

Table S1. Comprehensive evaluation and ranking of membership functions of 36 *Elymus sibiricus* phenotypic data.

Sample ID	Membership function values of REC	Membership function values of PS	Membership function values of RWC	average	Order	Sample ID	Membership function values of REC	Membership function values of PS	Membership function values of RWC	Average	Order
GS002-17	0.16	0.27	0.47	0.30	32	SC012-9	0.60	0.45	0.50	0.52	20
GS003-28	0.61	0.49	0.78	0.62	10	SC015-5	0.51	0.36	0.57	0.48	26
GS008-39	0.34	0.79	0.95	0.69	6	W10-34	0.52	0.29	0.61	0.48	27
GS012-20	0.79	0.69	0.84	0.77	4	W16-29	0.01	0.06	0.00	0.02	37
HB001-1	0.46	0.39	0.69	0.51	22	W20-4	0.36	0.38	0.49	0.41	29
HB003-9	0.60	0.68	0.79	0.69	7	W22-11	0.72	0.86	0.83	0.80	3
HB006-22	0.30	0.21	0.26	0.26	33	W26-29	0.16	0.61	0.35	0.37	30
HB008-1	0.06	0.27	0.19	0.17	35	XJ001-17	0.50	0.67	0.43	0.53	18
NM004-1	0.53	0.53	0.52	0.53	19	XJ003-26	0.75	0.40	0.64	0.60	13
NM009-14	0.51	0.47	0.64	0.54	17	XJ010-11	0.54	0.39	0.55	0.49	25
NM012-25	0.38	0.09	0.58	0.35	31	XJ013-28	0.76	0.25	0.63	0.55	16
NM017-26	0.67	0.54	0.62	0.61	12	XJ023-23	0.75	0.42	0.71	0.62	11
NM030-17	0.46	0.64	0.57	0.56	15	XJ029-26	0.90	0.91	0.83	0.88	2
QH001-21	0.81	0.57	0.77	0.72	5	XJ030-21	0.80	1.00	1.00	0.93	1
QH003-19	0.64	0.26	0.60	0.50	24	XZ003-12	0.37	0.00	0.24	0.20	34
QH004-36	0.72	0.41	0.84	0.66	8	XZ007-5	0.66	0.60	0.49	0.59	14
SC006-4	0.77	0.26	0.52	0.52	21	XZ012-16	0.57	0.21	0.59	0.45	28
SC007-27	0.71	0.61	0.59	0.64	9	XZ018-5	0.23	0.02	0.21	0.15	36
SC011-4	0.74	0.17	0.60	0.50	23						