

## APPENDIX

### 1 Experiment 1:

#### 1.1 Screening of four water levels on 888 maize variety at 3 weeks after planting.

##### 1.1.1 Randomized Complete Block AOV table for plant height

Source	DF	SS	MS	F	P
Rep	3	2.7512	0.9171		
Water level	3	51.6186	17.2062	105.59	0.0000
Error	9	1.4666	0.1630		
Total	15	55.8363			
Grand Mean	7.4106 CV 5.45				

##### 1.1.2 Randomized Complete Block AOV table for leaf area

Source	DF	SS	MS	F	P
Rep	3	12250	4083		
Water level	3	1867657	622552	47.36	0.0000
Error	9	118297	13144		
Total	15	1998204			
Grand Mean	582.63 CV 19.68				

##### 1.1.3 Randomized Complete Block AOV table for root length

Source	DF	SS	MS	F	P
Rep	3	23.19	7.73		
Water level	3	3067.69	1022.56	31.67	0.0000
Error	9	290.56	32.28		
Total	15	3381.44			
Grand Mean	29.313 CV 19.38				

##### 1.1.4 Randomized Complete Block AOV table for shoot dry weight

Source	DF	SS	MS	F	P
Rep	3	0.5519	0.1840		
Water level	3	42.1239	14.0413	75.66	0.0000
Error	9	1.6704	0.1856		
Total	15	44.3462			
Grand Mean	2.3356 CV 18.45				

##### 1.1.5 Randomized Complete Block AOV table for root dry weight

Source	DF	SS	MS	F	P
Rep	3	0.1838	0.06126		
Water level	3	10.9163	3.63876	15.54	0.0007
Error	9	2.1074	0.23416		
Total	15	13.2074			
Grand Mean	2.3081 CV 20.96				

##### 1.1.6 Randomized Complete Block AOV table for total dry weight

Source	DF	SS	MS	F	P
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Rep	3	0.177	0.0590		
Water level	3	95.175	31.7251	51.71	0.0000
Error	9	5.522	0.6135		
Total	15	100.874			
Grand Mean	4.6438	CV 16.87			

## 1.1.7 Randomized Complete Block AOV Table for total N in shoot and root

Source	DF	SS	MS	F	P
Rep	3	12.69	4.23		
Water level	3	3347.19	1115.73	37.67	0.0000
Error	9	266.56	29.62		
Total	15	3626.44			
Grand Mean	30.188	CV 18.03			

## 1.1.8 Randomized Complete Block AOV Table for total P in shoot and root

Source	DF	SS	MS	F	P
Rep	3	0.2500	0.08333		
Water level	3	11.2500	3.75000	15.00	0.0008
Error	9	2.2500	0.25000		
Total	15	13.7500			
Grand Mean	1.8750	CV 26.67			

Means of total P in shoot and root for water level

## 1.1.9 Randomized Complete Block AOV Table for total K in shoot and root

Source	DF	SS	MS	F	P
Rep	3	10.69	3.56		
Water level	3	3933.19	1311.06	70.42	0.0000
Error	9	167.56	18.62		
Total	15	4111.44			
Grand Mean	30.313	CV 14.23			

## 1.2 Screening of four water levels on 888 maize variety at 6 weeks after planting.

## 1.2.1 Randomized Complete Block AOV Table for plant height

Source	DF	SS	MS	F	P
Rep	3	18.609	6.203		
Water level	3	365.432	121.811	96.90	0.0000
Error	9	11.314	1.257		
Total	15	395.356			
Grand Mean	13.779	CV 8.14			

## 1.2.2 Randomized Complete Block AOV Table for leaf area

Source	DF	SS	MS	F	P
Rep	3	1572983	524328		
WL	3	4.762E+07	1.587E+07	193.53	0.0000
Error	9	738121	82013.5		
Total	15	4.993E+07			
Grand Mean	2215.8	CV 12.92			

## 1.2.3 Randomized Complete Block AOV Table for root length

Source	DF	SS	MS	F	P
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Rep	3	388.25	129.417		
Water level	3	1575.25	525.083	13.97	0.0010
Error	9	338.25	37.583		
Total	15	2301.75			
Grand Mean	47.125	CV	13.01		

## 1.2.4 Randomized Complete Block AOV Table for shoot dry weight

Source	DF	SS	MS	F	P
Rep	3	857.85	285.950		
WL	3	2491.38	830.460	21.56	0.0002
Error	9	346.71	38.523		
Total	15	3695.94			
Grand Mean	18.922	CV	32.80		

## 1.2.5 Randomized Complete Block AOV Table for root dry weight

Source	DF	SS	MS	F	P
Rep	3	31.532	10.511		
Water level	3	470.546	156.849	80.85	0.0000
Error	9	17.461	1.940		
Total	15	519.539			
Grand Mean	8.3931	CV	16.60		

## 1.2.6 Randomized Complete Block AOV Table for total dry weight

Source	DF	SS	MS	F	P
Rep	3	1168.00	389.33		
Water level	3	5094.59	1698.20	35.35	0.0000
Error	9	432.33	48.04		
Total	15	6694.91			
Grand Mean	27.315	CV	25.37		

## 2 Experiment 2:

## 2.1 Screening of two water levels on 11 maize varieties at 6 weeks after planting.

## 2.1.1 Analysis of Variance Table for plant height

Source	DF	SS	MS	F	P
R	3	53.42	17.807		
WL	1	460.75	460.748	295.82	0.0004
Error R*WL	3	4.67	1.558		
V	10	830.27	83.027	34.33	0.0000
WL*V	10	66.74	6.674	2.76	0.0072
Error R*WL*V	60	145.13	2.419		
Total	87	1560.98			

Grand Mean 26.058

CV(R\*WL) 4.79

CV(R\*WL\*V) 5.97

## 2.1.2 Analysis of Variance Table for leaf area

Source	DF	SS	MS	F	P
R	3	111512	37171		
WL	1	4709115	4709115	1029.07	0.0001

Error R*WL	3	13728	4576		
V	10	2601248	260125	42.07	0.0000
WL*V	10	255113	25511	4.13	0.0002
Error R*WL*V	60	370985	6183		
Total	87	8061702			

Grand Mean 1415.2  
CV(R\*WL) 4.78  
CV(R\*WL\*V) 5.56

## 2.1.3 Analysis of Variance Table for root length

Source	DF	SS	MS	F	P
R	3	45.36	15.121		
WL	1	654.55	654.545	21.80	0.0186
Error R*WL	3	90.09	30.030		
V	10	1015.77	101.577	4.95	0.0000
WL*V	10	521.95	52.195	2.54	0.0125
Error R*WL*V	60	1231.55	20.526		
Total	87	3559.27			

Grand Mean 60.409  
CV(R\*WL) 9.07  
CV(R\*WL\*V) 7.50

## 2.1.4 Analysis of Variance Table for shoot dry weight

Source	DF	SS	MS	F	P
R	3	8.284	2.761		
WL	1	120.557	120.557	1793.92	0.0000
Error R*WL	3	0.202	0.067		
V	10	52.439	5.244	14.23	0.0000
WL*V	10	7.625	0.762	2.07	0.0414
Error R*WL*V	60	22.117	0.369		
Total	87	211.223			

Grand Mean 5.5025  
CV(R\*WL) 4.71  
CV(R\*WL\*V) 11.03

## 2.1.5 Analysis of Variance Table for root dry weight

Source	DF	SS	MS	F	P
R	3	0.0158	0.00528		
WL	1	5.6713	5.67131	871.90	0.0001
Error R*WL	3	0.0195	0.00650		
V	10	4.4663	0.44663	36.33	0.0000
WL*V	10	0.4703	0.04703	3.83	0.0005
Error R*WL*V	60	0.7376	0.01229		
Total	87	11.3809			

Grand Mean 1.7439  
CV(R\*WL) 4.62  
CV(R\*WL\*V) 6.36

## 2.1.6 Analysis of Variance Table for total dry weight

Source	DF	SS	MS	F	P
R	3	8.017	2.672		
WL	1	178.524	178.524	1770.19	0.0000
Error R*WL	3	0.303	0.101		
V	10	66.344	6.634	16.34	0.0000
WL*V	10	9.961	0.996	2.45	0.0158
Error R*WL*V	60	24.368	0.406		
Total	87	287.516			

Grand Mean 7.2459  
CV(R\*WL) 4.38  
CV(R\*WL\*V) 8.80

## 3 Experiment 3:

## 3.1 Effect of three water levels on four maize varieties at 6 weeks after planting.

## 3.1.1 Analysis of Variance Table for plant height

Source	DF	SS	MS	F	P
R	3	0.777	0.2591		
WL	2	182.707	91.3535	406.85	0.0000
Error R*WL	6	1.347	0.2245		
V	3	222.847	74.2822	402.93	0.0000
WL*V	6	7.797	1.2996	7.05	0.0001
Error R*WL*V	27	4.978	0.1844		
Total	47	420.453			

Grand Mean 11.720  
CV(R\*WL) 4.04  
CV(R\*WL\*V) 3.66

## 3.1.2 Analysis of Variance Table for leaf area

Source	DF	SS	MS	F	P
R	3	1926	642		
WL	2	4029568	2014784	1557.49	0.0000
Error R*WL	6	7762	1294		
V	3	1899054	633018	1004.34	0.0000
WL*V	6	210789	35131	55.74	0.0000
Error R*WL*V	27	17018	630		
Total	47	6166116			

Grand Mean 1116.5  
CV(R\*WL) 3.22  
CV(R\*WL\*V) 2.25

## 3.1.3 Analysis of Variance Table for root length

Source	DF	SS	MS	F	P
R	3	5.95	1.984		
WL	2	1229.82	614.908	295.56	0.0000
Error R*WL	6	12.48	2.080		



V	3	1382.54	460.848	488.40	0.0000
WL*V	6	409.96	68.326	72.41	0.0000
Error R*WL*V	27	25.48	0.944		
Total	47	3066.23			

Grand Mean 69.525  
CV(R\*WL) 2.07  
CV(R\*WL\*V) 1.40

## 3.1.4 Analysis of Variance Table for shoot dry weight

Source	DF	SS	MS	F	P
R	3	0.1384	0.0461		
WL	2	41.4602	20.7301	110.07	0.0000
Error R*WL	6	1.1300	0.1883		
V	3	33.5192	11.1731	293.63	0.0000
WL*V	6	5.8063	0.9677	25.43	0.0000
Error R*WL*V	27	1.0274	0.0381		
Total	47	83.0815			

Grand Mean 3.1575  
CV(R\*WL) 13.74  
CV(R\*WL\*V) 6.18

## 3.1.5 Analysis of Variance Table for root dry weight

Source	DF	SS	MS	F	P
R	3	0.2359	0.07864		
WL	2	6.3105	3.15526	239.88	0.0000
Error R*WL	6	0.0789	0.01315		
V	3	13.6706	4.55687	143.16	0.0000
WL*V	6	1.3343	0.22239	6.99	0.0001
Error R*WL*V	27	0.8594	0.03183		
Total	47	22.4897			

Grand Mean 2.3860  
CV(R\*WL) 4.81  
CV(R\*WL\*V) 7.48

## 3.1.6 Analysis of Variance Table for total dry weight

Source	DF	SS	MS	F	P
R	3	0.357	0.1191		
WL	2	76.965	38.4823	193.30	0.0000
Error R*WL	6	1.194	0.1991		
V	3	73.080	24.3601	309.72	0.0000
WL*V	6	9.795	1.6325	20.76	0.0000
Error R*WL*V	27	2.124	0.0787		
Total	47	163.515			

Grand Mean 5.5435  
CV(R\*WL) 8.05  
CV(R\*WL\*V) 5.06

## 3.1.7 Analysis of Variance Table for total N in shoot and root

Source	DF	SS	MS	F	P
R	3	0.00098	0.00033		
WL	2	0.06512	0.03256	77.04	0.0001
Error R*WL	6	0.00254	0.00042		
V	3	0.09923	0.03308	109.00	0.0000
WL*V	6	0.01167	0.00195	6.41	0.0003
Error R*WL*V	27	0.00819	0.00030		
Total	47	0.18774			

Grand Mean 0.1769

CV(R\*WL) 11.62

CV(R\*WL\*V) 9.85

## 3.1.8 Analysis of Variance Table for total P in shoot and root

Source	DF	SS	MS	F	P
R	3	3.642E-07	1.214E-07		
WL	2	1.723E-04	8.614E-05	2314.30	0.0000
Error R*WL	6	2.233E-07	3.722E-08		
V	3	5.152E-05	1.717E-05	124.57	0.0000
WL*V	6	1.171E-05	1.953E-06	14.17	0.0000
Error R*WL*V	27	3.723E-06	1.379E-07		
Total	47	2.398E-04			

Grand Mean 6.43E-03

CV(R\*WL) 3.00

CV(R\*WL\*V) 5.78

## 3.1.9 Analysis of Variance Table for total K in shoot and root

Source	DF	SS	MS	F	P
R	3	0.00101	0.00034		
WL	2	0.10539	0.05269	64.14	0.0001
Error R*WL	6	0.00493	0.00082		
V	3	0.03837	0.01279	33.01	0.0000
WL*V	6	0.00596	0.00099	2.56	0.0426
Error R*WL*V	27	0.01046	0.00039		
Total	47	0.16613			

Grand Mean 0.1637

CV(R\*WL) 17.50

CV(R\*WL\*V) 12.02

## 4 Experiment 4:

## 4.1 Effect of three water levels on four maize varieties at 6 weeks after planting.

## 4.1.1 Analysis of Variance Table for plant height

Source	DF	SS	MS	F	P
REP	3	18.91	6.302		
WL	2	405.09	202.544	110.09	0.0000
Error REP*WL	6	11.04	1.840		
V	3	556.73	185.576	38.32	0.0000
WL*V	6	29.88	4.980	1.03	0.4286

Error REP*WL*V	27	130.77	4.843
Total	47	1152.41	

Grand Mean 21.038

CV(REP\*WL) 6.45

CV(REP\*WL\*V) 10.46

## 4.1.2 Analysis of Variance Table for leaf area

Source	DF	SS	MS	F	P
REP	3	274222	91407.4		
WL	2	3.411E+07	1.706E+07	131.69	0.0000
Error REP*WL	6	777037	129506		
V	3	223323	74440.9	0.95	0.4312
WL*V	6	1210695	201783	2.57	0.0423
Error REP*WL*V	27	2119468	78498.8		
Total	47	3.871E+07			

Grand Mean 3013.6

CV(REP\*WL) 11.94

CV(REP\*WL\*V) 9.30

## 4.1.3 Analysis of Variance Table for root length

Source	DF	SS	MS	F	P
REP	3	58.57	19.52		
WL	2	8331.44	4165.72	150.13	0.0000
Error REP*WL	6	166.48	27.75		
V	3	341.97	113.99	3.46	0.0300
WL*V	6	116.51	19.42	0.59	0.7354
Error REP*WL*V	27	888.68	32.91		
Total	47	9903.65			

Grand Mean 106.73

CV(REP\*WL) 4.94

CV(REP\*WL\*V) 5.38

## 4.1.4 Analysis of Variance Table for shoot dry weight

Source	DF	SS	MS	F	P
REP	3	5.530	1.843		
WL	2	422.819	211.409	64.37	0.0001
Error REP*WL	6	19.704	3.284		
V	3	61.967	20.656	14.23	0.0000
WL*V	6	43.931	7.322	5.05	0.0014
Error REP*WL*V	27	39.180	1.451		
Total	47	593.132			

Grand Mean 26.000

CV(REP\*WL) 6.97

CV(REP\*WL\*V) 4.63

## 4.1.5 Analysis of Variance Table for root dry weight

Source	DF	SS	MS	F	P
REP	3	3.573	1.1910		



WL	2	121.350	60.6751	99.04	0.0000
Error REP*WL	6	3.676	0.6126		
V	3	23.594	7.8648	11.14	0.0001
WL*V	6	41.347	6.8912	9.76	0.0000
Error REP*WL*V	27	19.057	0.7058		
Total	47	212.597			

Grand Mean 6.1333

CV(REP\*WL) 12.76

CV(REP\*WL\*V) 13.70

## 4.1.6 Analysis of Variance Table for total dry weight

Source	DF	SS	MS	F	P
REP	3	12.56	4.188		
WL	2	990.52	495.259	127.29	0.0000
Error REP*WL	6	23.34	3.891		
V	3	51.84	17.280	10.21	0.0001
WL*V	6	83.41	13.902	8.21	0.0000
Error REP*WL*V	27	45.71	1.693		
Total	47	1207.39			

Grand Mean 32.133

CV(REP\*WL) 6.14

CV(REP\*WL\*V) 4.05

## 5 Experiment 5:

## 5.1 Effect of three water levels on two maize varieties at 4 weeks after planting.

## 5.1.1 Analysis of Variance Table for plant height

Source	DF	SS	MS	F	P
R	3	7.125	2.375		
WL	2	291.000	145.500	124.71	0.0000
Error R*WL	6	7.000	1.167		
V	1	1.042	1.042	1.15	0.3107
WL*V	2	17.333	8.667	9.60	0.0059
Error R*WL*V	9	8.125	0.903		
Total	23	331.625			

Grand Mean 22.375

CV(R\*WL) 4.83

CV(R\*WL\*V) 4.25

## 5.1.2 Analysis of Variance Table for leaf area

Source	DF	SS	MS	F	P
R	3	5.3	1.77		
WL	2	12862.6	6431.28	1556.87	0.0000
Error R*WL	6	24.8	4.13		
V	1	177.1	177.13	70.91	0.0000
WL*V	2	863.6	431.78	172.86	0.0000
Error R*WL*V	9	22.5	2.50		
Total	23	13955.8			

Grand Mean 156.02

CV(R\*WL) 1.30

CV(R\*WL\*V) 1.01

5.1.3 Analysis of Variance Table for root length

Source	DF	SS	MS	F	P
R	3	28.17	9.389		
WL	2	835.58	417.792	21.23	0.0019
Error R*WL	6	118.08	19.681		
V	1	0.67	0.667	0.20	0.6691
WL*V	2	30.58	15.292	4.48	0.0447
Error R*WL*V	9	30.75	3.417		
Total	23	1043.83			

Grand Mean 90.417

CV(R\*WL) 4.91

CV(R\*WL\*V) 2.04

5.1.4 Analysis of Variance Table for shoot dry weight

Source	DF	SS	MS	F	P
R	3	5.827	1.942		
WL	2	250.278	125.139	68.73	0.0001
Error R*WL	6	10.924	1.821		
V	1	5.255	5.255	43.79	0.0001
WL*V	2	14.436	7.218	60.15	0.0000
Error R*WL*V	9	1.080	0.120		
Total	23	287.800			

Grand Mean 11.976

CV(R\*WL) 11.27

CV(R\*WL\*V) 2.89

5.1.5 Analysis of Variance Table for root dry weight

Source	DF	SS	MS	F	P
R	3	0.1542	0.0514		
WL	2	29.7845	14.8922	154.99	0.0000
Error R*WL	6	0.5765	0.0961		
V	1	0.1162	0.1162	2.25	0.1675
WL*V	2	1.0116	0.5058	9.81	0.0055
Error R*WL*V	9	0.4640	0.0516		
Total	23	32.1070			

Grand Mean 4.5162

CV(R\*WL) 6.86

CV(R\*WL\*V) 5.03

5.1.6 Analysis of Variance Table for total dry weight

Source	DF	SS	MS	F	P
R	3	5.534	1.845		
WL	2	452.592	226.296	111.52	0.0000
Error R*WL	6	12.175	2.029		

V	1	3.808	3.808	16.42	0.0029
WL*V	2	21.285	10.642	45.88	0.0000
Error R*WL*V	9	2.088	0.232		
Total	23	497.481			

Grand Mean 16.493  
CV(R\*WL) 8.64  
CV(R\*WL\*V) 2.92

## 5.1.7 Analysis of Variance Table for total N content in shoot and root

Source	DF	SS	MS	F	P
R	3	0.00313	0.00104		
WL	2	0.65863	0.32931	173.56	0.0000
Error R*WL	6	0.01138	0.00190		
V	1	0.00996	0.00996	11.19	0.0086
WL*V	2	0.02668	0.01334	14.98	0.0014
Error R*WL*V	9	0.00802	0.00089		
Total	23	0.71780			

Grand Mean 0.7930  
CV(R\*WL) 5.49  
CV(R\*WL\*V) 3.76

## 5.1.8 Analysis of Variance Table for total P content in shoot and root

Source	DF	SS	MS	F	P
R	3	0.00010	3.249E-05		
WL	2	0.00617	0.00309	278.72	0.0000
Error R*WL	6	0.00007	1.106E-05		
V	1	0.00001	1.204E-05	2.94	0.1206
WL*V	2	0.00005	2.329E-05	5.68	0.0253
Error R*WL*V	9	0.00004	4.097E-06		
Total	23	0.00643			

Grand Mean 0.0508  
CV(R\*WL) 6.55  
CV(R\*WL\*V) 3.99

## 5.1.9 Analysis of Variance Table for total K content in shoot and root

Source	DF	SS	MS	F	P
R	3	0.00448	0.00149		
WL	2	0.82686	0.41343	419.84	0.0000
Error R*WL	6	0.00591	0.00098		
V	1	0.03154	0.03154	70.30	0.0000
WL*V	2	0.00677	0.00339	7.55	0.0119
Error R*WL*V	9	0.00404	0.00045		
Total	23	0.87960			

Grand Mean 0.7221  
CV(R\*WL) 4.35  
CV(R\*WL\*V) 2.93

## 5.1.10 Analysis of Variance Table for deep soil layer at 0 to 25cm

Source	DF	SS	MS	F	P
R	3	1.1264	0.37548		
WL	2	15.6437	7.82183	69.32	0.0001
Error R*WL	6	0.6770	0.11284		
V	1	0.0002	0.00020	0.00	0.9498
WL*V	2	0.5246	0.26228	5.38	0.0290
Error R*WL*V	9	0.4384	0.04871		
Total	23	18.4103			
Grand Mean	2.8371				
CV(R*WL)	11.84				
CV(R*WL*V)	7.78				

#### 5.1.11 Analysis of Variance Table for deep soil layer at 25 to 50cm

Source	DF	SS	MS	F	P
R	3	0.24840	0.08280		
WL	2	3.36006	1.68003	60.84	0.0001
Error R*WL	6	0.16568	0.02761		
V	1	0.64682	0.64682	21.80	0.0012
WL*V	2	0.20061	0.10030	3.38	0.0803
Error R*WL*V	9	0.26698	0.02966		
Total	23	4.88853			
Grand Mean	0.9917				
CV(R*WL)	16.76				
CV(R*WL*V)	17.37				

#### 5.1.12 Analysis of Variance Table for deep soil layer at 50 to 75cm

Source	DF	SS	MS	F	P
R	3	0.07205	0.02402		
WL	2	0.03256	0.01628	1.54	0.2881
Error R*WL	6	0.06334	0.01056		
V	1	0.26670	0.26670	53.36	0.0000
WL*V	2	0.13776	0.06888	13.78	0.0018
Error R*WL*V	9	0.04499	0.00500		
Total	23	0.61740			
Grand Mean	0.4721				
CV(R*WL)	21.76				
CV(R*WL*V)	14.98				

#### 5.1.13 Analysis of Variance Table for deep soil layer at 75 to 100cm

Source	DF	SS	MS	F	P
R	3	0.02515	0.00838		
WL	2	0.00858	0.00429	2.08	0.2064
Error R*WL	6	0.01239	0.00207		
V	1	0.01084	0.01084	3.37	0.0996
WL*V	2	0.00647	0.00324	1.01	0.4031
Error R*WL*V	9	0.02894	0.00322		

Total 23 0.09236  
 Grand Mean 0.1863  
 CV(R\*WL) 24.40  
 CV(R\*WL\*V) 30.44

## 6 Experiment 6:

## 6.1 Effect of two water levels on four maize varieties at maturity

## 6.1.1 Analysis of Variance Table for day to flowering

Source	DF	SS	MS	F	P
R	3	120.844	40.281		
WL	1	26.281	26.281	25.48	0.0150
Error R*WL	3	3.094	1.031		
V	3	332.594	110.865	78.84	0.0000
WL*V	3	4.844	1.615	1.15	0.3567
Error R*WL*V	18	25.313	1.406		
Total	31	512.969			

Grand Mean 122.97  
 CV(R\*WL) 0.83  
 CV(R\*WL\*V) 0.96

## 6.1.2 Analysis of Variance Table for plant height

Source	DF	SS	MS	F	P
R	3	19.84	6.61		
WL	1	2128.78	2128.78	352.96	0.0003
Error R*WL	3	18.09	6.03		
V	3	4850.59	1616.86	247.03	0.0000
WL*V	3	137.84	45.95	7.02	0.0025
Error R*WL*V	18	117.81	6.55		
Total	31	7272.97			

Grand Mean 157.03  
 CV(R\*WL) 1.56  
 CV(R\*WL\*V) 1.63

## 6.1.3 Analysis of Variance Table for biomass dry weight

Source	DF	SS	MS	F	P
R	3	0.06011	0.02004		
WL	1	3.46503	3.46503	813.11	0.0001
Error R*WL	3	0.01278	0.00426		
V	3	3.26921	1.08974	183.52	0.0000
WL*V	3	0.32808	0.10936	18.42	0.0000
Error R*WL*V	18	0.10688	0.00594		
Total	31	7.24210			

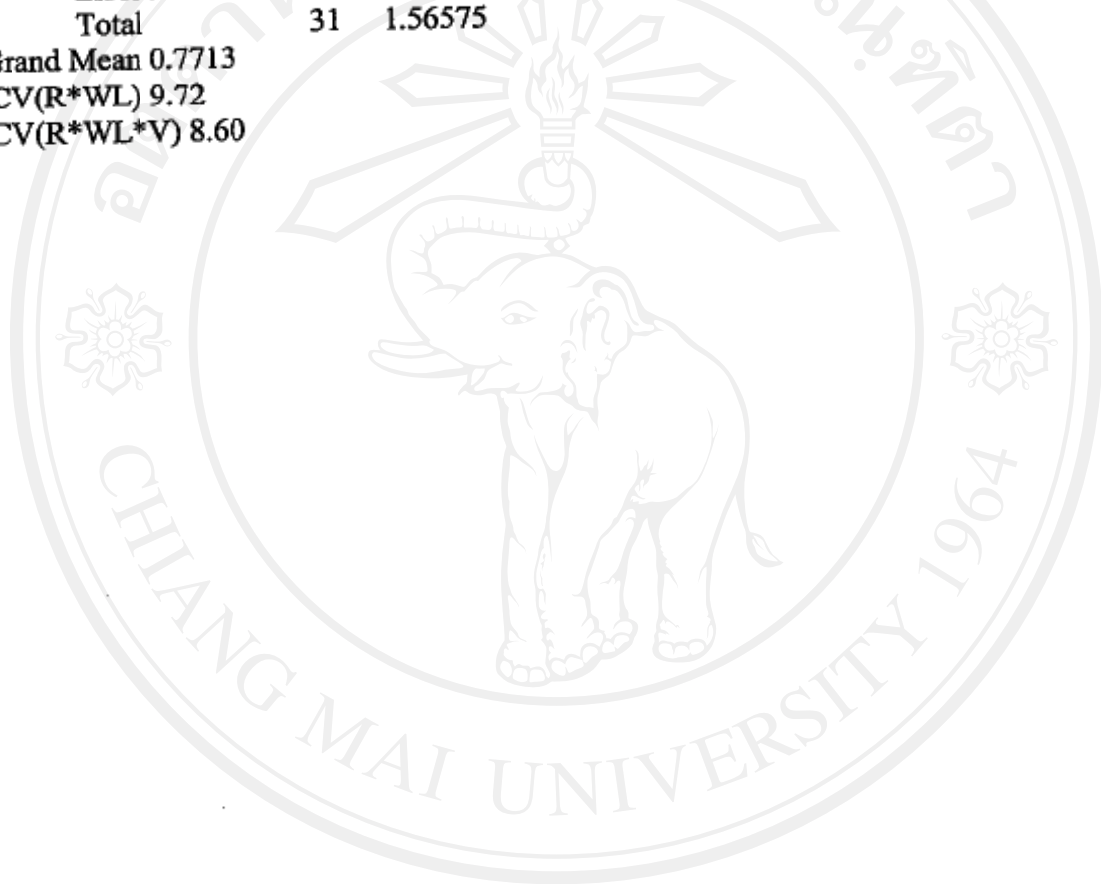
Grand Mean 1.9703  
 CV(R\*WL) 3.31  
 CV(R\*WL\*V) 3.91

## 6.1.4 Analysis of Variance Table for grain yield



Source	DF	SS	MS	F	P
R	3	0.06908	0.02303		
WL	1	0.98701	0.98701	175.60	0.0009
Error R*WL	3	0.01686	0.00562		
V	3	0.30657	0.10219	23.24	0.0000
WL*V	3	0.10706	0.03569	8.11	0.0013
Error R*WL*V	18	0.07916	0.00440		
Total	31	1.56575			

Grand Mean 0.7713  
 CV(R\*WL) 9.72  
 CV(R\*WL\*V) 8.60



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## CURRICULUM VITAE

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2001-2002	Field crops Management in Plant Breeding Office of Cambodian Agricultural Research and development Institute (CARDI).
1995-2001	Vice Chief of Agronomy office, Department of Agricultural, Battambang Province.
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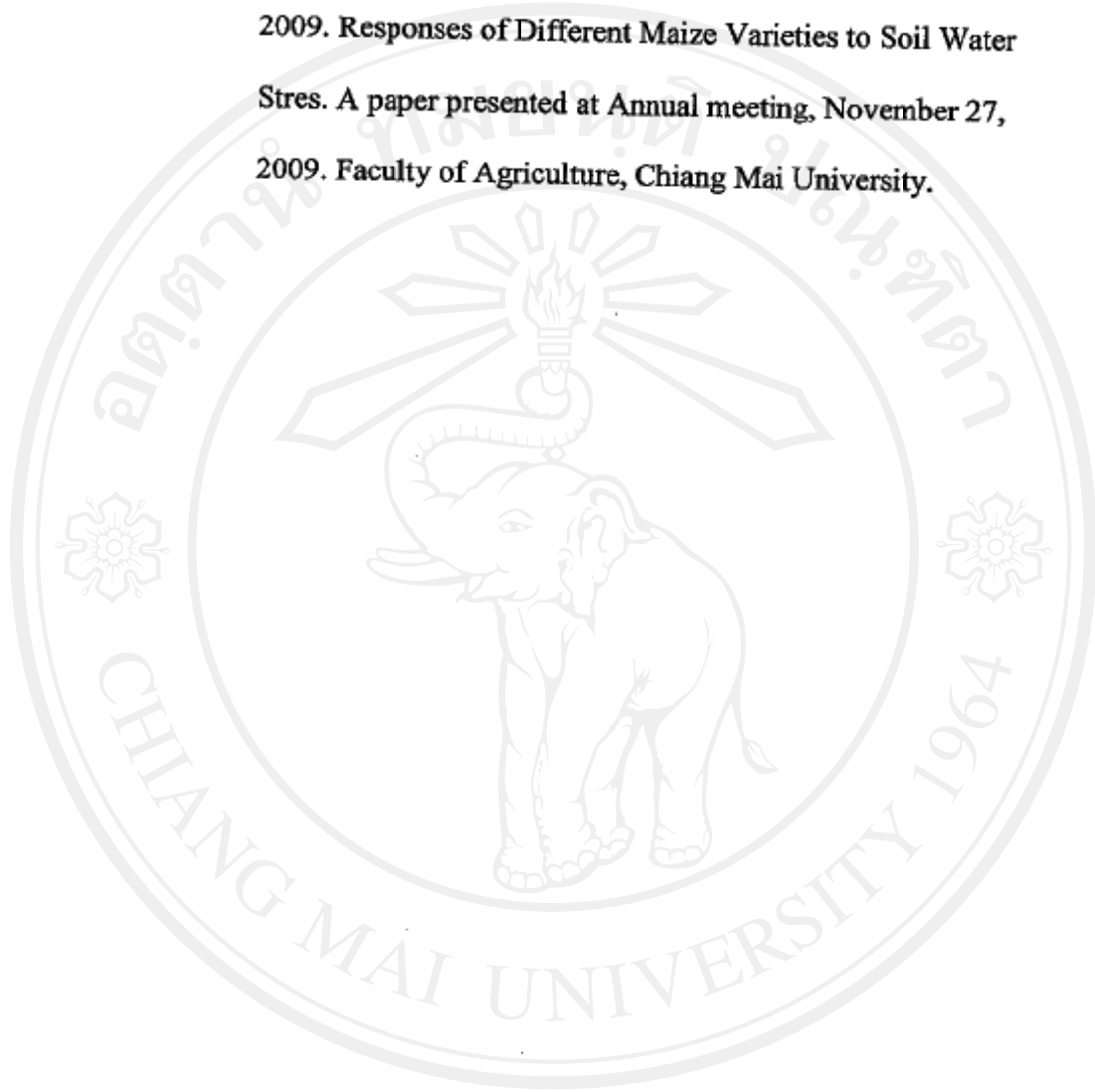
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