

Table 12. Mean coleoptile length and mean seed weight of the 39 entries in the 1996 Southern Regional Performance Nursery grown in dryland and irrigated nurseries at Bushland, TX with mean plant height of entries over all locations. Coleoptile and seed weight data provided by K. B. Porter.

Entry no.	CI or Sel. No.	Coleoptile Length		2-Site	4-Site	2-Site	Regional
		Bushland		1996	1995-96	1996	mean
		Dryland	Irrigated	Mean	Mean	Mean Wt. 16 seed	plant ht.
				mm		mg	cm
2	CI13996	114	117	116	114	399	84
30	NE93405	111	117	114		483	77
1	CI1442	106	109	108	107	382	90
33	W93-460	96	119	108		473	71
17	TXGH12588-105	95	98	97		445	69
34	T702	90	96	93	94	514	68
4	KS93U206	85	100	93		501	71
3	PI495594	86	97	92	91	486	70
18	CO910424	83	98	91		469	72
39	G1878	89	93	91		527	72
9	TX91D6913	85	94	90	87	419	69
20	KS91H153-2	82	95	89	89	455	67
38	T89	84	88	86		488	70
7	OK93P634	82	84	83		425	64
37	T861	80	84	82	86	462	72
6	OK93P735	74	89	82	80	418	66
13	TX93V5919	75	89	82	78	424	69
19	CO910748	76	87	82		391	72
16	TX92V2519	75	84	80	80	393	63
8	OK92403	69	90	80		405	63
25	KS85W663-11-6	75	84	80		318	68
29	NE92646	74	83	79	78	393	72
23	KS940935-7-2-1	70	86	78		410	68
31	NE93427	69	83	76		395	72
15	TX93V4927	69	83	76	73	387	63
36	T812	73	78	76	74	477	68
27	NE90476	71	78	75	74	440	72
21	KS941064-3	68	81	75		369	67
35	T834	70	79	75	74	434	74
22	KS941064-6	66	82	74		396	66
14	TX93V5922	67	81	74	74	421	68
32	WX92-0408*	68	77	73	77	372	67
24	KS940935-125-5	70	75	73		423	70
26	KS84W063-9-39	70	72	71		374	73
5	OK91P648	66	74	70	70	434	63
10	TX91D6991	67	70	69	66	381	65
12	HBI0531-A2	69	69	69	69	395	67
11	TX92V3108	62	71	67	66	386	70
28	NE92458	60	67	64	66	408	73
Mean		78	87	83	81	425	
LSD (0.05)				8	5	92	
C.V%				5	4	11	

\* Hybrids were evaluated using F2 seed.

Table 12a. Correlation of coleoptile length of 1996 SRPN entries from two seed sources with mean seed weight and mean plant height over locations.

	Coleoptile length		2-Site 1996 mean
	Bushland Dryland	Bushland Irrigated	
r value - coleoptile length and weight of seed	0.48	0.38	0.41
Probability > r	0.02	0.06	0.02
r value - coleoptile length and mean plant height	0.62	0.49	0.57
Probability > r	0.0001	0.0014	0.0001