

Supplementary Table 3. Two-way analysis of variance (ANOVA) for assessing the variation in traits due to genotype and site factors between sites in each growing regions

IWR/BR, Kamal and Hisar							Kumarganj-reclaimed and Kumarganj-sodic							Malda and Pundibari sites							Abbreviations		Description
Analysis of variance							Analysis of variance							Analysis of variance									
Variate: GYO							Variate: GYO							Variate: GYO									
Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.		Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.	S.S.	0.631	Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.			
Genotype	35	251.4938	7.1855	8.69	<.001		Genotype	35	36.7878	0.4797	0.91	0.631			Genotype	35	74.5377	2.1296	2.43	<.001			
Site Name	1	234.7554	233.7554	282.81	<.001		Site Name	1	113.7338	113.7338	216.75	<.001			Site Name	1	1.4388	1.4388	1.64	0.203			
Genotype:Site Name	35	64.2658	1.8362	2.22	<.001		Genotype:Site Name	35	14.9551	0.4244	0.85	0.77			Genotype:Site Name	35	21.1255	0.6007	0.75	0.839			
Residual	216	178.5362	0.8266				Residual	216	113.3421	0.5247					Residual	216	189.1562	0.8757					
Total	287	728.0493					Total	287	258.7386						Total	287	388.2552						
Variate: TGW							Variate: TGW							Variate: TGW									
Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.		Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.	S.S.	4.28	Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.			
Genotype	35	3964.99	113.29	5.83	<.001		Genotype	35	1925.19	55.01	4.28	<.001			Genotype	35	2705.16	77.29	4.43	<.001			
Site Name	1	150.22	150.22	38.1	<.001		Site Name	1	3854.91	1854.91	144.39	<.001			Site Name	1	840.73	840.71	48.21	<.001			
Genotype:Site Name	35	1390.65	39.73	2.05	0.001		Genotype:Site Name	35	1164.51	33.28	2.59	<.001			Genotype:Site Name	35	607.86	17.37	1	0.483			
Residual	216	41.79.83	19.35				Residual	216	2774.78	12.85					Residual	216	3767.09	17.44					
Total	287	9885.69					Total	287	7719.8						Total	287	7920.93						
Variate: GWS							Variate: GWS							Variate: GWS									
Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.		Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.	S.S.	2.8	Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.			
Genotype	35	21.4847	0.6138	4.1	<.001		Genotype	35	8.10862	0.23425	2.8	<.001			Genotype	35	12.0278	0.3437	2.28	<.001			
Site Name	1	0.999	0.999	6.68	0.01		Site Name	1	9.0185	9.0185	107.93	<.001			Site Name	1	5.5288	5.5288	16.74	<.001			
Genotype:Site Name	35	3.4093	0.0974	0.65	0.935		Genotype:Site Name	35	6.21747	0.17764	2.13	<.001			Genotype:Site Name	35	2.3313	0.0666	0.44	0.997			
Residual	216	32.307	0.1496				Residual	216	18.048	0.08356					Residual	216	35.5063	0.1635					
Total	287	58.2001					Total	287	41.4826						Total	287	52.3942						
Variate: HI							Variate: HI							Variate: HI									
Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.		Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.	S.S.	1.68	Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.			
Genotype	35	9388.87	171.11	932	<.001		Genotype	35	1683.32	48.09	1.68	0.034			Genotype	35	4818.39	137.67	1.62	0.02			
Site Name	1	1550.8	1550.8	89.89	<.001		Site Name	1	106	106	3.7	0.056			Site Name	1	404.32	404.32	4.77	0.03			
Genotype:Site Name	35	1867.7	53.36	3.09	<.001		Genotype:Site Name	35	917.31	26.21	0.91	0.611			Genotype:Site Name	35	1303.21	37.23	0.44	0.998			
Residual	216	8726.38	17.25				Residual	216	6126.34	28.48					Residual	216	13858.82	64.75					
Total	287	13133.75					Total	287	8901.97						Total	287	24834.63						
Variate: PWT							Variate: PWT							Variate: PWT									
Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.		Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.	S.S.	6.68	Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.			
Genotype	35	26853.38	767.24	1.197	<.001		Genotype	35	10494.95	298.44	1.68	<.001			Genotype	35	37420.5	1069.2	6.68	<.001			
Site Name	1	3.74	3.74	0.07	0.795		Site Name	1	10821.66	10821.66	194.02	<.001			Site Name	1	4602.8	4602.8	26.78	<.001			
Genotype:Site Name	35	865.48	24.73	0.43	0.997		Genotype:Site Name	35	2724.37	77.84	1.4	0.08			Genotype:Site Name	35	8017.3	229.1	1.43	0.085			
Residual	216	11864.83	54.93				Residual	216	12047.52	55.78					Residual	216	24549	113.9					
Total	287	39587.43					Total	287	42538.5						Total	287	86489.6						
Variate: DTM							Variate: DTM							Variate: DTM									
Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.		Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.	S.S.	0.37 <th>Source of variation</th> <th>d.f.</th> <th>S.S.</th> <th>M.S.</th> <th>V.R.</th> <th>F pr.</th> <th></th> <th></th> <th></th>	Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.			
Genotype	35	1172.25	33.493	5.89	<.001		Genotype	35	543.29	15.52	0.37	1			Genotype	35	3433.4	98.1	1.83	0.005			
Site Name	1	4325.387	4325.387	729.09	<.001		Site Name	1	890.59	890.59	21.26	<.001			Site Name	1	390.00	390.00	9.94	<.001			
Genotype:Site Name	35	408.403	11.669	2.05	0.001		Genotype:Site Name	35	110.29	3.15	0.07	1			Genotype:Site Name	35	750.25	21.98	0.4	0.999			
Residual	216	1227.5	5.683				Residual	216	9139.75	42.31					Residual	216	11598	53.69					
Total	287	6993.5					Total	287	10670.91						Total	287	18986.65						
Variate: DTA							Variate: DTA							Variate: DTA									
Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.		Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.	S.S.	1.03	Source of variation	d.f.	S.S.	M.S.	V.R.	F pr.			
Genotype	35	2687.486	76.785	9.1	<.001		Genotype	35	2177.54	62.22	1.35	0.103			Genotype	35	6269.45	179.13	9.42	<.001			
Site Name	1	2346.125	2346.125	278.06	<.001		Site Name	1	65.17	65.17	1.41	0.236			Site Name	1	417.597	417.59	23.01	<.001			
Genotype:Site Name	35	35.875	1.06	0.60	0.926		Genotype:Site Name	35	1017.2	5.43	0.12	1			Genotype:Site Name	35	816.39	23.12	1.21	0.192			
Residual	216	1822.5	8.438				Residual	216	9954.25	46.08					Residual	216	4107.75	19.02					
Total	287	7051.986					Total	287	12394.16						Total	287	11631.08						