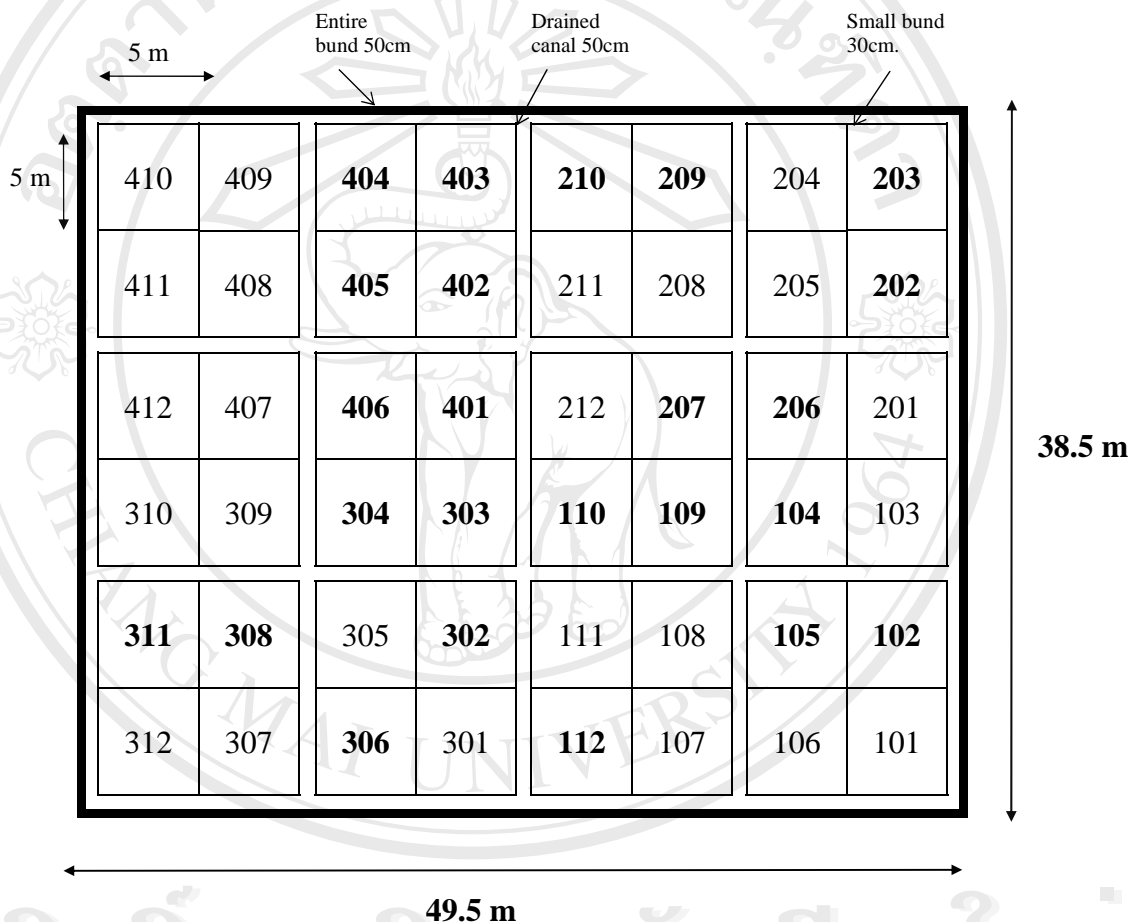


List of appendices

Appendix1. Plot layout of the experiment figure



The main experimental area 49.5 m x 38.5 m (1916 m²)

Appendix2. Analysis variance tables

2.1 Analysis variance table for days to 50% flowering rice crop2, 3, 4, 5

Source	DF	SS	MS	F	P
Replication(A)	3	14.5625	4.8542		
Crop(B)	3	921.8130	307.2710	30.710	0.000
Error AXB	9	90.0625	10.0069		
Fertilizer(C)	1	451.5630	451.5630	94.440	0.000
B X C	3	350.0620	116.6870	24.410	0.000
Error AXBXC	12	57.3750	4.7813		
Residue(D)	1	0.0000	0.0000	0.000	1.000
B X D	3	6.6250	2.2083	0.400	0.756
C X D	1	0.2500	0.2500	0.040	0.834
B X C X D	3	19.6250	6.5417	1.180	0.340
Error A X B X C X D	24	133.5000	5.5625		
Total	63	2045.44			

2.2 Analysis variance table for plant height rice crop2, 3, 4, 5

Source	DF	SS	MS	F	P
Replication(A)	3	27.200	9.080		
Crop(B)	3	9363.400	3121.140	246.040	0.000
Error AXB	9	114.200	12.690		
Fertilizer(C)	1	2032.500	2032.540	104.370	0.000
B X C	3	82.500	27.510	1.410	0.287
Error AXBXC	12	233.700	19.470		
Residue(D)	1	55.600	55.560	4.510	0.044
B X D	3	37.000	12.330	1.000	0.410
C X D	1	5.000	4.960	0.400	0.532
B X C X D	3	0.100	0.030	0.000	1.000
Error A X B X C X D	24	295.800	12.320		
Total	63	12247.000			

2.3 Analysis variance table for number of panicle/hill rice 2, 3, 4, 5

Source	DF	SS	MS	F	P
Replication(A)	3	6.785	2.262		
Crop(B)	3	104.760	34.920	28.000	0.000
Error AXB	9	11.225	1.247		
Fertilizer(C)	1	303.587	303.587	227.160	0.000
B X C	3	51.166	17.055	12.760	0.001
Error AXBXC	12	16.038	1.336		
Residue(D)	1	0.050	0.050	0.070	0.792
B X D	3	1.961	0.654	0.930	0.441
C X D	1	1.680	1.680	2.390	0.135
B X C X D	3	0.927	0.309	0.440	0.726
Error A X B X C X D	24	16.843	0.702		
Total	63	515.022			

2.4 Analysis variance table for rice yield crop 2, 3, 4, 5

Source	DF	SS	MS	F	P
Replication(A)	3	2.363	0.788		
Crop(B)	3	49.320	16.440	152.870	0.000
Error AXB	9	0.968	0.108		
Fertilizer(C)	1	28.891	28.891	333.650	0.000
B X C	3	4.805	1.602	18.500	0.000
Error AXBXC	12	1.039	0.087		
Residue(D)	1	1.323	1.323	8.930	0.006
B X D	3	0.352	0.118	0.790	0.510
C X D	1	0.121	0.121	0.820	0.376
B X C X D	3	0.217	0.072	0.490	0.694
Error A X B X C X D	24	3.555	0.148		
Total	63	92.952			

2.5 Analysis variance table for straw yield crop 2345

Source	DF	SS	MS	F	P
Replication(A)	3	2.853	0.951		
Crop(B)	3	36.457	12.152	41.470	0.000
Error AXB	9	2.637	0.293		
Fertilizer(C)	1	47.094	47.094	81.160	0.000
B X C	3	6.358	2.119	3.650	0.044
Error AXBXC	12	6.963	0.580		
Residue(D)	1	0.158	0.158	0.420	0.522
B X D	3	0.991	0.330	0.880	0.464
C X D	1	0.081	0.081	0.220	0.645
B X C X D	3	0.823	0.275	0.730	0.542
Error A X B X C X D	24	8.974	0.374		
Total	63	113.391			

2.6 Analysis variance table for days to 50% flowering of mungbean 2, and 4

Source	DF	SS	MS	F	P
Replication(A)	3	48.090	16.031		
Crop(B)	1	215.280	215.281	12.220	0.040
Error AXB	3	52.840	17.615		
Fertilizer(C)	1	413.280	413.281	25.320	0.002
B X C	1	16.530	16.531	1.010	0.353
Error AXBXC	6	97.940	16.323		
Residue(D)	1	5.280	5.281	0.100	0.754
B X D	1	7.030	7.031	0.140	0.718
C X D	1	1.530	1.531	0.030	0.866
B X C X D	1	0.780	0.781	0.020	0.904
Error A X B X C X D	12	617.880	51.490		
Total	31	1476.470			

2.7 Analysis variance table for plant height of mungbean 2, and 4

Source	DF	SS	MS	F	P
Replication(A)	3	2.32	0.773		
Crop(B)	1	504.63	504.627	92.65	0.0024
Error AXB	3	16.34	5.446		
Fertilizer(C)	1	631.23	631.235	34.11	0.0011
B X C	1	78.99	78.987	4.27	0.0843
Error AXBXC	6	111.03	18.505		
Residue(D)	1	2.43	2.434	0.35	0.5649
B X D	1	15.37	15.367	2.21	0.1627
C X D	1	25.07	25.072	3.61	0.0817
B X C X D	1	0.74	0.743	0.11	0.7493
Error A X B X C X D	12	83.36	6.946		
Total	31	1471.51			

2.8 Analysis variance table for pod/plant of mungbean 2, and 4

Source	DF	SS	MS	F	P
Replication(A)	3	0.803	0.268		
Crop(B)	1	0.070	0.070	0.040	0.857
Error AXB	3	5.503	1.834		
Fertilizer(C)	1	158.865	158.865	230.900	0.000
B X C	1	0.125	0.125	0.180	0.685
Error AXBXC	6	4.128	0.688		
Residue(D)	1	12.852	12.852	4.030	0.068
B X D	1	0.047	0.047	0.010	0.906
C X D	1	4.278	4.278	1.340	0.269
B X C X D	1	4.500	4.500	1.410	0.258
Error A X B X C X D	12	38.265	3.189		
Total	31	229.437			

2.9 Analysis variance table for grain yield of mung bean 2, and 4

Source	DF	SS	MS	F	P
Replication(A)	3	0.111	0.037		
Crop(B)	1	0.095	0.095	40.190	0.008
Error AXB	3	0.007	0.002		
Fertilizer(C)	1	0.405	0.405	70.540	0.000
B X C	1	0.051	0.051	8.920	0.024
Error AXBXC	6	0.034	0.006		
Residue(D)	1	0.165	0.165	15.700	0.002
B X D	1	0.053	0.053	5.020	0.045
C X D	1	0.036	0.036	3.460	0.087
B X C X D	1	0.051	0.051	4.860	0.048
Error A X B X C X D	12	0.126	0.011		
Total	31	1.135			

2.10 Analysis variance table for dry biomass of mung bean 2, and 4

Source	DF	SS	MS	F	P
Replication(A)	3	0.146	0.049		
Crop(B)	1	1.283	1.283	18.990	0.022
Error AXB	3	0.203	0.068		
Fertilizer(C)	1	0.544	0.544	33.350	0.001
B X C	1	0.373	0.373	22.830	0.003
Error AXBXC	6	0.098	0.016		
Residue(D)	1	0.034	0.034	1.290	0.278
B X D	1	0.018	0.018	0.690	0.422
C X D	1	0.003	0.003	0.130	0.723
B X C X D	1	0.001	0.001	0.030	0.875
Error A X B X C X D	12	0.315	0.026		
Total	31	3.018			

2.11 Analysis variance table for days to 50% flowering rice crop3 and 5

Source	DF	SS	MS	F	P
Replication(A)	3	86.590	28.860		
Crop(B)	1	1023.780	1023.780	347.290	0.000
Error AXB	3	8.840	2.950		
Fertilizer(C)	1	26.280	26.280	4.900	0.069
B X C	1	26.280	26.280	4.900	0.069
Error AXBXC	6	32.190	5.360		
Residue(D)	1	0.280	0.280	0.220	0.650
B X D	1	0.280	0.280	0.220	0.650
C X D	1	2.530	2.530	1.940	0.189
B X C X D	1	0.780	0.780	0.600	0.454
Error A X B X C X D	12	15.630	1.300		
Total	31	1223.47			

2.12 Analysis variance table for plant height rice crop3 and 5

Source	DF	SS	MS	F	P
Replication(A)	3	416.740	138.914		
Crop(B)	1	611.630	611.625	38.990	0.008
Error AXB	3	47.060	15.688		
Fertilizer(C)	1	540.380	540.383	24.630	0.003
B X C	1	21.950	21.945	1.000	0.356
Error AXBXC	6	131.640	21.940		
Residue(D)	1	38.500	38.500	1.520	0.241
B X D	1	10.240	10.238	0.400	0.537
C X D	1	43.480	43.478	1.720	0.215
B X C X D	1	8.100	8.100	0.320	0.582
Error A X B X C X D	12	303.720	25.310		
Total	31	2173.430			

2.13 Analysis variance table for panicle/hill rice crop3 and 5

Source	DF	SS	MS	F	P
Replication(A)	3	12.321	4.107		
Crop(B)	1	38.500	38.500	11.280	0.044
Error AXB	3	10.244	3.415		
Fertilizer(C)	1	20.737	20.737	12.940	0.011
B X C	1	2.333	2.333	1.460	0.273
Error AXBXC	6	9.615	1.603		
Residue(D)	1	1.066	1.066	0.760	0.399
B X D	1	0.058	0.058	0.040	0.842
C X D	1	2.634	2.634	1.890	0.194
B X C X D	1	0.495	0.495	0.360	0.562
Error A X B X C X D	12	16.722	1.394		
Total	31	114.723			

2.14 Analysis variance table for grain yield rice crop3 and 5

Source	DF	SS	MS	F	P
Replication(A)	3	4.8907	1.63023		
Crop(B)	1	2.0402	2.0402	4.43	0.1261
Error AXB	3	1.3824	0.46082		
Fertilizer(C)	1	9.7903	9.79031	31.12	0.0014
B X C	1	0.5356	0.53561	1.7	0.2397
Error AXBXC	6	1.8874	0.31456		
Residue(D)	1	1.824	1.82405	3.09	0.1044
B X D	1	0.0481	0.04805	0.08	0.7804
C X D	1	0.5995	0.59951	1.01	0.3337
B X C X D	1	0.019	0.01901	0.03	0.8606
Error A X B X C X D	12	7.0911	0.59092		
Total	31	30.1084			

2.15 Analysis variance table for straw yield rice crop3 and 5

Source	DF	SS	MS	F	P
Replication(A)	3	6.290	2.097		
Crop(B)	1	5.528	5.528	3.200	0.171
Error AXB	3	5.176	1.725		
Fertilizer(C)	1	22.311	22.311	19.480	0.005
B X C	1	3.239	3.239	2.830	0.144
Error AXBXC	6	6.873	1.146		
Residue(D)	1	3.175	3.175	4.470	0.056
B X D	1	0.357	0.357	0.500	0.492
C X D	1	0.072	0.072	0.100	0.755
B X C X D	1	0.133	0.133	0.190	0.673
Error A X B X C X D	12	8.529	0.711		
Total	31	61.683			

2.16 Analysis variance table for plant height maize crop2 and 4

Source	DF	SS	MS	F	P
Replication(A)	3	172.500	57.500		
Crop(B)	1	41.000	41.000	0.180	0.697
Error AXB	3	668.900	223.000		
Fertilizer(C)	1	11861.100	11861.100	40.760	0.001
B X C	1	54.900	54.900	0.190	0.679
Error AXBXC	6	1745.900	291.000		
Residue(D)	1	59.200	59.200	0.460	0.512
B X D	1	147.700	147.700	1.140	0.307
C X D	1	147.100	147.100	1.130	0.308
B X C X D	1	133.600	133.600	1.030	0.331
Error A X B X C X D	12	1559.600	130.000		
Total	31	16591.400			

2.17 Analysis variance table for grain yield maize crop2 and 4

Source	DF	SS	MS	F	P
Replication(A)	3	0.121	0.040		
Crop(B)	1	0.095	0.095	1.830	0.269
Error AXB	3	0.155	0.052		
Fertilizer(C)	1	1.882	1.882	107.290	0.000
B X C	1	0.002	0.002	0.120	0.740
Error AXBXC	6	0.105	0.018		
Residue(D)	1	0.245	0.245	36.780	0.000
B X D	1	0.149	0.149	22.300	0.001
C X D	1	0.140	0.140	21.090	0.001
B X C X D	1	0.070	0.070	10.560	0.007
Error A X B X C X D	12	0.080	0.007		
Total	31	3.044			

2.18 Analysis variance table for dry biomass yield maize crop2 and 4

Source	DF	SS	MS	F	P
Replication(A)	3	0.463	0.154		
Crop(B)	1	2.404	2.404	17.100	0.026
Error AXB	3	0.422	0.141		
Fertilizer(C)	1	7.249	7.249	45.830	0.001
B X C	1	0.121	0.121	0.770	0.415
Error AXBXC	6	0.949	0.158		
Residue(D)	1	0.200	0.200	2.170	0.167
B X D	1	0.167	0.167	1.810	0.204
C X D	1	0.116	0.116	1.260	0.283
B X C X D	1	0.011	0.011	0.120	0.737
Error A X B X C X D	12	1.107	0.092		
Total	31	13.207			

2.19 Analysis variance table for days to 50% flowering of rice crop3 and 5

Source	DF	SS	MS	F	P
Replication(A)	3	12.840	4.281		
Crop(B)	1	850.780	850.781	43.560	0.007
Error AXB	3	58.590	19.531		
Fertilizer(C)	1	9.030	9.031	0.820	0.400
B X C	1	108.780	108.781	9.900	0.020
Error AXBXC	6	65.940	10.990		
Residue(D)	1	2.530	2.531	0.440	0.518
B X D	1	11.280	11.281	1.980	0.185
C X D	1	9.030	9.031	1.590	0.232
B X C X D	1	11.280	11.281	1.980	0.185
Error A X B X C X D	12	68.380	5.698		
Total	31	1208.470			

2.20 Analysis variance table plant high of rice crop3 and 5

Source	DF	SS	MS	F	P
Replication(A)	3	13.480	4.490		
Crop(B)	1	568.690	568.690	83.660	0.003
Error AXB	3	20.390	6.800		
Fertilizer(C)	1	1174.910	1174.910	124.000	0.000
B X C	1	3.850	3.850	0.410	0.547
Error AXBXC	6	56.850	9.470		
Residue(D)	1	0.690	0.690	0.030	0.874
B X D	1	45.360	45.360	1.710	0.215
C X D	1	66.410	66.410	2.510	0.139
B X C X D	1	27.200	27.200	1.030	0.331
Error A X B X C X D	12	317.710	26.480		
Total	31	2295.550			

2.21 Analysis variance table for panicle/hill rice crop3 and 5

Source	DF	SS	MS	F	P
Replication(A)	3	17.040	5.680		
Crop(B)	1	58.753	58.753	25.530	0.015
Error AXB	3	6.904	2.301		
Fertilizer(C)	1	77.439	77.439	74.590	0.000
B X C	1	14.607	14.607	14.070	0.010
Error AXBXC	6	6.229	1.038		
Residue(D)	1	0.387	0.387	0.270	0.612
B X D	1	0.224	0.224	0.160	0.699
C X D	1	1.088	1.088	0.760	0.400
B X C X D	1	1.403	1.403	0.980	0.342
Error A X B X C X D	12	17.171	1.431		
Total	31	201.245			

2.22 Analysis variance table for grain yield rice crop3 and 5

Source	DF	SS	MS	F	P
Replication(A)	3	3.344	1.115		
Crop(B)	1	0.003	0.003	0.030	0.880
Error AXB	3	0.273	0.091		
Fertilizer(C)	1	27.417	27.417	63.720	0.000
B X C	1	0.151	0.151	0.350	0.575
Error AXBXC	6	2.581	0.430		
Residue(D)	1	0.661	0.661	1.770	0.208
B X D	1	0.050	0.050	0.130	0.722
C X D	1	0.245	0.245	0.660	0.433
B X C X D	1	0.050	0.050	0.130	0.722
Error A X B X C X D	12	4.471	0.373		
Total	31	39.245			

2.23 Analysis variance table for straw yield of rice crop3 and 5

Source	DF	SS	MS	F	P
Replication(A)	3	0.634	0.211		
Crop(B)	1	0.387	0.387	1.040	0.382
Error AXB	3	1.112	0.371		
Fertilizer(C)	1	52.891	52.891	103.740	0.000
B X C	1	0.794	0.794	1.560	0.259
Error AXBXC	6	3.059	0.510		
Residue(D)	1	2.928	2.928	3.930	0.071
B X D	1	0.053	0.053	0.070	0.795
C X D	1	1.280	1.280	1.720	0.215
B X C X D	1	0.525	0.525	0.700	0.418
Error A X B X C X D	12	8.947	0.746		
Total	31	72.609			

2.24 Effect interaction between crop, fertilizer, and residue on grain yield (t/ha) of rice crop2, 3, 4, 5.

Crop	Fertilizer application	Residue application		Mean	Mean Crop
		R+	R0		
Crop2	F+	1.75	1.79	1.77	
	F0	0.10	0.17	0.14	
Mean		0.93	0.98		0.95
Crop3	F+	3.64	3.22	3.43	
	F0	1.97	1.75	1.86	
Mean		2.81	2.49		2.64
Crop4	F+	1.59	1.33	1.46	
	F0	0.48	0.40	0.44	
Mean		1.04	0.87		0.95
Crop5	F+	4.56	4.21	4.39	
	F0	2.16	2.35	2.26	
Mean		3.36	3.28		3.32
Mean F	F+	2.89	2.64	2.76	
	F0	1.18	1.17	1.17	
Mean R		2.03	1.90		

LSD_{0.05} = 0.55

2.25 Effect interaction between crop, fertilizer, and residue on straw yield (t/ha) of rice crop2, 3, 4, 5.

Crop	Fertilizer application	Residue application		Mean	Mean Crop
		R+	R0		
Crop2	F+	3.75	3.86	3.81	
	F0	2.26	2.80	2.53	
Mean		3.01	3.33		3.17
Crop3	F+	3.98	3.97	3.98	
	F0	1.94	2.34	2.14	
Mean		2.96	3.16		3.06
Crop4	F+	1.98	2.22	2.10	
	F0	1.06	0.85	0.96	
Mean		1.52	1.54		1.53
Crop5	F+	5.51	4.88	5.20	
	F0	2.55	2.45	2.50	
Mean		4.03	3.67		3.85
Mean F	F+	3.81	3.73	3.77	
	F0	1.95	2.11	2.03	
Mean R		2.88	2.92		
					LSD _{0.05} 0.94

2.26. Effect interaction between crop, fertilizer, and residue on grain yield (t/ha) of rice crop 3, 5

Crop	Fertilizer Application	Residue application		Mean	Mean Crop
		R+	R0		
Crop3	F+	3.83	3.50	3.67	
	F0	2.43	3.21	2.82	
Mean		3.13	3.36		3.24
Crop5	F+	4.47	4.39	4.43	
	F0	2.70	3.42	3.06	
Mean		3.59	3.91		3.75
Mean F	F+	4.15	3.95	4.05	
	F0	2.57	3.32	2.94	
Mean R		3.36	3.63		
					LSD _{0.05} = 1.03

2.27 Effect interaction between crop, fertilizer, and residue on straw yield (t/ha) of rice crop 3, 5

Crop	Fertilizer Application	Residue application		Mean	Mean Crop
		R+	R0		
Crop3	F+	4.51	3.63	3.67	
	F0	3.44	3.00	2.82	
Mean		3.98	2.63		3.65
Crop5	F+	5.64	5.44	4.43	
	F0	3.55	2.91	3.06	
		4.60	4.18		4.39
Mean F	F+	4.39	3.68	4.05	
	F0	3.50	2.96	2.94	
Mean R		3.94	3.32		
					LSD _{0.05} = 1.45

2.28 Effect of interaction between crop, fertilizer, and residue on grain yield (t/ha) of mung bean crop 2 and 4

Crop	Fertilizer Application	Residue application		Mean	Mean Crop
		R+	R0		
Crop2	F+	0.41	0.36	0.39	
	F0	0.04	0.12	0.08	
Mean		0.23	0.24		0.23
Crop4	F+	0.38	0.09	0.24	
	F0	0.01	0.01	0.01	
		0.20	0.05		0.12
Mean F	F+	0.40	0.23	0.31	
	F0	0.03	0.07	0.05	
Mean R		0.21	0.15		
					LSD _{0.05} = 0.15

2.29 Effect of interaction between crop, fertilizer, and residue on dry biomass (t/ha) of mung bean crop 2 and 4

Crop	Fertilizer Application	Residue application		Mean	Mean Crop
		R+	R0		
Crop2	F+	0.77	0.65	0.71	
	F0	0.28	0.18	0.23	
Mean		0.53	0.42		0.47
Crop4	F+	0.12	0.07	0.10	
	F0	0.04	0.05	0.05	
Mean F		0.08	0.06		0.07
Mean F	F+	0.45	0.36	0.40	
	F0	0.16	0.12	0.14	
Mean R		0.30	0.24		
				LSD _{0.05} = 0.25	

2.30 Effect of interaction between crop, fertilizer and residue on grain yield (t/ha) rice crop3 and 5

Crop	Fertilizer Application	Residue Application		Mean	Mean Crop
		R+	R0		
Crop3	F+	4.80	4.18	4.49	
	F0	2.72	2.84	2.78	
Mean		3.76	3.51		3.64
Crop5	F+	4.77	4.46	4.62	
	F0	2.57	2.68	2.63	
Mean		3.67	3.57		3.62
Mean F	F+	4.79	4.32	4.55	
	F0	2.65	2.76	2.70	
Mean R		3.72	3.54		
				LSD _{0.05} = 0.86	

2.31 Effect of interaction between crop, fertilizer and residue on straw yield (t/ha) rice crop3 and 5

Crop	Fertilizer Application	Residue Application		Mean	Mean Crop
		R+	R0		
Crop3	F+	5.61	4.78	5.20	
	F0	3.21	2.66	2.94	
Mean		4.41	2.63		4.07
Crop5	F+	6.32	5.14	5.73	
	F0	2.77	2.91	2.84	
Mean		4.55	4.03		4.29
Mean F	F+	5.97	4.96	5.46	
	F0	2.99	2.79	2.89	
Mean R		4.48	3.87		
					LSD _{0.05} = 1.16

2.32 Effect of interaction between crop, fertilizer and residue on grain yield (t/ha) maize crop2 and 4

Crop	Fertilizer Application	Residue application		Mean	Mean Crop
		R+	R0		
Crop2	F+	0.50	0.43	0.47	
	F0	0.00	0.00	0.00	
Mean		0.25	0.22		0.23
Crop4	F+	0.86	0.32	0.60	
	F0	0.13	0.05	0.10	
		0.50	0.19		0.35
Mean F	F+	0.68	0.38	0.53	
	F0	0.07	0.03	0.05	
Mean R		0.33	0.23		
					LSD _{0.05} = 0.12

2.33 Effect of interaction between crop, fertilizer and residue on dry biomass yield (t/ha) maize crop2 and 4

Crop	Fertilizer Application	Residue application		Mean	Mean Crop
		R+	R0		
Crop2	F+	1.06	0.97	1.02	
	F0	0.15	0.22	0.19	
Mean		0.61	0.60		0.60
Crop4	F+	1.92	1.46	0.60	
	F0	0.68	0.54	0.10	
		1.30	1.00		0.35
Mean F	F+	1.49	1.22	1.35	
	F0	0.42	0.38	0.40	
Mean R		0.33	0.23		
				LSD _{0.05} =	0.50

Curriculum vitae

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