

10.1071/CP12126

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Supplementary Material: *Crop & Pasture Science*, 2012, **63**(8&9), 833–839.

Table S1. Statistical data of the ecological variables for the whole collection, first subset, core of 19, final core of 30, and a random core collection. Traits in bold show the best validation results.

	RF	ST	pH	AT	MTR	IT	TS*	TWM	TCM	TAR	TTQ	TMQ	TCQ	AP	PDM	PWQ	PDQ	PCQ
Original collection																		
Variance	37899	0.86	0.99	200.3	716.8	56.82	839	567.5	575.6	1732	536.4	207.1	418.1	30016	12.08	9838	258.11	10500
Mode	450	2.00	6.00	181.0	56.0	30.00	5.03	280	85	195	117.0	242.0	115.0	431	0.00	233	4.00	202
Median	500	2.00	7.00	175.0	80.0	35.00	5.16	291	68	230	117.0	240.0	113.0	495	1.00	235	9.00	207
Max	1400	5.00	9.50	208.0	168.0	75.00	7.96	365	132	356	191.0	278.0	176.0	1281	18.00	721	74.00	721
Min	130	1.00	5.00	128.0	55.0	29.00	1.38	242	12	141	46.0	182.0	46.0	124	0.00	73	0.00	16
Range	1270	4.00	4.50	80.0	113.0	46.00	6.57	123	144	215	145.0	96.0	130.0	1157	18.00	648	74.00	705
Mean	531	2.24	6.90	170.7	86.8	36.33	5.23	297.7	64.4	233	116.7	238.5	106.0	535	2.34	268	15.93	240
Mean-Median	31	0.24	0.10	4.3	6.8	1.33	0.07	6.7	3.6	3	0.3	1.5	7.0	40	1.34	33	6.93	33
First sub-set																		
Variance	46010	1.03	1.19	208.6	780.8	86.43	1286	576.7	644.7	1844	693.5	257.7	524.2	31195	13.43	10370	267.75	11910
Mode	450	2.00	6.00	178.0	56.0	30.00	5.03	280	85	195	117.0	242.0	115.0	431	0.00	233	4.00	202

Median	500	2.00	7.00	175.5	77.0	33.50	5.12	286	68	224	119.5	238.0	113.0	469	1.00	235	8.00	202
Max	1400	5.00	9.50	197.0	166.0	75.00	7.96	360	132	340	191.0	272.0	176.0	1177	18.00	667	62.00	667
Min	130	1.00	5.00	135.0	56.0	29.00	1.38	242	12	141	46.0	182.0	46.0	124	0.00	73	0.00	16
Range	1270	4.00	4.50	62.0	110.0	46.00	6.58	118	144	199	145.0	90.0	130.0	1053	18.00	594	62.00	651
Mean	527	2.29	6.97	169.9	86.1	36.82	5.11	294.1	65	229	119.8	236.2	106.9	516	2.61	260	16.36	226
Mean-Median	27	0.29	0.03	5.6	9.1	3.32	0.007	8.1	3	6	0.3	1.8	6.1	47	1.61	25	8.36	24

Core 30

Variance	27229	1.33	1.03	257.2	1082.5	196.57	2199	532.9	660.6	1667	665.0	385.8	738.5	21899	12.71	11241	286.88	10208
Mode	450	2.00	7.00	184.0	56.0	32.00	#N/A	281	62	225	128.0	229.0	113.0	#N/A	0.00	#N/A	4.00	202
Median	450	2.00	6.70	172.5	82.0	37.50	5.04	284	63	224	130.0	229.5	114.0	460	1.00	229	7.50	175
Max	800	5.00	9.00	196.0	166.0	75.00	6.61	359	132	333	191.0	261.0	176.0	763	13.00	480	55.00	480
Min	140	1.00	5.50	135.0	56.0	29.00	1.41	251	3	141	97.0	182.0	57.0	124	0.00	73	0.00	16
Range	660	4.00	3.50	61.0	110.0	46.00	5.2	108	129	192	94.0	79.0	119.0	639	13.00	407	55.00	464
Mean	472	2.67	6.80	170.4	94.1	41.67	4.52	290.9	66.8	224	137.3	230.1	115.6	466	2.67	239	16.53	172
Mean-Median	22	0.67	0.10	2.1	12.1	4.17	0.52	6.9	3.8	1	7.3	0.6	1.6	6	1.67	10	9.03	3

Core 19

Variance	25168	1.50	0.94	280.8	1082.0	242.34	2280	394.5	462.8	840	562.8	492.7	720.7	19981	8.41	9470	233.58	7395
Mode	550	2.00	7.00	150.0	56.0	32.00	#N/A	281	56	197	127.0	247.0	118.0	#N/A	0.00	#N/A	4.00	222
Median	425	2.00	7.00	177.0	74.0	35.50	4.94	281	73	212	137.5	229.5	120.5	463	0.50	234	7.50	158
Max	650	5.00	8.70	196.0	166.0	75.00	5.67	325	132	245	189.0	260.0	176.0	659	10.00	443	55.00	318
Min	140	1.00	5.50	138.0	56.0	29.00	1.43	251	50	141	114.0	182.0	78.0	124	0.00	73	0.00	16

Range	510	4.00	3.20	58.0	110.0	46.00	4.25	74	82	104	75.0	78.0	98.0	535	10.00	370	55.00	302
Mean	423	2.50	6.73	173.1	87.4	41.89	4.17	283.8	76.7	207	145.7	228.2	122.7	453	2.06	236	14.06	155
Mean-Median	2	0.50	0.27	3.9	13.4	6.39	0.77	2.8	3.7	5	8.2	1.3	2.2	10	1.56	3	6.56	3
Random core																		
Variance	48262	1.05	1.00	158.3	758.0	72.65	1170	546.4	654.4	1869	508.1	276.3	431.2	18998	5.17	9212	155.56	10724
Mode	350	3.00	7.00	181.0	56.0	30.00	4.9	309	85	188	117.0	242.0	114.0	461	0.00	243	4.00	215
Median	450	2.00	7.00	178.0	82.0	36.00	5.03	288	72	231	117.0	241.5	114.0	460	0.00	235	6.00	203
Max	1070	4.00	9.00	183.0	153.0	71.00	7.6	360	110	319	173.0	269.0	146.0	744	9.00	479	52.00	479
Min	325	1.00	5.00	135.0	56.0	29.00	1.57	258	3	155	67.0	182.0	57.0	245	0.00	119	0.00	17
Range	745	3.00	4.00	48.0	97.0	42.00	6.02	102	107	164	106.0	87.0	89.0	499	9.00	360	52.00	462
Mean	533	2.38	6.94	172.2	86.3	36.63	5.17	295.1	64.7	230	116.2	238.2	107.4	479	1.27	254	10.57	224
Mean-Median	83	0.38	0.06	5.8	4.3	0.63	0.14	7.1	7.3	0	0.8	3.3	6.6	19	1.27	19	4.57	21

* × 10³

Table S2. Statistical data of the agro-morphological variables for the whole collection, first subset, core of 19, final core of 30, and a random core collection. Traits in bold show the best validation results.

	FC	FF	FT	PL	PC	CSD	PW	TL	NS	SW	BS	YS	GS	WS	VFS	FS	AS	MS
Original collection																		
Variance	3.10	143	135.0	32.93	0.04	0.02	1.57	1.09	7.25	0.14	0.02	0.04	0.04	0.21	0.16	0.17	0.23	0.13
Mode	4.00	116	125.0	27.78	#N/A	#N/A	6.63	0.00	15.75	1.36	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00
Median	4.00	117	122.6	28.42	0.64	0.16	7.34	2.82	16.75	1.60	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00
Max	8.00	146	152.2	45.18	0.98	0.78	11.80	6.68	23.46	2.67	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Min	1.00	52	68.4	15.38	0.13	0.01	4.66	0.00	9.83	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Range	7.00	94	83.8	29.81	0.85	0.77	7.14	6.68	13.63	2.04	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Mean	3.63	117	121.7	29.40	0.64	0.18	7.66	3.06	17.12	1.62	0.02	0.96	0.05	0.70	0.20	0.22	0.37	0.15
Mean-Median	0.37	0	1.0	0.98	0.00	0.02	0.32	0.24	0.37	0.02	0.02	0.04	0.05	0.30	0.20	0.22	0.37	0.15
First sub-set																		
Variance	3.43	244	201.6	35.56	0.04	0.02	1.77	1.40	8.28	0.15	0.04	0.06	0.06	0.20	0.15	0.17	0.22	0.13

Mode	4.00	116	125.0	35.28	#N/A	#N/A	7.35	0.00	15.75	2.09	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00
Median	4.00	117	122.1	28.42	0.62	0.16	7.25	2.71	16.75	1.63	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00
Max	8.00	146	152.2	45.18	0.98	0.78	11.80	6.68	23.46	2.67	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Min	1.00	52	68.4	15.38	0.22	0.01	5.31	0.00	9.83	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Range	7.00	94	83.8	29.81	0.76	0.77	6.49	6.68	13.63	2.04	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Mean	3.64	115	120.5	28.95	0.64	0.19	7.59	2.98	17.02	1.64	0.04	0.94	0.07	0.73	0.18	0.21	0.32	0.15
Mean-Median	0.36	2	1.6	0.54	0.02	0.03	0.34	0.27	0.27	0.01	0.04	0.06	0.07	0.27	0.18	0.21	0.32	0.15

Core 30

Variance	2.60	556	414.8	40.14	0.04	0.02	1.41	1.64	14.06	0.17	0.12	0.12	0.03	0.06	0.03	0.06	0.25	0.03
Mode	4.00	117	124.0	#N/A	#N/A	#N/A	#N/A	0.00	21.75	#N/A	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00
Median	4.00	117	122.1	25.27	0.64	0.16	7.11	2.53	15.99	1.43	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00
Max	8.00	146	149.8	40.12	0.92	0.78	10.70	5.65	22.50	2.26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Min	1.00	52	68.4	15.38	0.30	0.04	5.31	0.00	9.83	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Range	7.00	94	81.4	24.74	0.62	0.74	5.39	5.65	12.67	1.62	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Mean	3.43	109	115.9	25.80	0.62	0.19	7.08	2.41	16.39	1.48	0.13	0.87	0.03	0.93	0.03	0.07	0.43	0.03
Mean-Median	0.57	8	6.2	0.54	0.02	0.03	0.03	0.11	0.40	0.04	0.13	0.13	0.03	0.07	0.03	0.07	0.43	0.03

Core 19

Variance	2.97	655	493.6	31.44	0.03	0.01	0.82	1.57	10.39	0.16	0.15	0.15	0.06	0.06	0.00	0.06	0.26	0.00
Mode	4.00	111	#N/A	#N/A	#N/A	#N/A	#N/A	0.00	16.25	#N/A	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00
Median	4.00	117	121.3	23.99	0.68	0.14	6.94	2.49	15.99	1.46	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00
Max	8.00	130	136.0	35.43	0.88	0.38	8.94	3.96	22.50	2.26	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00

Min	1.00	52	68.4	17.21	0.30	0.06	5.44	0.00	10.64	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Range	7.00	78	67.6	18.21	0.58	0.32	3.50	3.96	11.86	1.62	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00
Mean	3.56	104	112.7	24.40	0.66	0.15	6.98	2.18	15.83	1.50	0.17	0.83	0.06	0.94	0.00	0.06	0.44	0.00
Mean-Median	0.44	13	8.6	0.40	0.02	0.01	0.04	0.30	0.15	0.04	0.17	0.17	0.06	0.06	0.00	0.06	0.44	0.00
Random core																		
Variance	3.15	238	192.0	32.38	0.04	0.03	1.92	1.48	8.71	0.18	0.03	0.09	0.06	0.19	0.17	0.14	0.20	0.12
Mode	4.00	116	125.0	#N/A	#N/A	#N/A	#N/A	#N/A	16.25	#N/A	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00
Median	4.00	118	122.3	26.65	0.62	0.16	7.04	2.56	16.25	1.75	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00
Max	8.00	146	149.8	38.47	0.96	0.78	11.80	6.68	22.25	2.43	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Min	1.00	52	68.4	17.21	0.27	0.02	5.51	0.00	10.64	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Range	7.00	94	81.4	21.26	0.69	0.76	6.29	6.68	11.61	1.59	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Mean	3.47	117	121.1	28.05	0.62	0.20	7.42	2.90	16.82	1.63	0.03	0.90	0.07	0.77	0.20	0.17	0.27	0.13
Mean-Median	0.53	1	1.1	1.40	0.00	0.05	0.38	0.35	0.57	0.11	0.03	0.10	0.07	0.23	0.20	0.17	0.27	0.13
