

Individual Discriminators (T-Test)

Yi Variable = DUMMY 1

		t Value	Probability
Y1 = -13.9738 +0.18714 x	Plant Height cm	2.3306	0.0228 *
Y1 = -40.5819 +0.63551 x	Days to Flowering	5.8201	0.0000 ***
Y1 = 14.7946 +0.41042 x	Peduncle Area cm ²	5.7743	0.0000 ***
Y1 = 9.1151 - +3.02590 x	Peduncle Volume	6.0803	0.0000 ***
Y1 = -5.5088 +0.41559 x	Earhead Nos.	3.6451	0.0005 ***
Y1 = -0.8295 +0.01313 x	Total Biomass	0.3958	0.6935
Y1 = 5.5437 - +1.93321 x	Main Earhead Wt.	3.3213	0.0015 **
Y1 = 2.4609 - +5.41735 x	Harvest Index	0.8753	0.3845
Y1 = -0.2394 - +0.00059 x	Grain Yield/Plant g	0.0088	0.9930

**Multiple Linear
Discriminant Function**

Pooled n = 69

		Lowest	Highest	Kurtosis	Skewness	Mean	Std. Dev.	Std. Error	C.V.%	Biserial r	std.err.
Plant Height cm	X1	60.1800	83.4800	0.7057	-0.1495	73.3203	4.2765	0.5148	5.8326%	-0.3409	0.1370
Days to Flowering	X2	57.0000	70.0000	0.0624	-0.2162	63.4594	2.6649	0.3208	4.1993%	-0.7214	0.0883
Peduncle Area cm ²	X3	25.5900	47.7800	0.1929	0.0209	36.6625	4.1047	0.4942	11.1960%	0.7176	0.0890
Peduncle Volume	X4	1.7300	4.6800	-0.0305	0.2580	3.0958	0.5759	0.0693	18.6039%	0.7423	0.0846
Earhead Nos.	X5	6.4000	20.0000	-0.0945	0.4751	12.6478	2.8608	0.3444	22.6191%	-0.5064	0.1201
Total Biomass	X6	23.7800	83.5800	1.4381	0.8319	43.9491	10.7515	1.2943	24.4634%	-0.0601	0.1505
Main Earhead Wt.	X7	1.8400	4.2400	-0.6620	-0.1273	2.9983	0.5684	0.0684	18.9579%	0.4681	0.1246
Harvest Index	X8	0.3600	0.6200	-0.4327	-0.3067	0.5009	0.0574	0.0069	11.4525%	0.1324	0.1489
Grain Yield/Plant	X9	12.9400	40.1700	1.1639	0.9257	22.0165	5.2940	0.6373	24.0454%	0.0013	0.1510

1 Group n = 36

		Lowest	Highest	Kurtosis	Skewness	Mean	Std. Dev.	Std. Error	C.V.%
Plant Height cm	X1	60.1800	79.3800	2.6723	-0.9691	72.2072	3.4005	0.5668	4.7094%
Days to Flowering	X2	57.0000	70.0000	0.8096	0.5130	61.9917	2.6485	0.4414	4.2723%
Peduncle Area cm ²	X3	33.3400	47.7800	0.0094	0.3093	38.9114	3.4387	0.5731	8.8372%
Peduncle Volume	X4	2.5800	4.6800	-0.1272	0.4650	3.4222	0.4901	0.0817	14.3200%
Earhead Nos.	X5	6.4000	18.2000	0.7953	0.6142	11.5417	2.4746	0.4124	21.4406%
Total Biomass	X6	23.7800	65.8400	-0.2706	0.4381	43.4556	9.4692	1.5782	21.7906%
Main Earhead Wt.	X7	2.1500	4.2400	-0.6716	-0.0703	3.2014	0.5010	0.0835	15.6489%
Harvest Index	X8	0.3600	0.6200	-0.1657	-0.5270	0.5067	0.0585	0.0097	11.5374%
Grain Yield/Plant	X9	15.1800	33.4400	-0.2669	0.5164	22.0219	4.4454	0.7409	20.1864%

2 Group n = 33

		Lowest	Highest	Kurtosis	Skewness	Mean	Std. Dev.	Std. Error	C.V.%
Plant Height cm	X1	64.3000	83.4800	-0.2824	-0.2394	74.5345	4.8271	0.8403	6.4763%
Days to Flowering	X2	63.0000	69.4000	0.4579	0.8174	65.0606	1.5334	0.2669	2.3568%
Peduncle Area cm ²	X3	25.5900	40.2200	-0.1660	-0.4069	34.2091	3.3126	0.5767	9.6835%
Peduncle Volume	X4	1.7300	3.5800	-0.5363	-0.0024	2.7397	0.4377	0.0762	15.9753%
Earhead Nos.	X5	8.8000	20.0000	-0.5491	0.3288	13.8545	2.7957	0.4867	20.1786%
Total Biomass	X6	24.2700	83.5800	1.6589	0.9617	44.4876	12.1240	2.1105	27.2526%
Main Earhead Wt.	X7	1.8400	3.7900	-0.9071	0.0237	2.7767	0.5612	0.0977	20.2126%
Harvest Index	X8	0.3800	0.6000	-0.5669	-0.0755	0.4945	0.0564	0.0098	11.3947%
Grain Yield/Plant	X9	12.9400	40.1700	1.0970	1.0478	22.0106	6.1596	1.0722	27.9846%

Variable name

	R ²	Tolerance	VIF	F Test	Prob LGT(F)
1 Plant Height cm	0.2478	0.7522	1.3294	2.4705	0.9203
2 Days to Flowering	0.1497	0.8503	1.1761	1.3204	0.9982
3 Peduncle Area cm ²	0.9688	0.0312	32.0923	233.1921	0.0276
4 Peduncle Volume	0.9708	0.0292	34.2349	249.2614	0.0258
5 Earhead Nos.	0.7532	0.2468	4.0516	22.8872	0.2328
6 Total Biomass	0.9844	0.0156	63.9845	472.3838	0.0139
7 Main Earhead Wt.	0.5742	0.4258	2.3483	10.1120	0.4421
8 Harvest Index	0.9379	0.0621	16.1048	113.2861	0.0549
9 Grain Yield/Plant g	0.9852	0.0148	67.3450	497.5874	0.0133

Multiple Discriminant Fn. on DUMMY 1

R² 0.7386
 T² 189.2909
 F 18.5210 (9 , 59)
 RMS Error 1.6042

R²adj 0.6987
 D² 10.9942
 Probability 0.0000 ***
 AIC 1.0785

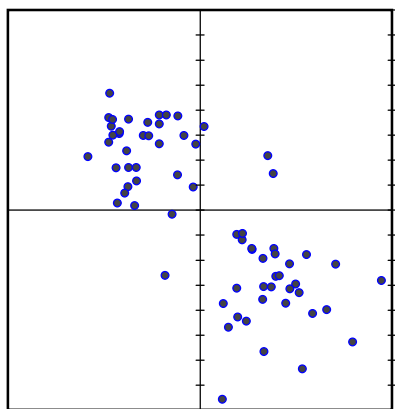
Misclassification Prob. 9.7343 %

	Beta Wt.	R square	Reg. Coeff.	Std.Err.	t-value	t Prob.
INTERCEPT a		0.0000	-19.84448	10.0774	1.969	0.054
Plant Height cm	0.2061	0.0564	0.14082	0.0525	2.685	0.009 **
Days to Flowering	0.3850	0.2231	0.42228	0.0792	5.334	0.000 ***
Peduncle Area cm ²	-0.0228	0.0131	-0.01624	0.2685	0.060	0.952
Peduncle Volume	-0.4022	0.2399	-2.04117	1.9763	1.033	0.306
Earhead Nos.	0.3372	0.1372	0.34450	0.1369	2.517	0.015 *
Total Biomass	-0.9814	-0.0474	-0.26678	0.1447	1.843	0.070
Main Earhead Wt.	-0.1899	0.0714	-0.97615	0.5245	1.861	0.068
Harvest Index	-0.4307	0.0458	-21.94297	13.6100	1.612	0.112
Grain Yield/Plant g	0.8778	-0.0009	0.48457	0.3016	1.607	0.113

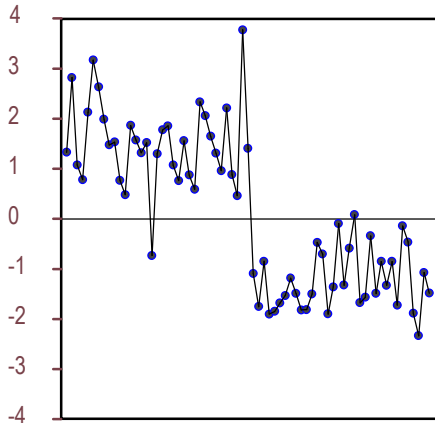
bu = peduncle area cm² 0.00366

Group1 34 2 5.56
 Group2 1 32 3.03
 Total Misclassification % = 4.35

Standardised Residual's Plot et vs et-1



Standardised Residual's Plot et vs. time



R² 0.7386
 T² 189.2750
 F 21.1875 (8 , 60)
 RMS Error 1.5908

R²adj 0.7037
 D² 10.9932
 Probability 0.0000 ***
 AIC 1.0496

Misclassification Prob. 9.7357 %

	Beta Wt.	R square	Reg. Coeff.	Std.Err.	t-value	t Prob.
INTERCEPT a		0.0000	-20.06113	9.3407	2.148	0.036 *
Plant Height cm	0.2040	0.0559	0.13944	0.0468	2.977	0.004 **
Days to Flowering	0.3858	0.2235	0.42307	0.0774	5.464	0.000 ***
Peduncle Volume	-0.4253	0.2536	-2.15821	0.3984	5.417	0.000 ***
Earhead Nos.	0.3373	0.1372	0.34455	0.1357	2.538	0.014 *
Total Biomass	-0.9797	-0.0473	-0.26632	0.1433	1.858	0.068
Main Earhead Wt.	-0.1883	0.0708	-0.96815	0.5033	1.924	0.059
Harvest Index	-0.4306	0.0458	-21.93846	13.4964	1.626	0.109
Grain Yield/Plant g	0.8767	-0.0009	0.48400	0.2989	1.619	0.111

^^ STEP DOWN ^^

R ²	0.7271	R ² adj	0.6958			
T ²	178.5446	D ²	10.3700			
F	23.2222 (7 , 61)	Probability	0.0000 ***			
RMS Error	1.6118	AIC	1.0634	Misclassification Prob.		10.7371 %
	Beta Wt.	R square	Reg. Coeff.	Std.Err.	t-value	t Prob.
INTERCEPT a		0.0000	-31.09325	6.4743	4.803	0.000 ***
Plant Height cm	0.2127	0.0582	0.14535	0.0473	3.072	0.003 **
Days to Flowering	0.3808	0.2207	0.41767	0.0784	5.329	0.000 ***
Peduncle Volume	-0.4223	0.2518	-2.14273	0.4035	5.310	0.000 ***
Earhead Nos.	0.3714	0.1511	0.37939	0.1358	2.794	0.007 **
Total Biomass	-0.1568	-0.0076	-0.04262	0.0387	1.102	0.275
Main Earhead Wt.	-0.1347	0.0507	-0.69283	0.4800	1.444	0.154
Harvest Index	-0.0210	0.0022	-1.07024	4.0610	0.264	0.793
<i>bu = harvest index 0.06945</i>						

R ²	0.7268	R ² adj	0.7004			
T ²	178.2654	D ²	10.3538			
F	27.4937 (6 , 62)	Probability	0.0000 ***			
RMS Error	1.5997	AIC	1.0356	Misclassification Prob.		10.7646 %
	Beta Wt.	R square	Reg. Coeff.	Std.Err.	t-value	t Prob.
INTERCEPT a		0.0000	-31.61087	6.1227	5.163	0.000 ***
Plant Height cm	0.2138	0.0586	0.14613	0.0469	3.119	0.003 **
Days to Flowering	0.3797	0.2200	0.41639	0.0776	5.363	0.000 ***
Peduncle Volume	-0.4177	0.2491	-2.11975	0.3910	5.421	0.000 ***
Earhead Nos.	0.3736	0.1520	0.38164	0.1345	2.838	0.006 **
Total Biomass	-0.1515	-0.0073	-0.04118	0.0380	1.084	0.283
Main Earhead Wt.	-0.1449	0.0545	-0.74527	0.4335	1.719	0.091

R ²	0.7217	R ² adj	0.6996			
T ²	173.7075	D ²	10.0891			
F	32.6674 (5 , 63)	Probability	0.0000 ***			
RMS Error	1.6019	AIC	1.0253	Misclassification Prob.		11.2249 %
	Beta Wt.	R square	Reg. Coeff.	Std.Err.	t-value	t Prob.
INTERCEPT a		0.0000	-30.43824	6.0346	5.044	0.000 ***
Plant Height cm	0.2101	0.0575	0.14361	0.0469	3.064	0.003 **
Days to Flowering	0.3799	0.2202	0.41666	0.0777	5.359	0.000 ***
Peduncle Volume	-0.4500	0.2684	-2.28370	0.3611	6.325	0.000 ***
Earhead Nos.	0.2528	0.1029	0.25830	0.0717	3.601	0.001 ***
Main Earhead Wt.	-0.1934	0.0727	-0.99454	0.3679	2.703	0.009 **