Supplementary Table 4. Data of grain mineral composition traits (mg/kg) of 36 genotypes evaluated at five sites in 2013-14 and at six sites in 2014-15. Data below limit of detection (LOD) have been replaced by half LOD values and data above mean+3*SD have been removed.

Sample	Year	Site	Rep	Genotype	Site_Name	Site Backing	ZONE	Soil	MOISTURE_MEETS_SDG_APP	Replication	Genotype2	Genotype Rank	Species	Post_Net	TGW	DM_g/ha	B	Ca	Mg	P	K	Na	Cu	Fe	Mn	Zn	Al	Cr	Co	Ni	Se	Mo	Cd	Sb	Ba	Tl	Pb	U
1	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	1	Triticum_aestivum	3	35.48	0.44	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
2	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	2	Triticum_aestivum	4	38.64	0.44	1.56E2164E05	43.9108885	9901.29972	1070.43527	1574.28934	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
3	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	3	Triticum_aestivum	5	38.64	0.44	1.56E2164E05	43.9108885	9901.29972	1070.43527	1574.28934	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
4	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	4	Triticum_aestivum	6	41.31	0.44	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
5	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	5	Triticum_aestivum	7	41.31	0.44	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
6	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	6	Triticum_aestivum	8	41.31	7.02	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
7	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	7	Triticum_aestivum	9	41.31	7.02	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
8	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	8	Triticum_aestivum	10	41.31	0.44	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
9	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	9	Triticum_aestivum	11	44.08	0.44	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
10	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	10	Triticum_aestivum	12	44.08	0.44	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
11	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	11	Triticum_aestivum	13	44.08	0.44	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
12	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	12	Triticum_aestivum	14	34.76	1.16	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
13	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	13	Triticum_aestivum	15	34.76	1.16	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
14	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	14	Triticum_aestivum	16	34.76	1.16	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
15	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	15	Triticum_aestivum	17	46.23	0.52	1.56E2164E05	1.07E3145E05	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
16	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	16	Triticum_aestivum	18	46.23	0.52	1.56E2164E05	1.07E3145E05	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
17	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	17	Triticum_aestivum	19	39.02	0.39	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
18	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	18	Triticum_aestivum	20	39.02	0.39	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
19	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	19	Triticum_aestivum	21	42.26	7.02	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
20	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	20	Triticum_aestivum	22	42.26	7.02	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
21	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	21	Triticum_aestivum	23	42.92	6.72	1.56E2164E05	49.7587709	9988.88000	5148.51325	6249.38586	1801.96160	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
22	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	22	Triticum_aestivum	24	42.92	6.72	1.56E2164E05	49.7587709	9988.88000	5148.51325	6249.38586	1801.96160	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
23	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	23	Triticum_aestivum	25	42.92	6.72	1.56E2164E05	49.7587709	9988.88000	5148.51325	6249.38586	1801.96160	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
24	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	24	Triticum_aestivum	26	42.92	6.72	1.56E2164E05	49.7587709	9988.88000	5148.51325	6249.38586	1801.96160	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
25	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	25	Triticum_aestivum	27	42.92	6.72	1.56E2164E05	49.7587709	9988.88000	5148.51325	6249.38586	1801.96160	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
26	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	26	Triticum_aestivum	28	32.92	4.68	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
27	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	27	Triticum_aestivum	29	32.92	4.68	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
28	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	28	Triticum_aestivum	30	32.92	4.68	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
29	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	29	Triticum_aestivum	31	41.79	7.06	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
30	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	30	Triticum_aestivum	32	41.79	7.06	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
31	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	31	Triticum_aestivum	33	41.79	7.06	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
32	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	32	Triticum_aestivum	34	41.79	7.06	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
33	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	33	Triticum_aestivum	35	41.79	7.06	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
34	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	34	Triticum_aestivum	36	41.79	7.06	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
35	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	35	Triticum_aestivum	37	45.00	5.06	1.56E2164E05	1.07E3145E05	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
36	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	36	Triticum_aestivum	38	38.41	6.7	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
37	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	37	Triticum_aestivum	39	38.41	6.7	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
38	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	38	Triticum_aestivum	40	38.41	6.7	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
39	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	39	Triticum_aestivum	41	38.41	6.7	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
40	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	40	Triticum_aestivum	42	38.41	6.7	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
41	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	41	Triticum_aestivum	43	38.41	6.7	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
42	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	42	Triticum_aestivum	44	38.41	6.7	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
43	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	43	Triticum_aestivum	45	42.32	9.14	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
44	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	44	Triticum_aestivum	46	42.32	9.14	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
45	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	45	Triticum_aestivum	47	42.32	9.14	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
46	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	46	Triticum_aestivum	48	42.32	9.14	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
47	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	47	Triticum_aestivum	49	42.32	9.14	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
48	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	48	Triticum_aestivum	50	42.32	9.14	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
49	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	49	Triticum_aestivum	51	45.84	6.02	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
50	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL	NOT_MEETS	DS_1	50	Triticum_aestivum	52	45.84	6.02	1.56E2164E05	49.7587709	1.07E3145E05	2.56E3	2.56E3	0.0000000E0	0.0000000E0	1.49E1441E07	1.01571233E0	1.27E2700E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0	0.0000000E0
51	2014	2014	KARNAL	KARNAL	KARNAL			4	WARM NORMAL

Samples!	Year!	Year1!	Year2!	Site_Name!	Site2014!	site2015!	Site Ranking!	ZONE!	Soil!	HOSTILE_NOT!	SOIL_ pH!	Replication!	Genotype!	Genotype Rank!	Species!	Plot_No!	TGW	GYD_t/ha
405	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	HD_2967	15	Triticum_aestivum	45	44.3	3.8
406	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	HI_1563	16	Triticum_aestivum	46	45.0	3.7
407	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	NW_4018	28	Triticum_aestivum	47	37.3	2.8
408	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	KRL_213	24	Triticum_aestivum	48	36.0	3.86
409	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	KHARCHIA_65	20	Triticum_aestivum	49	37.4	1.08
410	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	RW_3684	33	Triticum_aestivum	50	35.7	2.68
411	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	NW_4092	29	Triticum_aestivum	51	35.1	3.16
412	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	GW_322	11	Triticum_aestivum	52	39.4	3.46
413	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	UP_262	34	Triticum_aestivum	53	41.2	2.8
414	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	DBW_51	8	Triticum_aestivum	54	37.9	3.48
415	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	RAJ_4238	32	Triticum_aestivum	55	42.2	3.36
416	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	DBW_17	5	Triticum_aestivum	56	37.9	3.3
417	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	KRL_1-4	21	Triticum_aestivum	57	46.7	3.36
418	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	WH_1105	36	Triticum_aestivum	58	35.4	3.16
419	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	NW_1067	27	Triticum_aestivum	59	35.5	2.88
420	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	DBW_39	6	Triticum_aestivum	60	49.6	3.76
421	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	HD_2009	12	Triticum_aestivum	61	41.9	3.4
422	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	K_0307	19	Triticum_aestivum	62	41.0	2.9
423	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	KRL_3-4	25	Triticum_aestivum	63	33.9	1.52
424	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	PDW_314	30	Triticum_turgidum	64	46.1	2.48
425	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	KRL_210	23	Triticum_aestivum	65	32.9	3.32
426	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	HI_8498	17	Triticum_turgidum	66	48.4	2.42
427	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	DBW_46	7	Triticum_aestivum	67	45.1	4.14
428	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	RAJ_4229	31	Triticum_aestivum	68	38.1	3.6
429	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	CBW_38	2	Triticum_aestivum	69	39.3	3.68
430	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	DBW_14	3	Triticum_aestivum	70	44.6	3.16
431	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	HD_2932	14	Triticum_aestivum	71	40.1	3.2
432	2014	2014		MALDA	MALDA		5	NEPZ	NORMAL	NOT_HOSTILE	7.7	2	DBW_16	4	Triticum_aestivum	72	37.8	3.44
433	2015		2015	KARNAL		KARNAL	1	NWPZ	NORMAL	NOT_HOSTILE	7.5	1	WH_1105	36	Triticum_aestivum	1	37.5	5.908
434	2015		2015	KARNAL		KARNAL	1	NWPZ	NORMAL	NOT_HOSTILE	7.5	1	NW_4092	29	Triticum_aestivum	2	45.7	5.852
435	2015		2015	KARNAL		KARNAL	1	NWPZ	NORMAL	NOT_HOSTILE	7.5	1	DBW_16	4	Triticum_aestivum	3	40.9	5.16
436	2015		2015	KARNAL		KARNAL	1	NWPZ	NORMAL	NOT_HOSTILE	7.5	1	NW_4018	28	Triticum_aestivum	4	47.2	5.852
437	2015		2015	KARNAL		KARNAL	1	NWPZ	NORMAL	NOT_HOSTILE	7.5	1	HD_2733	13	Triticum_aestivum	5	55.3	4.108
[illegible]																		

Samples!	B	Na	Mg	P	S	K	Ca	Ti	Li	Be	Al	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Se	Rb	Sr	Mo	Ag	Cd	Cs	Ba	Tl	Pb	U
405	1.346226465	49.53407069	1196.936936	3265.027595	1273.105027	3768.942764	350.5153499	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	39.77998867	35.66385845	0.027737159	0.516801721	3.736578851	31.14091034	0.008970162	0.080280921	9.937028647	1.589704204	0.330294025	0.006342015	0.017057123	0.0122879	5.709420627	0.000522746	0.032992059	0.002621754
406	1.346226465	49.53407069	1165.532223	2984.662344	1304.436819	3284.099128	394.0774919	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	35.99208159	42.28052481	0.027737159	0.516801721	4.616369015	23.77837687	0.002818625	0.049729341	7.4948316	1.864826464	0.204183911	0.006342015	0.040241833	0.009851856	6.903920717	0.000522746	0.032992059	0.002621754
407	1.346226465	49.53407069	950.4877691	3076.782558	1183.096923	3517.559155	261.0192995	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	34.93928702	31.83972208	0.027737159	0.516801721	3.449962211	21.20655181	0.002818625	0.068074241	8.398062781	1.206515499	0.360437698	0.006342015	0.017057123	0.00694108	3.954207617	0.000522746	0.032992059	0.002621754
408	1.346226465	49.53407069	947.2691617	3193.229595	1204.070292	3919.777172	299.5540135	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	34.16399863	30.9111227	0.027737159	0.516801721	3.492116115	22.67617237	0.002818625	0.059180507	7.454750839	1.608537982	0.273411264	0.016040998	0.017057123	0.005088405	5.664067076	0.000522746	0.032992059	0.002621754
409	1.346226465	49.53407069	1214.844391	3168.73113	1346.884262	4449.412817	356.7546377	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	38.28308728	43.84626059	0.027737159	0.516801721	4.11549715	23.11741393	0.002818625	0.042353545	11.13869122	1.373376756	0.179377673	0.006342015	0.039138512	0.011250676	4.495334086	0.000522746	0.032992059	0.002621754
410	1.346226465	49.53407069	851.2288645	2907.719178	1184.363554	3791.999923	262.6681184	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	40.09418459	36.84709396	0.027737159	0.516801721	3.110910777	19.87026592	0.002818625	0.05683191	10.91507577	1.333306049	0.208562506	0.006342015	0.017057123	0.01178555	3.457824435	0.000522746	0.032992059	0.002621754
411	1.346226465	49.53407069	1132.102747	3737.981282	1432.793994	4142.354692	333.460054	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	35.47152457	35.99517023	0.027737159	0.516801721	3.956085594	26.53043996	0.012870481	0.075206754	11.30117059	1.488621306	0.247177642	0.006342015	0.017057123	0.013019231	4.141817298	0.000522746	0.032992059	0.002621754
412	1.346226465	49.53407069	1006.255443	2855.932252	1188.2294	3784.464115	335.9325306	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	35.71565032	34.15836176	0.027737159	0.516801721	3.998843332	24.2364279	0.002818625	0.043538287	9.594793512	1.545182035	0.264905143	0.006342015	0.017057123	0.010693063	4.900715495	0.000522746	0.032992059	0.002621754
413	1.346226465	49.53407069	1270.104522	3463.985338	1413.380408	3936.70526	355.3491144	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	42.48114603	37.15873912	0.027737159	0.516801721	4.344385726	25.78398483	0.011423573	0.057077859	8.869776544	1.393270034	0.303136188	0.006342015	0.017057123	0.013483534	4.020613409	0.000522746	0.032992059	0.002621754
414	1.346226465	49.53407069	972.2716759	3147.779812	1025.516253	3412.149013	299.3895306	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	33.32018094	28.85225913	0.027737159	0.516801721	3.024336816	22.33096481	0.002818625	0.063403875	6.432173667	1.468697347	0.234988769	0.006342015	0.017057123	0.00563549	5.481196559	0.000522746	0.032992059	0.002621754
415	1.346226465	49.53407069	1167.783068	3280.290881	1297.172372	4043.269639	298.0118376	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	33.6164625	38.56144075	0.027737159	0.516801721	3.637612058	22.01655776	0.011234406	0.060111168	7.848807534	1.343392019	0.243503352	0.006342015	0.043432875	0.009476548	5.204284951	0.000522746	0.032992059	0.002621754
416	1.346226465	49.53407069	1277.164179	4547.169209	1503.852524	4552.429574	263.2542641	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	44.90488962	38.52077523	0.027737159	0.516801721	3.647618115	33.65984934	0.002818625	0.049077506	10.94450356	1.630680639	0.228638544	0.006342015	0.04447965	0.012066627	5.470976134	0.000522746	0.032992059	0.002621754
417	1.346226465	49.53407069	1253.065483	3326.445247	1571.730261	3996.680705	312.7960171	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	38.5811878	23.39135008	0.027737159	0.516801721	3.038217344	28.48961731	0.01617436	0.038205484	9.87525658	1.200597538	0.338388505	0.006342015	0.045536554	0.015717923	3.58071368	0.000522746	0.032992059	0.002621754
418	1.346226465	49.53407069	1128.675982	2976.418253	1331.959585	3627.0827	381.8812322	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	37.6734404	31.01254728	0.027737159	0.516801721	4.282382657	24.13690255	0.002818625	0.072337432	9.416955576	1.705590505	0.275017384	0.006342015	0.017057123	0.013399015	4.157897693	0.000522746	0.032992059	0.002621754
419	1.346226465	49.53407069	967.7732402	3136.587313	1253.704963	4371.681629	383.1773041	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	35.22220217	34.29237398	0.027737159	0.516801721	3.575943326	19.50328071	0.002818625	0.074923548	8.059575318	1.693071823	0.222485399	0.006342015	0.017057123	0.005725427	4.985234079	0.000522746	0.032992059	0.002621754
420	1.346226465	49.53407069	1215.427632	3632.592911	1270.620637	4113.958032	251.8814922	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	38.2234798	33.54960489	0.027737159	0.516801721	3.631192434	32.58331917	0.008083965	0.118939872	6.824306107	1.250406367	0.422766072	0.013119812	0.017057123	0.005252764	4.754088287	0.000522746	0.032992059	0.002621754
421	1.346226465	49.53407069	1064.874258	3074.166924	1389.033218	3384.543739	357.8446143	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	34.39407955	36.22204462	0.027737159	0.516801721	3.494295797	20.51083234	0.012017789	0.075491854	9.820596794	1.212615367	0.215638279	0.006342015	0.017057123	0.013721659	2.163648772	0.000522746	0.032992059	0.002621754
422	1.346226465	49.53407069	1418.268716	4256.241545	1556.059777	4849.686431	342.6957034	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	50.52284822	41.46853908	0.027737159	0.516801721	4.402018623	38.92123215	0.002818625	0.083136754	12.03681607	1.635124854	0.325330821	0.006342015	0.039745536	0.01689793	4.315743022	0.000522746	0.032992059	0.002621754
423	1.346226465	49.53407069	1450.252023	4577.964295	1646.29013	4294.350525	375.8183386	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	46.0500176	44.06524777	0.027737159	0.516801721	3.625384906	39.02010668	0.007470384	0.088408515	15.74152203	1.519560122	0.279817433	0.006342015	0.062436964	0.019829571	3.36951677	0.000522746	0.032992059	0.002621754
424	1.346226465	49.53407069	958.0117971	3357.129956	1210.753983	3768.977942	307.0176379	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	26.42616976	29.72029377	0.027737159	0.516801721	4.395637985	28.41452172	0.007051216	0.108599458	9.685096866	0.551870877	0.37470532	0.006342015	0.085156364	0.014679659	2.135320149	0.000522746	0.032992059	0.002621754
425	1.346226465	49.53407069	1042.123414	2994.505093	1155.542509	3647.871998	310.4493428	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	42.93640554	33.93339778	0.027737159	0.516801721	3.643023424	23.14760618	0.002818625	0.059800981	9.355316118	1.630228471	0.24664797	0.015775829	0.017057123	0.009774293	4.445294303	0.000522746	0.032992059	0.002621754
426	1.346226465	49.53407069	910.041882	3252.360052	1022.374091	3888.968034	235.4916564	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	27.07488328	29.32457852	0.027737159	0.516801721	4.050041971	27.25681771	0.002818625	0.100087507	7.536468491	0.463369544	0.242558717	0.006342015	0.017057123	0.010007061	2.397146139	0.000522746	0.032992059	0.002621754
427	1.346226465	49.53407069	1036.545616	3284.321804	1108.217524	3508.76029	350.7340059	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	32.32035751	31.71258565	0.027737159	0.516801721	2.697399025	22.16299009	0.010718238	0.060661303	8.315588427	1.374932857	0.173891898	0.006342015	0.017057123	0.00881727	4.057932041	0.000522746	0.032992059	0.002621754
428	1.346226465	49.53407069	1045.587364	2885.185523	1261.393164	3901.838432	288.7078737	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	29.3314528	34.70397291	0.027737159	0.516801721	3.742955276	18.50967569	0.014306762	0.056633528	6.841259565	1.082262648	0.191238213	0.006342015	0.017057123	0.007766393	4.978553374	0.000522746	0.032992059	0.002621754
429	1.346226465	49.53407069	958.1290476	2872.815317	997.1880109	3453.776578	230.3676774	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	37.07315977	29.82917387	0.027737159	0.516801721	3.213692196	22.03858869	0.006627747	0.073592785	8.258772814	0.987790546	0.355603474	0.006342015	0.017057123	0.007714388	4.080187407	0.000522746	0.032992059	0.002621754
430	1.346226465	49.53407069	909.3893743	2829.493017	1008.639478	3048.053807	213.5928178	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	33.4275652	28.07504412	0.027737159	0.516801721	3.28014563	23.31507451	0.002818625	0.079492562	6.989255746	0.980813843	0.2809749	0.006342015	0.017057123	0.008754556	4.458233871	0.000522746	0.032992059	0.002621754
431	1.346226465	49.53407069	1048.573562	3005.039776	1266.50208	3939.590196	384.4513516	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	43.00588624	32.72411087	0.027737159	0.516801721	3.684274567	22.01136106	0.002818625	0.063604135	8.153068197	1.412527239	0.245985471	0.006342015	0.036671104	0.009369042	5.491434916	0.000522746	0.032992059	0.002621754
432	1.346226465	49.53407069	392.1943426	1282.732262	412.9787826	1556.079138	93.31501484	52.57059352	0.004943965	0.000391782	6.995184247	0.005652759	1.074675385	12.64165614	6.427420167	0.027737159	0.516801721	0.651169357	10.19900738	0.002818625	0.014843469	2.572803976	0.304696326	0.055700032	0.006342015	0.017057123	0.001235517	1.436995796	0.000522746	0.032992059	0.002621754
433	1.346226465	49.53407069	1301.447653	3610.369649	1676.641851	4304.917176	494.0357881	52.57059352	0.020784397	0.000391782	26.38114376	0.013912176	1.074675385	36.29373292	45.47852902	0.066729881	0.516801721	4.386458468	30.08011517	0.017653358	0.105651482	12.36981259	6.03746162	0.84027468	0.006342015	0.040573597	0.020459009	4.662352829	0.000522746	0.216326115	0.002621754
434	1.346226465	49.53407069	1579.438019	4343.045409	1796.849837	4120.218048	461.3576623	52.57059352	0.021543485	0.000391782	6.995184247	0.005652759	1.074675385	30.67206834	42.86202378	0.027737159	0.516801721	4.446503554	36.77162163	0.011742788	0.127081413	11.58068925	4.305594678	1.105558983	0.006342015	0.035117366	0.019926212	3.187224796	0.000522746	0.032992059	0.002621754
435	1.346226465	49.53407069	1212.885186	3644.446856	1402.511651	3968.307495	398.6867677	52.57059352	0.0142824	0.000391782	6.995184247	0.012156464	1.074675385	36.60110989	50.97247131	0.027737159	0.516801721	4.733727795	38.01765001	0.013593346	0.124421095	10.96888912	3.418319778	0.968472393	0.006342015	0.036254299	0.017833969	3.157430774	0.000522746	0.032992059	0.002621754
436	1.346226465	49.53407069	1188.544784	3485.620586	1716.635488	4175.052874	365.0122702	52.57059352	0.01126868	0.000391782	6.995184247	0.005652759	1.074675385	40.53053433	53.92927821	0.027737159	0.516801721	4.214940265	33.12267549	0.018809847	0.126275534	13.88196576	3.781997657	1.071082279	0.006342015	0.037417173	0.017332747	3.286277032	0.000522746	0.032992059	0.002621754
437	1.346226465	49.53407069	1204.821996	3431.768999	1551.98931	4181.516043	468.8741738	52.57059352	0.019062448	0.000391782	6.995184247	0.005652759	1.074675385	38.04451532	45.36512188	0.027737159	0.516801721	3.563915617	31.17732951	0.021903508	0.14201902	12.95536079	5.422792754	0.787728503	0.006342015	0.045984823	0.019898396	5.002616904	0.000522746	0.032992059	0.002621754
[illegible]																															

Sampler	Year	Year2	Year3	Site_Name	Site2010	site2010	Site Ranking	Zone2	Sect	HUC14_NET	SDG_pH	Replicates	Genus	Genus+Form	Species	Plot_Nat	TLTM	EPO_dTha	A	Ca	Mg	P	S	Na	K	Cl	Mn	Fe	Cu	Zn	Al	As	Cr	Ni	Pb	Se	Sr	Mo	Cd	Co	Ba	Ti	Pd	V
852	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	1	M_ORI	M	Tetrazum_paucifolium	26	14.2	0.0	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
853	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	1	Ulo_Ca	Ca	Tetrazum_paucifolium	24	22.1	0.02	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
854	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	1	Ulo_Ca	Ca	Tetrazum_paucifolium	24	14.2	0.0	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
855	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	1	Ulo_Ca	Ca	Tetrazum_paucifolium	24	22.1	0.02	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
856	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	1	Ulo_Ca	Ca	Tetrazum_paucifolium	24	22.1	0.02	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
857	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	1	Ulo_Ca	Ca	Tetrazum_paucifolium	24	22.1	0.02	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
858	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	1	Ulo_Ca	Ca	Tetrazum_paucifolium	24	22.1	0.02	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
859	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	1	Ulo_Ca	Ca	Tetrazum_paucifolium	24	22.1	0.02	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
860	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	1	Ulo_Ca	Ca	Tetrazum_paucifolium	24	22.1	0.02	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
861	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	2	M_ORI	M	Tetrazum_paucifolium	26	14.2	0.0	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
862	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	1	Ulo_Ca	Ca	Tetrazum_paucifolium	24	22.1	0.02	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
863	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	2	M_ORI	M	Tetrazum_paucifolium	26	14.2	0.0	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
864	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	2	Ulo_Ca	Ca	Tetrazum_paucifolium	24	22.1	0.02	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
865	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	2	Ulo_Ca	Ca	Tetrazum_paucifolium	24	22.1	0.02	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
866	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	2	Ulo_Ca	Ca	Tetrazum_paucifolium	24	22.1	0.02	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
867	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	2	Ulo_Ca	Ca	Tetrazum_paucifolium	24	22.1	0.02	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
868	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	2	M_ORI	M	Tetrazum_paucifolium	26	14.2	0.0	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
869	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	1	Ulo_Ca	Ca	Tetrazum_paucifolium	24	22.1	0.02	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
870	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	1	Ulo_Ca	Ca	Tetrazum_paucifolium	24	22.1	0.02	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
871	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	2	M_ORI	M	Tetrazum_paucifolium	26	14.2	0.0	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
872	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	2	Ulo_Ca	Ca	Tetrazum_paucifolium	24	22.1	0.02	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
873	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	2	Ulo_Ca	Ca	Tetrazum_paucifolium	24	22.1	0.02	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2
874	2001	2000		NABLUS4		NABLUS4	5	NATIVE	NORMAL	NET_POSTLF	77	2	Ulo_Ca	Ca	Tetrazum_paucifolium	24	22.1	0.02	1.56E2E6E5	49.7E6E7E8E	6657.3E7E8E	1577.9E6E5E	1657.4E7E8E	1651.3E6E6E	12.7E5E9E2	0.0E0E0E0E	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2	0.0E0E0E7E2