RandomForestRegressor(bootstrap=True, criterion='mse', max\_depth=None,

max\_features='auto', max\_leaf\_nodes=None,

min\_impurity\_decrease=0.0, min\_impurity\_split=None,

min\_samples\_leaf=1, min\_samples\_split=2,

min\_weight\_fraction\_leaf=0.0, n\_estimators=100, n\_jobs=-1,

oob\_score=False, random\_state=None, verbose=0, warm\_start=False)

features.describe()

Out[65]:

AREA RAINFALL ... GROUND\_WATERLEVEL PRODUCTION

count 2.840000e+02 2.840000e+02 ... 2.840000e+02 2.840000e+02

mean 3.521152e-12 3.169014e-11 ... -2.816907e-11 -7.042346e-12

std 1.001765e+00 1.001765e+00 ... 1.001765e+00 1.001765e+00

min -5.677682e-01 -1.094160e+00 ... -1.367275e+00 -5.394229e-01

25% -5.577964e-01 -9.709098e-01 ... -8.402423e-01 -5.356235e-01

50% -4.896255e-01 1.602353e-01 ... -2.347826e-01 -5.158769e-01

75% 4.212880e-02 9.745693e-01 ... 6.568768e-01 7.039336e-02

max 3.723419e+00 1.886219e+00 ... 2.621182e+00 4.165199e+00

runfile('E:/prediction/prd/for.py', wdir='E:/prediction/prd')

The shape of our features is: (284, 6)

Training Features Shape: (213, 5)

Training Labels Shape: (213,)

Testing Features Shape: (71, 5)

Testing Labels Shape: (71,)

Mean Absolute Error: 0.13 degrees.

Accuracy: 96.55 %.

Variable: AREA Importance: 0.95

Variable: GROUND\_WATERLEVEL Importance: 0.02

Variable: RAINFALL Importance: 0.01

Variable: AVG\_TEMPERATURE Importance: 0.01

Variable: HUMIDITY Importance: 0.01

The shape of our features is: (29, 6)

Training Features Shape: (21, 5)

Training Labels Shape: (21,)

Testing Features Shape: (8, 5)

Testing Labels Shape: (8,)

Mean Absolute Error: 59172.99 degrees.

Accuracy: 58.48 %.

Variable: AREA Importance: 0.86

Variable: GROUND\_WATERLEVEL Importance: 0.08

Variable: RAINFALL Importance: 0.03

Variable: HUMIDITY Importance: 0.02

Variable: AVG\_TEMPERATURE Importance: 0.01

