

Regression Summary for Dependent Variable: DiseaseRateof 32601 R= .86435113 R ² = .74710287 Adjusted R ² = .64061987 F(8,19)=7.0162 p<.00025 Std.Error of estimate: 1.1353						
N=28	b*	Std.Err. of b*	b	Std.Err. of b	t(19)	p-value
Intercept			3.678203	3.845382	0.95652	0.350821
MaxT	-0.038010	0.198421	-0.026695	0.139353	-0.19156	0.850116
MinT	-0.635646	0.180386	-0.503122	0.142778	-3.52381	0.002269
RH%	0.113867	0.173559	0.022437	0.034199	0.65607	0.519644
RF(mm)	-0.054244	0.122520	-0.089803	0.202838	-0.44273	0.662958
S.Shine(hrs)	-0.094837	0.188099	-0.100887	0.200099	-0.50419	0.619927
PAN Eva(mm)	0.155708	0.249893	0.471955	0.757433	0.62310	0.540628
ET(mm)	-0.110507	0.239105	-0.403985	0.874102	-0.46217	0.649207
W.Speed(km/hr)	0.510717	0.151590	1.265518	0.375628	3.36907	0.003222

The above table is a complete multiple regression model which is showing only two variables are significant. Therefore final predictive model is found

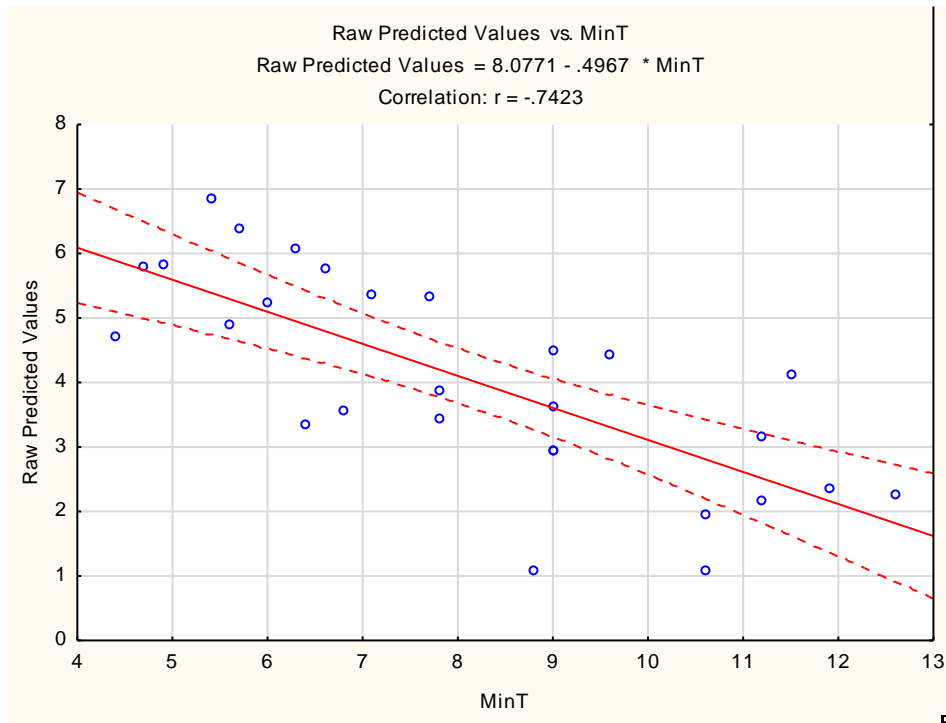
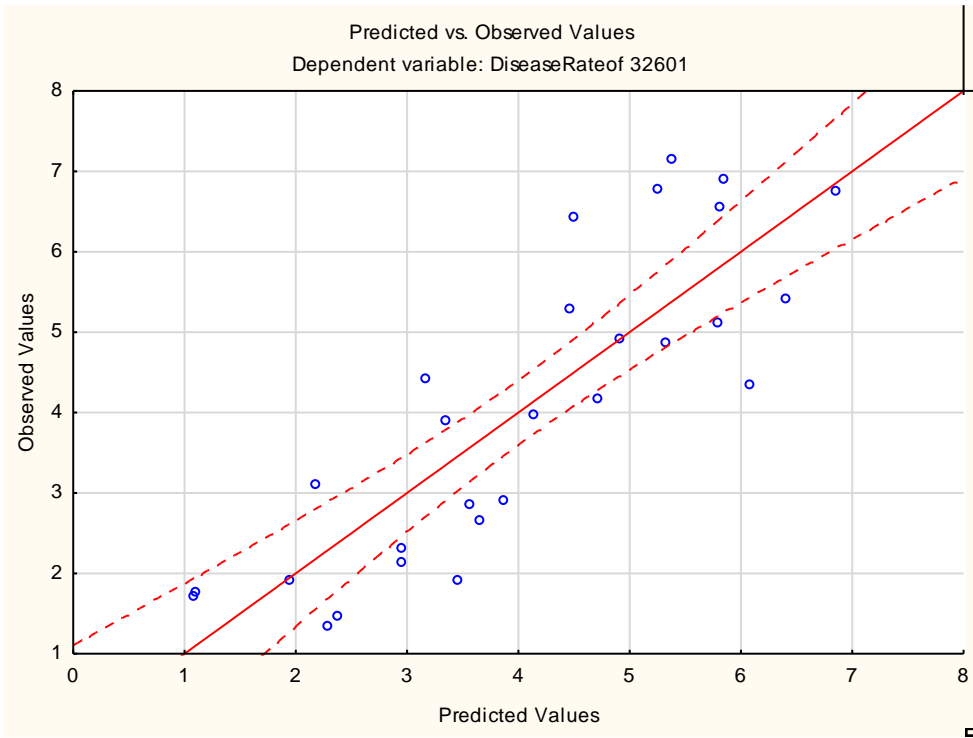
Regression Summary for Dependent Variable: DiseaseRateof 32601 R= .84532792 R ² = .71457929 Adjusted R ² = .69174563 F(2,25)=31.295 p<.00000 Std.Error of estimate: 1.0514						
N=28	b*	Std.Err. of b*	b	Std.Err. of b	t-test	p-value
Intercept			4.110809	1.034558	3.97349	0.000530
MinT	-0.678342	0.107279	-0.536917	0.084913	-6.32318	0.000001
W.Speed(km/hr)	0.568655	0.107279	1.409084	0.265828	5.30073	0.000017

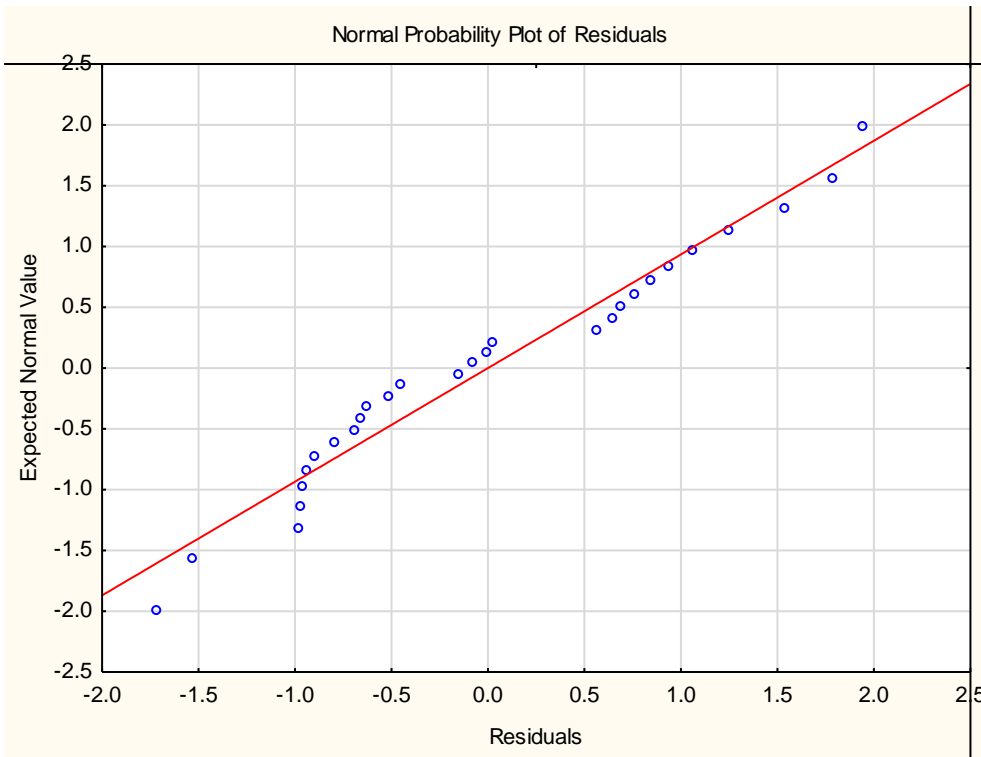
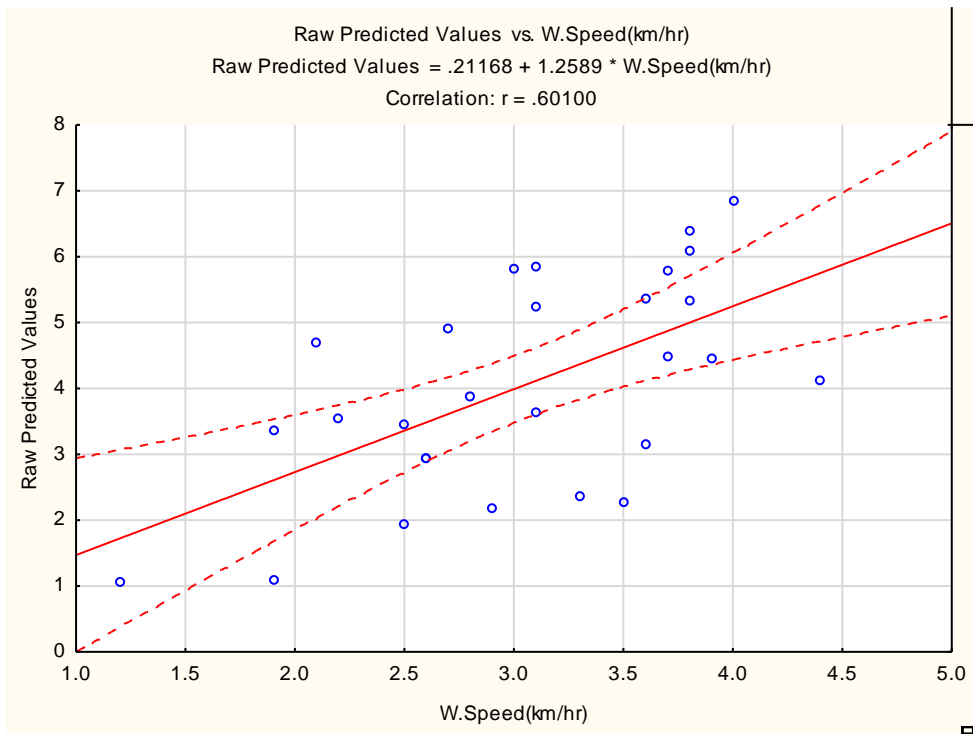
Effect	Analysis of Variance of Predictive Model DiseaseRateof 32601				
	Sums of Squares	df	Mean Squares	F	p-value
Regress.	69.19072	2	34.59536	31.29500	0.000000
Residual	27.63649	25	1.10546		
Total	96.82721				

The appropriate predictive model is

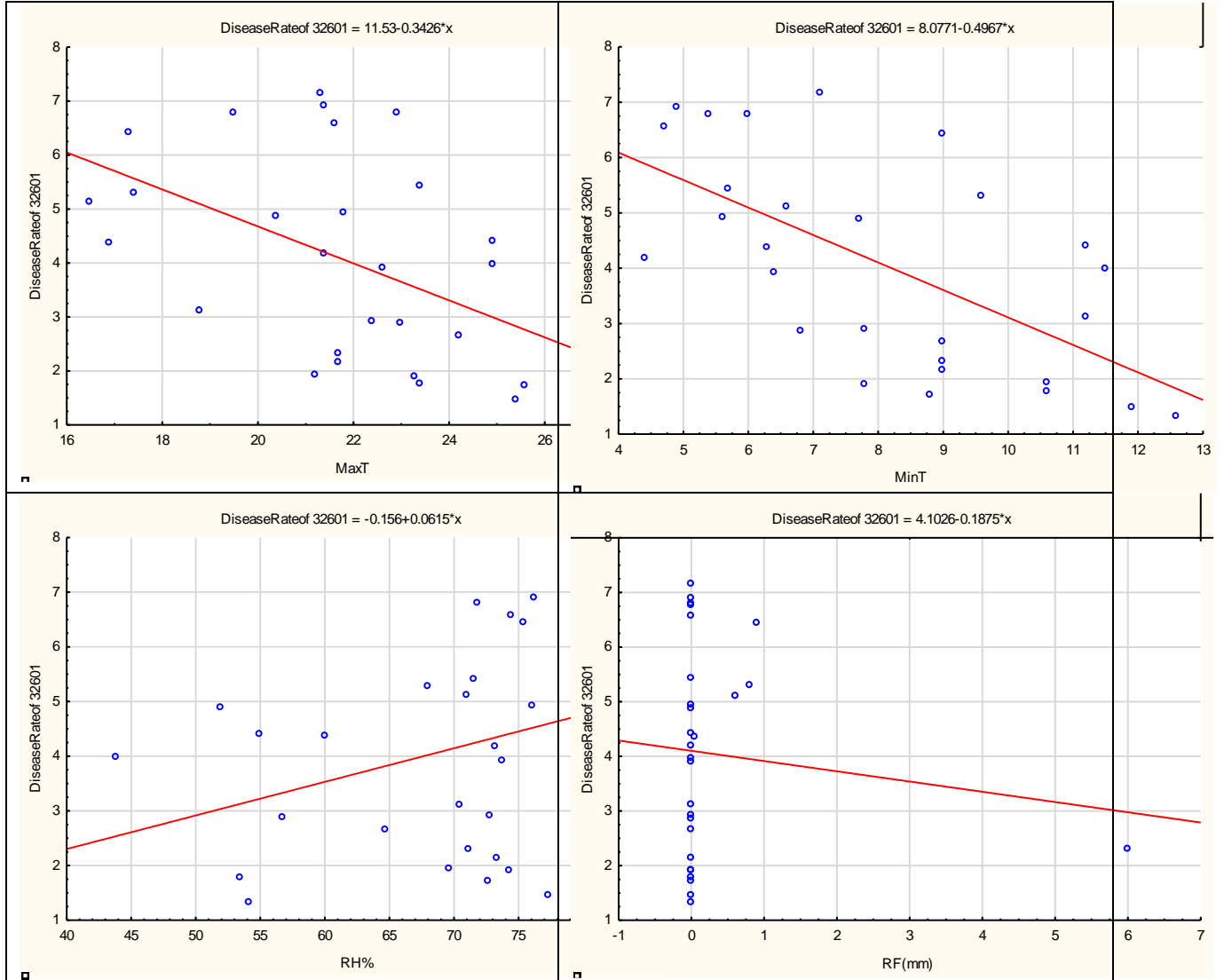
$$\hat{y} = 4.110809 - 0.536917x_1 + 1.409084x_2$$

Where y is DiseaseRateof32601, x_1 is MinT and x_2 is W.Speed.





Environmental Variable against the Variety 23601



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