COMPUTE ESP_ECON = EXP(11.131144282820640  
+ .260846055613771 * LNSQFTZ  
+ .028254682199783 * LN_UNFBSMTX_RATIO  
+ .077924661097101 * LN_FINBSMTX_RATIO  
+ .007431430588195 * LNRECBSMTX  
+ -.041840731839153 * NO_BSMT  
+ .109809049062006 * LN_LANDSIZERATIO1  
+ .062264825047332 * LN_LANDSIZERATIO2  
+ .054432431588088 * LN_LANDAmityvilleFreeportRATIO1  
+ .061626759319230 * LN_LANDAmityvilleFreeportRATIO2  
+ .139391157154921 * LN_LANDBaldwinRATIO1  
+ .052527310714337 * LN_LANDBaldwinRATIO2  
+ .178914242114222 * LN_LANDBellmoreRATIO1  
+ .078059817424578 * LN_LANDBellmoreRATIO2  
+ .205893606047746 * LN_LANDMerrickRATIO1  
+ .125007955647845 * LN_LANDMerrickRATIO2  
+ .168357852089110 * LN_LANDNorthMerrickRATIO1  
+ .048072662535402 * LN_LANDNorthMerrickRATIO2  
+ .150767793857304 * LN_PCT_GOOD  
+ .044099431362325 * RaisedRanch  
+ .042942903082216 * SplitLevel  
+ .048647601520995 * Colonial  
+ -.026561645342721 * BungalowCottage  
+ .138940082613118 * DuplexTriplex  
+ .048558847407754 * Splanchn  
+ .072472601086805 * N52_RAISEDRanch  
+ -.059510739181146 * N3_Ranch  
+ -.054164557662336 * N3_BungalowCottage  
+ .086733455782886 * N6_ModifiedRanch  
+ -.047705039747121 * N7_Ranch  
+ -.254154711903806 * N8_DuplexTriplex  
+ .075098654653454 * N9_ModifiedRanch  
+ -.061881594781347 * TwoFamily  
+ .143123718126537 * MULTIPLEXES  
+ -.076353053405416 * ConvertedResidenceX  
+ .096229312823687 * ElevatedHome  
+ -.063233953732101 * QualEminusDminusD  
+ -.010460719147610 * QualDplusCminus  
+ .037149581110447 * QualCplus  
+ .106993139302578 * QualBminus  
+ .129102323362221 * QualB  
+ .204086347023170 * QualBPlus  
+ .295198385999959 * QuaAandUp  
+ .021503069375502 * EXT_Stucco  
+ -.009843927349453 * EXT_Composition  
+ .050237089259552 * LN_LINGAR_RATIO  
+ .023788236871432 * LN_GarageDetachedPctGood  
+ .012416762174899 * LN_LINPORCH_RATIO  
+ .015412774861213 * LN_PatioX_RATIO  
+ .009885001716415 * LN_WoodDeckX_RATIO  
+ .053316318296554 * LN_PoolX_RATIO  
+ .057774701966843 * HtSysCentralWithAC  
+ -.061365126061885 * HtSysHotAir  
+ -.038305095105836 * HtSysPipeless  
+ .012738272239370 * LNFireplaceX  
+ .059388962478290 * LNFIXTOT  
+ .246127883519785 * Water_BayX  
+ .087055431116503 * Water_CanalX  
+ .073072652796278 * N_5_9_BAY  
+ .293483347712824 * NBHD_90_BAY
```

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 + .063624150853788 \* N4\_LAKE  
 + .171644430877532 \* NBHD\_130\_CANAL  
 + -.066956742507881 \* LOC\_MajorHighway  
 + -.038452747191608 \* LOC\_SecondaryStreet  
 + -.076318103797329 \* LOC\_LongIslandRailRoad  
 + -.072258667004720 \* LOC\_CommercialOrIndustrial  
 + .017891135856523 \* LOC\_GolfCourse  
 + -.044403640149055 \* LOC\_ReligiousInstitution  
 + -.018249819697671 \* LOC\_School  
 + -.070333229385039 \* FR\_MajorStrip  
 + -.020287626435561 \* FR\_SecondaryArteryStreet  
 + -.033640950475550 \* Traffic\_Med\_Heavy  
 + .033345098970146 \* nbhd43  
 + .059792233019863 \* nbhd44  
 + .028345841253433 \* nbhd48  
 + -.201139106190374 \* nbhd52  
 + -.027040107072664 \* nbhd53  
 + .020236856167789 \* nbhd54  
 + -.055136808628266 \* nbhd55  
 + -.225999251897452 \* nbhd56  
 + -.095699689196938 \* nbhd57  
 + -.353930763996880 \* nbhd58  
 + -.260480519812532 \* nbhd59  
 + .0634440006856392 \* nbhd88  
 + .055986760595745 \* nbhd89  
 + .050078839039890 \* nbhd90  
 + -.017490594146754 \* nbhd92  
 + .054426974307617 \* nbhd93  
 + -.051600805393144 \* NBHD94SchoolDist\_MAS  
 + -.102541258083755 \* NBHD94SchoolDist\_FAR  
 + -.116160033684277 \* NBHD96SchoolDist\_FAR  
 + .086765484156792 \* nbhd114  
 + .048017184092112 \* nbhd116  
 + -.017878682244408 \* nbhd120  
 + -.184608006607576 \* nbhd121  
 + -.175707896294514 \* nbhd122  
 + .048329755649944 \* nbhd128  
 + .018491770926136 \* nbhd129  
 + .020265657994863 \* nbhd130  
 + .026789542233959 \* nbhd131  
 + .047017876870607 \* nbhd132  
 + .121233578593498 \* nbhd133  
 + .073978257965166 \* nbhd134  
 + -.097900178394087 \* BLK\_48\_135  
 + .219879979969213 \* BLK\_48\_205  
 + .102219820829679 \* BLK\_50\_374  
 + -.063065899621455 \* BLK\_50\_597  
 + .090482446791780 \* BLK\_53\_189  
 + -.108975612361999 \* BLK\_54\_461  
 + .105138114031164 \* BLK\_55\_143  
 + .103692455959380 \* BLK\_55\_511  
 + -.145052540933561 \* BLK\_56\_207  
 + .211586127874317 \* BLK\_56\_440  
 + .161703416612097 \* BLK\_57\_032  
 + -.125666774977382 \* BLK\_62\_004  
 + -.175118731167474 \* BLK\_63\_149  
 + -.102988595946713 \* BLK\_63\_183  
 + .153392585282429 \* BLK\_63\_284  
 + .153566085483343 \* BLK\_65\_220  
 + .153566085483343 \* BLK\_65\_265  
 + .168049953552813 \* BLK\_66\_064  
 + .00117 \* LnSFLA2)  
 + 1 \* COST\_RCNLDX.

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```

END IF.

FORMATS ESP_ECON (COMMA10.0).

DO IF(PARCEL_TYPE EQ 'S').
  COMPUTE RATIO = ESP_ECON / TASP.
  COMPUTE RATIO2 = ESP_ECON / SOLDPRICE.
END IF.
EXECUTE.

INSERT FILE = !PredSyntax + 'Prognose\Market 6 2021 Coefficients.sps'
  SYNTAX = INTERACTIVE
  ERROR = STOP.

COMPUTE DIFF = ESP2 / ESP_ECON.
DESCRIPTIVES DIFF.

COMPUTE DIFF = ESP2 / ESP3.
DESCRIPTIVES DIFF.

IF(PCTCOMPLETE GT 0)CompletePercent = PCTCOMPLETE / 100.
RECODE CompletePercent (SYSMIS = 1).

DO IF(ESP_ECON GT 0).
  COMPUTE Allocated50ImpValue_ECON = TRUNC(ESP_ECON - TOTAL_LAND_ECON).
  * IF(Allocated50LandValue_ECON EQ 0)Allocated50ImpValue_ECON = TRUNC(ESP_ECON -
    LandIssueValue_ECON).
END IF.
RECODE Allocated50ImpValue_ECON (SYSMIS = 0).

STRING CostValue (A3).
COMPUTE CostValue = 'No'.
IF(Allocated50ImpValue_ECON LE 0)CostValue = 'Yes'.

COMPUTE IMP_COST_VALUE = TRUNC((RCNLD_P + ExtraImpsCost_P + COST_RCNLDX_P) / 1000)
* 1000.
FORMATS IMP_COST_VALUE (COMMA10.0).

DO IF(SFLA_ECON GT 0).
  COMPUTE PCT_IMP = RND(SFLA / SFLA_ECON * 100) / 100.
END IF.
RECODE PCT_IMP (SYSMIS = 0).

COMPUTE ESP_IMP = TRUNC(Allocated50ImpValue_ECON * PCT_IMP * CompletePercent / 1000)
* 1000.
IF(Allocated50ImpValue_ECON LE 0)ESP_IMP = IMP_COST_VALUE * CompletePercent.
IF(SFLA_ECON EQ 0)ESP_IMP = IMP_COST_VALUE * CompletePercent.
COMPUTE ESP_TOTAL = LAND_TOTAL + ESP_IMP.
FORMATS LAND_TOTAL ESP_LAND ESP_IMP ESP_TOTAL (COMMA10.0).

COMPUTE UseCost = 0.
COMPUTE LandOverride = 0.
COMPUTE ImpOverride = 0.
FORMATS LandOverride ImpOverride (COMMA10.0).

* Market 6.

IF(PARID EQ '62044 04090')UseCost = 1.
* IF(PARID EQ '66133 02330')UseCost = 1.

IF(PARID EQ '20 L 00030')LandOverride = TRUNC(300000 * Acres / 100) * 100.
IF(PARID EQ '20 L 00030')ImpOverride = 40000000.

```

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```
IF(EconUnitID EQ '24 B 0070H')LandOverride = TRUNC(300000 * Acres / 100) * 100.  
IF(EconUnitID EQ '24 B 0070H')ImpOverride = IMP_COST_VALUE.  
  
IF(EconUnitID EQ '24 E 00060')LandOverride = TRUNC(150000 * Acres / 100) * 100.  
IF(EconUnitID EQ '24 E 00060')ImpOverride = IMP_COST_VALUE.  
IF(PARID EQ '63118 0058B')LandOverride = 1500000.  
  
IF(UseCost EQ 1)CostValue = 'Yes'.  
  
IF(LandOverride GT 0)ESP_LAND = TRUNC(LandOverride * PCT_LAND / 1000) * 1000.  
IF(ImpOverride GT 0)ESP_IMP = TRUNC(ImpOverride * PCT_IMP * CompletePercent / 1000)  
* 1000.  
IF(UseCost EQ 1)ESP_IMP = IMP_COST_VALUE * CompletePercent.  
COMPUTE ESP_TOTAL = LAND_TOTAL + ESP_IMP.  
FORMATS ESP_LAND ESP_IMP ESP_TOTAL (COMMAD10.0).  
  
STRING QUAL_Text (A2).  
RECODE QUAL (1 = 'E-')(2 = 'E')(3 = 'E+')(4 = 'D-')(5 = 'D')(6 = 'D+')(7 = 'C-')(8 =  
'C')(9 = 'C+')(10 = 'B-')(11 = 'B')(12 = 'B+')(13 = 'A-')(14 = 'A')(15 = 'A+')(16 = 'X-')(17 =  
'X')(18 = 'X+')(19 = 'S-')(20 = 'S')(21 = 'S+')(22 = 'Z-')(23 = 'Z')(24 = 'Z+') INTO  
QUAL_Text.  
  
STRING CDU_Text (A10).  
RECODE CDU (1 = 'Unsound')(2 = 'Very Poor')(3 = 'Poor')(4 = 'Fair')(5 = 'Average')  
(6 = 'Good')(7 = 'Very Good')(8 = 'Excellent') INTO CDU_Text.  
  
STRING Style_Text (A25).  
RECODE Style (1 = 'Ranch')(2 = 'Raised Ranch/Hi Ranch')(3 = 'Split Level')(4 =  
'Modified Ranch')(5 = 'Cape')(6 = 'Colonial')(7 = 'Victorian')(8 = 'Contemporary')(9 = 'old style')(10 =  
'Bungalow, Cottage')(11 = 'Duplex, Triplex')(12 = 'Mansion, Estate')(13 = 'Townhouse')(14 = 'Condo')(16 = 'Homeowner  
Assoc')(17 = 'Other')(18 = 'Splanch')(19 = 'Carriage House')(20 = 'Tudor')(22 = '22') INTO Style_Text.  
  
* codebook luc.  
string LUC_Text (A20).  
IF (ANY(LUC, "2100", "2101", "2102", "2150", "2500")) LUC_Text = 'One Family'.  
IF (LUC EQ "2200") LUC_Text = 'Two Family'.  
IF (LUC EQ "2300") LUC_Text = 'Three Family'.  
IF (LUC EQ "2800") LUC_Text = 'Multi Residential'.  
IF(LUC_NUM GE 3000 AND LUC_NUM LT 4000) LUC_Text = 'Vacant Land'.  
IF (LUC EQ "4830") LUC_Text = 'Converted Residence'.  
IF(LUC_NUM GE 6000) LUC_Text = 'Exempt'.  
* alter type LUC_Text (amin).  
  
* codebook extwall.  
string EXTWALL_Text (A20).  
IF (EXTWALL EQ 1) EXTWALL_Text = 'Frame'.  
IF (EXTWALL EQ 2) EXTWALL_Text = 'Brick'.  
IF (EXTWALL EQ 3) EXTWALL_Text = 'Mas/Frame'.  
IF (EXTWALL EQ 4) EXTWALL_Text = 'Conc Blk'.  
IF (EXTWALL EQ 5) EXTWALL_Text = 'Stucco'.  
IF (EXTWALL EQ 6) EXTWALL_Text = 'Alum/Vinyl'.  
IF (EXTWALL EQ 7) EXTWALL_Text = 'Stone'.  
IF (EXTWALL EQ 8) EXTWALL_Text = 'Composition'.  
IF (EXTWALL EQ 9) EXTWALL_Text = 'Masonry'.  
IF (EXTWALL EQ 10) EXTWALL_Text = 'Log'.  
IF (EXTWALL EQ 11) EXTWALL_Text = 'Cement Fiber'.  
* alter type EXTWALL_Text (amin).
```

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```
* codebook bsmt.  
string Basement_Text (a20).  
IF (BSMT EQ 0) Basement_Text = 'None'.  
IF (BSMT EQ 1) Basement_Text = '1/4 Bsmt/Slab'.  
IF (BSMT EQ 2) Basement_Text = '1/2 Bsmt/Crawl'.  
IF (BSMT EQ 3) Basement_Text = '3/4 Bsmt'.  
IF (BSMT EQ 4) Basement_Text = 'Full'.  
* alter type Basement_Text (amin).  
  
* codebook heat.  
string Heat_Text (a10).  
IF (HEAT EQ 0) Heat_Text = 'N/A'.  
IF (HEAT EQ 1) Heat_Text = 'None'.  
IF (HEAT EQ 2) Heat_Text = 'Non-Cntrl'.  
IF (HEAT EQ 3) Heat_Text = 'Cntrl Ht'.  
IF (HEAT EQ 4) Heat_Text = 'Cntrl HtAC'.  
* alter type Heat_Text (amin).  
  
* codebook fuel.  
string Fuel_Text (a15).  
IF (FUEL EQ 0) Fuel_Text = 'N/A'.  
IF (FUEL EQ 1) Fuel_Text = 'Oil'.  
IF (FUEL EQ 2) Fuel_Text = 'Coal Stk'.  
IF (FUEL EQ 3) Fuel_Text = 'Gas'.  
IF (FUEL EQ 4) Fuel_Text = 'Coal Hnd'.  
IF (FUEL EQ 5) Fuel_Text = 'Solar'.  
IF (FUEL EQ 6) Fuel_Text = 'Elec'.  
IF (FUEL EQ 7) Fuel_Text = 'Other'.  
IF (FUEL EQ 8) Fuel_Text = 'Geothermal'.  
* alter type Fuel_Text (amin).  
  
* codebook heatsys.  
string Heatsys_Text (a15).  
IF (HEATSYS EQ 0) Heatsys_Text = 'N/A'.  
IF (HEATSYS EQ 1) Heatsys_Text = 'Steam/Vapor'.  
IF (HEATSYS EQ 2) Heatsys_Text = 'Hot Wtr'.  
IF (HEATSYS EQ 3) Heatsys_Text = 'Elec/Solar'.  
IF (HEATSYS EQ 4) Heatsys_Text = 'Forced Air'.  
IF (HEATSYS EQ 5) Heatsys_Text = 'Central AC'.  
IF (HEATSYS EQ 6) Heatsys_Text = 'N/A'.  
IF (HEATSYS EQ 7) Heatsys_Text = 'Hot Air'.  
IF (HEATSYS EQ 8) Heatsys_Text = 'Pipeless'.  
IF (HEATSYS EQ 9) Heatsys_Text = 'None'.  
* alter type Heatsys_Text (amin).  
* EXECUTE.
```

FORMATS AttBltGar DETGARx CARPORTx (COMMA10.0).

```
STRING Parking_Text (A100).  
IF (AttBltGar GT 0)Parking_Text =  
CONCAT('Att-',LTRIM(RTRIM(STRING(AttBltGar,F10)))).  
IF (DETGARx GT 0)Parking_Text =  
CONCAT(LTRIM(RTRIM(Parking_Text)), '/', 'Det-', LTRIM(RTRIM(STRING(DETGARx,F10)))).  
IF (CARPORTx GT 0)Parking_Text =  
CONCAT(LTRIM(RTRIM(Parking_Text)), '/', 'Cpt-', LTRIM(RTRIM(STRING(CARPORTx,F10)))).  
IF (CHAR.SUBSTR(Parking_Text,1,1) EQ '/')Parking_Text = CHAR.SUBSTR(Parking_Text,2).  
ALTER TYPE Parking_Text (AMIN).  
  
STRING Porch_Text (A100).  
IF (OpenPorchX GT 0)Porch_Text = CONCAT('Op-', LTRIM(RTRIM(STRING(OpenPorchX,F10)))).  
IF (EncPorchX GT 0)Porch_Text =  
CONCAT(LTRIM(RTRIM(Porch_Text)), '/', 'Ep-', LTRIM(RTRIM(STRING(EncPorchX,F10)))).
```

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IF (CHAR.SUBSTR(Porch_Text,1,1) EQ '/')Porch_Text = CHAR.SUBSTR(Porch_Text,2).
ALTER TYPE Parking_Text (AMIN).

STRING TerracePatio_Text (A100).
IF (TerraceX GT 0)TerracePatio_Text =
CONCAT('Ter-',LTRIM(RTRIM(STRING(TerraceX,F10))))..
IF (PatioX GT 0)TerracePatio_Text =
CONCAT(LTRIM(RTRIM(TerracePatio_Text)), '/', 'Pto-',LTRIM(RTRIM(STRING(PatioX,F10))))..
IF (CHAR.SUBSTR(TerracePatio_Text,1,1) EQ '/')TerracePatio_Text =
CHAR.SUBSTR(TerracePatio_Text,2).
ALTER TYPE Parking_Text (AMIN).

STRING ElevatedHome_Text (A3);
RECODE ElevatedHome (1 = 'Yes')(ELSE = 'No') INTO ElevatedHome_Text.

STRING YRBLT_Text (A12).
COMPUTE YRBLT_Text =
CONCAT(STRING(YRBLT,F4.0), '-', LTRIM(STRING((PCT_GOOD_ADJ*100),F6.2))).
EXECUTE.

STRING BATH_Text (A15).
COMPUTE BATH_Text =
CONCAT(LTRIM(RTRIM(STRING(FIXBATH,F4.0))), '-', LTRIM(RTRIM(STRING(FIXHALF,F4.0))), '-').
, LTRIM(RTRIM(STRING(FIXTOT,F4.0))).
EXECUTE.

SAVE OUTFILE !ModelData6 + 'PREDICTION.SAV'.

COMMENT BOOKMARK;LINE_NUM=820;ID=3.
COMMENT BOOKMARK;LINE_NUM=1033;ID=6.

```

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\* Encoding: UTF-8.

GET FILE= !ModelData7 + 'CONDO MASTER POPULATION WITH SALES FOR PROGNOSIS.sav'.  
DATASET NAME DataSet1 WINDOW=FRONT.

DO IF(PARCEL\_TYPE EQ 'P').  
COMPUTE VPPSF = TOTAPR1 / SFLA\_ECON.  
END IF.  
DO IF(PARCEL\_TYPE EQ 'S').  
COMPUTE SPPSF = SOLDPRICE / SFLA\_ECON.  
END IF.

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\* CROSSTABS SMONTH BY SYEAR.  
\* CROSSTABS TOWN BY PARCEL\_TYPE.

STRING NBHDGroup (A50).  
COMPUTE NBHDGroup = NBHD\_LAbel.  
DO IF(NBHD GT 0 AND CHAR.INDEX(NBHD\_LAbel,"-") GT 0).  
COMPUTE NBHDGroup = LTRIM(RTRIM(SUBSTR(NBHD\_LAbel,1,(CHAR.INDEX(NBHD\_LAbel,"-") - 1))).  
END IF.  
DO IF(INDEX(NBHD\_LAbel,"(") GT 0 AND NBHD GT 0).  
COMPUTE NBHDGroup = LTRIM(RTRIM(SUBSTR(NBHD\_LAbel,1,(CHAR.INDEX(NBHD\_LAbel,"(") - 1))).  
END IF.  
\* FREQUENCIES NBHDGroup.

IF(SUBCODE EQ 'CPLX\_105x')NBHDGroup = 'Grove at Hempstead'.  
IF(SUBCODE EQ 'CPLX\_106')NBHDGroup = 'Doubleday Court'.  
IF(SUBCODE EQ 'CPLX\_116')NBHDGroup = 'Dutchgate at North Valley Stream'.  
IF(SUBCODE EQ 'CPLX\_145')NBHDGroup = 'Parkview at Salisbury'.  
IF(SUBCODE EQ 'CPLX\_15')NBHDGroup = 'Mill Pond Acres Condo'.  
IF(SUBCODE EQ 'CPLX\_150')NBHDGroup = 'Bethpage'.  
IF(SUBCODE EQ 'CPLX\_152')NBHDGroup = 'Elizabeth Ann Gardens'.  
IF(SUBCODE EQ 'CPLX\_154')NBHDGroup = 'Seasons at Plainview'.  
IF(SUBCODE EQ 'CPLX\_155')NBHDGroup = 'Seasons at East Meadow'.  
IF(SUBCODE EQ 'CPLX\_161')NBHDGroup = 'The Seasons at Massapequa'.  
IF(SUBCODE EQ 'CPLX\_17')NBHDGroup = 'Knickerbocker Bay Club'.  
IF(SUBCODE EQ 'CPLX\_25')NBHDGroup = 'The Gates at North Hills'.  
IF(SUBCODE EQ 'CPLX\_32')NBHDGroup = 'West Village'.  
IF(SUBCODE EQ 'CPLX\_42x')NBHDGroup = 'The Hamlet On Olde Oyster Bay'.  
IF(SUBCODE EQ 'CPLX\_57')NBHDGroup = 'Woodbury Greens'.  
IF(SUBCODE EQ 'CPLX\_61x')NBHDGroup = 'The Hamlet'.  
IF(SUBCODE EQ 'CPLX\_966')NBHDGroup = 'Hearthstone at Farmingdale'.  
\* FREQUENCIES NBHDGroup.

\* TEMPORARY.  
\* SELECT IF(NBHDGROUP EQ '').  
\* FREQUENCIES NBHD SUBCODE.

IF(TOWN NE '')TOWNGROUP = NUMBER(TOWN, F1).  
RECODE TOWNGROUP (1 = 1) (2 = 2) (3 = 3) (4 = 4) (5 = 5) (ELSE = 1) INTO TGROUP.

STRING TGroupName (A20).

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RECODE tgroup (1 = '1 Hempstead') (2 = '2 North Hempstead') (3 = '3 Oyster Bay') (4
= '4 Glen Cove') (5 = '5 Long Beach') into TGroupName.
  * ALTER TYPE TGroupName (amin).
  * FREQUENCIES TGroupName.

DO IF(PARCEL_TYPE EQ 'S').
  COMPUTE SDATE = DATE.MOYR(SMONTH,SYEAR).
  FORMATS SDATE (MOYR6).

*ENTER YOUR STARTING DATE, BASE VALUATION DATE - FORMAT IS MONTH THEN YEAR.
  COMPUTE STARTDATE = DATE.MOYR(1,2011).
  COMPUTE BASEDATE = DATE.MOYR(12, 2018).
  COMPUTE TIMEPERIOD = DATEDIFF(BASEDATE,STARTDATE,"MONTHS") .
  COMPUTE MONTHS = DATEDIFF(SDATE,STARTDATE,"MONTHS") .
  COMPUTE MONTH = TIMEPERIOD - MONTHS.

  COMPUTE SPLINEDATE1 = DATE.MOYR(12, 2018).
  COMPUTE SPLINEDATE2 = DATE.MOYR(12, 2018).
  COMPUTE SPLINEDATE3 = DATE.MOYR(12, 2018).
  COMPUTE SPLINEDATE4 = DATE.MOYR(12, 2018).
  COMPUTE SPLINEDATE5 = DATE.MOYR(12, 2018).

IF(TGROUP EQ 1)SPLINEDATE1 = DATE.MOYR(8,2012).
IF(TGROUP EQ 1)SPLINEDATE2 = DATE.MOYR(10, 2013).
IF(TGROUP EQ 1)SPLINEDATE3 = DATE.MOYR(4, 2015).
IF(TGROUP EQ 1)SPLINEDATE4 = DATE.MOYR(6, 2016).
IF(TGROUP EQ 1)SPLINEDATE5 = DATE.MOYR(7, 2018).

IF(TGROUP EQ 2)SPLINEDATE1 = DATE.MOYR(3, 2013).
IF(TGROUP EQ 2)SPLINEDATE2 = DATE.MOYR(7, 2014).
IF(TGROUP EQ 2)SPLINEDATE3 = DATE.MOYR(5, 2016).
IF(TGROUP EQ 2)SPLINEDATE4 = DATE.MOYR(7, 2018).

IF(TGROUP EQ 3)SPLINEDATE1 = DATE.MOYR(4, 2013).
IF(TGROUP EQ 3)SPLINEDATE2 = DATE.MOYR(2, 2015).
IF(TGROUP EQ 3)SPLINEDATE3 = DATE.MOYR(8, 2016).
IF(TGROUP EQ 3)SPLINEDATE4 = DATE.MOYR(7, 2018).

IF(TGROUP EQ 4)SPLINEDATE1 = DATE.MOYR(9, 2013).
IF(TGROUP EQ 4)SPLINEDATE2 = DATE.MOYR(1, 2016).
IF(TGROUP EQ 4)SPLINEDATE3 = DATE.MOYR(7, 2018).

IF(TGROUP EQ 5)SPLINEDATE1 = DATE.MOYR(5, 2013).
IF(TGROUP EQ 5)SPLINEDATE2 = DATE.MOYR(8, 2014).
IF(TGROUP EQ 5)SPLINEDATE3 = DATE.MOYR(6, 2015).
IF(TGROUP EQ 5)SPLINEDATE4 = DATE.MOYR(7, 2018).

FORMATS STARTDATE BASEDATE SPLINEDATE1 SPLINEDATE2 SPLINEDATE3 SPLINEDATE4
SPLINEDATE5 (DATE9).

  COMPUTE SPLINE_DIFF1 = DATEDIFF(SPLINEDATE1,STARTDATE,"MONTHS") .
  COMPUTE SPLINE_DIFF2 = DATEDIFF(SPLINEDATE2,STARTDATE,"MONTHS") .
  COMPUTE SPLINE_DIFF3 = DATEDIFF(SPLINEDATE3,STARTDATE,"MONTHS") .
  COMPUTE SPLINE_DIFF4 = DATEDIFF(SPLINEDATE4,STARTDATE,"MONTHS") .
  COMPUTE SPLINE_DIFF5 = DATEDIFF(SPLINEDATE5,STARTDATE,"MONTHS") .

  COMPUTE MONTHS1 = MONTHS.
  IF(MONTHS GT SPLINE_DIFF1)MONTHS1 = SPLINE_DIFF1.
  COMPUTE MONTHS2 = MONTHS - SPLINE_DIFF1.
  RECODE MONTHS2 (LO THRU 0 = 0).
  IF(MONTHS GT SPLINE_DIFF2)MONTHS2 = SPLINE_DIFF2 - SPLINE_DIFF1.
  COMPUTE MONTHS3 = MONTHS - SPLINE_DIFF2 .
  RECODE MONTHS3 (LO THRU 0 = 0).

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IF(MONTHS GT SPLINE_DIFF3)MONTHS3 = SPLINE_DIFF3 - SPLINE_DIFF2.
COMPUTE MONTHS4 = MONTHS - SPLINE_DIFF3 .
RECODE MONTHS4 (LO THRU 0 = 0).
IF(MONTHS GT SPLINE_DIFF4)MONTHS4 = SPLINE_DIFF4 - SPLINE_DIFF3.
COMPUTE MONTHS5 = MONTHS - SPLINE_DIFF4 .
RECODE MONTHS5 (LO THRU 0 = 0).
IF(MONTHS GT SPLINE_DIFF5)MONTHS5 = SPLINE_DIFF5 - SPLINE_DIFF4.
COMPUTE MONTHS6 = MONTHS - SPLINE_DIFF5 .
RECODE MONTHS6 (LO THRU 0 = 0).
END IF.
* IF (TGROUP EQ 1) MONTHS1_1 = MONTHS1.
* IF (TGROUP EQ 1) MONTHS2_1 = MONTHS2.
* IF (TGROUP EQ 1) MONTHS3_1 = MONTHS3.
* IF (TGROUP EQ 1) MONTHS4_1 = MONTHS4.
* IF (TGROUP EQ 1) MONTHS5_1 = MONTHS5.

* IF (TGROUP EQ 2) MONTHS1_2 = MONTHS1.
* IF (TGROUP EQ 2) MONTHS2_2 = MONTHS2.
* IF (TGROUP EQ 2) MONTHS3_2 = MONTHS3.
* IF (TGROUP EQ 2) MONTHS4_2 = MONTHS4.

* IF (TGROUP EQ 3) MONTHS1_3 = MONTHS1.
* IF (TGROUP EQ 3) MONTHS2_3 = MONTHS2.
* IF (TGROUP EQ 3) MONTHS3_3 = MONTHS3.
* IF (TGROUP EQ 3) MONTHS4_3 = MONTHS4.

* IF (TGROUP EQ 4) MONTHS1_4 = MONTHS1.
* IF (TGROUP EQ 4) MONTHS2_4 = MONTHS2.
* IF (TGROUP EQ 4) MONTHS3_4 = MONTHS3.

* IF (TGROUP EQ 5) MONTHS1_5 = MONTHS1.
* IF (TGROUP EQ 5) MONTHS2_5 = MONTHS2.
* IF (TGROUP EQ 5) MONTHS3_5 = MONTHS3.
* IF (TGROUP EQ 5) MONTHS4_5 = MONTHS4.

* RECODE MONTHS1_1 TO MONTHS4_5 (SYSMIS = 0).

COMPUTE SPLINE = 1.
IF(MONTHS2 GT 0)SPLINE = 2.
IF(MONTHS3 GT 0)SPLINE = 3.
IF(MONTHS4 GT 0)SPLINE = 4.
IF(MONTHS5 GT 0)SPLINE = 5.
IF(MONTHS6 GT 0)SPLINE = 6.
FREQUENCIES SPLINE.

COMPUTE MONTH1 = SPLINE_DIFF1 - MONTHS1.
COMPUTE MONTH2 = (SPLINE_DIFF2 - SPLINE_DIFF1) - MONTHS2.
COMPUTE MONTH3 = (SPLINE_DIFF3 - SPLINE_DIFF2) - MONTHS3.
COMPUTE MONTH4 = (SPLINE_DIFF4 - SPLINE_DIFF3) - MONTHS4.
COMPUTE MONTH5 = (SPLINE_DIFF5 - SPLINE_DIFF4) - MONTHS5.
COMPUTE MONTH6 = (TIMEPERIOD - SPLINE_DIFF5) - MONTHS6.

COMPUTE RATE1 = 1.
COMPUTE RATE2 = 1.
COMPUTE RATE3 = 1.
COMPUTE RATE4 = 1.
COMPUTE RATE5 = 1.
COMPUTE RATE6 = 1.

IF(TGROUP EQ 1 )RATE1 = 1.00000**MONTH1 .
IF(TGROUP EQ 1 )RATE2 = 1.00356**MONTH2 .
IF(TGROUP EQ 1 )RATE3 = 1.00403**MONTH3 .
IF(TGROUP EQ 1 )RATE4 = 1.00000**MONTH4 .

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IF(TGROUP EQ 1 )RATE5 = 1.00474**MONTH5 .
IF(TGROUP EQ 2 )RATE1 = 1.00000**MONTH1 .
IF(TGROUP EQ 2 )RATE2 = 1.00704**MONTH2 .
IF(TGROUP EQ 2 )RATE3 = 1.00333**MONTH3 .
IF(TGROUP EQ 2 )RATE4 = 1.00229**MONTH4 .

IF(TGROUP EQ 3 )RATE1 = .99837**MONTH1 .
IF(TGROUP EQ 3 )RATE2 = 1.00488**MONTH2 .
IF(TGROUP EQ 3 )RATE3 = 1.00000**MONTH3 .
IF(TGROUP EQ 3 )RATE4 = 1.00420**MONTH4 .

IF(TGROUP EQ 4)RATE1 = 1.00176**MONTH1.
IF(TGROUP EQ 4)RATE2 = 1.00281**MONTH2.
IF(TGROUP EQ 4)RATE3 = 1.00293**MONTH3.

IF(TGROUP EQ 5)RATE1 = 1.00000**MONTH1.
IF(TGROUP EQ 5)RATE2 = 1.00000**MONTH2.
IF(TGROUP EQ 5)RATE3 = 0.99524**MONTH3.
IF(TGROUP EQ 5)RATE4 = 1.00566**MONTH4.

DO IF(PARCEL_TYPE EQ 'S').
COMPUTE ADJRATE = RATE1 * RATE2 * RATE3 * RATE4 * RATE5 * RATE6.
COMPUTE TASP = SOLDPRICE * ADJRATE.
END IF.
FORMATS TASP (COMMA10.0).

SORT CASES BY TGROUP (A).
SPLIT FILE BY TGROUP.
GRAPH /SCATTERPLOT SDATE WITH ADJRATE BY SPLINE
/TEMPLATE = !TEMPLATE + 'Time Rates.sgt'.
SPLIT FILE OFF.

*****.
*LANDSQFT.

COMPUTE LandIssuePCTX = 1.
IF(LandIssuePCT LT 0)LandIssuePCTX = 1 + (LandIssuePCT / 100).

COMPUTE LandIssuePCT_ECONX = 1.
IF(LandIssuePCT_ECON LT 0)LandIssuePCT_ECONx = 1 + (LandIssuePCT_ECON / 100).

COMPUTE UNDERWATER_SF_ECONX = UNDERWATER_SF_ECON.
IF(LandIssueSF_Sum EQ UNDERWATER_SF_ECON)UNDERWATER_SF_ECONX = 0.

COMPUTE UNDERWATER_SFX = UNDERWATER_SF.
IF(LandIssueSF EQ UNDERWATER_SF)UNDERWATER_SFX = 0.

IF(LandIssueSF GT 0)UNDERWATER_SFX = 0.
IF(LandIssueSF_Sum GT 0)UNDERWATER_SFX = 0.

COMPUTE SUMLANDX = SUMLAND - UNDERWATER_SF_ECONx - LandIssueSF_Sum.
IF(EconType EQ '')SUMLANDX = SUMLAND - UNDERWATER_SFX - LandIssueSF.

COMPUTE LANDSQFTX = LANDSQFT - UNDERWATER_SFX - LandIssueSF.

FORMATS SUMLANDX LANDSQFTX UNDERWATER_SFX UNDERWATER_SF_ECONx (COMMA10.0).

DESCRIPTIVES SUMLANDX LANDSQFTX.

DO IF(SUMLANDX GT 0).
COMPUTE LN_LANDSQFT = LN(SUMLANDX).
END IF.

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RECODE LN\_LANDSQFT (SYSMIS = 0).  
EXECUTE.

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\*\*LIVING AREA.

COMPUTE BASEADJ = STORIES.

RECODE BASEADJ (1.7 = 1.75)(2.7 = 2.75)(3.7 = 3.75).

COMPUTE AtticSF = AtticFinished + AtticPartFinished .

IF(ATTIC EQ 3)AtticSF = AtticSF + FLR1AREA \* .20.

IF(ATTIC EQ 4)AtticSF = AtticSF + FLR1AREA \* .40.

COMPUTE SQFT = RND((FLR1AREA \* BASEADJ) + RND(AtticSF) + FirstSF + HalfStory + Story34 + Solarium).

COMPUTE UPPERSF = RND((FLR1AREA \* BASEADJ) - FLR1AREA + HalfStory + Story34) .

COMPUTE FINBSMTX = FINBSMTAREA + FinBsmt.

COMPUTE UNFBSMTX= UNFINAREA + UnfBsmt.

COMPUTE RECBSMTX = RECROMAREA + RecRoom.

RECODE FINBSMTX UNFBSMTX RECBSMTX (LO THRU 10 = 0).

FORMATS AtticSF SQFT FINBSMTX UNFBSMTX RECBSMTX (COMMA10.0).

COMPUTE SQFTX = SQFT.

\* IF(SFLA2 GT 0)SQFTX = SQFT + ( SFLA2 \* .75).

DO IF(SFLA GT 0).

COMPUTE LnSQFTX= LN(SQFTX).

END IF.

RECODE LnSQFTX (SYSMIS = 0).

EXECUTE.

COMPUTE SQFTXRATIO = (SQFTX / 2000).

RECODE SQFTXRATIO (SYSMIS = 1).

COMPUTE LN\_SQFTXRATIO = LN(SQFTXRATIO).

COMPUTE LN\_SQFTXRATIO1 = 0.

IF(SQFTXRATIO LT 1)LN\_SQFTXRATIO1 = LN\_SQFTXRATIO.

COMPUTE LN\_SQFTXRATIO2 = 0.

IF(SQFTXRATIO GT 1)LN\_SQFTXRATIO2 = LN\_SQFTXRATIO.

EXECUTE.

DO IF(SFLA2 GT 0).

COMPUTE LnSFLA2= LN(SFLA2).

END IF.

RECODE LnSFLA2 (SYSMIS = 0).

EXECUTE.

COMPUTE SFLA2\_RATIO = 1 + (SFLA2 / 1000).

COMPUTE LN\_SFLA2\_RATIO = LN(SFLA2\_RATIO).

COMPUTE UPPERSF\_RATIO = 1 + (UPPERSF / 1000).

COMPUTE LN\_UPPERSF\_RATIO = LN(UPPERSF\_RATIO).

COMPUTE AtticSF\_RATIO = 1 + (AtticSF / 1000).

COMPUTE LN\_AtticSF\_RATIO = LN(AtticSF\_RATIO).

\*\*\*\*\*

\*BSMT.

IF(UNFBSMTX GT 0)LNUNFBSMTX = LN(UNFBSMTX).

IF(FINBSMTX GT 0)LNFINBSMTX = LN(FINBSMTX).

IF(RECBSMTX GT 0)LNRECBSMTX = LN(RECBSMTX).

RECODE LNUNFBSMTX LNFINBSMTX LNRECBSMTX (SYSMIS = 0).

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```

COMPUTE UNFBSMTX_RATIO = 1 + (UNFBSMTX / 1000).
COMPUTE LN_UNFBSMTX_RATIO = LN(UNFBSMTX_RATIO).

COMPUTE FINBSMTX_RATIO = 1 + (FINBSMTX / 1000).
COMPUTE LN_FINBSMTX_RATIO = LN(FINBSMTX_RATIO).

COMPUTE LIN_BSMTX = FINBSMTX + (UNFBSMTX * .5).
COMPUTE LIN_BSMTX_Ratio = 1 + (LIN_BSMTX / 1000).
COMPUTE LN_LIN_BSMTX_Ratio = LN(LIN_BSMTX_Ratio).

COMPUTE RECBSMTX_RATIO = 1 + (RECBSMTX / 1000).
COMPUTE LN_RECBSMTX_RATIO = LN(RECBSMTX_RATIO).

*****.
*****EFFECTIVE AGE*****.

COMPUTE AGE = 0.
DO IF(PARCEL_TYPE EQ 'S').
IF (SYEAR - YRBLT GT 0) AGE = SYEAR - YRBLT.
END IF.
DO IF(PARCEL_TYPE EQ 'P').
COMPUTE AGE = 2018 - YRBLT.
END IF.
COMPUTE EFFAGE = AGE - 5.
RECODE EFFAGE (LO THRU 0 = 0) (35 THRU HI = 35).

COMPUTE PCT_GOOD = 1 - EFFAGE / 100.
COMPUTE LN_PGOOD = LN(PCT_GOOD).

COMPUTE PCT_GOOD= DEPR/100.
COMPUTE LN_PCT_GOOD = LN(PCT_GOOD).
RECODE LN_PCT_GOOD (SYSMIS = 0).
EXECUTE.

*****.
*GARAGE.

COMPUTE ATTGARx = Garage.
COMPUTE BLTINGARx = BsmtGarage.
COMPUTE DETGARx = GarageDetached_SF.
COMPUTE CARPORTx = CARPORT + Carport_SF.
RECODE ATTGARx BLTINGARx DETGARx CARPORTx (LO THRU 10 = 0).

COMPUTE ATTGARx_RATIO = 1 + (ATTGARx / 375).
COMPUTE LN_ATTGARx_RATIO = LN(ATTGARx_RATIO).

COMPUTE BLTINGARx_RATIO = 1 + (BLTINGARx / 375).
COMPUTE LN_BLTINGARx_RATIO = LN(BLTINGARx_RATIO).

COMPUTE DETGARx_RATIO = 1 + (DETGARx / 375).
COMPUTE LN_DETGARx_RATIO = LN(DETGARx_RATIO).

COMPUTE CARPORTx_RATIO = 1 + (CARPORTx / 375).
COMPUTE LN_CARPORTx_RATIO = LN(CARPORTx_RATIO).
EXECUTE.

COMPUTE AttBltGar = ATTGARx + BLTINGARx.
COMPUTE AttBltGar_RATIO = 1+ (AttBltGar / 375).
COMPUTE LN_AttBltGar_RATIO = LN(AttBltGar_RATIO).

COMPUTE LinDetGarCarport = DETGARx + (CARPORTx *.50).
COMPUTE LinDetGarCarport_RATIO = 1 + (LinDetGarCarport / 375).

```

```

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COMPUTE LN_LinDetGarCarport_RATIO = LN(LinDetGarCarport_RATIO).

COMPUTE LIN_GARX = ATTGARX + BLTINGARX + (DETGARX * .50) + (CARPORTX * .25).
COMPUTE LIN_GARX_RATIO = 1+ (LIN_GARX / 375).
COMPUTE LN_LIN_GARX_RATIO = LN(LIN_GARX_RATIO).

DO IF( GarageDetached_Depr GT 0).
COMPUTE GarageDetachedPctGood= GarageDetached_Depr/100.
END IF.
RECODE GarageDetachedPctGood (SYSMIS = 1).
COMPUTE LN_GarageDetachedPctGood = LN(GarageDetachedPctGood).
EXECUTE.

*****
*Porch.

COMPUTE TerraceX = RaisedTerrace + Terrace_SF.
COMPUTE PatioX = Patio + PatioPool_SF.
COMPUTE OpenPorchX = OpenPorch + OpenFramePorch_SF + PorchScreened_SF.
COMPUTE EnclPorchX = EnclPorch.
* COMPUTE EnclPorchX = EnclPorch + PoolEnclosure_SF.
COMPUTE WoodDeckX = WoodDeck + WoodDeck_SF.
COMPUTE CanopyX = Canopy + Canopy_SF.
COMPUTE GreenhouseX = Greenhouse + Greenhouse_SF.

COMPUTE TerraceX_RATIO = 1 + ((TerraceX) / 350).
COMPUTE LN_TerraceX_RATIO = LN(TerraceX_RATIO).
* IF (OPENPORCHX EQ TERRACEX) LN_OpenPorchX_RATIO = 0.

COMPUTE PatioX_RATIO = 1 + ((PatioX) / 240).
COMPUTE LN_PatioX_RATIO = LN(PatioX_RATIO).
* IF (OPENPORCHX EQ PATIOX) LN_OpenPorchX_RATIO = 0.

* COMPUTE OpenPorchX_RATIO = 1 + ((OpenPorchX) / 115).
* COMPUTE LN_OpenPorchX_RATIO = LN(OpenPorchX_RATIO).

* COMPUTE EnclPorchX_RATIO = 1 + ((EnclPorchX) / 115).
* COMPUTE LN_EnclPorchX_RATIO = LN(EnclPorchX_RATIO).

COMPUTE LINPORCH_RATIO = (RND((OpenPorchX * .975) + EnclPorchX) / 115) + 1.
COMPUTE LN_LINPORCH_RATIO = LN(LINPORCH_RATIO).

COMPUTE WoodDeckX_RATIO = 1 + ((WoodDeckX) / 250).
COMPUTE LN_WoodDeckX_RATIO = LN(WoodDeckX_RATIO).
* IF (OPENPORCHX EQ WOODDECKX) LN_OpenPorchX_RATIO = 0.

COMPUTE CanopyX_RATIO = 1 + ((CanopyX) / 110).
COMPUTE LN_CanopyX_RATIO = LN(CanopyX_RATIO).

* COMPUTE GreenhouseX_RATIO = 1 + ((GreenhouseX) / 135).
* COMPUTE LN_GreenhouseX_RATIO = LN(GreenhouseX_RATIO).

* COMPUTE Gazebo_SF_RATIO = 1 + ((Gazebo_SF) / 120).
* COMPUTE LN_Gazebo_SF_RATIO = LN(Gazebo_SF_RATIO).

* COMPUTE CabinX = Cabin_SF + OfficeStudio_SF.

* COMPUTE CabinX_RATIO = 1 + ((CabinX) / 300).
* COMPUTE LN_GCabinX_RATIO = LN(CabinX_RATIO).

* COMPUTE BathHouse_SF_RATIO = 1 + ((BathHouse_SF) / 180).
* COMPUTE LN_BathHouse_SF_RATIO = LN(BathHouse_SF_RATIO).

```

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```
COMPUTE PoolX = PoolVinyl + PoolConc + PoolConc_SF + PoolFbgl_SF + PoolGuni_SF +  
PoolVinyl_SF + SpaJacuzzi_SF.  
* COMPUTE Enc1PoolX = (Enc1PoolLow * .75) + Enc1PoolHigh + PoolEnclosure_SF.  
  
COMPUTE PoolX_RATIO = 1 + ((PoolX) / 400).  
COMPUTE LN_PoolX_RATIO = LN(PoolX_RATIO).  
  
* COMPUTE Enc1PoolX_RATIO = 1 + ((Enc1PoolX) / 400).  
* COMPUTE LN_Enc1PoolX_RATIO = LN(Enc1PoolX_RATIO).  
  
* COMPUTE TennisCourt_SF_RATIO = 1 + ((TennisCourt_SF) / 180).  
* COMPUTE LN_TennisCourt_SF_RATIO = LN(TennisCourt_SF_RATIO).
```

\*\*\*\*\*  
\* QUALITATIVE VARIABLES.

\*\*\*\*\*  
\*STYLE.

```
RECODE STYLE (13 = 1) (ELSE = 0) INTO ST_TWNHSE.  
* RECODE STYLE (14 = 1) (ELSE = 0) INTO ST_CONDO. /*BASE.  
RECODE STYLE (16 = 1) (ELSE = 0) INTO ST_HOA.
```

\*\*\*\*\*  
\*QUAL.

```
RECODE QUAL (1 = 1.90)(2 = 1.75)(3 = 1.60)(4 = 1.45)(5 = 1.30)(6 = 1.15)(7 = 1)(8 =  
.85) (ELSE = 0) INTO QualEMinusQualC.  
* RECODE QUAL (1 THRU 7 = 1) (ELSE = 0) INTO QualEMinusQualCMinus.  
* RECODE QUAL (8 = 1) (ELSE = 0) INTO QualC.  
* RECODE QUAL (9 = 1) (ELSE = 0) INTO QualCPlus. /*BASE.  
* RECODE QUAL (10 = 1) (ELSE = 0) INTO QualBMinus.  
* RECODE QUAL (11 = 1) (ELSE = 0) INTO QualB.  
* RECODE QUAL (12 = 1) (ELSE = 0) INTO QualBPlus.  
* RECODE QUAL (10 = 1)(11 = 1.15)(12 = 1.30) (ELSE = 0) INTO QualBMinusBBPlus.  
* RECODE QUAL (13 = 1) (ELSE = 0) INTO QualAMinus.  
* RECODE QUAL (14 = 1) (ELSE = 0) INTO QualA.  
* RECODE QUAL (14 THRU 24 = 1) (ELSE = 0) INTO QualAAPlusQualZPlus.
```

```
RECODE QUAL (10 = .30)(11 = .40)(12 = .50) (13 = 1)(14 = 1.15)(15 = 1.30)(16 =  
1.45)(17 = 1.60)(18 = 1.75)(19 = 1.90)(20 = 2.05)  
(21 = 2.20)(22 = 2.35)(23 = 2.50)(24 = 2.65)(ELSE = 0) INTO  
LinQualBMinusUp.
```

\*\*\*\*\*  
\*CDU.

```
RECODE CDU (1= 2) (2 = 1) (ELSE = 0) INTO CDU_VPoor.  
RECODE CDU (3 = 1) (ELSE = 0) INTO CDU_Poor.  
* RECODE CDU (4 = 1) (ELSE = 0) INTO CDU_Fair.  
* RECODE CDU (5 = 1) (ELSE = 0) INTO CDU_Avg. /*BASE.  
* RECODE CDU (6 = 1) (ELSE = 0) INTO CDU_Good.  
* RECODE CDU (7 = 1) (ELSE = 0) INTO CDU_VGood.  
* RECODE CDU (8 = 1) (ELSE = 0) INTO CDU_Exc.
```

\*\*\*\*\*  
\*EXTWALL.

```
* RECODE EXTWALL (1 = 1) (ELSE = 0) INTO EXT_FRM. /*BASE.  
RECODE EXTWALL (2 = 1) (ELSE = 0) INTO EXT_Brick.
```

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```
RECODE EXTWALL (3 = 1) (ELSE = 0) INTO EXT_MasonryFrame.  
* RECODE EXTWALL (4 = 1) (ELSE = 0) INTO EXT_CBLK. /* 1 subject parcel.  
RECODE EXTWALL (5 = 1) (ELSE = 0) INTO EXT_Stucco.  
RECODE EXTWALL (6 = 1) (ELSE = 0) INTO EXT_AluminumVinyl.  
RECODE EXTWALL (7 = 1) (ELSE = 0) INTO EXT_Stone.  
* RECODE EXTWALL (8 = 1) (ELSE = 0) INTO EXT_COMPOSITION. /* 1 subject and 1 sale.  
RECODE EXTWALL (4 9 11 = 1) (ELSE = 0) INTO EXT_MasonryX.  
* RECODE EXTWALL (10 = 1) (ELSE = 0) INTO EXT_LOG.  
* RECODE EXTWALL (11 = 1) (ELSE = 0) INTO EXT_CEM_FIB. /* 3 subjects and 1 sale.
```

\*\*\*\*\*

\*BSMT.

```
* RECODE BSMT (0 = 1) (ELSE = 0) INTO BSMT_None. /*BASE.  
* RECODE BSMT (1 = 1) (ELSE = 0) INTO BSMT_QuarterSlab.  
* RECODE BSMT (2 = 1) (ELSE = 0) INTO BSMT_HalfCrawl.  
* RECODE BSMT (3 = 1) (ELSE = 0) INTO BSMT_ThreeQuarter.  
* RECODE BSMT (3 = .7) (4 = 1) (ELSE = 0) INTO BSMT_ThreeQuarter_Full.
```

\*\*\*\*\*

\*HEAT.

```
* RECODE HEAT (0, 1, 2 = 1) (ELSE = 0) INTO HEAT_None. /* 2 subject parcels -  
believe data is incorrect.  
RECODE HEAT (0 1 2 3 = 1) (ELSE = 0) INTO HEAT_Cntrl. /* Since this should come in  
negative, will add 0, 1 & 2 to treat them like central heat.  
* RECODE HEAT (4 = 1) (ELSE = 0) INTO HEAT_CntrlAc. /* Base.
```

\*\*\*\*\*

\*FUEL.

```
* RECODE FUEL (0 = 1) (ELSE = 0) INTO FUEL_None.  
RECODE FUEL (1 = 1) (ELSE = 0) INTO FUEL_Oil.  
* RECODE FUEL (2 = 1) (ELSE = 0) INTO FUEL_COAL_STK.  
* RECODE FUEL (3 = 1) (ELSE = 0) INTO FUEL_GAS. /*BASE.  
RECODE FUEL (2 4 = 1) (ELSE = 0) INTO FUEL_Coal.  
* RECODE FUEL (5 = 1) (ELSE = 0) INTO FUEL_SOLAR.  
* RECODE FUEL (6 = 1) (ELSE = 0) INTO FUEL_ELEC.  
* RECODE FUEL (7 = 1) (ELSE = 0) INTO FUEL_OTHER. /* will leave with base.  
* RECODE FUEL (8 = 1) (ELSE = 0) INTO FUEL_Geo.  
RECODE FUEL (5 6 8 = 1) (ELSE=0) INTO FUEL_SolarElectricGeothermal.
```

\*\*\*\*\*

\*HEATSYS.

```
* RECODE HEATSYS (1 = 1) (ELSE = 0) INTO HEATSYS_SteamVpr. /* 2 subjects.  
RECODE HEATSYS (1 2 = 1) (ELSE = 0) INTO HEATSYS_HotWtrX.  
* RECODE HEATSYS (3 = 1) (ELSE = 0) INTO HEATSYS_ElecSolar. /* 5 subjects and 1  
sale - leave with base.  
RECODE HEATSYS (4 = 1) (ELSE = 0) INTO HEATSYS_FrcdAir. /* 25 subjets and 11 sales.  
* RECODE HEATSYS (5 = 1) (ELSE = 0) INTO HEATSYS_CntrlAir. /*BASE.  
* RECODE HEATSYS (6, 7, 8, 9 = 1) (ELSE = 0) INTO HEATSYS_HotAirPipelessNone. /* 15  
subjects and 3 sales - leave with base.
```

\*\*\*\*\*

\*FIREPLACE.

```
COMPUTE FireplaceX = WBFP_O + WBFP_S + WBFP_PF.  
DO IF(FireplaceX GT 0).  
COMPUTE LNFireplaceX = LN(FireplaceX).  
END IF.  
RECODE LNFireplaceX (SYSMIS = 0).
```

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```
*****  
*BATHS.  
  
DO IF(FIXTOT GT 0).  
COMPUTE LNFIXTOT = LN(FIXTOT).  
END IF.  
RECODE LNFIXTOT (SYSMIS = 0).  
  
COMPUTE FIXBATHZ = FIXBATH.  
IF(FIXBATH GE 6)FIXBATHZ = 4 + (FIXBATH - 4)**.10.  
  
COMPUTE FIXADDLZ = FIXADDL.  
IF(FIXADDL GE 4)FIXADDLZ = 2 + (FIXADDL - 2)**.10.  
  
DO IF(FIXBATH GT 0).  
COMPUTE LNFIXBATHZ = LN(FIXBATHZ).  
END IF.  
RECODE LNFIXBATHZ (SYSMIS = 0).  
  
DO IF(FIXADDL GT 0).  
COMPUTE LNFIXADDLZ = LN(FIXADDLZ).  
END IF.  
RECODE LNFIXADDLZ (SYSMIS = 0).  
  
*****  
*LOCATION AND SITE QUALITATIVE VARIABLES.  
  
*****  
*COMPLEXID.  
  
* SORT CASES BY COMPLEXID.  
* FRE COMPLEXID.  
  
* RECODE COMPLEXID("021900310UCA0026" = 1)(ELSE = 0) INTO CPLX_1. /* 7 SALES - 15  
POP.  
* RECODE COMPLEXID("021920204UCA0159" = 1)(ELSE = 0) INTO CPLX_2. /* 7 SALES - 21  
POP.  
* RECODE COMPLEXID("022120167UCA0196" = 1)(ELSE = 0) INTO CPLX_3. /* 13 SALES - 37  
POP.  
* RECODE COMPLEXID("022500026UCA0019" = 1)(ELSE = 0) INTO CPLX_4. /* 13 SALES - 18  
POP.  
* RECODE COMPLEXID("023550045UCA0071" = 1)(ELSE = 0) INTO CPLX_5. /* 10 SALES - 12  
POP.  
* RECODE COMPLEXID("023570031UCA0162" = 1)(ELSE = 0) INTO CPLX_6. /* 8 SALES - 20  
POP.  
* RECODE COMPLEXID("031450426UCA0042" = 1)(ELSE = 0) INTO CPLX_7. /* 6 SALES - 23  
POP.  
* RECODE COMPLEXID("031620820UCA0044" = 1)(ELSE = 0) INTO CPLX_8. /* 55 SALES -  
134 POP.  
* RECODE COMPLEXID("031620829UCA0066" = 1)(ELSE = 0) INTO CPLX_9. /* 60 SALES -  
178 POP.  
* RECODE COMPLEXID("031620835UCA0087" = 1)(ELSE = 0) INTO CPLX_10. /* 23 SALES -  
54 POP.  
* RECODE COMPLEXID("032060003UCA0132" = 1)(ELSE = 0) INTO CPLX_11. /* 24 SALES -  
69 POP.  
* RECODE COMPLEXID("03E1074UCA0048" = 1)(ELSE = 0) INTO CPLX_12. /* 27 SALES - 75  
POP.  
* RECODE COMPLEXID("03E1131UCA0093" = 1)(ELSE = 0) INTO CPLX_13. /* 13 SALES - 48  
POP.  
* RECODE COMPLEXID("040590681UCA0082" = 1)(ELSE = 0) INTO CPLX_14. /* 12 SALES -  
34 POP.  
* RECODE COMPLEXID("04J0753UCA0208" = 1)(ELSE = 0) INTO CPLX_15. /* 69 SALES - 250
```

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```
POP.  
  * RECODE COMPLEXID("050510134UCA0069" = 1)(ELSE = 0) INTO CPLX_16. /* 14 SALES -  
36 POP.  
  * RECODE COMPLEXID("05C0430UCA0273" = 1)(ELSE = 0) INTO CPLX_17. /* 26 SALES - 32  
POP.  
  * RECODE COMPLEXID("071110269UCA0100" = 1)(ELSE = 0) INTO CPLX_18. /* 5 SALES - 22  
POP.  
  * RECODE COMPLEXID("073200007UCA0076" = 1)(ELSE = 0) INTO CPLX_19. /* 19 SALES -  
50 POP.  
  * RECODE COMPLEXID( "233", "07E0959UCA0152", "07E0961UCA0147" = 1)(ELSE = 0) INTO  
CPLX_20x. /* 13 SALES - 37 POP.  
  * RECODE COMPLEXID("07E0939UCA0055", "07E0955UCA0068" = 1)(ELSE = 0) INTO CPLX_22.  
  * RECODE COMPLEXID("07E0955UCA0068" = 1)(ELSE = 0) INTO CPLX_21. /* 16 SALES - 40  
POP.  
  * RECODE COMPLEXID("07E0959UCA0152" = 1)(ELSE = 0) INTO CPLX_22. /* 17 SALES - 49  
POP.  
  * RECODE COMPLEXID("07E0961UCA0147" = 1)(ELSE = 0) INTO CPLX_23. /* 14 SALES - 36  
POP.  
  * RECODE COMPLEXID("08A0818UCA0034" = 1)(ELSE = 0) INTO CPLX_24. /* 52 SALES - 154  
POP.  
  * RECODE COMPLEXID("08A0821UCA0030" = 1)(ELSE = 0) INTO CPLX_25. /* 24 SALES - 88  
POP.  
  * RECODE COMPLEXID("08A0822UCA0047" = 1)(ELSE = 0) INTO CPLX_26. /* 29 SALES - 76  
POP.  
  * RECODE COMPLEXID("08A0823UCA0041" = 1)(ELSE = 0) INTO CPLX_27. /* 47 SALES - 120  
POP.  
  * RECODE COMPLEXID("08A0825UCA0045" = 1)(ELSE = 0) INTO CPLX_28. /* 36 SALES - 108  
POP.  
  * RECODE COMPLEXID("08A0878UCA0110" = 1)(ELSE = 0) INTO CPLX_29. /* 25 SALES - 67  
POP.  
  * RECODE COMPLEXID("096590013UCA0098" = 1)(ELSE = 0) INTO CPLX_30. /* 28 SALES -  
60 POP.  
  * RECODE COMPLEXID("101630217UCA0193" = 1)(ELSE = 0) INTO CPLX_31. /* 29 SALES -  
78 POP.  
  * RECODE COMPLEXID("102280795UCA0242" = 1)(ELSE = 0) INTO CPLX_32. /* 13 SALES -  
39 POP.  
  * RECODE COMPLEXID("102720314UCA0269" = 1)(ELSE = 0) INTO CPLX_33. /* 10 SALES -  
11 POP.  
  * RECODE COMPLEXID("108" = 1)(ELSE = 0) INTO CPLX_34. /* 2 SALES - 25 POP.  
  * RECODE COMPLEXID("113" = 1)(ELSE = 0) INTO CPLX_35. /* 20 SALES - 84 POP.  
  * RECODE COMPLEXID("115" = 1)(ELSE = 0) INTO CPLX_36. /* 14 SALES - 55 POP.  
  * RECODE COMPLEXID("117" = 1)(ELSE = 0) INTO CPLX_37. /* 8 SALES - 62 POP.  
  * RECODE COMPLEXID("12A1126UCA0028" = 1)(ELSE = 0) INTO CPLX_38. /* 25 SALES - 67  
POP.  
  * RECODE COMPLEXID("130790043UCA0214" = 1)(ELSE = 0) INTO CPLX_39. /* 17 SALES -  
32 POP.  
  * RECODE COMPLEXID("131140001UCA0151" = 1)(ELSE = 0) INTO CPLX_40. /* 34 SALES -  
99 POP.  
  * RECODE COMPLEXID("131170042UCA0231" = 1)(ELSE = 0) INTO CPLX_41. /* 39 SALES -  
134 POP.  
  * RECODE COMPLEXID("131190140UCA0202", "131190141UCA0203", "131190142UCA0201" =  
1)(ELSE = 0) INTO CPLX_42x. /* 39 SALES - 92 POP.  
  * RECODE COMPLEXID("131190141UCA0203" = 1)(ELSE = 0) INTO CPLX_43. /* 22 SALES -  
68 POP.  
  * RECODE COMPLEXID("131190142UCA0201" = 1)(ELSE = 0) INTO CPLX_44. /* 28 SALES -  
72 POP.  
  * RECODE COMPLEXID("132" = 1)(ELSE = 0) INTO CPLX_45. /* 2 SALES - 26 POP.  
  * RECODE COMPLEXID("13C0160UCA0027" = 1)(ELSE = 0) INTO CPLX_46. /* 21 SALES - 45  
POP.  
  * RECODE COMPLEXID("13C0163UCA0035" = 1)(ELSE = 0) INTO CPLX_47. /* 61 SALES - 140  
POP.  
  * RECODE COMPLEXID("13C0177UCA0050" = 1)(ELSE = 0) INTO CPLX_48. /* 49 SALES - 149  
POP.
```

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* RECODE COMPLEXID("13C0187UCA0032" = 1)(ELSE = 0) INTO CPLX_49. /* 23 SALES - 55
POP.
* RECODE COMPLEXID("13C0187UCA0037" = 1)(ELSE = 0) INTO CPLX_50. /* 8 SALES - 11
POP.
* RECODE COMPLEXID("143" = 1)(ELSE = 0) INTO CPLX_51. /* 2 SALES - 32 POP.
* RECODE COMPLEXID("148" = 1)(ELSE = 0) INTO CPLX_52. /* 2 SALES - 32 POP.
* RECODE COMPLEXID("149" = 1)(ELSE = 0) INTO CPLX_53. /* 35 SALES - 138 POP.
* RECODE COMPLEXID("151980028UCA0111" = 1)(ELSE = 0) INTO CPLX_54. /* 22 SALES -
44 POP.
* RECODE COMPLEXID("151980029UCA0124" = 1)(ELSE = 0) INTO CPLX_55. /* 14 SALES -
40 POP.
* RECODE COMPLEXID("154" = 1)(ELSE = 0) INTO CPLX_56. /* 9 SALES - 44 POP.
* RECODE COMPLEXID("15D0530UCA0134" = 1)(ELSE = 0) INTO CPLX_57. /* 14 SALES - 41
POP.
* RECODE COMPLEXID("15F1445UCA0052" = 1)(ELSE = 0) INTO CPLX_58. /* 29 SALES - 64
POP.
* RECODE COMPLEXID("15F1452UCA0053" = 1)(ELSE = 0) INTO CPLX_59. /* 38 SALES - 89
POP.
* RECODE COMPLEXID("15F1454UCA0059" = 1)(ELSE = 0) INTO CPLX_60. /* 19 SALES - 68
POP.
* RECODE COMPLEXID("170150015UCA0075", "170150018UCA0054", "170150022UCA0063",
"170150029UCA0061" = 1)(ELSE = 0) INTO CPLX_61x. /* 25 SALES - 54 POP.
* RECODE COMPLEXID("170150018UCA0054" = 1)(ELSE = 0) INTO CPLX_62. /* 76 SALES -
178 POP.
* RECODE COMPLEXID("170150022UCA0063" = 1)(ELSE = 0) INTO CPLX_63. /* 64 SALES -
150 POP.
* RECODE COMPLEXID("170150029UCA0061" = 1)(ELSE = 0) INTO CPLX_64. /* 23 SALES -
58 POP.
* RECODE COMPLEXID("170170004UCA0138" = 1)(ELSE = 0) INTO CPLX_65. /* 58 SALES -
162 POP.
* RECODE COMPLEXID("174" = 1)(ELSE = 0) INTO CPLX_66. /* 8 SALES - 14 POP.
* RECODE COMPLEXID("191" = 1)(ELSE = 0) INTO CPLX_67. /* 28 SALES - 71 POP.
* RECODE COMPLEXID("196" = 1)(ELSE = 0) INTO CPLX_68. /* 15 SALES - 103 POP.
* RECODE COMPLEXID("212" = 1)(ELSE = 0) INTO CPLX_69. /* 25 SALES - 57 POP.
* RECODE COMPLEXID("215" = 1)(ELSE = 0) INTO CPLX_70. /* 109 SALES - 346 POP.
* RECODE COMPLEXID("218" = 1)(ELSE = 0) INTO CPLX_71. /* 11 SALES - 28 POP.
* RECODE COMPLEXID("223" = 1)(ELSE = 0) INTO CPLX_72. /* 10 SALES - 23 POP.
* RECODE COMPLEXID("229" = 1)(ELSE = 0) INTO CPLX_73. /* 35 SALES - 123 POP.
* RECODE COMPLEXID("23" = 1)(ELSE = 0) INTO CPLX_74. /* 39 SALES - 93 POP.
* RECODE COMPLEXID("230120007UCA0167" = 1)(ELSE = 0) INTO CPLX_75. /* 0 SALES - 2
POP.
* RECODE COMPLEXID("230280127UCA0195" = 1)(ELSE = 0) INTO CPLX_76. /* 23 SALES -
50 POP.
* RECODE COMPLEXID("230550449UCA0186" = 1)(ELSE = 0) INTO CPLX_77. /* 0 SALES - 2
POP.
* RECODE COMPLEXID("231" = 1)(ELSE = 0) INTO CPLX_78. /* 9 SALES - 33 POP.
* RECODE COMPLEXID("233" = 1)(ELSE = 0) INTO CPLX_79. /* 1 SALES - 14 POP.
* RECODE COMPLEXID("238" = 1)(ELSE = 0) INTO CPLX_80. /* 16 SALES - 40 POP.
* RECODE COMPLEXID("265" = 1)(ELSE = 0) INTO CPLX_81. /* 10 SALES - 7 POP.
* RECODE COMPLEXID("280" = 1)(ELSE = 0) INTO CPLX_82. /* 1 SALES - 2 POP.
* RECODE COMPLEXID("294" = 1)(ELSE = 0) INTO CPLX_83. /* 59 SALES - 100 POP.
* RECODE COMPLEXID("298" = 1)(ELSE = 0) INTO CPLX_84. /* 44 SALES - 101 POP.
* RECODE COMPLEXID("30" = 1)(ELSE = 0) INTO CPLX_85. /* 5 SALES - 14 POP.
* RECODE COMPLEXID("300" = 1)(ELSE = 0) INTO CPLX_86. /* 19 SALES - 28 POP.
* RECODE COMPLEXID("301" = 1)(ELSE = 0) INTO CPLX_87. /* 9 SALES - 41 POP.
* RECODE COMPLEXID("303" = 1)(ELSE = 0) INTO CPLX_88. /* 31 SALES - 131 POP.
* RECODE COMPLEXID("307" = 1)(ELSE = 0) INTO CPLX_89. /* 25 SALES - 49 POP.
* RECODE COMPLEXID("310180537UCA0216" = 1)(ELSE = 0) INTO CPLX_90. /* 0 SALES - 7
POP - PUT WITH CPLX_320.
* RECODE COMPLEXID("310270027UCA0216" = 1)(ELSE = 0) INTO CPLX_91. /* 1 SALES - 9
POP - PUT WITH CPLX_320.
* RECODE COMPLEXID("311" = 1)(ELSE = 0) INTO CPLX_92. /* 35 SALES - 89 POP.
* RECODE COMPLEXID("317", "280" = 1)(ELSE = 0) INTO CPLX_93x. /* 31 SALES - 51

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POP.
* COMPUTE CPLX_91 = 0.
* IF(NBHD_OLD EQ '0231' AND CPLX_93x EQ 1)CPLX_91 = 1.
* IF(CPLX_91 EQ 1)CPLX_93x = 0.
* RECODE COMPLEXID("318" = 1)(ELSE = 0) INTO CPLX_94. /* 8 SALES - 20 POP.
* RECODE COMPLEXID("320" = 1)(ELSE = 0) INTO CPLX_95. /* 12 SALES - 33 POP.
* IF(SUBSTR(PARID,1,5) EQ '21256' AND COMPLEXID EQ '320')CPLX_96 = 1.
* IF(SUBSTR(PARID,1,5) EQ '21261' AND COMPLEXID EQ '320')CPLX_97 = 1.
* RECODE CPLX_96 CPLX_97 (SYSMIS = 0).
* IF(CPLX_96 EQ 1)CPLX_95 = 0.
* IF(CPLX_97 EQ 1)CPLX_95 = 0.
* RECODE COMPLEXID("321", "230120007UCA0167", "230550449UCA0186",
"310180537UCA0216", "310270027UCA0216" = 1)(ELSE = 0) INTO CPLX_98x. /* 6 SALES -
12 POP.
* RECODE COMPLEXID("324" = 1)(ELSE = 0) INTO CPLX_101. /* 91 SALES - 202 POP.
* COMPUTE CPLX_102 = 0.
* IF(NBHD_OLD EQ '023' AND CPLX_101 EQ 1)CPLX_102 = 1.
* IF(CPLX_102 EQ 1)CPLX_101 = 0.
* RECODE COMPLEXID("341730014UCA0058" = 1)(ELSE = 0) INTO CPLX_103. /* 21 SALES -
67 POP.
* RECODE COMPLEXID("343600870UCA0245" = 1)(ELSE = 0) INTO CPLX_103. /* 1 SALES - 9
POP.
* RECODE COMPLEXID("343970223UCA0178" = 1)(ELSE = 0) INTO CPLX_104. /* 1 SALES -
24 POP.
* RECODE COMPLEXID("143", "343600870UCA0245", "343970223UCA0178",
"344140632UCA0016" = 1)(ELSE = 0) INTO CPLX_105x. /* 3 SALES - 40 POP.
* RECODE COMPLEXID("34K0364UCA0277" = 1)(ELSE = 0) INTO CPLX_106. /* 55 SALES - 51
POP.
* RECODE COMPLEXID("354960083UCA0136" = 1)(ELSE = 0) INTO CPLX_107. /* 6 SALES -
19 POP.
* RECODE COMPLEXID("371190131UCA0099" = 1)(ELSE = 0) INTO CPLX_108. /* 2 SALES - 9
POP.
* RECODE COMPLEXID("373320152UCA0122", "371190131UCA0099" = 1)(ELSE = 0) INTO
CPLX_109x. /* 11 SALES - 41 POP.
* RECODE COMPLEXID("375091346UCA0007" = 1)(ELSE = 0) INTO CPLX_110. /* 6 SALES -
38 POP.
* RECODE COMPLEXID("375620136UCA0072" = 1)(ELSE = 0) INTO CPLX_111. /* 19 SALES -
52 POP.
* RECODE COMPLEXID("375740047UCA0009" = 1)(ELSE = 0) INTO CPLX_112. /* 2 SALES -
35 POP.
* RECODE COMPLEXID("376420037UCA0001", "375740047UCA0009" = 1)(ELSE = 0) INTO
CPLX_113x. /* 7 SALES - 29 POP.
* RECODE COMPLEXID("376720012UCA0255" = 1)(ELSE = 0) INTO CPLX_114. /* 100 SALES -
130 POP.
* RECODE COMPLEXID("376720014UCA0264" = 1)(ELSE = 0) INTO CPLX_115. /* 92 SALES -
88 POP.
* RECODE COMPLEXID("376720015UCA0271" = 1)(ELSE = 0) INTO CPLX_116. /* 129 SALES -
128 POP.
* RECODE COMPLEXID("375091346UCA0007", "37M0519UCA0065", "37M0818UCA0060" =
1)(ELSE = 0) INTO CPLX_117x. /* 4 SALES - 12 POP.
* RECODE COMPLEXID("37M0818UCA0060" = 1)(ELSE = 0) INTO CPLX_118. /* 4 SALES - 10
POP.
* RECODE COMPLEXID("381950020UCA0253" = 1)(ELSE = 0) INTO CPLX_119. /* 9 SALES - 8
POP.
* RECODE COMPLEXID("381950522UCA0228" = 1)(ELSE = 0) INTO CPLX_120. /* 13 SALES -
24 POP.
* RECODE COMPLEXID("383210094UCA0217" = 1)(ELSE = 0) INTO CPLX_121. /* 4 SALES - 7
POP.
* RECODE COMPLEXID("384360435UCA0073" = 1)(ELSE = 0) INTO CPLX_122. /* 34 SALES -
84 POP.
* RECODE COMPLEXID("384980028UCA0190" = 1)(ELSE = 0) INTO CPLX_123. /* 31 SALES -
89 POP.
* RECODE COMPLEXID("38J0923UCA0105", "108" = 1)(ELSE = 0) INTO CPLX_124x. /* 10

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SALES - 23 POP.  
\* RECODE COMPLEXID("38L0347UCA0005" = 1)(ELSE = 0) INTO CPLX\_125. /\* 25 SALES - 60 POP.  
\* RECODE COMPLEXID("391220116UCA0144" = 1)(ELSE = 0) INTO CPLX\_126. /\* 3 SALES - 8 POP.  
\* RECODE COMPLEXID("394220015UCA0077" = 1)(ELSE = 0) INTO CPLX\_127. /\* 3 SALES - 11 POP.  
\* RECODE COMPLEXID("394260092UCA0018", "420870149UCA0038", "421230658UCA0064" = 1)(ELSE = 0) INTO CPLX\_128x. /\* 16 SALES - 35 POP.  
\* RECODE COMPLEXID("395020064UCA0089" = 1)(ELSE = 0) INTO CPLX\_129. /\* 10 SALES - 35 POP.  
\* RECODE COMPLEXID("420870149UCA0038" = 1)(ELSE = 0) INTO CPLX\_130. /\* 2 SALES - 14 POP.  
\* RECODE COMPLEXID("421230658UCA0064" = 1)(ELSE = 0) INTO CPLX\_131. /\* 0 SALES - 5 POP.  
\* RECODE COMPLEXID("42E0134UCA0011" = 1)(ELSE = 0) INTO CPLX\_132. /\* 22 SALES - 70 POP.  
\* RECODE COMPLEXID("42E0550UCA0015" = 1)(ELSE = 0) INTO CPLX\_133. /\* 25 SALES - 60 POP.  
\* RECODE COMPLEXID("434010026UCA0101" = 1)(ELSE = 0) INTO CPLX\_134. /\* 30 SALES - 128 POP.  
\* RECODE COMPLEXID("43D0750UCA0003" = 1)(ELSE = 0) INTO CPLX\_135. /\* 27 SALES - 75 POP.  
\* RECODE COMPLEXID("43D0754UCA0023" = 1)(ELSE = 0) INTO CPLX\_136. /\* 29 SALES - 108 POP.  
\* RECODE COMPLEXID("440780101UCA0265" = 1)(ELSE = 0) INTO CPLX\_137. /\* 118 SALES - 122 POP.  
\* RECODE COMPLEXID("440780102UCA0256" = 1)(ELSE = 0) INTO CPLX\_138. /\* 80 SALES - 90 POP.  
\* RECODE COMPLEXID("440780103UCA0250" = 1)(ELSE = 0) INTO CPLX\_139. /\* 68 SALES - 74 POP.  
\* RECODE COMPLEXID("440780104UCA0237" = 1)(ELSE = 0) INTO CPLX\_140. /\* 11 SALES - 36 POP.  
\* RECODE COMPLEXID("440780106UCA0225" = 1)(ELSE = 0) INTO CPLX\_141. /\* 37 SALES - 102 POP.  
\* RECODE COMPLEXID("440780107UCA0237" = 1)(ELSE = 0) INTO CPLX\_142. /\* 10 SALES - 36 POP.  
\* RECODE COMPLEXID("440780109UCA0221" = 1)(ELSE = 0) INTO CPLX\_143. /\* 49 SALES - 144 POP.  
\* RECODE COMPLEXID("440780110UCA0224" = 1)(ELSE = 0) INTO CPLX\_144. /\* 36 SALES - 106 POP.  
\* RECODE COMPLEXID("454030056UCA0276" = 1)(ELSE = 0) INTO CPLX\_145. /\* 30 SALES - 30 POP.  
\* RECODE COMPLEXID("471510045UCA0024" = 1)(ELSE = 0) INTO CPLX\_146. /\* 25 SALES - 68 POP.  
\* RECODE COMPLEXID("471510046UCA0031" = 1)(ELSE = 0) INTO CPLX\_147. /\* 32 SALES - 69 POP.  
\* RECODE COMPLEXID("485710024UCA0097" = 1)(ELSE = 0) INTO CPLX\_148. /\* 23 SALES - 74 POP.  
\* RECODE COMPLEXID("490880613UCA0029" = 1)(ELSE = 0) INTO CPLX\_149. /\* 7 SALES - 22 POP.  
\* RECODE COMPLEXID("491890024UCA0259" = 1)(ELSE = 0) INTO CPLX\_150. /\* 32 SALES - 22 POP.  
\* RECODE COMPLEXID("492970001UCA0096" = 1)(ELSE = 0) INTO CPLX\_151. /\* 17 SALES - 80 POP.  
\* RECODE COMPLEXID("492980102UCA0210" = 1)(ELSE = 0) INTO CPLX\_152. /\* 9 SALES - 20 POP.  
\* RECODE COMPLEXID("505920023UCA0183" = 1)(ELSE = 0) INTO CPLX\_153. /\* 2 SALES - 12 POP.  
\* RECODE COMPLEXID("506010005UCA0251" = 1)(ELSE = 0) INTO CPLX\_154. /\* 116 SALES - 212 POP.  
\* RECODE COMPLEXID("506010006UCA0258" = 1)(ELSE = 0) INTO CPLX\_155. /\* 215 SALES - 192 POP.

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* RECODE COMPLEXID("50E0066UCA0014" = 1)(ELSE = 0) INTO CPLX_156. /* 15 SALES - 52
POP.
* RECODE COMPLEXID("50E0067UCA0120" = 1)(ELSE = 0) INTO CPLX_157. /* 16 SALES - 41
POP.
* RECODE COMPLEXID("513930045UCA0095" = 1)(ELSE = 0) INTO CPLX_158. /* 5 SALES -
20 POP.
* RECODE COMPLEXID("505920023UCA0183", "514130027UCA0091" = 1)(ELSE = 0) INTO
CPLX_159x. /* 50 SALES - 185 POP.
* RECODE COMPLEXID("52" = 1)(ELSE = 0) INTO CPLX_160. /* 5 SALES - 16 POP.
* RECODE COMPLEXID("532110087UCA0233" = 1)(ELSE = 0) INTO CPLX_161. /* 133 SALES -
210 POP.
* RECODE COMPLEXID("541870253UCA0185" = 1)(ELSE = 0) INTO CPLX_162. /* 0 SALES - 4
POP.
* RECODE COMPLEXID("541870253UCA0185", "541950139UCA0012" = 1)(ELSE = 0) INTO
CPLX_163x. /* 7 SALES - 32 POP.
* RECODE COMPLEXID("542440226UCA0081" = 1)(ELSE = 0) INTO CPLX_164. /* 11 SALES -
42 POP.
* RECODE COMPLEXID("54N4329UCA0078" = 1)(ELSE = 0) INTO CPLX_165. /* 7 SALES - 23
POP.
* RECODE COMPLEXID("52", "56" = 1)(ELSE = 0) INTO CPLX_166x. /* 26 SALES - 54 POP.
* RECODE COMPLEXID("562710271UCA0067" = 1)(ELSE = 0) INTO CPLX_167. /* 3 SALES -
18 POP.
* RECODE COMPLEXID("56H2359UCA0204", "132" = 1)(ELSE = 0) INTO CPLX_168. /* 2
SALES - 14 POP.
* RECODE COMPLEXID("562710271UCA0067", "56W1290UCA0043" = 1)(ELSE = 0) INTO
CPLX_169x. /* 5 SALES - 20 POP.
* RECODE COMPLEXID("580070137UCA0212" = 1)(ELSE = 0) INTO CPLX_170. /* 1 SALES - 6
POP - UNIQUE GROUP LISTINGS SUPPORT THIS ONE SALE.
* RECODE COMPLEXID("580750065UCA0046" = 1)(ELSE = 0) INTO CPLX_171. /* 9 SALES -
30 POP.
* RECODE COMPLEXID("580870126UCA0199" = 1)(ELSE = 0) INTO CPLX_172. /* 6 SALES -
12 POP.
* RECODE COMPLEXID("590180043UCA0112" = 1)(ELSE = 0) INTO CPLX_173. /* 9 SALES -
13 POP.
* RECODE COMPLEXID("590280181UCA0088", "590280184UCA0104", "590390151UCA0155" =
1)(ELSE = 0) INTO CPLX_174x. /* 3 SALES - 16 POP.
* RECODE COMPLEXID("590280184UCA0104" = 1)(ELSE = 0) INTO CPLX_175. /* 2 SALES -
12 POP.
* RECODE COMPLEXID("590390151UCA0155" = 1)(ELSE = 0) INTO CPLX_176. /* 2 SALES - 6
POP.
* RECODE COMPLEXID("590400232UCA0194" = 1)(ELSE = 0) INTO CPLX_177. /* 6 SALES -
16 POP.
* RECODE COMPLEXID("590510173UCA0164" = 1)(ELSE = 0) INTO CPLX_178. /* 3 SALES -
14 POP.
* RECODE COMPLEXID("590510173UCA0164", "590750165UCA0191", "590880226UCA0145" =
1)(ELSE = 0) INTO CPLX_179x. /* 7 SALES - 18 POP.
* RECODE COMPLEXID("590880226UCA0145" = 1)(ELSE = 0) INTO CPLX_180. /* 2 SALES -
10 POP.
* RECODE COMPLEXID("591010225UCA0192" = 1)(ELSE = 0) INTO CPLX_181. /* 5 SALES -
12 POP.
* RECODE COMPLEXID("591010227UCA0177" = 1)(ELSE = 0) INTO CPLX_182. /* 5 SALES -
12 POP.
* RECODE COMPLEXID("591590172UCA0266", "591600260UCA0268" = 1)(ELSE = 0) INTO
CPLX_183x. /* 12 SALES - 10 POP.
* RECODE COMPLEXID("591600260UCA0268" = 1)(ELSE = 0) INTO CPLX_184. /* 3 SALES - 2
POP.
* RECODE COMPLEXID("591740156UCA0125", "591750151UCA0179", "591890348UCA0157",
"591890349UCA0166" = 1)(ELSE = 0) INTO CPLX_185x. /* 2 SALES - 4 POP.
* RECODE COMPLEXID("591750151UCA0179" = 1)(ELSE = 0) INTO CPLX_186. /* 4 SALES - 4
POP.
* RECODE COMPLEXID("591890348UCA0157" = 1)(ELSE = 0) INTO CPLX_187. /* 1 SALES - 8
POP.
* RECODE COMPLEXID("591890349UCA0166" = 1)(ELSE = 0) INTO CPLX_188. /* 0 SALES -

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10 POP.
* RECODE COMPLEXID("591900254UCA0137" = 1)(ELSE = 0) INTO CPLX_189. /* 1 SALES -
10 POP.
* RECODE COMPLEXID("591900254UCA0137", "591900255UCA0143", "591900256UCA0229" =
1)(ELSE = 0) INTO CPLX_190x. /* 4 SALES - 18 POP.
* RECODE COMPLEXID("591900256UCA0229" = 1)(ELSE = 0) INTO CPLX_191. /* 1 SALES - 4
POP.
* RECODE COMPLEXID("592050238UCA0158" = 1)(ELSE = 0) INTO CPLX_192. /* 8 SALES -
20 POP.
* RECODE COMPLEXID("592200108UCA0119" = 1)(ELSE = 0) INTO CPLX_193. /* 11 SALES -
36 POP.
* RECODE COMPLEXID("592500143UCA0206" = 1)(ELSE = 0) INTO CPLX_194. /* 5 SALES -
20 POP.
* RECODE COMPLEXID("60" = 1)(ELSE = 0) INTO CPLX_195. /* 6 SALES - 14 POP.
* RECODE COMPLEXID("600900034UCA0234", "600910004UCA0002", "600910004UCA0006",
"600910004UCA0008", "600910004UCA0010", "600910004UCA0013" = 1)(ELSE = 0) INTO
CPLX_196x. /* 45 SALES - 68 POP.
* RECODE COMPLEXID("600910004UCA0002" = 1)(ELSE = 0) INTO CPLX_197. /* 54 SALES -
197 POP.
* RECODE COMPLEXID("600910004UCA0006" = 1)(ELSE = 0) INTO CPLX_198. /* 2 SALES -
10 POP.
* RECODE COMPLEXID("600910004UCA0008" = 1)(ELSE = 0) INTO CPLX_199. /* 5 SALES -
10 POP.
* RECODE COMPLEXID("600910004UCA0010" = 1)(ELSE = 0) INTO CPLX_200. /* 2 SALES - 4
POP.
* RECODE COMPLEXID("600910004UCA0013" = 1)(ELSE = 0) INTO CPLX_201. /* 2 SALES - 2
POP.
* RECODE COMPLEXID("70" = 1)(ELSE = 0) INTO CPLX_202. /* 123 SALES - 351 POP.
* RECODE COMPLEXID("74" = 1)(ELSE = 0) INTO CPLX_203. /* 10 SALES - 40 POP.
* RECODE COMPLEXID("8" = 1)(ELSE = 0) INTO CPLX_204. /* 10 SALES - 14 POP.
* RECODE COMPLEXID("87" = 1)(ELSE = 0) INTO CPLX_205. /* 63 SALES - 180 POP.
* RECODE COMPLEXID("966" = 1)(ELSE = 0) INTO CPLX_966.
* FORMATS CPLX_1 TO CPLX_966 (F1.0).

* COMPUTE CPLX_CHECK = SUM(CPLX_1 TO CPLX_966).
* DESCRIPTIVES CPLX_CHECK.

* COMPUTE CPLX_188A = 0.
* IF ANY(PARID, '08351 00350', '08351 00360', '08351 00370', '08351 00380',
'08351 00770', '08351 00560',
'08351 00570', '08351 00960', '08351 00460', '08351 00650', '08351 00660',
'08351 00670',
'08351 00410', '08351 01120', '08351 00640', '08351 00090', '08351 00100',
'08351 00980',
'08351 00990', '08351 01000', '08351 00470', '08351 01140', '08351 01010',
'08351 01020',
'08351 00330', '08351 00610', '08351 00620', '08351 00630', '08351 00010',
'08351 00020',
'08351 00260', '08351 02380', '08351 00800', '08351 00810', '08351 00430',
'08351 00440',
'08351 00450', '08351 00820', '08351 00040', '08351 00320', '08351 02390',
'08351 02400',
'08351 00030', '08351 00110', '08351 00120', '08351 00510', '08351 00490',
'08351 00500',
'08351 01100', '08351 01110', '08351 00680', '08351 00690', '08351 00910',
'08351 00920',
'08351 00070', '08351 00140', '08351 00420', '08351 00240', '08351 01090',
'08351 00700',
'08351 00710', '08351 02370', '08351 00890', '08351 00790', '08351 01130',
'08351 00230',
'08351 00950', '08351 00870', '08351 00880', '08351 00860', '08351 00300',
'08351 00310',
'08351 00590', '08351 00600', '08351 00250', '08351 01050', '08351 00720',

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'08351 00730', '08351 00550', '08351 00970', '08351 00520', '08351 00530', '08351 00270',
'08351 00290', '08351 00830', '08351 00840', '08351 00850', '08351 00220', '08351 00540',
'08351 00780', '08351 00930', '08351 00080', '08351 00170', '08351 00180', '08351 00160',
'08351 00280', '08351 00130', '08351 00200', '08351 00210', '08351 00390', '08351 00400',
'08351 00190', '08351 00150', '08351 00740', '08351 00750', '08351 00760', '08351 01030',
'08351 01040', '08351 00060', '08351 00340', '08351 01060', '08351 01070', '08351 01080',
'08351 00940', '08351 00900', '08351 00480', '08351 00050', '08351 00580') CPLX_188A = 1.

* STRING SUBCODE (A20).
* IF (CPLX_1 EQ 1)SUBCODE = 'CPLX_1'.
* IF (CPLX_2 EQ 1)SUBCODE = 'CPLX_2'.
* IF (CPLX_3 EQ 1)SUBCODE = 'CPLX_3'.
* IF (CPLX_4 EQ 1)SUBCODE = 'CPLX_4'.
* IF (CPLX_5 EQ 1)SUBCODE = 'CPLX_5'.
* IF (CPLX_6 EQ 1)SUBCODE = 'CPLX_6'.
* IF (CPLX_7 EQ 1)SUBCODE = 'CPLX_7'.
* IF (CPLX_8 EQ 1)SUBCODE = 'CPLX_8'.
* IF (CPLX_9 EQ 1)SUBCODE = 'CPLX_9'.
* IF (CPLX_10 EQ 1)SUBCODE = 'CPLX_10'.
* IF (CPLX_11 EQ 1)SUBCODE = 'CPLX_11'.
* IF (CPLX_12 EQ 1)SUBCODE = 'CPLX_12'.
* IF (CPLX_13 EQ 1)SUBCODE = 'CPLX_13'.
* IF (CPLX_14 EQ 1)SUBCODE = 'CPLX_14'.
* IF (CPLX_15 EQ 1)SUBCODE = 'CPLX_15'.
* IF (CPLX_16 EQ 1)SUBCODE = 'CPLX_16'.
* IF (CPLX_17 EQ 1)SUBCODE = 'CPLX_17'.
* IF (CPLX_18 EQ 1)SUBCODE = 'CPLX_18'.
* IF (CPLX_19 EQ 1)SUBCODE = 'CPLX_19'.
* IF (CPLX_20x EQ 1)SUBCODE = 'CPLX_20x'.
* IF (CPLX_22 EQ 1)SUBCODE = 'CPLX_22'.
* IF (CPLX_24 EQ 1)SUBCODE = 'CPLX_24'.
* IF (CPLX_25 EQ 1)SUBCODE = 'CPLX_25'.
* IF (CPLX_26 EQ 1)SUBCODE = 'CPLX_26'.
* IF (CPLX_27 EQ 1)SUBCODE = 'CPLX_27'.
* IF (CPLX_28 EQ 1)SUBCODE = 'CPLX_28'.
* IF (CPLX_29 EQ 1)SUBCODE = 'CPLX_29'.
* IF (CPLX_30 EQ 1)SUBCODE = 'CPLX_30'.
* IF (CPLX_31 EQ 1)SUBCODE = 'CPLX_31'.
* IF (CPLX_32 EQ 1)SUBCODE = 'CPLX_32'.
* IF (CPLX_33 EQ 1)SUBCODE = 'CPLX_33'.
* IF (CPLX_35 EQ 1)SUBCODE = 'CPLX_35'.
* IF (CPLX_36 EQ 1)SUBCODE = 'CPLX_36'.
* IF (CPLX_37 EQ 1)SUBCODE = 'CPLX_37'.
* IF (CPLX_38 EQ 1)SUBCODE = 'CPLX_38'.
* IF (CPLX_39 EQ 1)SUBCODE = 'CPLX_39'.
* IF (CPLX_40 EQ 1)SUBCODE = 'CPLX_40'.
* IF (CPLX_41 EQ 1)SUBCODE = 'CPLX_41'.
* IF (CPLX_42x EQ 1)SUBCODE = 'CPLX_42x'.
* IF (CPLX_46 EQ 1)SUBCODE = 'CPLX_46'.
* IF (CPLX_47 EQ 1)SUBCODE = 'CPLX_47'.
* IF (CPLX_48 EQ 1)SUBCODE = 'CPLX_48'.
* IF (CPLX_49 EQ 1)SUBCODE = 'CPLX_49'.
* IF (CPLX_50 EQ 1)SUBCODE = 'CPLX_50'.
* IF (CPLX_52 EQ 1)SUBCODE = 'CPLX_52'.
* IF (CPLX_54 EQ 1)SUBCODE = 'CPLX_54'.
* IF (CPLX_55 EQ 1)SUBCODE = 'CPLX_55'.
```

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```
* IF (CPLX_56 EQ 1)SUBCODE = 'CPLX_56'.
* IF (CPLX_57 EQ 1)SUBCODE = 'CPLX_57'.
* IF (CPLX_58 EQ 1)SUBCODE = 'CPLX_58'.
* IF (CPLX_59 EQ 1)SUBCODE = 'CPLX_59'.
* IF (CPLX_60 EQ 1)SUBCODE = 'CPLX_60'.
* IF (CPLX_61x EQ 1)SUBCODE = 'CPLX_61x'.
* IF (CPLX_65 EQ 1)SUBCODE = 'CPLX_65'.
* IF (CPLX_66 EQ 1)SUBCODE = 'CPLX_66'.
* IF (CPLX_67 EQ 1)SUBCODE = 'CPLX_67'.
* IF (CPLX_68 EQ 1)SUBCODE = 'CPLX_68'.
* IF (CPLX_69 EQ 1)SUBCODE = 'CPLX_69'.
* IF (CPLX_70 EQ 1)SUBCODE = 'CPLX_70'.
* IF (CPLX_71 EQ 1)SUBCODE = 'CPLX_71'.
* IF (CPLX_72 EQ 1)SUBCODE = 'CPLX_72'.
* IF (CPLX_73 EQ 1)SUBCODE = 'CPLX_73'.
* IF (CPLX_74 EQ 1)SUBCODE = 'CPLX_74'.
* IF (CPLX_76 EQ 1)SUBCODE = 'CPLX_76'.
* IF (CPLX_78 EQ 1)SUBCODE = 'CPLX_78'.
* IF (CPLX_80 EQ 1)SUBCODE = 'CPLX_80'.
* IF (CPLX_81 EQ 1)SUBCODE = 'CPLX_81'.
* IF (CPLX_83 EQ 1)SUBCODE = 'CPLX_83'.
* IF (CPLX_84 EQ 1)SUBCODE = 'CPLX_84'.
* IF (CPLX_85 EQ 1)SUBCODE = 'CPLX_85'.
* IF (CPLX_86 EQ 1)SUBCODE = 'CPLX_86'.
* IF (CPLX_87 EQ 1)SUBCODE = 'CPLX_87'.
* IF (CPLX_88 EQ 1)SUBCODE = 'CPLX_88'.
* IF (CPLX_89 EQ 1)SUBCODE = 'CPLX_89'.
* IF (CPLX_91 EQ 1)SUBCODE = 'CPLX_91'.
* IF (CPLX_92 EQ 1)SUBCODE = 'CPLX_92'.
* IF (CPLX_93x EQ 1)SUBCODE = 'CPLX_93x'.
* IF (CPLX_94 EQ 1)SUBCODE = 'CPLX_94'.
* IF (CPLX_95 EQ 1)SUBCODE = 'CPLX_95'.
* IF (CPLX_96 EQ 1)SUBCODE = 'CPLX_96'.
* IF (CPLX_97 EQ 1)SUBCODE = 'CPLX_97'.
* IF (CPLX_98x EQ 1)SUBCODE = 'CPLX_98x'.
* IF (CPLX_101 EQ 1)SUBCODE = 'CPLX_101'.
* IF (CPLX_102 EQ 1)SUBCODE = 'CPLX_102'.
* IF (CPLX_103 EQ 1)SUBCODE = 'CPLX_103'.
* IF (CPLX_105x EQ 1)SUBCODE = 'CPLX_105x'.
* IF (CPLX_106 EQ 1)SUBCODE = 'CPLX_106'.
* IF (CPLX_107 EQ 1)SUBCODE = 'CPLX_107'.
* IF (CPLX_109x EQ 1)SUBCODE = 'CPLX_109x'.
* IF (CPLX_111 EQ 1)SUBCODE = 'CPLX_111'.
* IF (CPLX_113x EQ 1)SUBCODE = 'CPLX_113x'.
* IF (CPLX_114 EQ 1)SUBCODE = 'CPLX_114'.
* IF (CPLX_115 EQ 1)SUBCODE = 'CPLX_115'.
* IF (CPLX_116 EQ 1)SUBCODE = 'CPLX_116'.
* IF (CPLX_117x EQ 1)SUBCODE = 'CPLX_117x'.
* IF (CPLX_119 EQ 1)SUBCODE = 'CPLX_119'.
* IF (CPLX_120 EQ 1)SUBCODE = 'CPLX_120'.
* IF (CPLX_121 EQ 1)SUBCODE = 'CPLX_121'.
* IF (CPLX_122 EQ 1)SUBCODE = 'CPLX_122'.
* IF (CPLX_123 EQ 1)SUBCODE = 'CPLX_123'.
* IF (CPLX_124x EQ 1)SUBCODE = 'CPLX_124x'.
* IF (CPLX_125 EQ 1)SUBCODE = 'CPLX_125'.
* IF (CPLX_126 EQ 1)SUBCODE = 'CPLX_126'.
* IF (CPLX_127 EQ 1)SUBCODE = 'CPLX_127'.
* IF (CPLX_128x EQ 1)SUBCODE = 'CPLX_128x'.
* IF (CPLX_129 EQ 1)SUBCODE = 'CPLX_129'.
* IF (CPLX_132 EQ 1)SUBCODE = 'CPLX_132'.
* IF (CPLX_133 EQ 1)SUBCODE = 'CPLX_133'.
* IF (CPLX_134 EQ 1)SUBCODE = 'CPLX_134'.
* IF (CPLX_135 EQ 1)SUBCODE = 'CPLX_135'.
```

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```
* IF (CPLX_136 EQ 1)SUBCODE = 'CPLX_136'.
* IF (CPLX_137 EQ 1)SUBCODE = 'CPLX_137'.
* IF (CPLX_138 EQ 1)SUBCODE = 'CPLX_138'.
* IF (CPLX_139 EQ 1)SUBCODE = 'CPLX_139'.
* IF (CPLX_140 EQ 1)SUBCODE = 'CPLX_140'.
* IF (CPLX_141 EQ 1)SUBCODE = 'CPLX_141'.
* IF (CPLX_142 EQ 1)SUBCODE = 'CPLX_142'.
* IF (CPLX_143 EQ 1)SUBCODE = 'CPLX_143'.
* IF (CPLX_144 EQ 1)SUBCODE = 'CPLX_144'.
* IF (CPLX_145 EQ 1)SUBCODE = 'CPLX_145'.
* IF (CPLX_146 EQ 1)SUBCODE = 'CPLX_146'.
* IF (CPLX_147 EQ 1)SUBCODE = 'CPLX_147'.
* IF (CPLX_148 EQ 1)SUBCODE = 'CPLX_148'.
* IF (CPLX_149 EQ 1)SUBCODE = 'CPLX_149'.
* IF (CPLX_150 EQ 1)SUBCODE = 'CPLX_150'.
* IF (CPLX_151 EQ 1)SUBCODE = 'CPLX_151'.
* IF (CPLX_152 EQ 1)SUBCODE = 'CPLX_152'.
* IF (CPLX_154 EQ 1)SUBCODE = 'CPLX_154'.
* IF (CPLX_155 EQ 1)SUBCODE = 'CPLX_155'.
* IF (CPLX_156 EQ 1)SUBCODE = 'CPLX_156'.
* IF (CPLX_157 EQ 1)SUBCODE = 'CPLX_157'.
* IF (CPLX_158 EQ 1)SUBCODE = 'CPLX_158'.
* IF (CPLX_159x EQ 1)SUBCODE = 'CPLX_159x'.
* IF (CPLX_161 EQ 1)SUBCODE = 'CPLX_161'.
* IF (CPLX_163x EQ 1)SUBCODE = 'CPLX_163x'.
* IF (CPLX_164 EQ 1)SUBCODE = 'CPLX_164'.
* IF (CPLX_165 EQ 1)SUBCODE = 'CPLX_165'.
* IF (CPLX_166x EQ 1)SUBCODE = 'CPLX_166x'.
* IF (CPLX_168 EQ 1)SUBCODE = 'CPLX_168'.
* IF (CPLX_169x EQ 1)SUBCODE = 'CPLX_169x'.
* IF (CPLX_170 EQ 1)SUBCODE = 'CPLX_170'.
* IF (CPLX_171 EQ 1)SUBCODE = 'CPLX_171'.
* IF (CPLX_172 EQ 1)SUBCODE = 'CPLX_172'.
* IF (CPLX_173 EQ 1)SUBCODE = 'CPLX_173'.
* IF (CPLX_174x EQ 1)SUBCODE = 'CPLX_174x'.
* IF (CPLX_177 EQ 1)SUBCODE = 'CPLX_177'.
* IF (CPLX_179x EQ 1)SUBCODE = 'CPLX_179x'.
* IF (CPLX_181 EQ 1)SUBCODE = 'CPLX_181'.
* IF (CPLX_182 EQ 1)SUBCODE = 'CPLX_182'.
* IF (CPLX_183x EQ 1)SUBCODE = 'CPLX_183x'.
* IF (CPLX_185x EQ 1)SUBCODE = 'CPLX_185x'.
* IF (CPLX_190x EQ 1)SUBCODE = 'CPLX_190x'.
* IF (CPLX_192 EQ 1)SUBCODE = 'CPLX_192'.
* IF (CPLX_193 EQ 1)SUBCODE = 'CPLX_193'.
* IF (CPLX_194 EQ 1)SUBCODE = 'CPLX_194'.
* IF (CPLX_195 EQ 1)SUBCODE = 'CPLX_195'.
* IF (CPLX_196x EQ 1)SUBCODE = 'CPLX_196x'.
* IF (CPLX_202 EQ 1)SUBCODE = 'CPLX_202'.
* IF (CPLX_203 EQ 1)SUBCODE = 'CPLX_203'.
* IF (CPLX_204 EQ 1)SUBCODE = 'CPLX_204'.
* IF (CPLX_205 EQ 1)SUBCODE = 'CPLX_205'.
* IF (CPLX_966 EQ 1)SUBCODE = 'CPLX_966'.
```

CROSSTABS SUBCODE BY PARCEL\_TYPE.

```
* TEMPORARY.
* SELECT IF(SUBCODE EQ '').
* FREQUENCIES COMPLEXID.
```

```
IF(CPLX_11 EQ 1 AND SFLA EQ 2395)CPLX_11_EQ2395 = 1.
IF(CPLX_11 EQ 1 AND SFLA EQ 3147)CPLX_11_EQ3147 = 1.
IF(CPLX_15 EQ 1 AND SFLA EQ 1238)CPLX_15_EQ1238 = 1.
IF(CPLX_15 EQ 1 AND SFLA EQ 1329)CPLX_15_EQ1329 = 1.
```

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```

IF(CPLX_16 EQ 1 AND SFLA EQ 1222)CPLX_16_EQ1222 = 1.
IF(CPLX_24 EQ 1 AND SFLA EQ 1276)CPLX_24_EQ1276 = 1.
IF(CPLX_26 EQ 1 AND SFLA GE 2192)CPLX_24_EQ2192 = 1.
IF(CPLX_28 EQ 1 AND SFLA EQ 2422)CPLX_28_EQ2422 = 1.
IF(CPLX_31 EQ 1 AND SFLA EQ 668)CPLX_31_EQ668 = 1.
IF(CPLX_40 EQ 1 AND SFLA EQ 2900)CPLX_40_EQ2900 = 1.
IF(CPLX_41 EQ 1 AND SFLA EQ 1379)CPLX_41_EQ1379 = 1.
IF(CPLX_41 EQ 1 AND SFLA EQ 1386)CPLX_41_EQ1386 = 1.
IF(CPLX_47 EQ 1 AND SFLA EQ 1486)CPLX_47_EQ1486 = 1.
IF(CPLX_47 EQ 1 AND SFLA EQ 1956)CPLX_47_EQ1956 = 1.
IF(CPLX_49 EQ 1 AND SFLA EQ 1484)CPLX_49_EQ1484 = 1.
IF(CPLX_54 EQ 1 AND SFLA LE 1927)CPLX_54_EQ1927 = 1.
IF(CPLX_55 EQ 1 AND SFLA EQ 1927)CPLX_55_EQ1927 = 1.
IF(CPLX_60 EQ 1 AND SFLA LE 1886)CPLX_60_EQ1886 = 1.
IF(CPLX_61x EQ 1 AND SFLA EQ 1845)CPLX_61x_EQ1845 = 1.
IF(CPLX_74 EQ 1 AND SFLA LE 2063)CPLX_74_EQ2063 = 1.
IF(CPLX_74 EQ 1 AND SFLA GE 2762)CPLX_74_EQ2762 = 1.
IF(CPLX_76 EQ 1 AND SFLA LE 900)CPLX_76_EQ900 = 1.
IF(CPLX_92 EQ 1 AND ANY(SFLA, 1578, 1736))CPLX_92_EQ1578_EQ1736 = 1.
IF(CPLX_114 EQ 1 AND SFLA EQ 1480)CPLX_114_EQ1480 = 1.
IF(CPLX_115 EQ 1 AND SFLA EQ 1480)CPLX_115_EQ1480 = 1.
IF(CPLX_116 EQ 1 AND SFLA EQ 1480)CPLX_116_EQ1480 = 1.
IF(CPLX_123 EQ 1 AND SFLA EQ 760)CPLX_123_EQ760 = 1.
IF(CPLX_123 EQ 1 AND SFLA GE 1106)CPLX_123_EQ1106 = 1.
IF(CPLX_124x EQ 1 AND SFLA EQ 1570)CPLX_124x_EQ1570 = 1.
IF(CPLX_125 EQ 1 AND SFLA EQ 1296)CPLX_125_EQ1296 = 1.
IF(CPLX_106 EQ 1 AND SFLA GE 2117)CPLX_106_EQ2117 = 1.
IF(CPLX_134 EQ 1 AND SFLA LE 1568)CPLX_134_EQ1568 = 1.
IF(CPLX_136 EQ 1 AND SFLA EQ 1152)CPLX_136_EQ1152 = 1.
IF(CPLX_137 EQ 1 AND SFLA EQ 1319)CPLX_137_EQ1319 = 1.
IF(CPLX_137 EQ 1 AND SFLA EQ 1328)CPLX_137_EQ1328 = 1.
IF(CPLX_137 EQ 1 AND SFLA GE 1888)CPLX_137_EQ1888 = 1.
IF(CPLX_138 EQ 1 AND SFLA EQ 1319)CPLX_138_EQ1319 = 1.
IF(CPLX_139 EQ 1 AND SFLA LE 1319)CPLX_139_EQ1319 = 1.
IF(CPLX_139 EQ 1 AND SFLA EQ 1328)CPLX_139_EQ1328 = 1.
IF(CPLX_139 EQ 1 AND SFLA EQ 1562)CPLX_139_EQ1562 = 1.
IF(CPLX_139 EQ 1 AND SFLA GE 2302)CPLX_139_EQ2302 = 1.
IF(CPLX_140 EQ 1 AND SFLA EQ 1349)CPLX_140_EQ1349 = 1.
IF(CPLX_141 EQ 1 AND SFLA LE 1349)CPLX_141_EQ1349 = 1.
IF(CPLX_143 EQ 1 AND SFLA LE 1328)CPLX_143_EQ1328 = 1.
IF(CPLX_143 EQ 1 AND SFLA GE 2036)CPLX_143_EQ2036 = 1.
IF(CPLX_144 EQ 1 AND SFLA EQ 1562)CPLX_144_EQ1562 = 1.
IF(CPLX_144 EQ 1 AND SFLA EQ 2302)CPLX_144_EQ2302 = 1.
IF(CPLX_154 EQ 1 AND SFLA LE 1030)CPLX_154_EQ1030 = 1.
IF(CPLX_154 EQ 1 AND SFLA EQ 1358)CPLX_154_EQ1358 = 1.
IF(CPLX_155 EQ 1 AND SFLA EQ 1358)CPLX_155_EQ1358 = 1.
IF(CPLX_156 EQ 1 AND SFLA EQ 1360)CPLX_156_EQ1360 = 1.
IF(CPLX_157 EQ 1 AND SFLA EQ 1466)CPLX_157_EQ1466 = 1.
IF(CPLX_159x EQ 1 AND SFLA EQ 1062)CPLX_159x_EQ1062 = 1.
IF(CPLX_159x EQ 1 AND SFLA EQ 1522)CPLX_159x_EQ1522 = 1.
IF(CPLX_161 EQ 1 AND SFLA EQ 1312)CPLX_161_EQ1312 = 1.
IF(CPLX_161 EQ 1 AND SFLA EQ 1353)CPLX_161_EQ1353 = 1.
IF(CPLX_161 EQ 1 AND SFLA EQ 1752)CPLX_161_EQ1752 = 1.
IF(CPLX_173 EQ 1 AND SFLA EQ 3150)CPLX_173_EQ3150 = 1.
IF(CPLX_181 EQ 1 AND SFLA EQ 1330)CPLX_181_EQ1330 = 1.
IF(CPLX_185x EQ 1 AND SFLA GE 1380)CPLX_185x_EQ1380 = 1.
IF(CPLX_196x EQ 1 AND SFLA EQ 1090)CPLX_196x_EQ1090 = 1.
IF(CPLX_196x EQ 1 AND SFLA EQ 1110)CPLX_196x_EQ1110 = 1.
IF(CPLX_205 EQ 1 AND SFLA GE 2080)CPLX_205_EQ2080 = 1.

```

RECODE CPLX\_11\_EQ2395 TO CPLX\_205\_GE2080 (SYSMIS = 0).  
 FORMATS CPLX\_11\_EQ2395 TO CPLX\_205\_EQ2080 (F1.0).

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```
STRING StyleNew (A1).
COMPUTE StyleNew = 'A'.
IF(CPLX_11_EQ2395 EQ 1)StyleNew = 'B'.
IF(CPLX_11_EQ3147 EQ 1)StyleNew = 'C'.
IF(CPLX_15_EQ1238 EQ 1)StyleNew = 'B'.
IF(CPLX_15_EQ1329 EQ 1)StyleNew = 'C'.
IF(CPLX_24_EQ1276 EQ 1)StyleNew = 'B'.
IF(CPLX_24_EQ2192 EQ 1)StyleNew = 'C'.
IF(CPLX_28_EQ2422 EQ 1)StyleNew = 'B'.
IF(CPLX_31_EQ668 EQ 1)StyleNew = 'B'.
IF(CPLX_40_EQ2900 EQ 1)StyleNew = 'B'.
IF(CPLX_41_EQ1379 EQ 1)StyleNew = 'B'.
IF(CPLX_41_EQ1386 EQ 1)StyleNew = 'C'.
IF(CPLX_47_EQ1486 EQ 1)StyleNew = 'B'.
IF(CPLX_47_EQ1956 EQ 1)StyleNew = 'C'.
IF(CPLX_49_EQ1484 EQ 1)StyleNew = 'B'.
IF(CPLX_54_LE1927 EQ 1)StyleNew = 'B'.
IF(CPLX_55_EQ1927 EQ 1)StyleNew = 'B'.
IF(CPLX_60_LE1886 EQ 1)StyleNew = 'B'.
IF(CPLX_61x_EQ1845 EQ 1)StyleNew = 'B'.
IF(CPLX_74_LE2063 EQ 1)StyleNew = 'B'.
IF(CPLX_74_EQ2762 EQ 1)StyleNew = 'C'.
IF(CPLX_76_LE900 EQ 1)StyleNew = 'B'.
IF(CPLX_92_EQ1578_1736 EQ 1)StyleNew = 'B'.
IF(CPLX_114_EQ1480 EQ 1)StyleNew = 'B'.
IF(CPLX_115_EQ1480 EQ 1)StyleNew = 'B'.
IF(CPLX_116_EQ1480 EQ 1)StyleNew = 'B'.
IF(CPLX_123_EQ1106 EQ 1)StyleNew = 'B'.
IF(CPLX_125_EQ1296 EQ 1)StyleNew = 'B'.
IF(CPLX_106_EQ2117 EQ 1)StyleNew = 'B'.
IF(CPLX_134_LE1568 EQ 1)StyleNew = 'B'.
IF(CPLX_137_EQ1319 EQ 1)StyleNew = 'B'.
IF(CPLX_137_EQ1328 EQ 1)StyleNew = 'C'.
IF(CPLX_137_EQ1888 EQ 1)StyleNew = 'D'.
IF(CPLX_138_EQ1319 EQ 1)StyleNew = 'B'.
IF(CPLX_139_EQ1319 EQ 1)StyleNew = 'B'.
IF(CPLX_139_EQ1328 EQ 1)StyleNew = 'C'.
IF(CPLX_139_EQ1562 EQ 1)StyleNew = 'D'.
IF(CPLX_139_EQ2302 EQ 1)StyleNew = 'E'.
IF(CPLX_140_EQ1349 EQ 1)StyleNew = 'B'.
IF(CPLX_141_EQ1349 EQ 1)StyleNew = 'B'.
IF(CPLX_143_EQ2036 EQ 1)StyleNew = 'B'.
IF(CPLX_144_EQ1562 EQ 1)StyleNew = 'B'.
IF(CPLX_144_EQ2302 EQ 1)StyleNew = 'C'.
IF(CPLX_154_EQ1030 EQ 1)StyleNew = 'B'.
IF(CPLX_154_EQ1358 EQ 1)StyleNew = 'C'.
IF(CPLX_155_EQ1358 EQ 1)StyleNew = 'B'.
IF(CPLX_157_EQ1466 EQ 1)StyleNew = 'B'.
IF(CPLX_159x_EQ1062 EQ 1)StyleNew = 'B'.
IF(CPLX_161_EQ1312 EQ 1)StyleNew = 'B'.
IF(CPLX_161_EQ1353 EQ 1)StyleNew = 'C'.
IF(CPLX_161_EQ1752 EQ 1)StyleNew = 'D'.
IF(CPLX_173_EQ3150 EQ 1)StyleNew = 'B'.
IF(CPLX_181_EQ1330 EQ 1)StyleNew = 'B'.
IF(CPLX_185x_EQ1380 EQ 1)StyleNew = 'B'.
IF(CPLX_196x_EQ1090 EQ 1)StyleNew = 'B'.
IF(CPLX_196x_EQ1110 EQ 1)StyleNew = 'C'.
IF(CPLX_205_EQ2080 EQ 1)StyleNew = 'B'.
```

\* FREQUENCIES StyleNew.

\*\*\*\*\*

\*WaterAttribute.

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```
* Water_Primary Water_Bay Water_Canal Water_Lake Water_Ocean Water_Sound  
Water_WaterView Water_None.  
  
* Water_Bay = 3 SALES, 21 IN POPULATION.  
* Water_Canal = 35 SALES, 81 IN POPULATION.  
* Water_Lake = 1 SALES, 5 IN POPULATION.  
* Water_Ocean = 4 SALES, 44 IN POPULATION.  
* Water_Sound = 1 SALES, 8 IN POPULATION.  
* Water_WaterView = 19 SALES, 53 IN POPULATION.  
  
* WILL COMBINE BAY, OCEAN AND SOUND.  
COMPUTE Water_BayOceanSound = MAX(Water_Ocean, Water_Sound).  
IF(Water_Bay EQ 1)Water_BayOceanSound = .50.  
  
* WILL COMBINE LAKE WITH CANAL.  
COMPUTE Water_CanalLake = MAX(Water_Canal, Water_Lake).  
  
COMPUTE Water_BayOceanSound67 = 0.  
IF(CPLX_67 EQ 1 AND Water_BayOceanSound GT 0)Water_BayOceanSound67 = 1.  
  
COMPUTE Water_BayOceanSound177_1 = 0.  
IF(CondoLevel EQ '1' AND CPLX_177 EQ 1 AND Water_BayOceanSound GT  
0)Water_BayOceanSound177_1 = 1.  
  
COMPUTE Water_BayOceanSound177_2 = 0.  
IF(CondoLevel EQ '2' AND CPLX_177 EQ 1 AND Water_BayOceanSound GT  
0)Water_BayOceanSound177_2 = 1.  
  
*****  
*Location.  
* None is base.  
  
* LOC_MajorHighway LOC_SecondaryStreet LOC_LongIslandRailRoad  
LOC_CommercialOrIndustrial  
LOC_ApartmentBuilding LOC_ContaminatedSite LOC_GolfCourse  
LOC_ReligiousInstitution LOC_School  
LOC_Park LOC_Cemetery LOC_AbuttsFireStation LOC_SplitSchoolDistrict LOC_Noise.  
  
* NO OCCURANCES OF THE FOLLOWING: LOC_ContaminatedSite, LOC_AbuttsFirestation,  
LOC_SplitSchoolDistrict  
* LOC_GolfCourse = 7 SALES, 22 IN POPULATION.  
* LOC_ReligiousInstitution = 1 SALES, 1 IN POPULATION.  
* LOC_School = 4 SALES, 11 IN POPULATION.  
* LOC_Park = 3 SALES, 10 IN POPULATION.  
* LOC_Cemetery = 3 SALES, 3 IN POPULATION.  
* LOC_Noise = 1 SALES, 1 IN POPULATION.  
  
COMPUTE LOC_ApartmentBuildingX = LOC_ApartmentBuilding.  
IF(APARTMENT_INFLUENCE EQ 1)LOC_ApartmentBuildingX = 1.  
  
COMPUTE LOC_CommercialOrIndustrialX = LOC_CommercialOrIndustrial.  
IF(COMMERCIAL_INFLUENCE EQ 1)LOC_CommercialOrIndustrialX = 1.  
  
COMPUTE LOC_MajorHighwayX = LOC_MajorHighway.  
IF(MAJOR_HIGHWAY EQ 1)LOC_MajorHighwayX = 1.  
  
COMPUTE LOC_SecondaryStreetX = LOC_SecondaryStreet.  
IF(SECONDARY_STREET EQ 1 AND LOC_MajorHighwayX NE 1)LOC_SecondaryStreetX = 1.  
  
COMPUTE LOC_LongIslandRailRoadX = LOC_LongIslandRailRoad.  
IF(LIRR NE 0)LOC_LongIslandRailRoadX = 1.
```

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\*\*\*\*\*  
\* Fronting.  
\* none and residential street and lane are base FR\_ResidentialStreet  
FR\_ResidentialLane .  
\* FR\_MajorStrip FR\_SecondaryArtery FR\_SecondaryStreet FR\_Culdesac FR\_DeadEnd  
FR\_FrontageRoad FR\_PrivateRoad  
  
\* FR\_MajorStrip = 160 SALES, 270 IN POPULATION.  
\* FR\_SecondaryArtery = 22 SALES, 36 IN POPULATION.  
\* FR\_SecondaryStreet = 171 SALES, 293 IN POPULATION.  
  
\* FR\_Culdesac = 27 SALES, 65 IN POPULATION.  
\* FR\_DeadEnd = 7 SALES, 25 IN POPULATION.  
\* FR\_FrontageRoad = 1 SALES, 2 IN POPULATION.  
\* FR\_PrivateRoad = 1,678 SALES, 2,744 IN POPULATION.

COMPUTE FR\_MarjorStripSecondaryArtery = FR\_SecondaryArtery.  
IF(FR\_MajorStrip EQ 1)FR\_MarjorStripSecondaryArtery = 1.25.

\*\*\*\*\*

\*Traffic.

\*None and Light are base.

\* TrafficLight TrafficMedium TrafficHeavy.

\* TrafficMedium = 3,184 SALES, 7,354 IN POPULATION.  
\* TrafficHeavy = 243 SALES, 355 IN POPULATION.

\*\*\*\*\*

\* CondoView.

\* None is base.

RECODE CondoView ('DT' = 1)(ELSE = 0) INTO CondoViewDetrimental.  
RECODE CondoView ('WP' = 1)(ELSE = 0) INTO CondoViewWaterPrimary.  
RECODE CondoView ('WS' = 1)(ELSE = 0) INTO CondoViewWaterSecondary.

\*\*\*\*\*

\* CondoType.

\* blank or missing is base.

RECODE CondoType ('GC' = 1)(ELSE = 0) INTO CondoTypeGardenCorner.  
RECODE CondoType ('GI' = 1)(ELSE = 0) INTO CondoTypeGardenInterior.  
RECODE CondoType ('TC' = 1)(ELSE = 0) INTO CondoTypeTownhouseCorner.  
RECODE CondoType ('TI' = 1)(ELSE = 0) INTO CondoTypeTownhouseInterior.

\* CROSSTABS CondoType by CONDOTYP.

\*\*\*\*\*

\* CondoLevel.

\* blank, missing and 1 are base.

RECODE CondoLevel ('2' = 1)(ELSE = 0) INTO CondoLevel2.  
IF(CONDOLVL EQ 2)CondoLevel2 = 1.  
RECODE CondoLevel ('3' = 1)(ELSE = 0) INTO CondoLevel3.  
IF(CONDOLVL EQ 3)CondoLevel3 = 1.

\* CROSSTABS CondoLevel by CONDOLVL.

\*\*\*\*\*

\* CondoAmenities.

RECODE CondoAmenities ('NN' = 1)(ELSE = 0) INTO CondoAmenitiesNone.  
RECODE CondoAmenities ('FR' = 1)(ELSE = 0) INTO CondoAmenitiesFair.  
RECODE CondoAmenities ('AV' = 1)(ELSE = 0) INTO CondoAmenitiesAverage.

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RECODE CondoAmenities ('GD' = 1)(ELSE = 0) INTO CondoAmenitiesGood.  
 RECODE CondoAmenities ('VG' = 1)(ELSE = 0) INTO CondoAmenitiesVGood.

\*\*\*\*\*  
 \*COST CONSTRAINTS.  
 COMPUTE ExtraImpsCost = SUM(RCNVAL2, RCNVAL3).  
 COMPUTE Cabin\_OfficeStudioCost = SUM(Cabin\_ADJRCNLD, OfficeStudio\_ADJRCNLD).  
 COMPUTE UtilityCost = SUM(UtilityBldgRCNLD, UtilShed\_ADJRCNLD).  
 COMPUTE GreenhouseCost = SUM(GreenhouseRCNLD, Greenhouse\_ADJRCNLD).  
 COMPUTE PoolCost = SUM(PoolVinylRCNLD, PoolConcrCNLD, PoolFbgl\_ADJRCNLD,  
 PoolGuni\_ADJRCNLD, PoolVinyl\_ADJRCNLD, SpaJacuzzi\_ADJRCNLD).  
 IF(PoolCost GT 0)LN\_PoolCost = LN(PoolCost).  
 RECODE LN\_PoolCost (SYSMIS = 0).

COMPUTE EnclPoolCost = SUM(EnclPoolLowRCNLD, EnclPoolHighRCNLD,  
 PoolEnclosure\_ADJRCNLD, BathHouse\_ADJRCNLD).  
 COMPUTE WallCost = SUM(Fence\_ADJRCNLD, MasonryWall\_ADJRCNLD, Paving\_ADJRCNLD).  
 COMPUTE MiscImpCost = SUM(ElevatorRCNLD, TennisCourt\_ADJRCNLD, Cellar\_ADJRCNLD,  
 MiscAddnRCNLD).  
 COMPUTE MiscWaterImpCost = SUM(BoatDock\_ADJRCNLD, BoatHouseEnclosed\_ADJRCNLD,  
 BoatHouseOpen\_ADJRCNLD, BoatSlip\_ADJRCNLD, Bulkhead\_ADJRCNLD, Seawall\_ADJRCNLD).  
 COMPUTE MiscCoverCost = SUM(Canopy\_ADJRCNLD, Gazebo\_ADJRCNLD).

COMPUTE COST\_RCNLDx\_P = SUM(Cabin\_OfficeStudioCost\_P, AGCost\_P, EnclPoolCost\_P,  
 WallCost\_P, MiscImpCost\_P, MiscWaterImpCost\_P, MiscCoverCost\_P).  
 COMPUTE COST\_RCNLDx = SUM(Cabin\_OfficeStudioCost, GreenhouseCost, EnclPoolCost,  
 WallCost, MiscImpCost, MiscWaterImpCost, MiscCoverCost).  
 RECODE COST\_RCNLDx (SYSMIS = 0).  
 FORMATS ExtraImpsCost Cabin\_OfficeStudioCost UtilityCost GreenhouseCost PoolCost  
 EnclPoolCost WallCost MiscImpCost MiscWaterImpCost MiscCoverCost COST\_RCNLDx  
 COST\_RCNLDx\_P (COMMA10.0).

TEMPORARY.  
 SELECT IF(COST\_RCNLDx GT 0).  
 DESCRIPTIVES COST\_RCNLDx COST\_RCNLDx\_P.

\*\*\*\*\*PREDICTION RUN\*\*\*\*\*  
 DO IF( PARCEL\_TYPE EQ 'S').  
 \* COMPUTE ADJPRICE = SOLDPRICE.  
 COMPUTE ADJPRICE = TASP.  
 END IF.

\*\*\*\*\*  
 \* LAND VALUE.  
 COMPUTE PCT\_GOOD\_ADJ = EXP( + .474299417766653 \* LN\_PCT\_GOOD).  
 COMPUTE Water\_ADJ = EXP( + .177800383545406 \* Water\_CanalLake  
 + .535466219458567 \* Water\_BayOceanSound  
 + -0.3011050927839 \* Water\_BayOceanSound67  
 + -0.27 \* Water\_BayOceanSound177\_1  
 + -0.06 \* Water\_BayOceanSound177\_2  
 + .127928157500187 \* Water\_waterView).  
 COMPUTE LOC\_ADJ = EXP( + -.060071750232371 \*  
 LOC\_LongIslandRailRoadX  
 + .204078861552487 \* LOC\_GolfCourse).

COMPUTE SITEADJ = Water\_ADJ \* LOC\_ADJ .  
 DO IF(SUMLAND GT 0).  
 COMPUTE SUM\_Acres = SUMLAND / 43560.  
 END IF.  
 RECODE SUM\_Acres (SYSMIS = 0).

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\* COMPUTE TEMP1 = ESP\_ECON \* .40.

```
* AGGREGATE
/OUTFILE = * MODEL=ADDVARIABLES
/BREAK = SUBCODE
/BaseValue = MEDIAN(TEMP1)
/LandSqftMedian = median(SUMLAND).

COMPUTE BaseValue = 200000.
IF(SUBCODE EQ 'CPLX_1')BaseValue = 235180.73910518480.
IF(SUBCODE EQ 'CPLX_10')BaseValue = 390218.38907797850.
IF(SUBCODE EQ 'CPLX_101')BaseValue = 341908.23907654270.
IF(SUBCODE EQ 'CPLX_102')BaseValue = 604948.87873380810.
IF(SUBCODE EQ 'CPLX_103')BaseValue = 137363.81730221070.
IF(SUBCODE EQ 'CPLX_105x')BaseValue = 97203.91739415308.
IF(SUBCODE EQ 'CPLX_106')BaseValue = 314067.20401695570.
IF(SUBCODE EQ 'CPLX_107')BaseValue = 169123.55874469860.
IF(SUBCODE EQ 'CPLX_109x')BaseValue = 155535.69525321750.
IF(SUBCODE EQ 'CPLX_11')BaseValue = 449464.29255736330.
IF(SUBCODE EQ 'CPLX_111')BaseValue = 152265.34952701030.
IF(SUBCODE EQ 'CPLX_113x')BaseValue = 146466.97370755140.
IF(SUBCODE EQ 'CPLX_114')BaseValue = 131992.64212486800.
IF(SUBCODE EQ 'CPLX_115')BaseValue = 136082.59793393970.
IF(SUBCODE EQ 'CPLX_116')BaseValue = 136490.55889904470.
IF(SUBCODE EQ 'CPLX_117x')BaseValue = 135430.70269710440.
IF(SUBCODE EQ 'CPLX_119')BaseValue = 313183.42270114090.
IF(SUBCODE EQ 'CPLX_12')BaseValue = 420257.57764009680.
IF(SUBCODE EQ 'CPLX_120')BaseValue = 285817.11354786290.
IF(SUBCODE EQ 'CPLX_121')BaseValue = 293381.90474185130.
IF(SUBCODE EQ 'CPLX_122')BaseValue = 229737.55934957870.
IF(SUBCODE EQ 'CPLX_123')BaseValue = 129127.13504198380.
IF(SUBCODE EQ 'CPLX_124x')BaseValue = 173075.13754980880.
IF(SUBCODE EQ 'CPLX_125')BaseValue = 151067.88340734030.
IF(SUBCODE EQ 'CPLX_126')BaseValue = 148036.51606773540.
IF(SUBCODE EQ 'CPLX_127')BaseValue = 218561.90710584800.
IF(SUBCODE EQ 'CPLX_128x')BaseValue = 204412.84952412910.
IF(SUBCODE EQ 'CPLX_129')BaseValue = 169800.73497330750.
IF(SUBCODE EQ 'CPLX_13')BaseValue = 438043.25076261850.
IF(SUBCODE EQ 'CPLX_132')BaseValue = 97137.18985187750.
IF(SUBCODE EQ 'CPLX_133')BaseValue = 94321.28524260286.
IF(SUBCODE EQ 'CPLX_134')BaseValue = 235999.12403667710.
IF(SUBCODE EQ 'CPLX_135')BaseValue = 149166.21068926090.
IF(SUBCODE EQ 'CPLX_136')BaseValue = 130997.45758868670.
IF(SUBCODE EQ 'CPLX_137')BaseValue = 334956.76980981070.
IF(SUBCODE EQ 'CPLX_138')BaseValue = 401890.39205168950.
IF(SUBCODE EQ 'CPLX_139')BaseValue = 405117.03821886050.
IF(SUBCODE EQ 'CPLX_14')BaseValue = 421537.45356036560.
IF(SUBCODE EQ 'CPLX_140')BaseValue = 430379.63050661260.
IF(SUBCODE EQ 'CPLX_141')BaseValue = 378456.16351540720.
IF(SUBCODE EQ 'CPLX_142')BaseValue = 355524.43779411280.
IF(SUBCODE EQ 'CPLX_143')BaseValue = 288193.94493314530.
IF(SUBCODE EQ 'CPLX_144')BaseValue = 324923.75018995670.
IF(SUBCODE EQ 'CPLX_145')BaseValue = 163396.29403157620.
IF(SUBCODE EQ 'CPLX_146')BaseValue = 173605.63613732040.
IF(SUBCODE EQ 'CPLX_147')BaseValue = 161010.18638294680.
IF(SUBCODE EQ 'CPLX_148')BaseValue = 155310.34386194930.
IF(SUBCODE EQ 'CPLX_149')BaseValue = 104820.94522488390.
IF(SUBCODE EQ 'CPLX_15')BaseValue = 401185.15676557320.
IF(SUBCODE EQ 'CPLX_150')BaseValue = 147231.25792667890.
IF(SUBCODE EQ 'CPLX_151')BaseValue = 101474.99312175390.
IF(SUBCODE EQ 'CPLX_152')BaseValue = 102342.86378541000.
IF(SUBCODE EQ 'CPLX_154')BaseValue = 165518.09752930700.
IF(SUBCODE EQ 'CPLX_155')BaseValue = 194681.53669643490.
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IF(SUBCODE EQ 'CPLX_156')BaseValue = 148747.87060020020.  
IF(SUBCODE EQ 'CPLX_157')BaseValue = 167709.21601663200.  
IF(SUBCODE EQ 'CPLX_158')BaseValue = 123441.49949585440.  
IF(SUBCODE EQ 'CPLX_159x')BaseValue = 163321.15835445700.  
IF(SUBCODE EQ 'CPLX_16')BaseValue = 201135.19068004710.  
IF(SUBCODE EQ 'CPLX_161')BaseValue = 184828.33554756400.  
IF(SUBCODE EQ 'CPLX_163x')BaseValue = 126903.11834262530.  
IF(SUBCODE EQ 'CPLX_164')BaseValue = 206456.66504833670.  
IF(SUBCODE EQ 'CPLX_165')BaseValue = 126701.23491125940.  
IF(SUBCODE EQ 'CPLX_166x')BaseValue = 274616.40412957770.  
IF(SUBCODE EQ 'CPLX_168')BaseValue = 182611.19953211340.  
IF(SUBCODE EQ 'CPLX_169x')BaseValue = 136736.68980033910.  
IF(SUBCODE EQ 'CPLX_17')BaseValue = 306662.04161528870.  
IF(SUBCODE EQ 'CPLX_170')BaseValue = 412987.65834237650.  
IF(SUBCODE EQ 'CPLX_171')BaseValue = 124798.17953522800.  
IF(SUBCODE EQ 'CPLX_172')BaseValue = 420462.21336828740.  
IF(SUBCODE EQ 'CPLX_173')BaseValue = 443055.54427266910.  
IF(SUBCODE EQ 'CPLX_174x')BaseValue = 197943.74089622260.  
IF(SUBCODE EQ 'CPLX_177')BaseValue = 366544.10785298170.  
IF(SUBCODE EQ 'CPLX_179x')BaseValue = 260520.31714955200.  
IF(SUBCODE EQ 'CPLX_18')BaseValue = 336865.14896803730.  
IF(SUBCODE EQ 'CPLX_181')BaseValue = 247766.21067043810.  
IF(SUBCODE EQ 'CPLX_182')BaseValue = 217666.73952825420.  
IF(SUBCODE EQ 'CPLX_183x')BaseValue = 233516.04709793300.  
IF(SUBCODE EQ 'CPLX_185x')BaseValue = 253532.38541882640.  
IF(SUBCODE EQ 'CPLX_19')BaseValue = 388316.30541601640.  
IF(SUBCODE EQ 'CPLX_190x')BaseValue = 203437.12045961080.  
IF(SUBCODE EQ 'CPLX_192')BaseValue = 210327.43078937280.  
IF(SUBCODE EQ 'CPLX_193')BaseValue = 230645.11244875150.  
IF(SUBCODE EQ 'CPLX_194')BaseValue = 359484.71481185010.  
IF(SUBCODE EQ 'CPLX_195')BaseValue = 300387.68200766810.  
IF(SUBCODE EQ 'CPLX_196x')BaseValue = 173988.21778586750.  
IF(SUBCODE EQ 'CPLX_2')BaseValue = 220950.17462221030.  
IF(SUBCODE EQ 'CPLX_202')BaseValue = 640194.38962054470.  
IF(SUBCODE EQ 'CPLX_203')BaseValue = 131065.81644328770.  
IF(SUBCODE EQ 'CPLX_204')BaseValue = 203994.60105700030.  
IF(SUBCODE EQ 'CPLX_205')BaseValue = 217207.06089829120.  
IF(SUBCODE EQ 'CPLX_20x')BaseValue = 408034.26083753520.  
IF(SUBCODE EQ 'CPLX_22')BaseValue = 404493.67318777470.  
IF(SUBCODE EQ 'CPLX_24')BaseValue = 252891.05446637180.  
IF(SUBCODE EQ 'CPLX_25')BaseValue = 325506.73177165460.  
IF(SUBCODE EQ 'CPLX_26')BaseValue = 303925.33240631250.  
IF(SUBCODE EQ 'CPLX_27')BaseValue = 260453.61524696710.  
IF(SUBCODE EQ 'CPLX_28')BaseValue = 267397.08110150130.  
IF(SUBCODE EQ 'CPLX_29')BaseValue = 311633.81850371860.  
IF(SUBCODE EQ 'CPLX_3')BaseValue = 587727.01806070820.  
IF(SUBCODE EQ 'CPLX_30')BaseValue = 120500.84510343700.  
IF(SUBCODE EQ 'CPLX_31')BaseValue = 84226.68732846098.  
IF(SUBCODE EQ 'CPLX_32')BaseValue = 125786.82344461800.  
IF(SUBCODE EQ 'CPLX_33')BaseValue = 168379.31396840110.  
IF(SUBCODE EQ 'CPLX_35')BaseValue = 181678.74077268740.  
IF(SUBCODE EQ 'CPLX_36')BaseValue = 404187.22741529890.  
IF(SUBCODE EQ 'CPLX_37')BaseValue = 154897.22645612320.  
IF(SUBCODE EQ 'CPLX_38')BaseValue = 225971.70127248880.  
IF(SUBCODE EQ 'CPLX_39')BaseValue = 431895.29436717070.  
IF(SUBCODE EQ 'CPLX_4')BaseValue = 281729.24902674260.  
IF(SUBCODE EQ 'CPLX_40')BaseValue = 365983.01805241450.  
IF(SUBCODE EQ 'CPLX_41')BaseValue = 199664.83573152960.  
IF(SUBCODE EQ 'CPLX_42x')BaseValue = 234883.44045768430.  
IF(SUBCODE EQ 'CPLX_46')BaseValue = 232833.47663746390.  
IF(SUBCODE EQ 'CPLX_47')BaseValue = 220873.82104725210.  
IF(SUBCODE EQ 'CPLX_48')BaseValue = 216359.73879814110.  
IF(SUBCODE EQ 'CPLX_49')BaseValue = 201901.29728337130.
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IF(SUBCODE EQ 'CPLX_5')BaseValue = 294854.44909713410.
IF(SUBCODE EQ 'CPLX_50')BaseValue = 226925.51071927530.
IF(SUBCODE EQ 'CPLX_52')BaseValue = 453192.65725308610.
IF(SUBCODE EQ 'CPLX_54')BaseValue = 301388.83216835760.
IF(SUBCODE EQ 'CPLX_55')BaseValue = 317745.86403139700.
IF(SUBCODE EQ 'CPLX_56')BaseValue = 141295.54221952100.
IF(SUBCODE EQ 'CPLX_57')BaseValue = 305330.01872561140.
IF(SUBCODE EQ 'CPLX_58')BaseValue = 235431.80845892470.
IF(SUBCODE EQ 'CPLX_59')BaseValue = 248406.14162574110.
IF(SUBCODE EQ 'CPLX_6')BaseValue = 364587.91022891170.
IF(SUBCODE EQ 'CPLX_60')BaseValue = 238536.85292591040.
IF(SUBCODE EQ 'CPLX_61x')BaseValue = 298236.53777170680.
IF(SUBCODE EQ 'CPLX_65')BaseValue = 343242.85351837470.
IF(SUBCODE EQ 'CPLX_66')BaseValue = 149500.17051551130.
IF(SUBCODE EQ 'CPLX_67')BaseValue = 239801.73996081160.
IF(SUBCODE EQ 'CPLX_68')BaseValue = 595742.88601546580.
IF(SUBCODE EQ 'CPLX_69')BaseValue = 215311.91790432620.
IF(SUBCODE EQ 'CPLX_7')BaseValue = 415904.51583833730.
IF(SUBCODE EQ 'CPLX_70')BaseValue = 1026717.24769267100.
IF(SUBCODE EQ 'CPLX_71')BaseValue = 340243.36352213670.
IF(SUBCODE EQ 'CPLX_72')BaseValue = 315308.57297136540.
IF(SUBCODE EQ 'CPLX_73')BaseValue = 442389.78733409560.
IF(SUBCODE EQ 'CPLX_74')BaseValue = 405046.42711320650.
IF(SUBCODE EQ 'CPLX_76')BaseValue = 98669.92823145464.
IF(SUBCODE EQ 'CPLX_78')BaseValue = 284521.44396326030.
IF(SUBCODE EQ 'CPLX_8')BaseValue = 485658.08517066530.
IF(SUBCODE EQ 'CPLX_80')BaseValue = 231768.64503046700.
IF(SUBCODE EQ 'CPLX_81')BaseValue = 300869.72729578630.
IF(SUBCODE EQ 'CPLX_83')BaseValue = 290886.19715334650.
IF(SUBCODE EQ 'CPLX_84')BaseValue = 822640.44692296450.
IF(SUBCODE EQ 'CPLX_85')BaseValue = 253294.95496333380.
IF(SUBCODE EQ 'CPLX_86')BaseValue = 567491.37721225660.
IF(SUBCODE EQ 'CPLX_87')BaseValue = 365381.85205669560.
IF(SUBCODE EQ 'CPLX_88')BaseValue = 547620.97120832540.
* IF(SUBCODE EQ 'CPLX_89')BaseValue = 1101105.32546543900.
IF(SUBCODE EQ 'CPLX_9')BaseValue = 489741.22785841860.
IF(SUBCODE EQ 'CPLX_91')BaseValue = 546114.66078542390.
IF(SUBCODE EQ 'CPLX_92')BaseValue = 155127.07531773090.
IF(SUBCODE EQ 'CPLX_93x')BaseValue = 716982.52917731290.
IF(SUBCODE EQ 'CPLX_94')BaseValue = 175904.59944804910.
IF(SUBCODE EQ 'CPLX_95')BaseValue = 254152.63302863420.
IF(SUBCODE EQ 'CPLX_96')BaseValue = 125961.73875754310.
IF(SUBCODE EQ 'CPLX_966')BaseValue = 184871.38541486030.
IF(SUBCODE EQ 'CPLX_97')BaseValue = 848053.13986001250.
IF(SUBCODE EQ 'CPLX_98x')BaseValue = 219735.88828813740.
IF(SUBCODE EQ 'CPLX_89')BaseValue = 750000.

COMPUTE LandSqftMedian = 0.
IF(SUBCODE EQ 'CPLX_101')LandSqftMedian = 5445.0.
IF(SUBCODE EQ 'CPLX_102')LandSqftMedian = 24660.0.
IF(SUBCODE EQ 'CPLX_146')LandSqftMedian = 1.0.
IF(SUBCODE EQ 'CPLX_147')LandSqftMedian = 1.0.
IF(SUBCODE EQ 'CPLX_166x')LandSqftMedian = 1775.0.
IF(SUBCODE EQ 'CPLX_168')LandSqftMedian = 1396.0.
IF(SUBCODE EQ 'CPLX_195')LandSqftMedian = 990.0.
IF(SUBCODE EQ 'CPLX_202')LandSqftMedian = 4670.0.
IF(SUBCODE EQ 'CPLX_203')LandSqftMedian = 882.0.
IF(SUBCODE EQ 'CPLX_204')LandSqftMedian = 731.0.
IF(SUBCODE EQ 'CPLX_205')LandSqftMedian = 1637.0.
IF(SUBCODE EQ 'CPLX_35')LandSqftMedian = 916.0.
IF(SUBCODE EQ 'CPLX_36')LandSqftMedian = 7000.0.
IF(SUBCODE EQ 'CPLX_37')LandSqftMedian = 1903.0.
IF(SUBCODE EQ 'CPLX_52')LandSqftMedian = 5875.0.

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IF(SUBCODE EQ 'CPLX_56')LandSqftMedian = 988.0.
IF(SUBCODE EQ 'CPLX_66')LandSqftMedian = 1010.0.
IF(SUBCODE EQ 'CPLX_67')LandSqftMedian = 937.0.
IF(SUBCODE EQ 'CPLX_68')LandSqftMedian = 6103.0.
IF(SUBCODE EQ 'CPLX_69')LandSqftMedian = 1519.0.
IF(SUBCODE EQ 'CPLX_70')LandSqftMedian = 16893.0.
IF(SUBCODE EQ 'CPLX_71')LandSqftMedian = 1199.0.
IF(SUBCODE EQ 'CPLX_72')LandSqftMedian = 1294.0.
IF(SUBCODE EQ 'CPLX_73')LandSqftMedian = 4500.0.
IF(SUBCODE EQ 'CPLX_74')LandSqftMedian = 2786.0.
IF(SUBCODE EQ 'CPLX_78')LandSqftMedian = 1742.0.
IF(SUBCODE EQ 'CPLX_80')LandSqftMedian = 3141.0.
IF(SUBCODE EQ 'CPLX_81')LandSqftMedian = 1026.0.
IF(SUBCODE EQ 'CPLX_83')LandSqftMedian = 2400.0.
IF(SUBCODE EQ 'CPLX_84')LandSqftMedian = 10400.0.
IF(SUBCODE EQ 'CPLX_85')LandSqftMedian = 2105.0.
IF(SUBCODE EQ 'CPLX_86')LandSqftMedian = 10012.0.
IF(SUBCODE EQ 'CPLX_87')LandSqftMedian = 8232.0.
IF(SUBCODE EQ 'CPLX_88')LandSqftMedian = 26463.0.
IF(SUBCODE EQ 'CPLX_89')LandSqftMedian = 32234.0.
IF(SUBCODE EQ 'CPLX_91')LandSqftMedian = 28408.0.
IF(SUBCODE EQ 'CPLX_92')LandSqftMedian = 1485.0.
IF(SUBCODE EQ 'CPLX_93x')LandSqftMedian = 25539.0.
IF(SUBCODE EQ 'CPLX_94')LandSqftMedian = 1323.0.
IF(SUBCODE EQ 'CPLX_95')LandSqftMedian = 920.0.
IF(SUBCODE EQ 'CPLX_96')LandSqftMedian = 7986.0.
IF(SUBCODE EQ 'CPLX_966')LandSqftMedian = 706.0.
IF(SUBCODE EQ 'CPLX_97')LandSqftMedian = 2583.0.

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FORMATS BaseValue LandSqftMedian (comma10).
DO IF(LandSqftMedian GT 0).
  COMPUTE Base50Rate = BaseValue / LandSqftMedian**.50.
END IF.

IF(SUBCODE EQ 'CPLX_202' AND SUM_Acres GE 1)Base50Rate = 3000.
IF(SUBCODE EQ 'CPLX_80' AND SUM_Acres GE .20)Base50Rate = 1500.
IF(SUBCODE EQ 'CPLX_94' AND SUM_Acres GE .20)Base50Rate = 1500.
IF(SUBCODE EQ 'CPLX_101' AND SUM_Acres GE 1)Base50Rate = 1000.
IF(SUBCODE EQ 'CPLX_67' AND SUM_Acres GE .10)Base50Rate = 6500.

COMPUTE UnderwaterValue = 0.
IF(UNDERWATER_SF GT 0)UnderwaterValue = TRUNC(((UNDERWATER_SF**.50 * Base50Rate) *
.20) / 100) * 100.

DO IF(LandIssueSF_Sum GT 0).
  COMPUTE IssueWgt = (LandIssuePCTx * LandIssueSF) / (LandIssuePCT_ECONX *
  LandIssueSF_Sum).
END IF.
DESCRIPTIVES IssueWgt.

IF(LandIssueSF_Sum LT 1000 AND LandIssuePCT_ECONX GT .10)LandIssuePCT_ECONX = .10.
COMPUTE LandIssueValue_ECON = 0.
IF(LandIssueSF_Sum GT 0)LandIssuevalue_ECON = (LandIssueSF_Sum**.50 * Base50Rate) *
  LandIssuePCT_ECONX.
EXECUTE.

COMPUTE LandIssueValue = TRUNC((LandIssuevalue_ECON * IssueWgt) / 100) * 100.
FORMATS UnderwaterValue LandIssuevalue LandIssuevalue_ECON (COMMA10.0).
EXECUTE.

IF(SUMLANDX GT 0)Allocated50Landvalue_ECON = TRUNC(SUMLANDX**.50 * Base50Rate *
  SITEADJ).
IF(SUMLANDX GT 0 AND Discount EQ 1)Allocated50Landvalue_ECON = TRUNC(SUMLANDX**.50 * 
```

```

Market 7 2021 Prediction Prognose.sps
(Base50Rate * .20) * SITEADJ).
RECODE Allocated50LandValue_ECON (SYSMIS = 0).
FORMATS Allocated50LandValue_ECON (COMMA10.0).
EXECUTE.

DO IF(SUMLANDX GT 0).
  COMPUTE PCT_LAND = RND(LANDSQFTX / SUMLANDX * 100) / 100.
END IF.
IF(PARCEL_TYPE EQ 'S')PCT_LAND = 1.
IF(SUMLANDX EQ 0)PCT_LAND = 1.
IF(LANDSQFTX NE SUMLANDX AND PCT_LAND LT .005 AND LANDSQFTX GT 100)PCT_LAND = .005.
FORMATS PCT_LAND (F5.3).

COMPUTE TMPLAND = (Allocated50LandValue_ECON * PCT_LAND) .
IF(TMPLAND GE 100000)ESP_LAND = TRUNC(TMPLAND / 1000) * 1000.
IF(TMPLAND LT 100000)ESP_LAND = TRUNC(TMPLAND / 100) * 100.
* IF(ESP_LAND LT 1000)ESP_LAND = 1000.

COMPUTE TOTAL_LAND_ECON = Allocated50LandValue_ECON + LandIssuevalue_ECON.

COMPUTE LAND_TOTAL = ESP_LAND + Underwatervalue + LandIssuevalue.
IF(LAND_TOTAL LT 500)LAND_TOTAL = 500.
FORMATS ESP_LAND UnderWaterValue LandIssueValue LAND_TOTAL TOTAL_LAND_ECON
(COMMA10.0).

DESCRIPTIVES TMPLAND ESP_LAND UnderwaterValue LandIssueValue LAND_TOTAL
TOTAL_LAND_ECON.

*****
*      +          .620587623205818 /* CPLX_177. /* COMPLEX HAS OCEAN FRONTAGE
AND VIEWS WHICH WERE NOT ORIGINALLY ACCOUNTED FOR.

* THESE WERE ADDED AFTER THE MODEL
CPLX_9_120
CPLX_9_124
CPLX_9_149.

* BASED ON MARKET REVIEW - WILL REDUCE MODEL BY 6%.
* ORIGINAL CONSTANT = 12.935444003477450.

COMPUTE ESP_ECON = EXP(12.91
+          .006604116586310 * LN_LANDSQFT
+          .449103997433978 * LN_SQFTXRATIO1
+          .562676220939387 * LN_SQFTXRATIO2
+          -.109082186232045 * LN_UPPERSF_RATIO
+          .095373124719119 * LN_LIN_BSMTX_Ratio
+          .071270097469529 * LN_RECBSMTX_RATIO
+          .474299417766653 * LN_PCT_GOOD
+          .059176754948208 * LN_LIN_GARx_RATIO
+          .035874665527639 * LN_TerraceX_RATIO
+          .035145495180174 * LN_PatioX_RATIO
+          .048792406338300 * LN_LINPORCH_RATIO
+          .030186017599855 * LN_WoodDeckX_RATIO
+          .062764600527823 * LN_CanopyX_RATIO
+          .049933790558244 * LN_PoolX_RATIO
+          .153013741937114 * LNFIXTOT
+          .013246305292638 * LNFireplacedx
+          .175149424960963 * LinQualBMinusUp
+          .040211587281437 * CondoTypeGardenCorner
+          -.142636693242661 * CondoViewDetrimental
+          -.060071750232371 * LOC_LongIslandRailRoadX

```

Market 7 2021 Prediction Prognose.sps  
 + .204078861552487 \* LOC\_GolfCourse  
 + .177800383545406 \* Water\_CanalLake  
 + .535466219458567 \* Water\_BayOceanSound  
 + -.3011050927839 \* Water\_BayOceanSound67  
 + -.0.27 \* Water\_BayOceanSound177\_1  
 + -.0.06 \* Water\_BayOceanSound177\_2  
 + .127928157500187 \* Water\_WaterView  
 + .114039733704965 \* CPLX\_11\_EQ2395  
 + -.109947748194923 \* CPLX\_11\_EQ3147  
 + -.082666575301221 \* CPLX\_15\_EQ1238  
 + -.176617330357271 \* CPLX\_15\_EQ1329  
 + -.116301681034141 \* CPLX\_24\_EQ1276  
 + -.056675187622204 \* CPLX\_24\_EQ2192  
 + -.127332897804801 \* CPLX\_28\_EQ2422  
 + -.190486820069285 \* CPLX\_31\_EQ668  
 + .124223656326215 \* CPLX\_40\_EQ2900  
 + .165117238388543 \* CPLX\_41\_EQ1379  
 + -.126818041539084 \* CPLX\_41\_EQ1386  
 + .130386016070441 \* CPLX\_47\_EQ1486  
 + .120881563240581 \* CPLX\_47\_EQ1956  
 + -.091211933363061 \* CPLX\_49\_EQ1484  
 + .116123251930597 \* CPLX\_54\_EQ1927  
 + .115034805690166 \* CPLX\_55\_EQ1927  
 + .208381420198540 \* CPLX\_60\_EQ1886  
 + .103514916158433 \* CPLX\_61x\_EQ1845  
 + -.184025625764538 \* CPLX\_74\_EQ2063  
 + -.083125515365659 \* CPLX\_74\_EQ2762  
 + .090961900610819 \* CPLX\_76\_EQ900  
 + -.051945397141213 \* CPLX\_92\_EQ1578\_1736  
 + .088220708594998 \* CPLX\_114\_EQ1480  
 + .145932799913175 \* CPLX\_115\_EQ1480  
 + .195308409505121 \* CPLX\_116\_EQ1480  
 + -.205254429014656 \* CPLX\_123\_EQ1106  
 + -.027650948273147 \* CPLX\_125\_EQ1296  
 + .169772689952766 \* CPLX\_106\_EQ2117  
 + -.122657584274663 \* CPLX\_134\_EQ1568  
 + -.129178345047473 \* CPLX\_137\_EQ1319  
 + -.053351579798638 \* CPLX\_137\_EQ1328  
 + .064907406755623 \* CPLX\_137\_EQ1888  
 + -.228880031063892 \* CPLX\_138\_EQ1319  
 + -.203655231638734 \* CPLX\_139\_EQ1319  
 + -.080173659191091 \* CPLX\_139\_EQ1328  
 + -.167433851102447 \* CPLX\_139\_EQ1562  
 + -.080002683992295 \* CPLX\_139\_EQ2302  
 + -.247801971478932 \* CPLX\_140\_EQ1349  
 + -.119723714556950 \* CPLX\_141\_EQ1349  
 + .118856541352982 \* CPLX\_143\_EQ2036  
 + -.146864673034790 \* CPLX\_144\_EQ1562  
 + -.332258185335198 \* CPLX\_144\_EQ2302  
 + .339979142330903 \* CPLX\_154\_EQ1030  
 + .061627051299489 \* CPLX\_154\_EQ1358  
 + -.188531710947492 \* CPLX\_155\_EQ1358  
 + -.158030971104429 \* CPLX\_157\_EQ1466  
 + -.160824387964326 \* CPLX\_159x\_EQ1062  
 + .152638672213849 \* CPLX\_161\_EQ1312  
 + -.076500098809442 \* CPLX\_161\_EQ1353  
 + .072370250005263 \* CPLX\_161\_EQ1752  
 + -.149103168633503 \* CPLX\_173\_EQ3150  
 + .273807639988745 \* CPLX\_181\_EQ1330  
 + .338123086941807 \* CPLX\_185x\_EQ1380  
 + .106839978189702 \* CPLX\_196x\_EQ1090  
 + .097269568920758 \* CPLX\_196x\_EQ1110  
 + -.049232693453941 \* CPLX\_205\_EQ2080

Market 7 2021 Prediction Prognose.sps

+ .396331925712268 \* CPLX\_1  
+ .222967331051672 \* CPLX\_2  
+ .634907933826203 \* CPLX\_3  
+ .387416397328510 \* CPLX\_4  
+ .331698837869880 \* CPLX\_5  
+ .288715200527295 \* CPLX\_6  
+ .366206947570798 \* CPLX\_7  
+ .299368652458067 \* CPLX\_8  
+ .313986962467921 \* CPLX\_9  
+ .151638623619061 \* CPLX\_11  
+ .216319039580530 \* CPLX\_12  
+ .051927809933625 \* CPLX\_13  
+ .543821308004350 \* CPLX\_14  
+ .467627684070016 \* CPLX\_15  
+ .073296039023326 \* CPLX\_16  
+ .224955363003845 \* CPLX\_17  
- .181082228096318 \* CPLX\_18  
+ .108454805531674 \* CPLX\_19  
+ .049643293482283 \* CPLX\_20x  
+ .112119559288380 \* CPLX\_22  
+ .144326962096386 \* CPLX\_24  
+ .188587387929086 \* CPLX\_25  
+ .035903839844978 \* CPLX\_26  
+ .156884380637767 \* CPLX\_27  
+ .183194344528772 \* CPLX\_28  
+ .060084480607804 \* CPLX\_29  
+ .279942232589890 \* CPLX\_30  
+ .518510666998532 \* CPLX\_31  
+ .072386769649046 \* CPLX\_33  
+ .119002152445818 \* CPLX\_35  
+ .080428977310231 \* CPLX\_36  
- .227929455594920 \* CPLX\_37  
+ .363054375685626 \* CPLX\_39  
- .097897952217529 \* CPLX\_42x  
+ .065923921121913 \* CPLX\_46  
- .090856610024351 \* CPLX\_47  
+ .126327650066814 \* CPLX\_48  
- .100100393254062 \* CPLX\_49  
- .110531402053461 \* CPLX\_50  
+ .111104797097382 \* CPLX\_52  
+ .102518407659157 \* CPLX\_54  
- .056814269474814 \* CPLX\_55  
- .256195585415441 \* CPLX\_56  
- .098388552730427 \* CPLX\_58  
+ .044823776084766 \* CPLX\_59  
- .123506093231439 \* CPLX\_60  
+ .159328845070712 \* CPLX\_65  
+ .246446675077817 \* CPLX\_67  
+ .507080868350096 \* CPLX\_68  
- .043311607975578 \* CPLX\_69  
+ .711049879384771 \* CPLX\_70  
+ .436923887558093 \* CPLX\_71  
+ .333184564471171 \* CPLX\_72  
+ .283207180453438 \* CPLX\_73  
+ .384413546908823 \* CPLX\_74  
- .404321178924251 \* CPLX\_76  
+ .219316344424431 \* CPLX\_78  
+ .277248540669005 \* CPLX\_81  
+ .103399331569322 \* CPLX\_83  
+ .437803863296945 \* CPLX\_84  
+ .196116527420560 \* CPLX\_85  
+ .294616938629503 \* CPLX\_86  
+ .151968496810149 \* CPLX\_88

Market 7 2021 Prediction Prognose.sps

+ .550484078150500 \* CPLX\_89  
+ -.068024752974623 \* CPLX\_92  
+ .297938440088117 \* CPLX\_93x  
+ .179953761405964 \* CPLX\_91  
+ -.156053646300786 \* CPLX\_94  
+ .290126819194036 \* CPLX\_95  
+ -.206707653410477 \* CPLX\_96  
+ .649994009823676 \* CPLX\_97  
+ .193817914379177 \* CPLX\_102  
+ -.137275750824785 \* CPLX\_103  
+ -.434934270240070 \* CPLX\_105x  
+ .258118384427568 \* CPLX\_106  
+ -.092037329189703 \* CPLX\_109x  
+ -.107262705233724 \* CPLX\_114  
+ -.081611497715153 \* CPLX\_115  
+ -.078618090187629 \* CPLX\_116  
+ -.056985431916322 \* CPLX\_117x  
+ .283771560121203 \* CPLX\_119  
+ .278710924036225 \* CPLX\_120  
+ .252861406045671 \* CPLX\_121  
+ .116549917671925 \* CPLX\_122  
+ -.068756676116461 \* CPLX\_124x  
+ -.317436110366037 \* CPLX\_126  
+ .172548077548194 \* CPLX\_127  
+ -.215248661754505 \* CPLX\_132  
+ -.236097490984427 \* CPLX\_133  
+ .092142883162825 \* CPLX\_134  
+ -.040964254332074 \* CPLX\_135  
+ -.191147664030216 \* CPLX\_136  
+ .304882780419353 \* CPLX\_137  
+ .364785483294803 \* CPLX\_138  
+ .372782097056551 \* CPLX\_139  
+ .433273769278966 \* CPLX\_140  
+ .330245569028320 \* CPLX\_141  
+ .330576300776534 \* CPLX\_142  
+ .150042728916313 \* CPLX\_143  
+ .274471842268448 \* CPLX\_144  
+ .037552966839788 \* CPLX\_146  
+ .089038104052752 \* CPLX\_147  
+ -.137760062870827 \* CPLX\_149  
+ -.038740715855475 \* CPLX\_150  
+ -.171400093519100 \* CPLX\_151  
+ -.559548405289956 \* CPLX\_152  
+ -.058789459753922 \* CPLX\_154  
+ .200420511573344 \* CPLX\_155  
+ .060397455056139 \* CPLX\_156  
+ -.059783022150140 \* CPLX\_159x  
+ -.114986452386300 \* CPLX\_161  
+ -.137478395091905 \* CPLX\_163x  
+ -.081604156000058 \* CPLX\_164  
+ -.216516164181850 \* CPLX\_165  
+ -.299408508440078 \* CPLX\_166x  
+ .129212862357397 \* CPLX\_168  
+ .055615419610956 \* CPLX\_169x  
+ .468631453348001 \* CPLX\_170  
+ -.207523761770324 \* CPLX\_171  
+ .383513187858908 \* CPLX\_172  
+ .421658900378779 \* CPLX\_173  
+ .147083281205261 \* CPLX\_174x  
+ .186329578191493 \* CPLX\_177  
+ .233968816014154 \* CPLX\_179x  
+ -.153491994393071 \* CPLX\_181  
+ .118419657089775 \* CPLX\_182

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Market 7 2021 Prediction Prognose.sps
+
+.167774218546971 * CPLX_190x
+
+.233991787996274 * CPLX_192
+
+.327820274245138 * CPLX_193
+
+.300325391682940 * CPLX_194
+
+.180774191619376 * CPLX_195
+
+.075205601108220 * CPLX_196x
+
+.457960480418048 * CPLX_202
+
-.180990989357086 * CPLX_203
+
+.208189918672303 * CPLX_204
+
+.129335685838049 * CPLX_205
+
+.21 * CPLX_966
+
-0.531 * CPLX_9_120
+
-0.157 * CPLX_9_124
+
0.23 * CPLX_9_149
+
-.05 * QualEMinusQualC
+
1 * COST_RCNLDx.

FORMATS ESP_ECON (COMMA10.0).

DO IF(PARCEL_TYPE EQ 'S').
COMPUTE RATIO = ESP_ECON / ADJPRICE.
COMPUTE RATIO2 = ESP_ECON / SOLDPRICE.
END IF.
EXECUTE.

INSERT FILE = !PredSyntax + 'Prognose\Market 7 2021 Coefficients.sps'
SYNTAX = INTERACTIVE
ERROR = STOP.

COMPUTE DIFF = ESP2 / ESP_ECON.
DESCRIPTIVES DIFF.

COMPUTE DIFF = ESP2 / ESP3.
DESCRIPTIVES DIFF.

IF(PCTCOMPLETE GT 0)CompletePercent = PCTCOMPLETE / 100.
RECODE CompletePercent (SYSMIS = 1).

DO IF(ESP_ECON GT 0).
COMPUTE Allocated50ImpValue_ECON = TRUNC(ESP_ECON - TOTAL_LAND_ECON).
* IF(Allocated50LandValue_ECON EQ 0)Allocated50ImpValue_ECON = TRUNC(ESP_ECON -
LandIssueValue_ECON).
END IF.
RECODE Allocated50ImpValue_ECON (SYSMIS = 0).

STRING CostValue (A3).
COMPUTE CostValue = 'No'.
IF(Allocated50ImpValue_ECON LE 0)CostValue = 'Yes'.
IF(SUBCODE EQ 'CPLX_202' AND SUM_Acres GE 1)CostValue = 'Yes'.

COMPUTE IMP_COST_VALUE = TRUNC((RCNLD_P + ExtraImpsCost_P + COST_RCNLDx_P) / 1000)
* 1000.
FORMATS IMP_COST_VALUE (COMMA10.0).

DO IF(SFLA_ECON GT 0).
COMPUTE PCT_IMP = RND(SFLA / SFLA_ECON * 100) / 100.
END IF.
IF(PARCEL_TYPE EQ 'S')PCT_IMP = 1.
RECODE PCT_IMP (SYSMIS = 0).

COMPUTE ESP_IMP = TRUNC(Allocated50ImpValue_ECON * PCT_IMP * CompletePercent / 1000)
* 1000.
IF(Allocated50ImpValue_ECON LE 0 AND IMP_COST_VALUE GT 0)ESP_IMP = IMP_COST_VALUE *
PCT_IMP * CompletePercent.

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Market 7 2021 Prediction Prognose.sps
IF(SUBCODE EQ 'CPLX_202' AND SUM_Acres GE 1)ESP_IMP = IMP_COST_VALUE * PCT_IMP *
CompletePercent.
COMPUTE ESP_TOTAL = LAND_TOTAL + ESP_IMP.
FORMATS LAND_TOTAL ESP_LAND ESP_IMP ESP_TOTAL (COMMA10.0).

STRING QUAL_Text (A2).
RECODE QUAL (1 = 'E-')(2 = 'E')(3 = 'E+')(4 = 'D-')(5 = 'D')(6 = 'D+')(7 = 'C-')(8 =
'C')(9 = 'C+')
      (10 = 'B-')(11 = 'B')(12 = 'B+')(13 = 'A-')(14 = 'A')(15 = 'A+')(16 = 'X-')(17 =
'X')(18 = 'X+')
      (19 = 'S-')(20 = 'S')(21 = 'S+')(22 = 'Z-')(23 = 'Z')(24 = 'Z+') INTO
QUAL_Text.

STRING CDU_Text (A10).
RECODE CDU (1 = 'Unsound')(2 = 'Very Poor')(3 = 'Poor')(4 = 'Fair')(5 = 'Average')
(6 = 'Good')(7 = 'Very Good')(8 = 'Excellent') INTO CDU_Text.

STRING Style_Text (A25).
RECODE Style (1 = 'Ranch')(2 = 'Raised Ranch/Hi Ranch')(3 = 'Split Level')(4 =
'Modified Ranch')(5 = 'Cape')
      (6 = 'Colonial')(7 = 'Victorian')(8 = 'Contemporary')(9 = 'Old Style')(10 =
'Bungalow, Cottage')(11 = 'Duplex, Triplex')
      (12 = 'Mansion, Estate')(13 = 'Townhouse')(14 = 'Condo')(16 = 'Homeowner
Assoc')(17 = 'Other')(18 = 'Splanch')
      (19 = 'Carriage House')(20 = 'Tudor')(22 = '22') INTO Style_Text.

* codebook luc.
string LUC_Text (A20).
IF (ANY(LUC, "2100", "2101", "2102", "2150")) LUC_Text = 'One Family'.
IF (LUC EQ "2200") LUC_Text = 'Two Family'.
IF (LUC EQ "2300") LUC_Text = 'Three Family'.
IF (LUC EQ "2800") LUC_Text = 'Multi Residential'.
IF(LUC_NUM GE 3000 AND LUC_NUM LT 4000) LUC_Text = 'Vacant Land'.
IF (LUC EQ "4830") LUC_Text = 'Converted Residence'.
IF(LUC_NUM GE 6000) LUC_Text = 'Exempt'.
* alter type LUC_Text (amin).

* codebook extwall.
string EXTWALL_Text (A20).
IF (EXTWALL EQ 1) EXTWALL_Text = 'Frame'.
IF (EXTWALL EQ 2) EXTWALL_Text = 'Brick'.
IF (EXTWALL EQ 3) EXTWALL_Text = 'Mas/Frame'.
IF (EXTWALL EQ 4) EXTWALL_Text = 'Conc Blk'.
IF (EXTWALL EQ 5) EXTWALL_Text = 'Stucco'.
IF (EXTWALL EQ 6) EXTWALL_Text = 'Alum/vinyl'.
IF (EXTWALL EQ 7) EXTWALL_Text = 'Stone'.
IF (EXTWALL EQ 8) EXTWALL_Text = 'Composition'.
IF (EXTWALL EQ 9) EXTWALL_Text = 'Masonry'.
IF (EXTWALL EQ 10) EXTWALL_Text = 'Log'.
IF (EXTWALL EQ 11) EXTWALL_Text = 'Cement Fiber'.
* alter type EXTWALL_Text (amin).

* codebook bsmt.
string Basement_Text (a20).
IF (BSMT EQ 0) Basement_Text = 'None'.
IF (BSMT EQ 1) Basement_Text = '1/4 Bsmt/Slab'.
IF (BSMT EQ 2) Basement_Text = '1/2 Bsmt/Crawl'.
IF (BSMT EQ 3) Basement_Text = '3/4 Bsmt'.
IF (BSMT EQ 4) Basement_Text = 'Full'.
* alter type Basement_Text (amin).

* codebook heat.
string Heat_Text (a10).

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Market 7 2021 Prediction Prognose.sps
IF (HEAT EQ 0) Heat_Text = 'N/A';
IF (HEAT EQ 1) Heat_Text = 'None';
IF (HEAT EQ 2) Heat_Text = 'Non-Cntrl';
IF (HEAT EQ 3) Heat_Text = 'Cntrl Ht';
IF (HEAT EQ 4) Heat_Text = 'Cntrl HtAC'.
* alter type Heat_Text (amin).

* codebook fuel.
string Fuel_Text (a15).
IF (FUEL EQ 0) Fuel_Text = 'N/A';
IF (FUEL EQ 1) Fuel_Text = 'Oil';
IF (FUEL EQ 2) Fuel_Text = 'Coal Stk';
IF (FUEL EQ 3) Fuel_Text = 'Gas';
IF (FUEL EQ 4) Fuel_Text = 'Coal Hnd';
IF (FUEL EQ 5) Fuel_Text = 'Solar';
IF (FUEL EQ 6) Fuel_Text = 'Elec';
IF (FUEL EQ 7) Fuel_Text = 'Other';
IF (FUEL EQ 8) Fuel_Text = 'Geothermal'.
* alter type Fuel_Text (amin).

* codebook heatsys.
string Heatsys_Text (a15).
IF (HEATSYS EQ 0) Heatsys_Text = 'N/A';
IF (HEATSYS EQ 1) Heatsys_Text = 'Steam/vapor';
IF (HEATSYS EQ 2) Heatsys_Text = 'Hot Wtr';
IF (HEATSYS EQ 3) Heatsys_Text = 'Elec/Solar';
IF (HEATSYS EQ 4) Heatsys_Text = 'Forced Air';
IF (HEATSYS EQ 5) Heatsys_Text = 'Central AC';
IF (HEATSYS EQ 6) Heatsys_Text = 'N/A';
IF (HEATSYS EQ 7) Heatsys_Text = 'Hot Air';
IF (HEATSYS EQ 8) Heatsys_Text = 'Pipeless';
IF (HEATSYS EQ 9) Heatsys_Text = 'None'.
* alter type Heatsys_Text (amin).
* EXECUTE.

FORMATS AttBltGar DETGARx CARPORTx (COMMA10.0).

STRING Parking_Text (A100).
IF (AttBltGar GT 0)Parking_Text =
CONCAT('Att-', LTRIM(RTRIM(STRING(AttBltGar,F10))))..
IF (DETGARx GT 0)Parking_Text =
CONCAT(LTRIM(RTRIM(Parking_Text)), '/', 'Det-', LTRIM(RTRIM(STRING(DETGARx,F10))))..
IF (CARPORTx GT 0)Parking_Text =
CONCAT(LTRIM(RTRIM(Parking_Text)), '/', 'Cpt-', LTRIM(RTRIM(STRING(CARPORTx,F10))))..
IF (CHAR.SUBSTR(Parking_Text,1,1) EQ '/')Parking_Text = CHAR.SUBSTR(Parking_Text,2).
ALTER TYPE Parking_Text (AMIN).

STRING Porch_Text (A100).
IF (OpenPorchX GT 0)Porch_Text = CONCAT('Op-', LTRIM(RTRIM(STRING(OpenPorchX,F10))))..
IF (EnclPorchX GT 0)Porch_Text =
CONCAT(LTRIM(RTRIM(Porch_Text)), '/', 'Ep-', LTRIM(RTRIM(STRING(EnclPorchX,F10))))..
IF (CHAR.SUBSTR(Porch_Text,1,1) EQ '/')Porch_Text = CHAR.SUBSTR(Porch_Text,2).
ALTER TYPE Parking_Text (AMIN).

STRING TerracePatio_Text (A100).
IF (TerraceX GT 0)TerracePatio_Text =
CONCAT('Ter-', LTRIM(RTRIM(STRING(TerraceX,F10))))..
IF (PatioX GT 0)TerracePatio_Text =
CONCAT(LTRIM(RTRIM(TerracePatio_Text)), '/', 'Pto-', LTRIM(RTRIM(STRING(PatioX,F10))))..
IF (CHAR.SUBSTR(TerracePatio_Text,1,1) EQ '/')TerracePatio_Text =
CHAR.SUBSTR(TerracePatio_Text,2).
ALTER TYPE Parking_Text (AMIN).

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```
Market 7 2021 Prediction Prognose.sps
* STRING ElevatedHome_Text (A3).
* RECODE ElevatedHome (1 = 'Yes')(ELSE = 'No') INTO ElevatedHome_Text.

STRING YRBLT_Text (A12).
COMPUTE YRBLT_Text =
CONCAT(STRING(YRBLT,F4.0),'-',LTRIM(STRING((PCT_GOOD_ADJ*100),F6.2))).
EXECUTE.

STRING BATH_Text (A15).
COMPUTE BATH_Text =
CONCAT(LTRIM(RTRIM(STRING(FIXBATH,F4.0))),'-',LTRIM(RTRIM(STRING(FIXHALF,F4.0))),'-',
,LTRIM(RTRIM(STRING(FIXTOT,F4.0)))).EXECUTE.

* ALTER TYPE PARID (A69).
* ALTER TYPE Front_Text (A105).
* ALTER TYPE Loc_Text (A66).
* ALTER TYPE Traffic_Text (A18).
* ALTER TYPE WaterAttributeText (A36).

SAVE OUTFILE !Model\OldData7 + 'PREDICTION.SAV'.
```