**No Cluster – With Crime**

MSE - 206760306508

RMSE - 454709

% Var Explained - 68.64

MAE - 65529.5

MSE (test) - 146853404674

RMSE (test) - 383214.6

MAE (test) - 75139.16

|  |  |
| --- | --- |
|  | IncNodePurity |
| Buildings | 5.340989e+12 |
| LandNetSquareFeet | 8.141879e+14 |
| SquareFeet | 4.385042e+14 |
| Condition | 1.392937e+12 |
| Quality | 7.220826e+14 |
| PhysicalAge | 3.400183e+14 |
| YearBuilt | 2.580768e+14 |
| YearRemodeled | 3.378380e+12 |
| TaxableValueCurrentYear | 7.426023e+14 |
| TaxableValuePriorYear | 9.038564e+14 |
| DrugCrime | 6.507751e+13 |
| Homicide | 1.123723e+11 |
| PropertyCrime | 6.115721e+14 |
| PersonalCrime | 5.879450e+14 |
| OtherCrime | 4.578828e+14 |

**No Cluster – With Crime**

MSE - 330222646449

RMSE - 574650

% Var Explained - 49.92

MAE - 76956.31

MSE (test) - 500016504351

RMSE (test) - 707118.5

MAE (test) - 102166.8

|  |  |
| --- | --- |
|  | IncNodePurity |
| Buildings | 7.157626e+12 |
| LandNetSquareFeet | 1.151621e+15 |
| SquareFeet | 6.565455e+14 |
| Condition | 1.607062e+12 |
| Quality | 6.113299e+14 |
| PhysicalAge | 3.066288e+14 |
| YearBuilt | 2.199684e+14 |
| YearRemodeled | 7.778978e+12 |
| TaxableValueCurrentYear | 1.080728e+15 |
| TaxableValuePriorYear | 1.105347e+15 |

----------

**Cluster 1 – With Crime**

MSE - 590426562606

RMSE - 768392.2

% Var Explained - 21.45

MAE - 104377

MSE (test) - 874455324516

RMSE (test) - 935123.2

MAE (test) - 124166.5

|  |  |
| --- | --- |
|  | IncNodePurity |
| Buildings | 8.696612e+12 |
| LandNetSquareFeet | 5.713952e+14 |
| SquareFeet | 3.785349e+14 |
| Condition | 3.494440e+11 |
| Quality | 2.573262e+14 |
| PhysicalAge | 7.813821e+13 |
| YearBuilt | 7.142558e+13 |
| YearRemodeled | 5.651236e+10 |
| TaxableValueCurrentYear | 7.040547e+14 |
| TaxableValuePriorYear | 3.805204e+14 |
| DrugCrime | 3.411225e+13 |
| Homicide | 0.000000e+00 |
| PropertyCrime | 1.445744e+14 |
| PersonalCrime | 8.904546e+13 |
| OtherCrime | 1.806005e+14 |

**Cluster 2 – With Crime**

MSE - 10120019746

RMSE - 100598.3

% Var Explained - 78.41

MAE - 53867.42

MSE (test) - 7310036660

RMSE (test) - 85498.75

MAE (test) - 51584.24

|  |  |
| --- | --- |
|  | IncNodePurity |
| Buildings | 1.520997e+12 |
| LandNetSquareFeet | 6.107343e+12 |
| SquareFeet | 1.297560e+13 |
| Condition | 1.731202e+12 |
| Quality | 1.985896e+13 |
| PhysicalAge | 5.248040e+12 |
| YearBuilt | 3.974364e+12 |
| YearRemodeled | 4.397659e+12 |
| TaxableValueCurrentYear | 8.186202e+13 |
| TaxableValuePriorYear | 5.635709e+13 |
| DrugCrime | 8.868254e+11 |
| Homicide | 0.000000e+00 |
| PropertyCrime | 3.606841e+12 |
| PersonalCrime | 2.346453e+12 |
| OtherCrime | 2.548712e+12 |

**Cluster 3 – With Crime**

MSE - 1.249209e+12

RMSE - 1117680

% Var Explained - 67.41

MAE - 138074.2

MSE (test) - 1.080134e+12

RMSE (test) – 1039295

MAE (test) - 130689.5

|  |  |
| --- | --- |
|  | IncNodePurity |
| Buildings | 2.001466e+13 |
| LandNetSquareFeet | 6.594608e+14 |
| SquareFeet | 2.781837e+14 |
| Condition | 4.589452e+12 |
| Quality | 5.145611e+14 |
| PhysicalAge | 7.521254e+14 |
| YearBuilt | 1.181167e+15 |
| YearRemodeled | 5.749126e+13 |
| TaxableValueCurrentYear | 1.156248e+15 |
| TaxableValuePriorYear | 4.862232e+14 |
| DrugCrime | 8.344999e+14 |
| Homicide | 1.332887e+12 |
| PropertyCrime | 1.582083e+15 |
| PersonalCrime | 8.247136e+14 |
| OtherCrime | 1.791367e+15 |

**Cluster 1 – Without Crime**

MSE - 602276909413

RMSE - 776065

% Var Explained - 16.52

MAE - 108055.3

MSE (test) - 761697317761

RMSE (test) - 872752.7

MAE (test) - 126689.3

|  |  |
| --- | --- |
|  | IncNodePurity |
| Buildings | 4.160050e+11 |
| LandNetSquareFeet | 6.992626e+14 |
| SquareFeet | 3.837899e+14 |
| Condition | 1.280691e+11 |
| Quality | 3.113038e+14 |
| PhysicalAge | 8.828755e+13 |
| YearBuilt | 9.994246e+13 |
| YearRemodeled | 2.429492e+09 |
| TaxableValueCurrentYear | 6.073323e+14 |
| TaxableValuePriorYear | 4.236776e+14 |

**Cluster 2 – Without Crime**

MSE - 5762968971

RMSE - 75914.22

% Var Explained - 57.88

MAE - 45635.44

MSE (test) - 7769205368

RMSE (test) - 88143.1

MAE (test) - 47404.32

|  |  |
| --- | --- |
|  | IncNodePurity |
| Buildings | 8.055342e+11 |
| LandNetSquareFeet | 5.077312e+12 |
| SquareFeet | 5.835284e+12 |
| Condition | 8.570300e+11 |
| Quality | 3.692681e+12 |
| PhysicalAge | 2.747523e+12 |
| YearBuilt | 2.988945e+12 |
| YearRemodeled | 2.796651e+12 |
| TaxableValueCurrentYear | 2.392984e+13 |
| TaxableValuePriorYear | 1.708902e+13 |

**Cluster 3 – Without Crime**

MSE - 1.944736e+12

RMSE - 1394538

% Var Explained - 55.74

MAE - 214477.3

MSE (test) - 1.687328e+12

RMSE (test) - 1298972

MAE (test) - 203944.5

|  |  |
| --- | --- |
|  | IncNodePurity |
| Buildings | 1.690680e+13 |
| LandNetSquareFeet | 1.704885e+15 |
| SquareFeet | 3.864085e+14 |
| Condition | 3.303242e+12 |
| Quality | 6.028949e+14 |
| PhysicalAge | 1.352002e+15 |
| YearBuilt | 8.647813e+14 |
| YearRemodeled | 2.757214e+13 |
| TaxableValueCurrentYear | 1.159912e+15 |
| TaxableValuePriorYear | 9.581543e+14 |