

Select specific variables and compute statistics by levels of a factor variable for environment factor

Environment	Variable	CV	Max	Mean	Median	Min	Sd.amo	SE	CI
BT18	EL	7.05	19.6	16.7	16.8	14.2	1.18	0.16	0.31
BT18	GY	9.5	11.2	9.43	9.44	7.41	0.90	0.12	0.24
BT18	HSW	11.4	43.5	34.8	35	24.8	3.95	0.52	1.05
BT19	EL	7.2	20.3	16.8	16.9	14.2	1.21	0.16	0.32
BT19	GY	9.51	10.1	8.45	8.46	6.64	0.80	0.11	0.21
BT19	HSW	11.6	47.4	37.1	36.6	27.2	4.29	0.57	1.14
FC18	EL	7.72	22.2	18.5	18.4	16.2	1.43	0.19	0.38
FC18	GY	9.75	16.1	13	13	10.4	1.27	0.17	0.34
FC18	HSW	12.7	51.6	40.7	40.8	29.8	5.15	0.68	1.37
FC19	EL	8.14	21.4	18.4	18	15.6	1.49	0.20	0.40
FC19	GY	11.7	17.6	13.5	13.3	10.6	1.59	0.21	0.42
FC19	HSW	13.6	56.5	43.5	43.2	32.6	5.90	0.78	1.56
FP18	EL	6.89	20.6	18.3	18.5	15.9	1.26	0.17	0.34
FP18	GY	10.3	13.2	10.8	10.9	8.11	1.11	0.15	0.29
FP18	HSW	14.2	43	34	34.4	23	4.81	0.64	1.28
FP19	EL	7.59	21	18.2	18.5	15.3	1.38	0.18	0.37
FP19	GY	12.7	14.4	11.2	11.1	7.85	1.42	0.19	0.38
FP19	HSW	15.1	47.1	36.3	36.3	25.2	5.49	0.73	1.46
FX18	EL	5.06	21.7	18.9	18.9	17.4	0.96	0.13	0.25
FX18	GY	10.3	13.3	10.6	10.6	8.18	1.09	0.15	0.29
FX18	HSW	15.6	46.3	34.1	34.4	24	5.31	0.70	1.41
FX19	EL	7.34	23.2	18.8	18.6	16.8	1.38	0.18	0.37
FX19	GY	10.3	13.8	11.1	11	8.53	1.14	0.15	0.30
FX19	HSW	17	50.4	36.4	36.7	25	6.20	0.82	1.64
GC18	EL	7.28	21.9	18.5	18.2	15.7	1.34	0.18	0.36
GC18	GY	9.13	11.3	9.35	9.27	7.83	0.85	0.11	0.23
GC18	HSW	8.24	39.8	34.5	34.6	26.3	2.84	0.38	0.75
GC19	EL	7.6	22.3	18.6	18.3	15.9	1.41	0.19	0.38
GC19	GY	11.3	12.2	9.69	9.64	7.56	1.10	0.15	0.29
GC19	HSW	10.7	43.6	36.9	37	28.4	3.94	0.52	1.05
GX18	EL	11.1	22.5	18.5	18.4	14.3	2.07	0.27	0.55
GX18	GY	16	13.5	10.6	10.8	6.18	1.68	0.22	0.45
GX18	HSW	13.4	38.8	31.2	31.8	20.9	4.16	0.55	1.10
GX19	EL	11.3	22.5	18.4	17.8	14.5	2.08	0.28	0.55
GX19	GY	17.3	14.8	10.9	11.2	6.29	1.89	0.25	0.50
GX19	HSW	14.9	42.4	33.3	34.3	22.9	4.97	0.66	1.32
HD18	EL	8.87	21.8	17.4	17.4	14.3	1.55	0.21	0.41
HD18	GY	11.5	10.7	8.84	8.94	6.31	1.02	0.14	0.27
HD18	HSW	9.57	40.1	32.1	32.2	25.2	3.07	0.41	0.82
HD19	EL	9.63	22.3	17.6	17.6	14.2	1.69	0.22	0.45
HD19	GY	12.6	11.7	9.15	9.05	6.42	1.15	0.15	0.31
HD19	HSW	12	43.9	34.4	34.3	25.7	4.11	0.54	1.09
HT18	EL	9.33	21.5	18.3	18.1	14.9	1.70	0.23	0.45
HT18	GY	8.69	15.2	12.7	12.7	10.3	1.10	0.15	0.29
HT18	HSW	11.8	41.2	34.4	34.4	24.4	4.06	0.54	1.08
HT19	EL	9.39	21.8	18.1	18	15.1	1.70	0.23	0.45
HT19	GY	8.7	16.8	14	14	11.4	1.22	0.16	0.32
HT19	HSW	13.1	45.1	36.7	36.9	26.4	4.81	0.64	1.28
HX18	EL	8.75	21.3	18	18.3	14.2	1.57	0.21	0.42
HX18	GY	12.1	14.1	11.5	11.7	6.99	1.39	0.18	0.37
HX18	HSW	10.8	44.2	34.7	34.7	24.6	3.75	0.50	1.00
HX19	EL	10	22.1	17.8	18	14.7	1.78	0.24	0.47
HX19	GY	12.3	15.4	12.5	12.7	7.64	1.54	0.21	0.41
HX19	HSW	12.2	48.4	37.1	36.8	26.9	4.54	0.60	1.21

JH18	EL	7.54	21.2	17.4	17.4	14.6	1.31	0.17	0.35
JH18	GY	10.8	13.7	10.7	10.6	8.26	1.16	0.15	0.31
JH18	HSW	11.6	40.3	32.9	33.1	23.6	3.81	0.51	1.01
JH19	EL	7.81	21.6	17.5	17.4	14.2	1.37	0.18	0.36
JH19	GY	12.7	15	11.1	11.1	8.22	1.40	0.19	0.37
JH19	HSW	12.3	44.1	35.2	35.1	25.9	4.34	0.57	1.15
JS18	EL	7.59	20.2	17.4	17.4	15	1.32	0.18	0.35
JS18	GY	10	14.3	11.8	11.8	9.33	1.18	0.16	0.31
JS18	HSW	15.9	42.4	33.2	33.6	20.2	5.28	0.70	1.40
JS19	EL	7.78	19.9	17.3	17.4	14.4	1.34	0.18	0.36
JS19	GY	10	14.9	12.3	12.2	9.72	1.23	0.16	0.33
JS19	HSW	17	46.5	35.5	36.2	22.1	6.02	0.80	1.60
JZ18	EL	5.04	22.2	19.8	19.7	17.7	1.00	0.13	0.26
JZ18	GY	9.41	13.3	11.3	11.3	8.59	1.07	0.14	0.28
JZ18	HSW	10.7	43.1	34.4	34.1	26.8	3.68	0.49	0.98
JZ19	EL	5.17	21.7	19.3	19.2	17.2	1.00	0.13	0.26
JZ19	GY	11.3	14.3	11.7	11.7	8.59	1.33	0.18	0.35
JZ19	HSW	12.3	47.3	36.8	37	27.9	4.52	0.60	1.20
LY18	EL	6.55	22.2	18.9	18.9	15.8	1.24	0.16	0.33
LY18	GY	8.53	15.7	13.4	13.4	11.1	1.15	0.15	0.30
LY18	HSW	9.33	44.9	37.8	37.3	28.7	3.52	0.47	0.94
LY19	EL	7.85	22	18.8	19	15.2	1.47	0.20	0.39
LY19	GY	11.8	17.2	13.9	14.1	10.6	1.64	0.22	0.44
LY19	HSW	10.4	48.5	40.3	40.5	31.4	4.21	0.56	1.12
LZ18	EL	8.94	18.8	16.2	16.1	12.8	1.45	0.19	0.39
LZ18	GY	11.1	12.4	10.2	10.2	7.95	1.13	0.15	0.30
LZ18	HSW	13.4	39.1	32	32.8	22	4.31	0.57	1.14
LZ19	EL	10.2	19.5	16.1	16.2	12.4	1.63	0.22	0.43
LZ19	GY	13.5	13.6	10.6	10.4	7.74	1.43	0.19	0.38
LZ19	HSW	14.7	42.9	34.2	34.9	22.8	5.01	0.66	1.33
MC18	EL	7.18	20.5	17	16.8	14.9	1.22	0.16	0.32
MC18	GY	12.1	8.52	6.89	6.87	4.87	0.83	0.11	0.22
MC18	HSW	13.5	43.1	31.7	31.3	23.3	4.27	0.57	1.13
MC19	EL	9.19	20.3	16.9	16.7	14.3	1.55	0.21	0.41
MC19	GY	12	8.88	7.1	7.13	5.08	0.85	0.11	0.23
MC19	HSW	15.8	47	33.9	33.6	21.6	5.35	0.71	1.42
MJ18	EL	9.41	19.1	16.4	16.4	13	1.55	0.21	0.41
MJ18	GY	8.65	12.2	10.3	10.2	8.13	0.89	0.12	0.24
MJ18	HSW	7.5	41.7	36.5	36.4	31.2	2.74	0.36	0.73
MJ19	EL	11.4	20.4	16.3	16	13.2	1.86	0.25	0.49
MJ19	GY	11.4	13.3	10.6	10.5	7.87	1.22	0.16	0.32
MJ19	HSW	9.65	45.7	39	39.1	31	3.76	0.50	1.00
MZ18	EL	5.75	19.7	18	18.3	15.8	1.04	0.14	0.28
MZ18	GY	13.9	12.9	10.1	10.1	6.71	1.40	0.19	0.37
MZ18	HSW	9.09	42.3	34.9	34.6	27.2	3.18	0.42	0.84
MZ19	EL	5.93	20.8	17.8	17.9	15.5	1.06	0.14	0.28
MZ19	GY	15.1	13	10.4	10.6	6.83	1.57	0.21	0.42
MZ19	HSW	9.71	46.3	37.3	36.9	29.8	3.62	0.48	0.96
NH18	EL	5.26	21.5	19.8	19.7	17.6	1.04	0.14	0.28
NH18	GY	9.04	15	12.6	12.6	10.2	1.14	0.15	0.30
NH18	HSW	10.8	44.1	35.8	36.3	24.7	3.88	0.51	1.03
NH19	EL	6.27	22	19.9	20	17.4	1.25	0.17	0.33
NH19	GY	9.03	13.3	11.3	11.2	9.06	1.02	0.14	0.27
NH19	HSW	10.5	48	38.2	38.2	27.1	4.03	0.53	1.07
NJ18	EL	6.01	22.3	20.1	20.3	17.3	1.21	0.16	0.32
NJ18	GY	9.14	12.6	10.6	10.6	8.33	0.97	0.13	0.26

NJ18	HSW	9.46	46.9	40.2	40.1	32	3.80	0.50	1.01
NJ19	EL	6.76	23.6	19.9	19.8	17.1	1.35	0.18	0.36
NJ19	GY	9.46	11.6	9.53	9.46	7.4	0.90	0.12	0.24
NJ19	HSW	10.9	51.3	42.9	42.8	33	4.69	0.62	1.24
QS18	EL	5.14	20.1	17.8	17.7	16.1	0.92	0.12	0.24
QS18	GY	8.69	12.8	11.1	10.9	9.22	0.96	0.13	0.26
QS18	HSW	12.6	41.3	33.1	33.7	26	4.17	0.55	1.11
QS19	EL	7.91	20.6	17.7	17.4	15.4	1.40	0.19	0.37
QS19	GY	8.69	11.7	10.1	9.92	8.41	0.88	0.12	0.23
QS19	HSW	13.8	45	35.3	35.7	26.4	4.87	0.65	1.29
QX18	EL	5.95	21.5	18.7	18.6	16.3	1.11	0.15	0.30
QX18	GY	7.92	13.8	12	12.1	10.3	0.95	0.13	0.25
QX18	HSW	9.65	40.6	32.1	31.6	26.3	3.10	0.41	0.82
QX19	EL	6.64	21.9	18.5	18.4	16.6	1.23	0.16	0.33
QX19	GY	7.93	15.3	13.3	13.4	11.3	1.05	0.14	0.28
QX19	HSW	11.1	44.4	34.3	34.2	26.5	3.80	0.50	1.01
QZ18	EL	7.7	21.8	18.8	18.7	15.5	1.44	0.19	0.38
QZ18	GY	16.7	13.7	10.6	10.9	5.93	1.77	0.23	0.47
QZ18	HSW	15.6	44.4	34.4	34.7	21.5	5.37	0.71	1.43
QZ19	EL	8.7	22.6	18.6	18.2	16.1	1.62	0.22	0.43
QZ19	GY	18	14.4	11	11.3	6.03	1.98	0.26	0.53
QZ19	HSW	16.2	47.9	36.8	36.6	23.6	5.95	0.79	1.58
SP18	EL	9.91	20.6	17.2	17.1	12.7	1.71	0.23	0.45
SP18	GY	9.48	11.6	9.63	9.66	7.64	0.91	0.12	0.24
SP18	HSW	8.57	40.5	35.1	35.2	26.1	3.00	0.40	0.80
SP19	EL	10.3	20.1	16.7	16.6	12.2	1.72	0.23	0.46
SP19	GY	11.3	12.1	9.98	9.99	7.4	1.13	0.15	0.30
SP19	HSW	10.3	44.3	37.5	38.3	28.6	3.87	0.51	1.03
SS18	EL	5.61	19.8	17.6	17.8	15.1	0.99	0.13	0.26
SS18	GY	10.3	11.3	9.68	9.59	6.83	1.00	0.13	0.26
SS18	HSW	16.5	37	29.4	30.3	13.6	4.84	0.64	1.28
SS19	EL	5.25	19.5	17.4	17.4	15.4	0.92	0.12	0.24
SS19	GY	13	12.4	10	10	6.95	1.31	0.17	0.35
SS19	HSW	17.4	40.5	31.4	31.6	14.8	5.46	0.72	1.45
SX18	EL	9.65	23.7	18.5	17.9	15.9	1.78	0.24	0.47
SX18	GY	9.88	13.2	11.1	11.2	8.07	1.10	0.15	0.29
SX18	HSW	13	35.4	29.7	30.3	21.5	3.85	0.51	1.02
SX19	EL	11.5	25.3	18.3	17.8	15.6	2.11	0.28	0.56
SX19	GY	9.87	13.7	11.6	11.6	8.41	1.14	0.15	0.30
SX19	HSW	14.1	38.7	31.7	32.5	23.1	4.47	0.59	1.18
SY18	EL	10.8	21.2	17.3	17.6	14.1	1.87	0.25	0.50
SY18	GY	10.1	12.7	10.1	10	8.06	1.03	0.14	0.27
SY18	HSW	10.4	42.7	35.9	35.5	28.2	3.75	0.50	0.99
SY19	EL	11.9	22	17.1	17.3	13.5	2.04	0.27	0.54
SY19	GY	11.4	13	10.5	10.4	8.19	1.19	0.16	0.32
SY19	HSW	11.8	46.9	38.3	38.2	30.9	4.53	0.60	1.20
SZ18	EL	4.72	21.2	19.1	19	16.9	0.90	0.12	0.24
SZ18	GY	9	12.4	10.5	10.5	8.5	0.95	0.13	0.25
SZ18	HSW	9.52	41.8	34.1	34.1	27.4	3.24	0.43	0.86
SZ19	EL	4.93	20.7	18.6	18.5	16.4	0.92	0.12	0.24
SZ19	GY	9	11.3	9.59	9.55	7.75	0.86	0.11	0.23
SZ19	HSW	11.2	45.8	36.4	36.6	28.8	4.07	0.54	1.08
WY18	EL	9.45	21.5	16.8	16.6	13.8	1.59	0.21	0.42
WY18	GY	11.6	10.4	8.35	8.31	6.15	0.97	0.13	0.26
WY18	HSW	9.78	34.9	28.4	28.1	23.1	2.78	0.37	0.74
WY19	EL	10.1	21.9	16.9	16.7	13.9	1.70	0.23	0.45

WY19	GY	12.4	10.9	8.64	8.68	6.26	1.08	0.14	0.29
WY19	HSW	12.5	38.3	30.4	30.5	21.5	3.80	0.50	1.01
XH18	EL	7.08	20	17.1	16.8	14.5	1.21	0.16	0.32
XH18	GY	7.98	9.12	7.94	7.95	6.74	0.63	0.08	0.17
XH18	HSW	10.8	34.1	28.1	28.1	20.7	3.04	0.40	0.81
XH19	EL	7.19	20.1	16.9	16.8	14.9	1.22	0.16	0.32
XH19	GY	7.95	8.17	7.12	7.13	6.04	0.57	0.08	0.15
XH19	HSW	12.4	37.3	30	30.1	19.1	3.73	0.49	0.99
XJ18	EL	8.15	24.1	20.1	20	16.4	1.64	0.22	0.44
XJ18	GY	8.02	11	9.41	9.34	8.06	0.75	0.10	0.20
XJ18	HSW	13.9	40.1	31.8	32.1	23.2	4.41	0.58	1.17
XJ19	EL	7.46	23.1	19.9	19.8	17.2	1.49	0.20	0.40
XJ19	GY	8.02	9.89	8.43	8.37	7.22	0.68	0.09	0.18
XJ19	HSW	15.5	43.7	34	33.8	21.5	5.28	0.70	1.40
XT18	EL	6.59	22.7	19.5	19.3	17	1.29	0.17	0.34
XT18	GY	10.5	13.4	10.6	10.4	8.22	1.11	0.15	0.30
XT18	HSW	16.5	46.9	34.4	34.7	20.1	5.68	0.75	1.51
XT19	EL	7.08	23.7	19.4	19	17.2	1.37	0.18	0.36
XT19	GY	12.9	14.7	11	10.8	8.01	1.41	0.19	0.38
XT19	HSW	17	51.3	36.7	37.2	21.9	6.26	0.83	1.66
XY18	EL	8.41	22	19.1	19	16	1.60	0.21	0.43
XY18	GY	9.84	14.9	12	12	9.05	1.18	0.16	0.31
XY18	HSW	13	49.8	36.9	37.6	25.5	4.79	0.63	1.27
XY19	EL	9.24	23.5	18.9	18.8	15.4	1.75	0.23	0.46
XY19	GY	11.2	15.2	12.5	12.5	9.71	1.39	0.19	0.37
XY19	HSW	14.4	54.5	39.5	39.8	27.9	5.70	0.76	1.51
XZ18	EL	7.49	21.7	18.4	18.3	15.2	1.38	0.18	0.37
XZ18	GY	8.44	13.1	11.3	11.2	9.43	0.96	0.13	0.25
XZ18	HSW	13.6	45.3	36.6	37.4	26.7	4.97	0.66	1.32
XZ19	EL	7.33	20.8	18.3	18.3	14.6	1.34	0.18	0.36
XZ19	GY	8.45	14.4	12.5	12.3	10.4	1.05	0.14	0.28
XZ19	HSW	15.1	49.6	39.2	39.1	26.6	5.92	0.78	1.57
YC18	EL	7.81	21.4	17.9	17.7	14.7	1.40	0.19	0.37
YC18	GY	7.95	9.43	8.16	8.16	6.91	0.65	0.09	0.17
YC18	HSW	9.99	33.2	27.6	27.3	22.4	2.76	0.37	0.73
YC19	EL	7.14	21.5	17.7	17.5	15.7	1.26	0.17	0.34
YC19	GY	8.28	10.3	8.87	8.86	7.5	0.73	0.10	0.20
YC19	HSW	12.5	36.4	29.5	29.8	21.6	3.69	0.49	0.98
YI18	EL	6.58	20.7	18.4	18.4	15.2	1.21	0.16	0.32
YI18	GY	9.55	9.76	8.41	8.26	6.69	0.80	0.11	0.21
YI18	HSW	15.4	41.1	32.3	33	20.8	5.00	0.66	1.33
YI19	EL	6.62	20.8	18.2	18.5	15.5	1.21	0.16	0.32
YI19	GY	9.75	10.6	9.13	9.02	7.31	0.89	0.12	0.24
YI19	HSW	16.5	45	34.6	35	22.8	5.69	0.75	1.51
YL18	EL	6.91	22.6	18.8	18.5	16.8	1.30	0.17	0.35
YL18	GY	10.5	13.2	10.9	10.9	8.45	1.14	0.15	0.30
YL18	HSW	13.9	45.7	36.2	36.9	24.7	5.05	0.67	1.34
YL19	EL	7.99	22	18.7	18.4	16.5	1.49	0.20	0.40
YL19	GY	10.4	12	9.74	9.71	7.51	1.02	0.14	0.27
YL19	HSW	15.8	49.8	38.8	39.5	26.4	6.11	0.81	1.62
YY18	EL	4.68	20.6	18.6	18.6	16.7	0.87	0.12	0.23
YY18	GY	9.53	14.6	11.7	11.7	9	1.12	0.15	0.30
YY18	HSW	11.8	51.4	41.8	41.6	30.9	4.93	0.65	1.31
YY19	EL	4.9	21	18.4	18.3	16.9	0.90	0.12	0.24
YY19	GY	9.54	13.3	10.7	10.6	8.21	1.02	0.14	0.27
YY19	HSW	12.1	55	44.7	45	33.9	5.41	0.72	1.43

Variable: agronomic traits; GY: grain yield; EL: ear length; HSW: hundred seed weight; CV: coefficient of variation; Max: maximum value; Min: minimum value; Mean: arithmetic mean; Sd.amo: the sample standard deviation; SE: the standard error of the mean; CI: 95 percent confidence interval of the mean; Please refer to the Table S2 for the environment name referred to by the environment code.