Table 13a. Mean coleoptile length of seedlings from seed of the 45 entries in the 1992 Southern Regional Performance Nursery grown on dryland at Bushland and Chillicothe, TX, mean seed weight, and regional mean plant height.

Data, except for plant height, provided by K. B. Porter, Professor Emeritus, Texas A&M University Research and Extension Center, Amarillo-Bushland, TX.

: Sel. No. : CI13996 CI1442 NE88588 NE88584 KS84170E-8-3 TX88V4635 T13 OK89399 PI495594 HBC302E T67 TX88V4636 TH901 XH1319 XH1436 W87-018 TX84V1418HF TX89V4138 TX89V4138 TX902 WI88-028 NE88427 TX88V5433 TX88A6533 OK88W833 KS87H325-2 KS89H48-1 N87V106 CO870449 TX87V1613 DK89499 XH1437 OK89421	•	Chilli- cothe, TX 116 104 105 99 94 91 89 86 86 85 82 88 87 80 86 82 87 80 86 82 87 80 86 82 87 80	: Bushland : TX 104 116 103 97 89 81 83 84 83 85 80 80 80 80 83 75 80 80 82 78		: 4 site:N :1991-92: : Mean : 105 107 85 80 82 83 81 82 79 79	lean Wt. of: 16 seed : planted : Mg 388 392 408 416 491 418 378 496 455 452 442 386 482 505 476 423 408 398 447	Plant Height CM 93 98 86 89 80 77 78 79 76 78 84 77 80 82 82 75 81 77
: Sel. No. : CI13996 CI1442 NE88588 NE88584 KS84170E-8-3 TX88V4635 T13 OK89399 PI495594 HBC302E T67 TX88V4636 TH901 XH1319 XH1436 W87-018 TX84V1418HF TX89V4138 TX89V4138 TX902 WI88-028 NE88427 TX88V5433 TX88A6533 OK88W833 KS87H325-2 KS89H48-1 N87V106 CO870449 TX87V1613 DK89499 XH1437 DK89421	No.: 2 1 33 32 24 11 41 6 3 25 42 8 44 34 35 38 9 14 45 40 31	116 104 105 99 94 91 89 86 86 85 82 88 87 80 86 82 87 80 86 82 87 80	: TX 104 116 103 97 89 81 83 84 83 85 80 80 80 83 75 80 73 76 80 82	110 110 104 98 92 86 86 85 85 84 84 84 84 84 80 80	105 107 85 80 82 83 81	#9 388 392 408 416 491 418 378 496 455 452 442 386 482 505 476 423 408 398	93 98 86 89 80 77 78 79 76 78 84 77 80 82 82 75 81
CI13996 CI1442 NE88588 NE88584 KS84170E-8-3 TX88V4635 T13 OK89399 PI495594 HBC302E T67 TX88V4636 TH901 XH1319 XH1436 W87-018 TX84V1418HF TX89V4138 TX89V4138 TX89V4138 TX902 WI88-028 NE88427 TX88V5433 TX88A6533 OK88W833 KS87H325-2 KS89H48-1 N87V106 CO870449 TX87V1613 OK89499 KH1437 OK89499	2 1 33 32 24 11 41 6 3 25 42 8 44 34 35 38 9 14 45 40 31	116 104 105 99 94 91 89 86 85 82 88 87 80 86 82 87 84 79 78	104 116 103 97 89 81 83 84 83 85 80 80 80 83 75 80 73 76 80 82	110 110 104 98 92 86 86 85 85 84 84 84 84 82 81 80 80	105 107 85 80 82 83 81	388 392 408 416 491 418 378 496 455 452 442 386 482 505 476 423 408 398	93 98 86 89 80 77 78 79 76 78 84 77 80 82 82 75 81
CI 1442 NE88588 NE88584 KS84170E-8-3 ITX88V4635 IT3 DK89399 PI495594 HBC302E T67 ITX88V4636 ITH901 KH1319 KH1436 N87-018 ITX84V1418HF ITX89V4138 ITX84V1418HF ITX89V4138 ITX84V1418HF ITX89V4138 ITX8902 NI 88-028 NE88-028 NE88-033 CK889V413 CK894949 CK894949 CK1437 DK89499 CK1437 DK89421	1 33 32 24 11 41 6 3 25 42 8 44 34 35 38 9 14 45 40 31	104 105 99 94 91 89 86 85 82 88 87 80 86 82 87 84 79 78	116 103 97 89 81 83 84 83 85 80 80 83 75 80 73 76 80 82	110 104 98 92 86 85 85 84 84 84 84 81 80 80	85 80 82 83 81 82 79	388 392 408 416 491 418 378 496 455 452 442 386 482 505 476 423 408 398	93 98 86 89 80 77 78 79 76 78 84 77 80 82 82 75 81
CI1442 NE88588 NE88584 KS84170E-8-3 FX88V4635 F13 DK89399 P1495594 HBC302E F67 FX88V4636 FH901 KH1319 KH1436 N87-018 FX84V1418HF FX89V4138 FX89V4133 FX89V5433 FX88V833	1 33 32 24 11 41 6 3 25 42 8 44 34 35 38 9 14 45 40 31	104 105 99 94 91 89 86 85 82 88 87 80 86 82 87 84 79 78	116 103 97 89 81 83 84 83 85 80 80 83 75 80 73 76 80 82	110 104 98 92 86 85 85 84 84 84 84 81 80 80	85 80 82 83 81 82 79	392 408 416 491 418 378 496 455 452 442 386 482 505 476 423 408 398	98 86 89 80 77 78 79 76 78 84 77 80 82 82 75 81
NE88588 NE88584 KS84170E-8-3 FX88V4635 F13 DK89399 P1495594 HBC302E F67 FX88V4636 FH901 KH1319 KH1436 KV87-018 FX84V1418HF FX89V4138 FX89V4138 FX89V4138 FX89V4138 FX89V4138 FX89V4138 FX89V4138 FX89V4138 FX89V4138 FX89V4138 FX89V4138 FX89V4138 FX88V4133 FX88V653 FX88V65 FX88V65 FX88V6	33 32 24 11 41 6 3 25 42 8 44 34 35 38 9 14 45 40 31	105 99 94 91 89 86 86 85 82 88 87 80 86 82 87 84 79 78	103 97 89 81 83 84 83 85 80 80 83 75 80 73 76 80 82	1 04 98 92 86 85 85 84 84 84 84 81 80 80	85 80 82 83 81 82 79	408 416 491 418 378 496 455 452 442 386 482 505 476 423 408 398	86 89 80 77 78 79 76 78 84 77 80 82 82 75 81
NE88584 KS84170E-8-3 FX88V4635 F13 DK89399 PI495594 HBC302E F67 FX88V4636 FH901 KH1319 KH1436 W87-018 FX84V1418HF FX89V4138 FX902 W188-028 WE88427 FX88V5433 FX89C2 FX88V5433 FX88V6533 DK88W833 KS87H325-2 KS89H48-1 H87V106 COB70449 FX87V1613 DK89499 KH1437 DK89491	32 24 11 41 6 3 25 42 8 44 34 35 38 9 14 45 40 31	99 94 91 89 86 86 85 82 88 87 80 86 82 87 84 79 78	97 89 81 83 84 83 85 80 80 83 75 80 73 76 80 82	98 92 86 85 85 84 84 84 84 81 80 80	80 82 83 81 82 79	416 491 418 378 496 455 452 442 386 482 505 476 423 408 398	89 80 77 78 79 76 78 84 77 80 82 82 75 81
KS84170E-8-3 TX88V4635 T13 DK89399 P1495594 HBC302E T67 TX88V4636 TH901 KH1319 KH1436 N87-018 TX84V1418HF TX89V4138 TX902 VI88-028 NE88427 TX88V5433 TX88V5433 TX88W633 KS87H325-2 KS89H48-1 N87V106 CO870449 TX87V1613 DK89499 KH1437 DK89421	24 11 41 6 3 25 42 8 44 34 35 38 9 14 45 40 31	94 91 89 86 85 82 88 87 80 86 82 87 84 79	89 81 83 84 83 85 80 80 83 75 80 73 76 80 82	92 86 86 85 85 84 84 84 82 81 80 80	80 82 83 81 82 79	491 418 378 496 455 452 442 386 482 505 476 423 408 398	80 77 78 79 76 78 84 77 80 82 82 75 81
TX88V4635 T13 DK89399 P1495594 HBC302E T67 TX88V4636 TH901 KH1319 KH1436 W87-018 TX84V1418HF TX89V4138 TX902 VI88-028 WE88427 TX88V5433 TX88A6533 DK88W833 KS87H325-2 KS89H48-1 W87V106 COB70449 TX87V1613 DK89499 KH1437 DK89421	11 41 6 3 25 42 8 44 34 35 38 9 14 45 40 31	91 89 86 86 85 82 88 87 80 86 82 87 84 79 78	81 83 84 83 85 80 80 83 75 80 73 76 80 82	86 86 85 85 84 84 84 82 81 81 80 80	80 82 83 81 82 79	418 378 496 455 452 442 386 482 505 476 423 408 398	77 78 79 76 78 84 77 80 82 82 75 81
T13 DK89399 P1495594 HBC302E T67 TX88V4636 TH901 KH1319 KH1436 W87-018 TX84V1418HF TX89V4138 TX89V4138 TX88V5433 TX88X6533 DK88W833 KS87H325-2 KS89H48-1 W87V106 CO870449 TX87V1613 DK89499 KH1437 DK89421	41 6 3 25 42 8 44 34 35 38 9 14 45 40 31	89 86 86 85 82 88 87 80 86 82 87 84 79 78	83 84 83 85 80 80 83 75 80 73 76 80 82	86 85 85 84 84 84 82 81 81 80 80	80 82 83 81 82 79	378 496 455 452 442 386 482 505 476 423 408 398	78 79 76 78 84 77 80 82 82 75 81
0K89399 P1495594 HBC302E F67 FX88V4636 FH901 KH1319 KH1436 W87-018 FX84V1418HF FX89V4138 FX902 W188-028 WE88427 FX88V5433 FX88A6533 OK88W833 KS87H325-2 KS89H48-1 W87V106 CO870449 FX87V1613 WK89499 KH1437 OK89421	6 3 25 42 8 44 34 35 38 9 14 45 40 31	86 86 85 82 88 87 80 86 82 87 84 79 78	84 83 83 85 80 80 83 75 80 73 76 80	85 85 84 84 84 82 81 81 80 80	82 83 81 82 79	496 455 452 442 386 482 505 476 423 408 398	79 76 78 84 77 80 82 82 75 81
PI495594 HBC302E F67 FX88V4636 FH901 KH1319 KH1436 W87-018 FX89V4138 FX89V4138 FX902 WI88-028 WE88427 FX88V5433 FX88A6533 OK88W833 KS87H325-2 KS89H48-1 W87V106 CO870449 FX87V1613 OK89499 KH1437 OK89421	3 25 42 8 44 34 35 38 9 14 45 40	86 85 82 88 87 80 86 82 87 84 79 78	83 83 85 80 80 83 75 80 73 76 80	85 84 84 84 82 81 81 80 80	82 83 81 82 79	455 452 442 386 482 505 476 423 408 398	76 78 84 77 80 82 82 75 81
HBC302E T67 TX88V4636 TH901 KH1319 KH1436 W87-018 TX84V1418HF TX89V4138 TX902 W188-028 WE88427 TX88V5433 TX88X6533 OK88W833 KS87H325-2 KS89H48-1 W87V106 CO870449 TX87V1613 OK89499 KH1437 OK89421	25 42 8 44 34 35 38 9 14 45 40	85 82 88 87 80 86 82 87 84 79 78	83 85 80 80 83 75 80 73 76 80	84 84 84 82 81 81 80 80	82 83 81 82 79	452 442 386 482 505 476 423 408 398	78 84 77 80 82 82 75 81
T67 FX88V4636 FH901 KH1319 KH1436 V87-018 FX84V1418HF FX89V4138 FX902 VI88-028 VE88427 FX88V5433 FX88A6533 OK88W833 KS87H325-2 KS89H48-1 V87V106 CO870449 FX87V1613 OK89499 KH1437 OK89421	42 8 44 35 38 9 14 45 40	82 88 87 80 86 82 87 84 79 78	85 80 80 83 75 80 73 76 80	84 84 84 82 81 81 80 80	83 81 82 79	442 386 482 505 476 423 408 398	84 77 80 82 82 75 81
TX88V4636 TH901 KH1319 KH1436 V87-018 TX84V1418HF TX89V4138 TX902 VI88-028 VE88427 TX88V5433 TX88A6533 OK88W833 KS87H325-2 KS89H48-1 V87V106 COB70449 TX87V1613 OK89499 KH1437	8 44 34 35 38 9 14 45 40	88 87 80 86 82 87 84 79 78	80 80 83 75 80 73 76 80 82	84 84 82 81 81 80 80	83 81 82 79	386 482 505 476 423 408 398	77 80 82 82 75 81 77
TH901 KH1319 KH1436 V87-018 FX84V1418HF FX89V4138 FX902 VI88-028 VE88427 FX88V5433 FX88A6533 OK88W833 KS87H325-2 KS89H48-1 V87V106 COB70449 FX87V1613 OK89499 KH1437	44 34 35 38 9 14 45 40 31	87 80 86 82 87 84 79 78	80 83 75 80 73 76 80 82	84 82 81 81 80 80	81 82 79	482 505 476 423 408 398	80 82 82 75 81 77
KH1319 KH1436 V87-018 FX84V1418HF FX89V4138 FX902 VI88-028 VE88427 FX88V5433 FX88A6533 OK88W833 KS87H325-2 KS89H48-1 V87V106 COB70449 FX87V1613 OK89499 KH1437	34 35 38 9 14 45 40 31	80 86 82 87 84 79 78	83 75 80 73 76 80 82	82 81 81 80 80	82 79	505 476 423 408 398	82 82 75 81 77
KH1436 W87-018 FX84V1418HF FX89V4138 FX902 W188-028 WE88427 FX88V5433 FX88A6533 OK88W833 KS87H325-2 KS89H48-1 W87V106 COB70449 FX87V1613 OK89499 KH1437 OK89421	35 38 9 14 45 40 31	80 86 82 87 84 79 78	75 80 73 76 80 82	81 81 80 80 80	7 9	476 423 408 398	82 75 81 77
W87-018 FX84V1418HF FX89V4138 FX902 W188-028 WE88427 FX88V5433 FX88A6533 OK88W833 KS87H325-2 KS89H48-1 W87V106 COB70449 FX87V1613 OK89499 KH1437 OK89421	38 9 14 45 40 31	82 87 84 79 78 80	80 73 76 80 82	81 80 80 80	7 9	423 408 398	75 81 77
FX84V1418HF FX89V4138 FX902 VI88-028 VI88427 FX88V5433 FX88A6533 OK88W833 KS87H325-2 KS89H48-1 V87V106 CO870449 FX87V1613 OK89499 KH1437 OK89421	9 14 45 40 31	87 84 79 78 80	73 76 80 82	80 80 80	7 9	408 398	81 77
TX89V4138 TX902 VI88-028 VE88427 TX88V5433 TX88A6533 OK88W833 KS87H325-2 KS89H48-1 N87V106 COB70449 TX87V1613 OK89499 KH1437 OK89421	14 45 40 31	84 79 78 80	76 80 82	80 80	7 9	398	77
TX902 NIB8-028 NE88427 FX88V5433 FX88A6533 OK88W833 KS87H325-2 KS89H48-1 N87V106 CO870449 FX87V1613 OK89499 KH1437 OK89421	45 40 31	79 78 80	80 82	80			
VI88-028 VIE88427 IX88V5433 IX88A6533 OK88W833 IX89H48-1 VIERTV106 IX87V106 IX87V1613 IX89499 IX1437 IX89421	40 31	78 80	82		79	447	
NE88427 FX88V5433 FX88A6533 OK88W833 KS87H325-2 KS89H48-1 R87V106 COB70449 FX87V1613 OK89499 KH1437 OK89421	31	80		80			81
TX88V5433 TX88A6533 OK88W833 KS87H325-2 KS89H48-1 H87V106 CO870449 TX87V1613 OK89499 KH1437 OK89421			78			443	68
TX88A6533 DK88W833 KS87H325-2 KS89H48-1 H87V106 CO870449 FX87V1613 DK89499 KH1437 DK89421	15			79	79	404	80
0K88W833 KS87H325-2 KS89H48-1 N87V106 CO87O449 FX87V1613 0K89499 KH1437 0K89421		82	74	78	78	402	76
KS87H325-2 KS89H48-1 H87V106 CO870449 FX87V1613 OK89499 KH1437 OK89421	17	81	74	78		407	72
KS89H48-1 187V106 COB70449 FX87V1613 OK89499 KH1437 OK89421	4	83	73	78	79	469	76
N87V106 CO870449 FX87V1613 OK89499 CH1437 OK89421	26	76	78	77		510	80
CO870449 IX87V1613 DK89499 (H1437 DK89421	27	76	76	76	-	420	83
TX87V1613 DK89499 KH1437 DK89421	29	76	72	- 74		442	82
0K89499 KH1437 DK89421	21	75	70	73		399	77
DK89499 (H1437 DK89421	12	78	67	73	69	425	81
DK89421	5	74	72	73		429	77
)K89421	36	73	69	71		394	87
	7	74	67	71		404	82
20860235	20	76	66	71		365	75
0860094	19	75	66	71	71	343	76
X88A6480	16	7 5	64	70		468	73
X88V5440	10	70	67	69		396	73
/I88-181	39	72	63	68		400	71
21-3	43	67	66	67	65	366	82
(S89H50-4	28	67	66	67		398	85
E88595	30	69	65	67	66	359	82
(H1497	37	69	65	67	ē	439	81
(S831374-142	23	69	63	66		444	75
0860086	18	63	62	63	65	337	74
X88V4524	13	64	58	61	61	321	71
(SSB-369-7	22	47	68	58	68	490	73
		80		78	78	421	
lean SD/ 05)		30		9	6	98	
.SD(.05) :V				5.7	5.3	12	

^{*} Hybrids were evaluated using F_2 seed.

Table 13b. Correlation of coleoptile length of 1992 SRPN entries from two seed sources, mean seed weight, and mean plant height over locations.

	: Coleoptile length			: Two-site :		
	:	}	: 2 site	:Mean Wt. of:		
	: Chilli- :	Bushland	: 1992	: 16 seed :		
	: cothe, TX:	<u>TX</u>	: <u>M</u> ean	: planted :		
r value, coleoptile length and weight						
of planted seed	0.05	0.29	0.17			
probability > r	0.73	0.05	0.29			
r value, coleoptile length and weight of seed planted with						
mean plant height	0.55	0.63	0.61	-0.002		
probability > r	0.0001	0.0001	0.000	0.99		