

15.2

Period	Value	Forecast	Error (Value-forecast)
1	202	-----	-----
2	191	201	-10
3	173	192	-19
4	169	181	-12
5	171	174	-3
6	175	172	3
7	182	174	8
8	196	179	17
9	204	189	15
10	219	198	21
11	227	211	16

36

MAD  $|36|/11= 3.2727273$   
MSE  $36^2/11= 117.81818$

15.4

Year	Number of Acres	Forecast	Error
1	140000	-----	-----
2	141730	140000	1730
3	134590	141038	-6448
4	131710	137169	-5459
5	131910	133894	-1984
6	134250	132704	1546
7	135220	133632	1588
8	131020	134585	-3565
9	120640	132446	-11806
10	115190	125362	-10172
11	114510	119259	-4749

-39319

MAD  $| -39319 | / 11 = 35744.636$   
MSE  $( -39319^2 ) / 11 = 140543978$

The MAD show that the average amount of deviation is 35744.6 acres of tomatoes harvested between the actual amount and the forecasted amount over an 11 year time frame.

The MSE measures the square of the sum of the errors. Squaring the total errors circumvents the issue of negative and positive forecasts. This method also provides the a meaurment of the amount of error between the acutal amount forecasted amount over the 11 year timeframe.