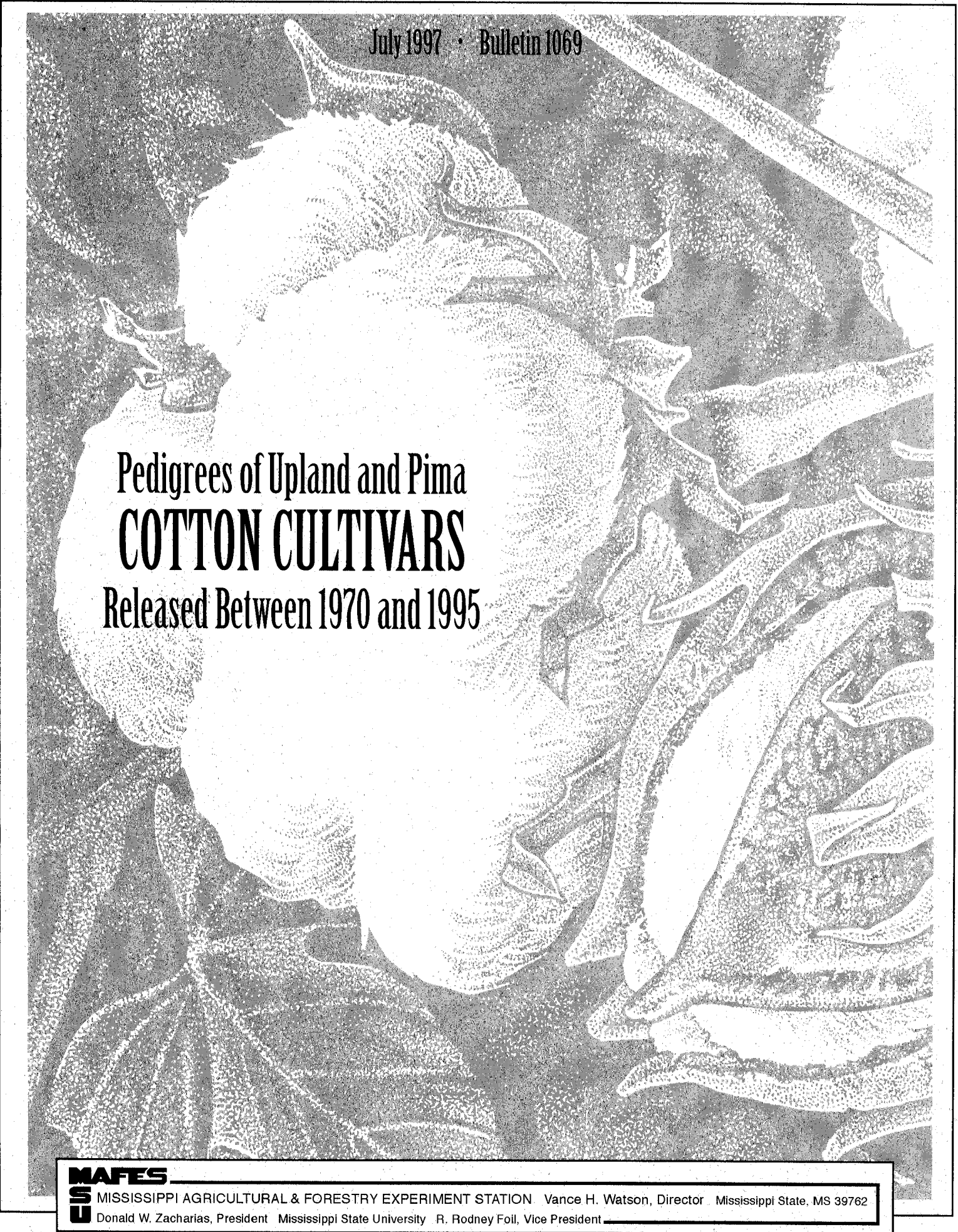


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Pedigrees of Upland and Pima
COTTON CULTIVARS
Released Between 1970 and 1995

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Pedigrees of Upland and Pima Cotton Cultivars Released Between 1970 and 1995

The purpose of this bulletin is to update information provided in a similar bulletin that covered the period 1970 to 1990 (Calhoun et al., 1994) by adding pedigrees of 71 new upland cultivars and 6 new pima cultivars and by correcting several errors and omissions. This bulletin makes available, in a single document, the pedigrees of cotton cultivars released between 1970 and 1995. Information on the parentage of cultivars is useful to geneticists, applied plant breeders, and public policy makers. Geneticists can use pedigree information to estimate the genetic distance among cultivars (Bowman et al., 1997) or to evaluate the contribution of various genetic pools to current cultivars (Bowman et al., 1996). Applied breeders can use this information to identify parents that are genetically dissimilar and thus have the potential to generate new variability for future crop improvement, or to identify genetic pools that have proven valuable or have been neglected in the past. If analysis of pedigree information indicates that a large proportion of current cultivars are closely related, public policymakers can be made aware of the potential genetic vulnerability in the crop and the need to expand the genetic base (May et al., 1995). Policy makers can also use this information to see the contribution of various breeding programs to improved commercial cultivars. Cultivar pedigree information can highlight the contribution of, and justify funding for, programs aimed at long-term germplasm improvement rather than the development of germplasm with immediate commercial application.

Ware (1950) traced the origin of virtually all cotton (*Gossypium hirsutum* L.)

cultivars in use at that time, though his publication is now difficult to obtain and not well known. Ramey (1966) drew on information from Ware (1950) and elsewhere to provide a fairly complete description of pedigrees of major cotton cultivars released prior to 1966. Turner (1952) documented the breeding history of early strains and cultivars from the Georgia Agricultural Experiment Station. Staten (1971) traced the history of the New Mexico Acala breeding program, including pedigree information on important Acala cultivars and breeding lines, and Turner (1974) provided similar information on the California Acalas. Culp and Harrell (1974) documented the development of germplasm from the Pee Dee Research Station in South Carolina. However, a single source of pedigree information on modern cotton cultivars is not available. It is important to have this information periodically documented to ensure that as much of the available information as possible is accessible to as wide an audience as possible.

The Crop Science Society of America maintains a permanent, but voluntary, registry of cultivars as well as germplasm lines; however, not all cultivar originators choose to register their products. With the enactment of the Plant Variety Protection Act, the breeding history of cultivars covered by the Act must now be documented. While information submitted as part of the application for plant variety protection is in the public domain, it is not readily or freely (i.e. without charge) accessible. In addition, not all originators of cultivars seek protection under the Act, and those who do are not required to give

complete pedigree histories of breeding lines that went into the cultivar being protected. As a result, much of the information on cotton cultivar pedigrees is limited to impermanent memoranda of release notices or remains buried in the personal files of various breeders. Much information has already been lost.

The principal sources of information used to determine which cultivars were released between 1970 and 1990, the period covered in this document, were: 1) records from the Plant Variety Protection (PVP) Office, 2) *Crop Science* cultivar registration notices, and 3) *Characteristics of Cotton Varieties Grown in Texas*, editions 2 and 3 (Metzer et al. 1984, and Metzer and Supak 1990, respectively). Unless indicated in other sources, it was assumed that cultivars grown in Texas in 1984 had been released since 1970.

Pedigree information was obtained from these same sources and other publicly available reference materials. We also drew heavily on the willingness of various active and retired breeders to supply information from their personal files, and for this we are grateful.

Table 1 provides various identifiers for the cultivars, including cultivar name, experimental designation (when known), PVP application number (if any), and *Crop Science* registration number (if any). Also listed in Table 1 is the year of release, if known. The first two digits of the PVP application number indicate the year that application was made; this may or may not correspond with the year of release. We have, unfortunately, been somewhat inconsistent with regard to cultivar names. In some cases, we have listed the cultivar name without the usual brand name (e.g. cultivar 9023 is currently sold as SeedCo 9023, but PVP certificate was issued with the name 9023). In other cases, the cultivar

names includes brand names, some of which may be obsolete. For example, Hartz H1330 is listed with Hartz brand name because it was PVP'ed under that name; however H1215, also sold by Jacob Hartz Seed Co., was PVP'ed under the name H1215. This situation is further complicated by the fact that both cultivars are now sold under the Paymaster brand name. Some ambiguity in cultivar names is thus unavoidable. Readers are advised to look for cultivars both with and without the brand names they may be familiar with.

The column in Table 1 listing originator or owner is also somewhat ambiguous. We have tried to use this information primarily to recognize the contribution of the originator; however, when a cultivar has changed ownership several times or the origin is not clear, we have listed the most recent owner. The final column in this table is the source of information used for the pedigree information. The first choice for a source of information was a *Crop Science* registration or experiment station bulletin, since these tend to be complete and readily available. The second choice was "personal communication" (PC), since these often include information not provided in PVP applications. The final choice was Exhibit A from PVP applications.

Simple cultivar pedigrees (usually including two to four parents) are presented in Table 2. Pedigree notation has been standardized to conform as much as possible to the method proposed by Purdy et al. (1968). A few examples of the Purdy et al. slash notation vs. traditional "x" notation follow:

Traditional "x" Notation	Slash Notation
A x B	A/B
(A x B) x C	A/B//C
(A x B) x (C x D)	A/B//C/D
[(A x B) x C] x D	A/B//C/3/D
[(A x B) x B] x B	A/3*B

Simple pedigrees can be expanded by checking for the pedigrees of the parents listed. In many cases these parents are themselves listed as cultivars in Table 2. The column, "Notes on pedigree," in Table 2 provides additional information for expanding simple pedigrees. These notes include parentage of breeding lines or older cultivars given in the simple pedigree, or the location where such information is presented (usually Table 3), or other information.

Parentage of breeding lines and obsolete cultivars that appear in the pedigrees of cultivars in Table 2 are presented in Table 3. Many of the pedigrees in Table 3 can be further expanded by tracing the pedigrees of the parents listed. These parents (when known) are also in Table 3, or in the case of most obsolete cultivars, a reference is given for the figure showing the pedigree tree that includes the obsolete cultivar. Certain entries in Table 3 have been grouped for convenience. Most of the parental material and cultivars from the Multiple Adversity Resistance (MAR) program at Texas Agricultural Experiment Station, College Station, has been listed together, as have germplasm from the Pee Dee Research Station at Florence, SC. Pima germplasm has also been listed separately.

Several figures are used to indicate the origin of obsolete cultivars, or to illustrate certain complex pedigrees. Figures 1 to 10 are redrawn from Ramey (1966) and trace the development of major cultivars up to about 1965. Figure 11 was adapted from Culp and Harrell (1974) to illustrate the development of important germplasm from

the Pee Dee Experiment Station. Figures 12 to 16 were adapted from figures developed by Thomas Kerr about 1969, and apparently not previously published (although they have been widely circulated in the cotton breeding community). Figures 12 and 13 illustrate the development of the "Triple Hybrid" material to the point that it was used in several breeding programs. Figure 14 traces the development of the Atlas family of cultivars and germplasm. Figure 15 traces the development of important Missouri lines and cultivars. Figure 16 traces the development of early California Acalas. Figure 17 was drawn from the information provided in PVP applications for 'Quapaw' and 'GSA71'.

In the interest of space savings, numerous, perhaps unfamiliar abbreviations are used in all three tables. The meanings of these abbreviations are given below:

Abbreviation	Definition
AES	Agricultural Experiment Station (postal code used to indicate state)
CKR	Coker
CS	Crop Science (volume and page numbers given in references)
DP	Deltapine or D P & L
PM	Paymaster
PVP	Plant Variety Protection (usually in reference to application documents)
Sel.	Selection out of ...
Sib.	Sibling of ...
STV	Stoneville

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Table 1. Identification of cotton cultivars released between 1970 and 1995, and the source of information used in pedigrees.

Ref. no.	Cultivar name	Experimental designation	PVP#	CS reg. no.	Year	Originator or Owner	Reference for pedigree
Upland Cottons							
1	173-90		9500127			P&H Seeds, Inc., Hillsboro, TX	PVP (Pending)
2	7563		8300031		1983	Paymaster Technologies, Inc., Aikin, TX	R.H. Sheetz/PC
3	9023		9500237			Seedco Corp., Lubbock, TX	G.L. Rea/PC
4	Acala 1517-70	B4364 or NMB 4364		CV-66	1970	NM AES & ARS-USDA	CS18:164
5	Acala 1517-75	Acala 4111		CV-67	1975	NM AES	CS18:164
6	Acala 1517-77	B3-1		CV-77	1977	NM AES	CS20:113
7	Acala 1517-77BR			CV-82	1982	NM AES	CS24:382
8	Acala 1517-88	B1788		CV-93	1987	NM AES	CS28:190-191
9	Acala 1517-91	3579		CV-99	1990	NM AES	CS32:831-832
10	Acala 1517-95	B4442		CV-107	1994	NM AES	CS35:1227-1228
11	Acala 1517-SR1	E945		CV-83	1983	NM AES	CS24:382-383
12	Acala 1517-SR2	E1137		CV-89	1986	NM AES	CS27:149
13	Acala 1517-SR3	E3134		CV-100	1990	NM AES	CS32:1295
14	Acala 1517C	1028 OR 8893 OR 7133		CV-64	1951	NM AES	CS18:163; Staten, 1971
15	Acala 1517E-1	B8040		CV-68	1971	NM AES	CS18:164
16	Acala 1517E-2	B344		CV-78	1978	NM AES	CS20:113
17	Acala 1517V	6612 (1964); 9450 (1969)		CV-65	1964	NM AES & ARS-USDA	CS18:163; Staten 1971
18	Acala Maxxa	C-4164	9000168		1990	CPCSD, Shafter, CA	H.B. Cooper/PC
19	Acala Nem-X	N-657, C-225	9500225			CPCSD, Shafter, CA	S.R. Oakley/PC
20	Acala Prema	C-32	8800171		1988	CPCSD, Shafter, CA	H.B. Cooper/PC
21	Acala Royale	C-4226	9000173		1990	CPCSD, Shafter, CA	H.B. Cooper/PC
22	Acala SJ-2				1973	USDA-ARS, Shafter, CA	S.R. Oakley/PC
23	Acala SJ-3				1975	USDA-ARS, Shafter, CA	S.R. Oakley/PC
24	Acala SJ-4				1976	USDA-ARS, Shafter, CA	S.R. Oakley/PC
25	Acala SJ-5				1977	USDA-ARS, Shafter, CA	S.R. Oakley/PC
26	Acala SJ-1				1983	CPCSD, Shafter, CA	S.R. Oakley/PC
27	All-Tex 857					All-Tex Seed Co., Leveland, TX	Metzer & Supak, 1990
28	All-Tex Atlas	All-Tex 85039	9200188		1993	All-Tex Seed Co., Leveland, TX	PVP Exhibit A
29	All-Tex E-2					All-Tex Seed Co., Leveland, TX	Metzer & Supak, 1990
30	All-Tex Excess	All-Tex 85041	9200224		1993	All-Tex Seed Co., Leveland, TX	PVP Exhibit A
31	All-Tex Max-9	All-Tex 85034	9200189		1992	All-Tex Seed Co., Leveland, TX	PVP Exhibit A
32	All-Tex Quickie	21-S-1-87			1986	All-Tex Seed Co., Leveland, TX	Metzer & Supak, 1990

Table 1. Continued.

Ref. no.	Cultivar name	Experimental designation	PVP#	CS reg. no.	Year	Originator or Owner	Reference for pedigree
33	All-Tex Wilmaster 571					All-Tex Seed Co., Leveland, TX	Metzer & Supak, 1990
34	All-Tex Xpress	88009	9500166		1995	All-Tex Seed Co., Leveland, TX	Mike Nelson/PC
35	Apache	X2679	9600285		1995	Brownfield Seed & Delinting Co., Bfld, TX	Bob Dumas/PC
36	Arkot 518	U Ark 7518(2402)	8700165	CV-91	1987	AR AES	CS 28:190
37	AZ 64	AZ6401			1972	AZ AES	AZ AES release memo
38	BC 4		9500125			Raymond E. Bird, Reedley, CA	PVP (Pending)
39	Bianco 3563		7100051			Growers Seed Assn., Lubbock, TX	PVP Exhibit A
40	Blightmaster A-5					TX AES & USDA-ARS, Lubbock, TX	Metzer & Supak, 1990
41	BR-636		9000212		1990	Ron Thorp, Stanfield, AZ	R.G. Ward/PC
42	Bronco 360		8900114			Bronco Seed Co., Stamford, TX	Metzer & Supak, 1990
43	Bronco 414					Bronco Seed Co., Stamford, TX	Metzer & Supak, 1990
44	Bronco 625		8300124			Bronco Seed Co., Stamford, TX	Metzer & Supak, 1990
45	Bronco 693					Bronco Seed Co., Stamford, TX	Q. Adams/PC
46	BXN 57		9500139			Stoneville Pedigreed Seed Co., Leland, MS	D. Panter/PC
47	BXN 58		9500138			Stoneville Pedigreed Seed Co., Leland, MS	D. Panter/PC
48	Cascot 2910					Custom Ag Services, Loraine, TX	Metzer & Supak, 1990
49	Cascot 392					Custom Ag Services, Loraine, TX	R. Bridge/PC
50	Cascot B-2		7700042			Custom Ag Services, Loraine, TX	Metzer et al., 1984
51	Cascot BR-1		8000032			Custom Ag Services, Loraine, TX	Metzer et al., 1984
52	Cascot C-13		8300034			Custom Ag Services, Loraine, TX	Metzer & Supak, 1990
53	Cascot L-7		7700043			Custom Ag Services, Loraine, TX	Metzer & Supak, 1990
54	CENCOT				1986	OK AES	L.M. Verhalen/PC
55	Coker 130		8900252		1990	Coker Pedigreed Seed Co., Hartsville, SC	L. McDonald & H.W. Webb/PC
56	Coker 139		8700070		1987	Coker Pedigreed Seed Co., Hartsville, SC	L. McDonald/PC
57	Coker 208		8300082		1983	Coker Pedigreed Seed Co., Hartsville, SC	L. McDonald/PC
58	Coker 304		7700024		1978	Coker Pedigreed Seed Co., Hartsville, SC	L. McDonald & H.W. Webb/PC
59	Coker 310		7100021		1971	Coker Pedigreed Seed Co., Hartsville, SC	Metzer et al., 1984
60	Coker 312		7200100		1972	Coker Pedigreed Seed Co., Lubbock, TX	L. McDonald & H.W. Webb/PC
61	Coker 3131		8100019		1983	Coker Pedigreed Seed Co., Hartsville, SC	Metzer et al., 1984
62	Coker 315		8000087		1979	Coker Pedigreed Seed Co., Hartsville, SC	L. McDonald & H.W. Webb/PC
63	Coker 320		8900290		1989	Coker Pedigreed Seed Co., Hartsville, SC	L. McDonald/PC
64	Coker 4101				1971	Coker Pedigreed Seed Co., Hartsville, SC	L. McDonald/PC
65	Coker 417				1970	Coker Pedigreed Seed Co., Hartsville, SC	H.W. Webb/PC

Table 1. Continued.

Ref. no.	Cultivar name	Experimental designation	PVP#	CS reg. no.	Year	Originator or Owner	Reference for pedigree
66	Coker 420		7900087			Coker Pedigreed Seed Co., Hartsville, SC	H.W. Webb/PC
67	Coker 4360		8200071		1982	Coker Pedigreed Seed Co., Lubbock, TX	L. McDonald/PC
68	Coker 500		8300078		1984	Coker Pedigreed Seed Co., Lubbock, TX	Metzer & Supak, 1990
69	Coker 5110		7200101		1971	Coker Pedigreed Seed Co., Lubbock, TX	Metzer & Supak, 1990
70	Coyote	Vreseis RB-RB-64	8900169			USDA, Shafter, CA	PVP Exhibit A
71	Crooked Row-1					Crooked Row Farms, Crosbyton, TX	Metzer & Supak, 1990
72	Dawson V-14		7900015			Dawson Seed Co., Lamesa, TX	Metzer et al., 1984
73	DC 81					Dawson Seed Co. Lamesa, TX	Metzer & Supak, 1990
74	DC 827				1989	Dawson Seed Co. Lamesa, TX	Metzer & Supak, 1990
75	DC 886				1989	Dawson Seed Co. Lamesa, TX	Metzer & Supak, 1990
76	Delcot 277	MO 63-277		CV-55	1972	MO AES & PSRD-ARS-USDA	CS12:126-127
77	Delcot 277J	MO 63-277J		CV-71	1978	MO AES	CS19:294
78	Delcot 311	MO 74-944	8100029	CV-79	1980	MO AES	CS20:669
79	Delcot 344	MO 78-344	8600161	CV-90	1986	MO AES	CS27:150
80	Delcot 390	MO 79-390		CV-84	1985	MO AES	CS25:198
81	Deltapine 120		8100072		1981	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
82	Deltapine 137		7300014		1974	Delta & Pine Land Co., Scott, MS	D. Keim/PC
83	Deltapine 20		8500110		1985	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
84	Deltapine 2156		9400147			Delta & Pine Land Co., Scott, MS	PVP (Pending)
85	Deltapine 25		7200016		1974	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
86	Deltapine 26		7800022		1975	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
87	Deltapine 30		8200029		1981	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
88	Deltapine 41		7900102		1979	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
89	Deltapine 50		8400154		1984	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
90	Deltapine 51		8900105		1990	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
91	Deltapine 5409		9300189			Delta & Pine Land Co., Scott, MS	PVP Exhibit A
92	Deltapine 5415		9100132		1990	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
93	Deltapine 5432		9400182			Delta & Pine Land Co., Scott, MS	PVP Exhibit A
94	Deltapine 5461		9100115			Delta & Pine Land Co., Scott, MS	PVP Exhibit A
95	Deltapine 55		7500103		1974	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
96	Deltapine 5611		9400116			Delta & Pine Land Co., Scott, MS	D. Keim/PC
97	Deltapine 5614		9100267			Delta & Pine Land Co., Scott, MS	PVP Exhibit A
98	Deltapine 5681		9300060			Delta & Pine Land Co., Scott, MS	PVP Exhibit A

Table 1. Continued.

Ref. no.	Cultivar name	Experimental designation	PVP#	CS reg. no.	Year	Originator or Owner	Reference for pedigree
99	Deltapine 5690		9100116		1990	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
100	Deltapine 5816		9100111			Delta & Pine Land Co., Scott, MS	PVP Exhibit A
101	Deltapine 61		7300103		1973	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
102	Deltapine 6100 Acala		9400109			Delta & Pine Land Co., Scott, MS	PVP Exhibit A
103	Deltapine 6166 Acala	DP 6	9100112			Delta & Pine Land Co., Scott, MS	PVP Exhibit A
104	Deltapine 62		8200111		1976	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
105	Deltapine 66		7400025		1974	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
106	Deltapine 69		8400130		1984	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
107	Deltapine 70		7800097		1979	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
108	Deltapine 77		8600073		1986	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
109	Deltapine 80		7800023		1977	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
110	Deltapine 826		7200143		1974	Delta & Pine Land Co., Scott, MS	D. Keim/PC
111	Deltapine Acala 90		8100143		1981	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
112	Deltapine NSL	Deltapine 7146N	8300112		1983	Delta & Pine Land Co., Scott, MS	Metzter et al., 1984
113	Deltapine SR-1		7200042			Delta & Pine Land Co., Scott, MS	L.M. Verhalen/PC
114	Deltapine SR-2		7200043			Delta & Pine Land Co., Scott, MS	Metzter & Supak, 1980
115	Deltapine SR-383		8200137			Delta & Pine Land Co., Scott, MS	Metzter & Supak, 1990
116	Deltapine SR-4		7500089		1976	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
117	Deltapine SR-482		8200067			Delta & Pine Land Co., Scott, MS	Metzter & Supak, 1990
118	Deltapine SR-5		8000052			Terra Seed Co., Lubbock, TX	K.R. Jones/PC
119	Deltapine SR-980		8100098		1981	Delta & Pine Land Co., Scott, MS	Metzter et al., 1984
120	DES 119	DES11913 or S11-19-27	8500176	CV-88	1985	MS Agric. Forestry Exp. Stn., Stoneville, MS	CS26:646-647
121	DES 24	DES 06-020-24	7800040	CV-69	1978	MS Agric. Forestry Exp. Stn., Stoneville, MS	CS18:523
122	DES 422		8100170	CV-80	1982	MS Agric. Forestry Exp. Stn., Stoneville, MS	CS22:1085
123	DES 56	DES2134-056	7800041	CV-70	1978	MS Agric. Forestry Exp. Stn., Stoneville, MS	CS18:524
124	Dixie King III		7300089		1973	MS Agric. Forestry Exp. Stn., Stoneville, MS	PVP Exhibit A
125	Dunn 1002		8500091		1986	Dunn Seed Farms, Seminole, TX	Metzter & Supak, 1990
126	Dunn 1047		8500090		1986	Dunn Seed Farms, Seminole, TX	Metzter & Supak, 1990
127	Dunn 109		8500089		1986	Dunn Seed Farms, Seminole, TX	J.L. Dunn/PC
128	Dunn 118		7100048		1974	Dunn Seed Farms, Seminole, TX	J.L. Dunn/PC
129	Dunn 119		7200098		1974	Dunn Seed Farms, Seminole, TX	J.L. Dunn/PC
130	Dunn 120		7400096		1975	Dunn Seed Farms, Seminole, TX	J.L. Dunn/PC
131	Dunn 1325					Dunn Seed Farms, Seminole, TX	Metzter & Supak, 1990

Table 1. Continued.

Ref. no.	Cultivar name	Experimental designation	PVP#	CS reg. no.	Year	Originator or Owner	Reference for pedigree
132	Dunn 1850					Dunn Seed Farms, Seminole, TX	R. Dunn/PC
133	Dunn 219		7900006		1980	Dunn Seed Farms, Seminole, TX	J.L. Dunn/PC
134	Dunn 224		8000129		1981	Dunn Seed Farms, Seminole, TX	J.L. Dunn/PC
135	Dunn 325		8500088		1986	Dunn Seed Farms, Seminole, TX	Metzer & Supak, 1990
136	Dunn 400		8800052			Dunn Seed Farms, Seminole, TX	Metzer & Supak, 1990
137	Dunn HS 120		8700210		1988	Dunn Seed Farms, Seminole, TX	Metzer & Supak, 1990
138	Earlycot 31		7300055			Agromomics Inc., Lubbock, TX	L.M. Vehalen/PC
139	Earlycot 32A				1984	Agromomics Inc., Lubbock, TX	Metzer et al., 1984
140	Earlycot 48				1984	Agromomics Inc., Lubbock, TX	Metzer et al., 1984
141	Earlycot WR					Agromomics Inc., Lubbock, TX	Metzer et al., 1984
142	El Dorado Acala		9600209			J.G Boswell, Corcoran, CA	PVP Exhibit A
143	G&P 1005		8300108			G&P Seed Co., Inc., Aquilla, TX	Metzer & Supak, 1990
144	G&P 1068		9500282			G&P Seed Co., Inc., Aquilla, TX	J. Nehring/PC
145	G&P 3755		7700019			G&P Seed Co., Inc., Aquilla, TX	Metzer & Supak, 1990
146	G&P 3774		7700018			G&P Seed Co., Inc., Aquilla, TX	Metzer & Supak, 1990
147	G&P 5479		8300033			G&P Seed Co., Inc., Aquilla, TX	Metzer & Supak, 1990
148	G&P 74+		9000019			G&P Seed Co., Inc., Aquilla, TX	Metzer & Supak, 1990
149	G&P 785		9500262			G&P Seed Co., Inc., Aquilla, TX	D. Bush/PC
150	GaCot 79	Frego 142		CV-76	1979	GA AES	J. Nehring/PC
151	Georgia King	GaT 85-278	9100257	CV-98	1990	GA AES	CS20:112
152	Germain's Acala GC-352		8500076		1984	Germain's Cotton Seeds, Inc., Bakersfield, CA	CS32:493
153	Germain's Acala GC-356		8800017		1985	Germain's Cotton Seeds, Inc., Bakersfield, CA	J.F. Mahill/PC
154	Germain's Acala GC-362		8400129		1983	Germain's Cotton Seeds, Inc., Bakersfield, CA	J.F. Mahill/PC
155	Germain's Acala GC-363		8100060		1981	Germain's Cotton Seeds, Inc., Bakersfield, CA	J.F. Mahill/PC
156	Germain's Acala GC-410		8700061		1983	Germain's Cotton Seeds, Inc., Bakersfield, CA	J.F. Mahill/PC
157	Germain's Acala GC-445		8100061		1981	Germain's Cotton Seeds, Inc., Bakersfield, CA	J.F. Mahill/PC
158	Germain's Acala GC-510		8200166		1984	Germain's Cotton Seeds, Inc., Bakersfield, CA	J.F. Mahill/PC
159	Germain's Acala GC-555		8100062		1980	Germain's Cotton Seeds, Inc., Bakersfield, CA	J.F. Mahill/PC
160	Germain's Acala GC-610		9300099			Germain's Cotton Seeds, Inc., Bakersfield, CA	PVP Exhibit A
161	Germain's Acala GC-702	GC-714	9000235			Germain's Cotton Seeds, Inc., Bakersfield, CA	PVP Exhibit A
162	Germain's GC-210	GC-8978	9300098			Germain's Cotton Seeds, Inc., Bakersfield, CA	PVP Exhibit A
163	Green	Vreseis G-A3PTab-b4	8900170			USDA, Shafter, CA	PVP Exhibit A
164	GSA 71		7400089			Gro-Agri Seed Co., Lubbock, TX	PVP Exhibit A

Table 1. Continued.

Ref. no.	Cultivar name	Experimental designation	PVP#	CS reg. no.	Year	Originator or Owner	Reference for pedigree
165	GSA 74		7900071			Gro-Agri Seed Co., Lubbock, TX	R. Phipps/PC
166	GSA 75		7605007			Gro-Agri Seed Co., Lubbock, TX	R. Phipps/PC
167	GSA 78		7900072			Gro-Agri Seed Co., Lubbock, TX	R. Phipps/PC
168	GSC 1093		9000032			Gro-Agri Seed Co., Lubbock, TX	R. Phipps/PC
169	GSC 20		8400101			Gro-Agri Seed Co., Lubbock, TX	R. Phipps/PC
170	GSC 25		8400057			Gro-Agri Seed Co., Lubbock, TX	Metzer & Supak, 1990
171	GSC 27		8700005			Gro-Agri Seed Co., Lubbock, TX	Metzer & Supak, 1990
172	GSC 30		8800048			Gro-Agri Seed Co., Lubbock, TX	Metzer & Supak, 1990
173	GSC 71+		8700006			Gro-Agri Seed Co., Lubbock, TX	Metzer & Supak, 1990
174	Gumbo	La. Okra 25			1976	LA AES	LA LAES Circular No. 103
175	Gumbo 500				1981	LA AES	LA LAES Circular No. 114
176	H 1215		9400118	CV-112		LA AES	CS 37: vol 3, In press
177	H 1220		9400119	CV-113		LA AES	CS 37: vol 3, In press
178	H 1244		9400120	CV-114		LA AES	CS 37: vol 3, In press
179	Hancock	T59-134		CV-56	1972	TN AES	CS 12:714
180	Hartz H1330	8518-18 and Ark 818	9400270	CV-108		AR AES	CS 36:813
181	Highland 34					Brownfield Seed & Delimiting Co., B'fld, TX	Metzer & Supak, 1990
182	Highland 52					Brownfield Seed & Delimiting Co., B'fld, TX	Metzer & Supak, 1990
183	Holland 1379					Holland Cottonseed Co., Big Spring, TX	Metzer & Supak, 1990
184	Holland 186	HX 186	9600141		1994	Holland Cottonseed Co., Big Spring, TX	R. Holland/PC
185	Holland 1919		?			Holland Cottonseed Co., Big Spring, TX	R. Holland/PC
186	Holland 4002					Holland Cottonseed Co., Big Spring, TX	Metzer & Supak, 1990
187	Holland 850	HOX 850	9400132		1993	Holland Cottonseed Co., Big Spring, TX	Metzer & Supak, 1990
188	HS 23		9000150		1990	Hyperformer Seed Co., Memphis, TN	D. Bush/PC
189	HS 44		9300041			J&S Research Co., Tempe, AZ	Al Hoggard/PC
190	HS 46		8900104		1989	Hyperformer Seed Co., Memphis, TN	Al Hoggard/PC
191	HS Salcot 10		9100145		1990	J&S Research Co., Tempe, AZ	Al Hoggard/PC
192	Hurd 570					Hurd's Quality Seeds, Lubbock, TX	Metzer et al., 1984
193	Hurd 580					Hurd's Quality Seeds, Lubbock, TX	Metzer et al., 1984
194	Hurd 590					Hurd's Quality Seeds, Lubbock, TX	Metzer et al., 1984
195	Hurd 700					Hurd's Quality Seeds, Lubbock, TX	Metzer et al., 1984
196	Hurd 750					Hurd's Quality Seeds, Lubbock, TX	Metzer et al., 1984
197	Hurd 850					Hurd's Quality Seeds, Lubbock, TX	Metzer et al., 1984

Table 1. Continued.

Ref. no.	Cultivar name	Experimental designation	PVP#	CS reg. no.	Year	Originator or Owner	Reference for pedigree
198	Hurdtt 900					Hurd't's Quality Seeds, Lubbock, TX	Metzer et al., 1984
199	HY 007	HOX 852	?			Holland Cottonseed Co., Big Spring, TX	R. Holland/PC
200	HY 39	SS109-5	9200241			Hyperformer Seed Co., Memphis, TN	PVP Exhibit A
201	KC 311		8800197			Northrup King, Hartsville, SC	D.L. Burns/PC
202	KC 380		8700069			Northrup King, Hartsville, SC	D.L. Burns/PC
203	Kings Acala M5		8900026			J.G. Boswell Co., Corcoran, CA	PVP Exhibit A
204	Kings Acala Plus		9400252			J.G. Boswell Co., Corcoran, CA	J. Pellow/PC
205	KSA81M			CV-102	1989	Nat'l Fibre Res. Ctr., Keyna	CS33:212
206	LA 887	LA830887	9100065	CV-97	1990	LA AES	CS31:1701
207	Lambright 2020		8800085			Lambright Pedigree Seed Co., Station, TX	J.H. Lambright/PC
208	Lambright 2020 A		9500274			Lambright Pedigree Seed Co., Station, TX	J.H. Lambright/PC
209	Lambright GL-4		7200092			Lambright Pedigree Seed Co., Station, TX	J.H. Lambright/PC
210	Lambright GL-5		7500029			Lambright Pedigree Seed Co., Station, TX	J.H. Lambright/PC
211	Lambright GL-F		7800029			Lambright Pedigree Seed Co., Station, TX	J.H. Lambright/PC
212	Lambright GL-N		7500028			Lambright Pedigree Seed Co., Station, TX	J.H. Lambright/PC
213	Lambright L-X-28		7200090			Lambright Pedigree Seed Co., Station, TX	J.H. Lambright/PC
214	Lambright X-15-3-A		7200089			Lambright Pedigree Seed Co., Station, TX	J.H. Lambright/PC
215	Lambright X-15-4		7200091			Lambright Pedigree Seed Co., Station, TX	J.H. Lambright/PC
216	Lamesa 5					Dawson County Seed Co., Lamesa, TX	Metzer et al., 1984
217	Lamesa 8					Dawson County Seed Co., Lamesa, TX	Metzer et al., 1984
218	Lankart 142		9000215		1987	Lankart Seed Farms, Waco, TX	R.H. Sheetz/PC
219	Lankart 175		8400153		1976	Lankart Seed Farms, Waco, TX	Metzer & Supak, 1990
220	Lankart 311		8700086		1986	Lankart Seed Farms, Waco, TX	Metzer & Supak, 1990
221	Lankart 511		8600086		1984	Lankart Seed Farms, Waco, TX	Metzer & Supak, 1990
222	Lankart LX 571		7200018			Lankart Seed Farms, Waco, TX	Metzer & Supak, 1990
223	Lankart PR 75		8000135		1980	Pioneer Hybrid Seed Co., Plainview, TX	Metzer & Supak, 1990
224	Lockett 77		7500084		1975	Lockett Seed Co., Lockett, TX	Metzer et al., 1984
225	Lockett BXL		7100026		1970	Lockett Seed Co., Lockett, TX	R.H. Sheetz/PC
226	McDonald 3					Dawson Seed Co., Lamesa, TX	Metzer & Supak, 1990
227	McNair 210		7100090		1970	McNair Seed Co., Laurinburg, NC	D.L. Burns/PC
228	McNair 220		7600077		1976	McNair Seed Co., Laurinburg, NC	Metzer & Supak, 1990
229	McNair 235					McNair Seed Co., Laurinburg, NC	Metzer & Supak, 1990
230	McNair 511		7200095		1971	McNair Seed Co., Laurinburg, NC	D.L. Burns/PC

Table 1. Continued.

Ref. no.	Cultivar name	Experimental designation	PVP#	CS reg. no.	Year	Originator or Owner	Reference for pedigree
231	McNair 612		7400023		1975	McNair Seed Co., Laurinburg, NC	D.L. Burns/PC
232	MDS1ne			CV-103	1991	USDA-ARS, Stonville, MS	CS33:1415
233	New Mexico Acala #20		7605014			Private Grower	PVP Exhibit A
234	Northern Star 5					Northern Star Seed Farms, Lubbock, TX	Metzer et al., 1984
235	Northern Star 998					Northern Star Seed Farms, Lubbock, TX	Metzer et al., 1984
236	Northern Star R-4A					Northern Star Seed Farms, Lubbock, TX	Metzer et al., 1984
237	NuCotn 33		9500109			Delta & Pine Land Co., Scott, MS	D. Keim/PC
238	NuCotn 35		9500110			Delta & Pine Land Co., Scott, MS	PVP Exhibit A
239	NuCotn 64		9500111			Delta & Pine Land Co., Scott, MS	PVP Exhibit A
240	NuCotn 66		9500112			Delta & Pine Land Co., Scott, MS	PVP Exhibit A
241	NuCotn 68		9500113			Delta & Pine Land Co., Scott, MS	PVP Exhibit A
242	Paymaster 101-B		7200072			Paymaster Technologies, Inc., Aiken, TX	R.H. Sheetz/PC
243	Paymaster 111-A		7200071			Paymaster Technologies, Inc., Aiken, TX	R.H. Sheetz/PC
244	Paymaster 145				1976	Paymaster Technologies, Inc., Aiken, TX	Metzer et al., 1984
245	Paymaster 147		8900269		1984	Paymaster Technologies, Inc., Aiken, TX	Metzer & Supak, 1990
246	Paymaster 266		7600043		1971	Paymaster Technologies, Inc., Aiken, TX	Metzer & Supak, 1990
247	Paymaster 303		7500060		1974	Paymaster Technologies, Inc., Aiken, TX	Metzer & Supak, 1990
248	Paymaster 404		8000081		1979	Paymaster Technologies, Inc., Aiken, TX	Metzer & Supak, 1990
249	Paymaster 505				1987	Paymaster Technologies, Inc., Aiken, TX	Metzer & Supak, 1990
250	Paymaster 784		7700054		1975	Paymaster Technologies, Inc., Aiken, TX	R.H. Sheetz/PC
251	Paymaster 785		7700076		1972	Paymaster Technologies, Inc., Aiken, TX	R.H. Sheetz/PC
252	Paymaster 792		7700077		1973	Paymaster Technologies, Inc., Aiken, TX	R.H. Sheetz/PC
253	Paymaster 892		8900270		1984	Paymaster Technologies, Inc., Aiken, TX	R.H. Sheetz/PC
254	Paymaster Dwarf		7300013		1968	Paymaster Technologies, Inc., Aiken, TX	R.H. Sheetz/PC
255	Paymaster HS 26		8600087		1983	Paymaster Technologies, Inc., Aiken, TX	R.H. Sheetz/PC
256	Paymaster HS200		9000216		1986	Paymaster Technologies, Inc., Aiken, TX	R.H. Sheetz/PC
257	Paymaster PM 183		9500156			Paymaster Technologies, Inc., Aiken, TX	R.H. Sheetz/PC
258	Paymaster PM 280		9500157			Paymaster Technologies, Inc., Aiken, TX	R.H. Sheetz/PC
259	Paymaster PM 330		9500158			Paymaster Technologies, Inc., Aiken, TX	R.H. Sheetz/PC
260	PD-1	PD4548		CV-85	1985	USDA-ARS & SC AES	CS25:198
261	PD-2	PD6520		CV-86	1985	USDA-ARS & SC AES	CS25:198-190
262	PD-3	PD6208	8800117	CV-92	1988	USDA-ARS & SC AES	CS28:190
263	Pioneer Brand PR 68		7800104		1978	Pioneer Hybrid Seed Co., Plainview, TX	Metzer et al., 1984

Table 1. Continued.

Ref. no.	Cultivar name	Experimental designation	PVP#	CS reg. no.	Year	Originator or Owner	Reference for pedigree
264	PR 80		8000136			Pioneer Hybrid Seed Co., Plainview, TX	Metzer & Supak, 1990
265	Prolific Stormproof					Von Roeder Seed Farms, Snyder, TX	Metzer et al., 1984
266	Pronto				1976	LA AES	LA LAES Circular No. 103
267	Quapaw	61-28 or 62-5 or 63-22	7200069			Rogers Cotton Seed Co., Waco, TX	PVP Exhibit A
268	Quapaw D		8600085			Rogers Cotton Seed Co., Waco, TX	PVP Exhibit A
269	Ranger 55					Ranger Seed Co., Tahoka, TX	Metzer et al., 1984
270	Ranger 64-2					Ranger Seed Co., Tahoka, TX	Metzer & Supak, 1990
271	Ranger BB-53					Ranger Seed Co., Tahoka, TX	Metzer et al., 1984
272	Ranger RV-12					Ranger Seed Co., Tahoka, TX	Metzer et al., 1984
273	Ranger RV-64					Ranger Seed Co., Tahoka, TX	Metzer et al., 1984
274	Ranger TM-62					Ranger Seed Co., Tahoka, TX	Metzer et al., 1984
275	Rex 713		7700028			AR AES	PVP Exhibit A
276	Rilcot 90					Rilcot Seed Co., Littlefield, TX	Metzer et al., 1984
277	Rilcot 90-A		7600042			Rilcot Seed Co., Littlefield, TX	Metzer & Supak, 1990
278	Rilcot 95					Rilcot Seed Co., Littlefield, TX	Metzer et al., 1984
279	Rilcot Balebuster-1					Rilcot Seed Co., Littlefield, TX	Metzer et al., 1984
280	Rilcot Drylander 289					Rilcot Seed Co., Littlefield, TX	Metzer et al., 1984
281	Rilcot RK-6					Rilcot Seed Co., Littlefield, TX	Metzer et al., 1984
282	Rilcot Stripper N		7100027			Rilcot Seed Co., Littlefield, TX	Metzer et al., 1984
283	Rogers 7590		8500213		1986	Rogers Cotton Seed Co., Waco, TX	Metzer et al., 1984
284	Rogers GL-6		7200059			Rogers Cotton Seed Co., Waco, TX	PVP Exhibit A
285	Rogers LG 86		8900125		1986	Rogers Cotton Seed Co., Waco, TX	PVP Exhibit A
286	Rogers LG-10		7900030			Rogers Cotton Seed Co., Waco, TX	Metzer et al., 1984
287	Rogers LG-102		8100024			Rogers Cotton Seed Co., Waco, TX	Metzer et al., 1984
288	S-35		8900207			Seed Source, Inc., Leland, MS	J.M. Green/PC
289	S-55		8900208			Seed Source, Inc., Leland, MS	J.M. Green/PC
290	San Simon Del Cerro		9000256				PVP Exhibit A
291	SC-1	PD9241			1979	AR-SEA-USDA & SC AES	CS19-410
292	Si Samrong 60	AG 18			1988	Field Crops Res. Inst., Thailand	CS29-236
293	Simwalt 82		8400010		1982	OK AES	L.M. Verhalen/PC
294	SNI-15		9500099			Shades of Nature, Int'l	PVP (Pending)
295	Southland 400		9000154		1986	Southland Seed Co., Slaton, TX	PVP Exhibit A
296	Southland M1		8900078		1986	Southland Seed Co., Slaton, TX	PVP Exhibit A

Table 1. Continued.

Ref. no.	Cultivar name	Experimental designation	PVP#	CS reg. no.	Year	Originator or Owner	Reference for pedigree
297	Southwest 222					Technical Seed Proc., Brownfield, TX	Metzer & Supak, 1990
298	Southwest 227					Technical Seed Proc., Brownfield, TX	Metzer & Supak, 1990
299	Southwest 584					Technical Seed Proc., Brownfield, TX	Metzer & Supak, 1990
300	SS 100		9500081			Seed Source, Inc., Stoneville, MS	PVP Exhibit A
301	Stoneville 112		8500162		1985	Stoneville Pedigreed Seed Co., Stoneville, MS	L. McDonald/PC
302	Stoneville 132	ST69132	9300070		1992	Stoneville Pedigreed Seed Co., Stoneville, MS	PVP Exhibit A
303	Stoneville 256		7500102		1977	Stoneville Pedigreed Seed Co., Stoneville, MS	L. McDonald/PC
304	Stoneville 302		8200051		1981	Stoneville Pedigreed Seed Co., Stoneville, MS	L. McDonald/PC
305	Stoneville 324	01324	9200054			Stoneville Pedigreed Seed Co., Stoneville, MS	PVP Exhibit A
306	Stoneville 453		8800173		1988	Stoneville Pedigreed Seed Co., Stoneville, MS	D.M. Panter/PC
307	Stoneville 474	STX 9573	9400152			Stoneville Pedigreed Seed Co., Stoneville, MS	D.M. Panter/PC
308	Stoneville 495	STX 94332	9600108			Stoneville Pedigreed Seed Co., Stoneville, MS	D.M. Panter/PC
309	Stoneville 506		8100059		1982	Stoneville Pedigreed Seed Co., Stoneville, MS	D.M. Panter/PC
310	Stoneville 603		7300057		1975	Stoneville Pedigreed Seed Co., Stoneville, MS	D.M. Panter/PC
311	Stoneville 731N		7600048		1977	Stoneville Pedigreed Seed Co., Stoneville, MS	D.M. Panter/PC
312	Stoneville 825		7900024		1981	Stoneville Pedigreed Seed Co., Stoneville, MS	D.M. Panter/PC
313	Stoneville 907	ST 89545, ST 7907	9200016		1991	Stoneville Pedigreed Seed Co., Stoneville, MS	D.M. Panter/PC
314	Stoneville BR-110		8500031		1985	Ron Thorp, Stanfield, AZ	Metzer & Supak, 1990
315	Stoneville BR-115		8700136		1987	Ron Thorp, Stanfield, AZ	Metzer & Supak, 1990
316	Stripper 31A		7400088			Gro-Agri, Lubbock, TX	Metzer et al., 1984
317	Stroman 254					GroAgri Seed Co., Lubbock, TX	Metzer & Supak, 1990
318	Sure-Grow 1001		9000138			Sure-Grow, Leland, MS	R.R. Bridge/PC
319	Sure-Grow 125		9400063			Sure-Grow, Leland, MS	PVP Exhibit A
320	Sure-Grow 404		9400049			Sure-Grow, Leland, MS	PVP Exhibit A
321	Sure-Grow 501		9300173			Sure-Grow, Leland, MS	PVP Exhibit A
322	SV 13		8500056		1986	J&S Research Co., Tempe, AZ	PVP Exhibit A
323	SV 93		8500075		1985	J&S Research Co., Tempe, AZ	PVP Exhibit A
324	Tacmot 2111	2111-5-84, TAM 2111	9100221			TX AES	PVP Exhibit A
325	Tacmot 788					TX AES	Metzer et al., 1984
326	Tacmot CAB-CS	TX-CABCS-1-81	8500066		1985	TX AES	CS 26:384-385
327	Tacmot CAMD-E	203Q,B.V.72 and H6-2-72	7800073		1977	TX AES	CS19:411-412, TAES Bull. L-1720
328	Tacmot CD3H	TX-CPD3/THH-1-83	8600164		1986	TX AES	CS28:574-578
329	Tacmot GCNH	TX-GCANH-1-83	8700141		1988	TX AES	TAES BUL. L-2266

Table 1. Continued.

Ref. no.	Cultivar name	Experimental designation	PVP#	CS reg. no.	Year	Originator or Owner	Reference for pedigree
330	Tamcot HQ95	MAR-CABUCD3H-1-86	9000092	CV-96	1990	TX AES	CS30:1359-1360
331	Tamcot SP21		7200047	CV-61	1971	TX AES	CS16:884
332	Tamcot SP21S	TX-CAMD-S	7800074	CV-73	1977	TX AES	CS19:410
333	Tamcot SP23		7200045	CV-62	1971	TX AES	CS16:884
334	Tamcot SP37		7200046	CV-63	1971	TX AES	CS16:884
335	Tamcot SP37H	TX-CAMD-H	7800096	CV-75	1977	TX AES	CS19:412, TAES Bull. L-1672
336	Tamcot Sphinx	MAR-CD3PIHP45H-1-89	9600134	CV-109	1995	TX AES	CS 36:1074
337	Tejas		9500252			Brownfield Seed & Deinting Co., B'fld, TX	B. Dumas/PC
338	Terra 207		8800133			Terra Industries, Inc., Memphis, TN	F.M. Miller/PC
339	Terra 292	HAS 229, Terra 90-292-91E	9200150			Terra Industries, Inc., Memphis, TN	PVP Exhibit A
340	Terra 302		9500072			Terra Industries, Inc., Memphis, TN	PVP Exhibit A
341	Terra 366		9500073			Terra Industries, Inc., Memphis, TN	PVP Exhibit A
342	Terra C-30		8500155			Terra Industries, Inc., Memphis, TN	Metzer & Supak, 1990
343	Terra C-40		8500154			Terra Industries, Inc., Memphis, TN	Metzer & Supak, 1990
344	Terra SR-10		8500088			Terra Industries, Inc., Memphis, TN	Metzer & Supak, 1990
345	Thorpe		7300092		1973	OK AES & USDA-ARS	L.M. Verhalen/PC
346	Tifoot 56		8700152			GA AES	S.H. Baker/PC
347	TPSA 1633	65-PR-1633	7200081		1972	Texas Planting Seed Assn.	PVP Exhibit A
348	TSP 333-HS					Technical Seed Proc., Brownfield, TX	Metzer & Supak, 1990
349	UAPX-001		9500103			L.N. Namken, Weslaco, TX	PVP Exhibit A
350	UAPX-003		9500104			L.N. Namken, Weslaco, TX	PVP Exhibit A
351	UAPX-006		9500105			L.N. Namken, Weslaco, TX	PVP Exhibit A
352	Westburn 70			CV-54	1971	OK AES & CRD-ARS-USDA	CS11:132
353	Westburn M		7700049		1976	OK AES & CRD-ARS-USDA	Metzer et al., 1984
354	Western 44					Von Roeder Seed Farms, Snyder, TX	Metzer et al., 1984
355	Willmaster 569					All-Tex Seed Co., Levelland, TX	Metzer et al., 1984
356	Willmaster 571					All-Tex Seed Co., Levelland, TX	Metzer et al., 1984

Table 1. Continued.

Ref. no.	Cultivar name	Experimental designation	PVP#	CS reg. no.	Year	Originator or Owner	Reference for pedigree
Pima Cottons							
1	Buffalo		9400039			Sally Vreseis Fox	PVP Exhibit A
2	CH252		9000211		1989	Chaney Ranch, CA	PVP Exhibit A
3	CH253		9000221		1989	Chaney Ranch, CA	PVP Exhibit A
4	Conquistador	O&A 312	9500108			Olvey & Assoc., Maricopa, AZ	PVP Exhibit A
5	Deitapine 9911 Pima		9400117			Delta and Pine Land Co., Scott, MS	PVP (Pending)
6	OA-304	E421	9500107			Olvey & Assoc., Maricopa, AZ	PVP Exhibit A
7	Oro Blanco Pima		9300175			J.G. Boswell Co., Corcoran, CA	H.B. Cooper/PC
8	Palo Verde		9400040			Sally Vreseis Fox	PVP Exhibit A
9	Pima S-5	P-29		CV-60	1975	USDA-ARS & AZ, NM & TX AES	CS16:604
10	Pima S-6			CV-81	1984	USDA-ARS & AZ, NM & TX AES	CS24:382
11	Pima S-7			CV-101	1991	USDA-ARS & AZ AES	CS32:1291

Table 2. Pedigrees of cotton cultivars released between 1970 and 1995.

Ref. no.	Cultivar name	Pedigree	Notes on Pedigree
Upland Cottons			
1	173-90	No information available at this printing	
2	7563	PM 266-69/Lockett 99-1	Lockett 99-1=Lockett 4789-A/Lubbock 4; Parents in Table 3
3	9023	Southland 400/CA3026	CA3026 (Table 3)
4	Acala 1517-70	B1413/Hopicala	B1413=250/49W//250/9136 (Parents in Table 3); Hopicala (Table 3)
5	Acala 1517-75	Acala 688/Acala 9608	688=Sib. Acala 1517V; 9608=DP14/K3131; K3131 From Africa; DP 14 (Table 3)
6	Acala 1517-77	Acala 1517-70/Unknown Storm Resistant	
7	Acala 1517-77BR	Sel. Acala 1517-77	
8	Acala 1517-88	Acala 1517-77BR/DP 70	
9	Acala 1517-91	Acala 8130/Acala 8874	8130=Sel. Acala 1517-70; Acala 8874 (Table 3)
10	Acala 1517-95	Acala 3080/PD2165	Acala 3080=NMB3080 (Table 3); PD2165 (Table 3)
11	Acala 1517-SR1	Acala 1517-E1/Unknown Storm Resistant	
12	Acala 1517-SR2	Acala 1517-E1/Unknown Storm Resistant	Sib. Acala 1517-SR1
13	Acala 1517-SR3	Acala 1517-E1/Unknown Storm Resistant	Same pedigree as Acala 1516-SR2, with additional selection for verticillium wilt tolerance
14	Acala 1517C	1544/1557	Pedigree of 1544 and 1557 lost in fire; Possible sib of original Acala 1517
15	Acala 1517E-1	Acala 3080/PD2165	Acala 3080=NMB3080 (Table 3); PD2165 (Table 3)
16	Acala 1517E-2	Sel. Acala 1517E-1	
17	Acala 1517V	Acala 2503/Coquette	Parents in Table 3
18	Acala Maxxa	T7538/S4959	T7538=S196/NM1900-1; S4959=I2302-4/C6TE/NMB7378; Parents in Table 3
19	Acala Nem-X	B1662/N-3	B1662=T6754/T7044; N-3=Sel. N6072; N6072=I2302/Tanguis; Parents in Table 3
20	Acala Prema	T4584/T5692	T4584=AXTE-11/NM49-2; T5692=C6TE/NMB3080; Parents in Table 3
21	Acala Royale	T6754/T7044	T6754=C6TE/NMB3080; T7044=AXTE1-57/Tex E364; Parents in Table 3
22	Acala SJ-2	AXTE-1/NM 2302	(Multiline of 5918 & 5845); Parents in Table 3
23	Acala SJ-3	C6TE/NMB7378	Parents in Table 3
24	Acala SJ-4	C6TE/NMB3080	From F4 Bulk, Parents in Table 3
25	Acala SJ-5	C6TE/NMB3080	From F5 Bulk; Parents in Table 3
26	Acala SJ-C-1	C6TE/NMB3080/NM7403/Acala 4-42-77	Sib of Acala GC-510; Parents in Table 3
27	All-Tex 857	Sel. Lankart 57	Table 3
28	All-Tex Atlas	CA 3006/Sel. PM HS 26	CA 3006 in Table 3
29	All-Tex E-2	Tamcot CAMD-E/PM 792	
30	All-Tex Excess	CA 3004/PM 145	CA 3004 in Table 3
31	All-Tex Max-9	CA 3006/DP Acala 90	CA 3006 in Table 3

Table 2. Continued.

Ref. no.	Cultivar name	Pedigree	Notes on Pedigree
32	All-Tex Quickie	ORHU-1-78/Tamcot CAMD-E	ORHU-1-78 (Table 3)
33	All-Tex Wiltmaster 571	CA 803/AZ 6024	Parents in Table 3
34	All-Tex Xpress	Sel. All-Tex Quickie	
35	Apache	PM 145/DP SR383	
36	Arkot 518	Rex 713/CKR 304	
37	AZ 64	AC239/AZ6010	AC239 = presumed sel. Pee Dee line AC (Table 3); AZ6010 (Table 3)
38	BC 4	No information available at this printing	
39	Bianco 3363	CA398/Lankart 611	Parents in Table 3
40	Blightmaster A-5	Stormmaster/Stoneville 20/Acala 5675/3/Stormmaster	Parents in Table 3; Same pedigree as Blightmaster and CA291A (Table 3)
41	BR-636	DP 70/DP Acala 90	
42	Bronco 360	Lankart G-3/Lankart 6024	Lankart 6024=Lankart/Acala; Lankart 6024=Lankart/AZ6024?
43	Bronco 414	Sel. Lankart KC-G3-14124	
44	Bronco 625	Sel. Lankart 57	Table 3
45	Bronco 693	PM 303-T/61M283/PM145	61M283=Empire/Acala; Empire (Table 3)
46	BXN 57	Sel. CKR 315 with BXN gene via tissue culture transformation	BXN gene confers resistance to herbicide Bromoxynil
47	BXN 58	Sel. CKR 315 with BXN gene via tissue culture transformation	BXN gene confers resistance to herbicide Bromoxynil
48	Cascot 2910	Sel. Cascot BR-1C	Cascot BR-1C=Sel. Bonham; Bonham (Table 3)
49	Cascot 392	LE68-73/DES 56	
50	Cascot B-2	Sel. TX-Bonham	Bonham (Table 3)
51	Cascot BR-1	Sel. TX-Bonham	Bonham (Table 3)
52	Cascot C-13	Sel. TX-Bonham	Bonham (Table 3)
53	Cascot L-7	Sel. TX-Lewis	Lewis (Table 3)
54	CENCOT	Sel. Westburn M	
55	Coker 130	CKR 315/McNair 220	
56	Coker 139	DES 56/CKR 310	
57	Coker 208	CKR 8103/CKR 201	CKR 8103=Sib. CKR 310; CKR 201 (Table 3)
58	Coker 304	Sel. CKR 310	
59	Coker 310	CKR 100 Staple/DP 15	Parents in Table 3
60	Coker 312	Sel. CKR 310	
61	Coker 3131	CKR 310/CKR 5114	L. McDonald/PC has, CKR 310/CKR 67-109
62	Coker 315	CKR 310/CKR 8103	CKR 8103=Sib. CKR 310
63	Coker 320	CKR 315/McNair 220	
64	Coker 4101	Coker 100 Staple/DP 15	Parents in Table 3

Table 2. Continued.

Ref. no.	Cultivar name	Pedigree	Notes on Pedigree
65	Coker 417	Sel. CKR 413	Coker 413 (Table 3)
66	Coker 420	CKR 310/CKR 413	Coker 413 (Table 3)
67	Coker 4360	CKR 310/PM 111A	
68	Coker 500	CKR 310/Tamcot 788A	Tamcot 788A (Table 3)
69	Coker 5110	CKR 100 Staple/DP 15	Parents in Table 3
70	Coyote	Sel. Colored-lint Cotton, USDA, Shafter	No additional info. available
71	Crooked Row-1	CA1073//CA491/AZ6024	Parents in Table 3
72	Dawson V-14	Sel. CA 614	CA614 (Table 3)
73	DC 81	Sel. CA1073	CA1073 (Table 3)
74	DC 827	Sel. Delcott 277	
75	DC 886	Sel. CA491-714	CA491 (Table 3)
76	Delcot 277	Rex//TJ/EF 310	Rex (Table 3); TJ/EF310 (Table 3 in PD germplasm section); Diagram in Fig. 15
77	Delcot 277J	Sel. Delcot 277	i.e. Sel. of S65-396, a component of Delcot 277
78	Delcot 311	Complex (Sel. Delcot 277, Auburn 56, MO-Del, 101-102B)	Details not given
79	Delcot 344	CKR 310*4/MDR (i.e. Multiple Disease Resistant) Delcot Lines	MDR=Complex (Delcot 277, MO-DEL, Aub.56, Oklahoma 20, 101-102B)
80	Delcot 390	MO63-277BR2A/HYC74-283//MO63-277BR2A	Parents in Table 3
81	Deltapine 120	DP 66/DP 55	
82	Deltapine 137	DP 5540-611-73-84/DP Smoothleaf	DP5540 (Table 3); DP Smoothleaf (Table 3)
83	Deltapine 20	DP 16//DP Smoothleaf/DP 45/3/DES 56 (or DP 16/DES 56)	DP 16, DP Smoothleaf, and DP 45 in Table 3; DP 16= DP Smoothleaf/DP 45
84	Deltapine 2156	Unknkown	
85	Deltapine 25	DP 45/STV 7A	Parents in Table 3
86	Deltapine 26	DP 45/STV 7A	Parents in Table 3
87	Deltapine 30	Sel. DP 66	
88	Deltapine 41	DP 55/STV 603	
89	Deltapine 50	DP 16//DP Smoothleaf/DP 45/3/DES 56 (or DP 16/DES 56)	DP 16, DP Smoothleaf, and DP 45 in Table 3; DP 16= DP Smoothleaf/DP 45
90	Deltapine 51	Sel. DP 50	
91	Deltapine 5409	DP 50/ DP Acala 90	
92	Deltapine 5415	DP 50/DP Acala 90	
93	Deltapine 5432	DP 5461/ DP 77	
94	Deltapine 5461	DP 41/DP experimental 737-451-79-B	
95	Deltapine 55	DP 16/STV 7A	Parents in Table 3
96	Deltapine 5611	DP Acala 90/SJ80B4F1	No additional info. available for SJ80B4F1
97	Deltapine 5614	DES 56/McNair 235	

Table 2. Continued.

Ref. no.	Cultivar name	Pedigree	Notes on Pedigree
98	Deltapine 5681	DP Acala 90/DP 80	
99	Deltapine 5690	DP Acala 90/DP 80	
100	Deltapine 5816	DP Acala 90/DP 69	
101	Deltapine 61	Sel. DP 16	1 of 4 Component lines in DP 16 (DP 16 in Table 3)
102	Deltapine 6100 Acala	DP exp. strain 90-31Y/CPCSD exp. strain C-7	No additional info. on 90-31Y; C-7 = S-6538 = S195/NM1986-3
103	Deltapine 6166 Acala	Acala T6310/Acala T6892	Parents USDA experimental releases
104	Deltapine 62	Sel. DP 61	
105	Deltapine 66	DP 16/DP 5540	Parents in Table 3
106	Deltapine 69	Sel. DP61?	
107	Deltapine 70	STV 7A/DP 66	STV 7A (Table 3)
108	Deltapine 77	DP 66/DP 120	
109	Deltapine 80	DP16/DP 5540/DP Smoothleaf	Parents in Table 3
110	Deltapine 826	Exp. Strain 523M-327-43-51/ Exp. Strain 527-312-46-53	No additional info. available
111	Deltapine Acala 90	DP 6516/DP 6582	6516=DP 16/John Cotton Poly Cross; 6582=DP 16/AZ 5909; Parents in Table 3
112	Deltapine NSL	DP 16 (Nectariless)	Nectariless trait backcrossed into DP 16
113	Deltapine SR-1	DP Smoothleaf/Rex/Lankart 57	Parents in Table 3
114	Deltapine SR-2	DP Smoothleaf/Rex/Gregg 35/Rex	Parents in Table 3
115	Deltapine SR-383	DP SR-5/CA 1073	CA1073 (Table 3)
116	Deltapine SR-4	DP Smoothleaf/Rex/Gregg 35/Rex	Parents in Table 3
117	Deltapine SR-482	Sel. DP SR-4	
118	Deltapine SR-5	Acala 1517-BR2/DP Smoothleaf/Rex	Parents in Table 3
119	Deltapine SR-980	CA 788/DP SR-2	CA 788 (Table 3)
120	DES 119	DES 24/DES 2134-047	DES 2134-047=Sib. DES 56
121	DES 24	STV 603/Delcot 277	
122	DES 422	DP 55/DES 2134-018	DES 2134-018=Sib. DES 56
123	DES 56	ST 213/PD 2164	Parents in Table 3
124	Dixie King III	Sel. Dixie King	Dixie King in Table 3
125	Dunn 1002	Dunn 219/Dunn 224	
126	Dunn 1047	Tamcot SP-21/Dunn 219	
127	Dunn 109	Sel. of material from Lavon Ray (TAES, Lubbock)	No additional info. given
128	Dunn 118	Sel. Dunn 56C	Dunn 56C=Rex/CA 398; Parents in Table 3
129	Dunn 119	Sel. Dunn 56C	Dunn 56C=Rex/CA 398; Parents in Table 3
130	Dunn 120	Sel. Tamcot SP23	Metzer et al., 1984 has: Tamcot/Dunn 118

Table 2. Continued.

Ref. no.	Cultivar name	Pedigree	Notes on Pedigree
131	Dunn 1325	Dunn 325/Dunn 1850	
132	Dunn 1850	DP Acala 90/PM 145	
133	Dunn 219	Sel. Dunn 119	
134	Dunn 224	Sel. MO-Del line	Metzer et al., 1984 : "Composite of Delta and Stripper types"; MO-Del (Table 3)
135	Dunn 325	AZ 6401/DP 16	Parents in Table 3
136	Dunn 400	Acala line/PM 303	
137	Dunn HS 120	Dunn 219/Dunn 120	
138	Earlycot 31	Sel. CA491	Table 3
139	Earlycot 32A	Sel. Earlycot 32	Earlycot 32=Rex Smooth Leaf/NMB 3080/Stripper 31; Parents in Table 3
140	Earlycot 48	Earlycot 31/Bonham 73	Bonham (Table 3)
141	Earlycot WR	CA614/PM266	CA614 (Table 3)
142	El Dorado Acala	C6TE/NMB 3080//ATE 1-57/Tex E364	Parents in Table 3
143	G&P 1005	Sel. CAMD S75C	CAMD S75C has same pedigree as Tamcot SP21S
144	G&P 1068	GPX 105-81/Tamcot CD3H/G&P 3774/CA3029	No info. available for GPX 105-81; CA3029 (Table 3)
145	G&P 3755	Sel. Tamcot SP-37	
146	G&P 3774	Sel. Tamcot SP-37	
147	G&P 5479	Sel. Tamcot SP-37	
148	G&P 74+	Sel. G&P 3774	
149	G&P 785	Tamcot CAB-CS/CA3016	CA3016 (Table 3)
150	GaCot 79	DP Smoothleaf (frego bract)/3*DP 16	DP Smoothleaf (frego bract)=Frego bract strain of DP Smoothleaf; DP Smoothleaf (Table 3)
151	Georgia King	Tifcot 56/McNair 235	
152	Germain's Acala GC-352	Sel. S-6689	S6689=AXTE 1-57/Tex E364//C6TE/NMB3080 (Parents in Table 3)
153	Germain's Acala GC-356	Sel. T-8687	T8687=C6TE/NMB3080 (Parents in Table 3)
154	Germain's Acala GC-362	Tex E364/12302-89//C6TE/NM7378	Parents in Table 3
155	Germain's Acala GC-363	S1603/T4845	T4845=C6TE/NMB3080 (Parents in Table 3); S1603=Sib. Acala SJ-2
156	Germain's Acala GC-410	T4852/S1391	T4852=C6TE/NMB3080; S1391=C6TE/NMB3080/12302; Parents in Table 3
157	Germain's Acala GC-445	S2694/S3468	S2694=12302-4//Tanguis/Acala 4-42; S3468=C6-5/Del Cerro 503; Parents in Table 3
158	Germain's Acala GC-510	C6TE/NMB3080/NM7403/Acala 4-42-77	Sib of Acala SJ-1; Parents in Table 3
159	Germain's Acala GC-555	Sel. T8687	T8687=C6TE/NMB3080; Parents in Table 3
160	Germain's Acala GC-610	Germain's Acala GC 510/S5565	S5565 = T4852/S1291 (from USDA Shafter Res. Stn.), no additional info. available
161	Germain's Acala GC-702	Sel. Germain's Acala GC-352	Selected for resistance to Verticillium Wilt
162	Germain's GC-210	Sel. SB 3-3	SB 3-3 = Acala Cluster/PM Dwarf
163	Green	Sel. Colored-lint Cotton, USDA, Shafter	No additional info. available

Table 2. Continued.

Ref. no.	Cultivar name	Pedigree	Notes on Pedigree
164	GSA 71	See Fig. 17	See Fig. 17
165	GSA 74	Sel. HVC MDR-2	HVC MDR-2 Incl.: Stripper 31, Aub. M, AXTE, Breeding lines
166	GSA 75	Sel. GSA 71	
167	GSA 78	Sel. CA 614	CA 614 (Table 3)
168	GSC 1093	PM 404/GSA 75	
169	GSC 20	Sel. CA 614	Table 3
170	GSC 25	Sel. Gro-Agr 177	
171	GSC 27	Sel. Gro-Agr 71033	
172	GSC 30	Stripper 31A/Gro-Agr 12644	12644=Vert. wilt resistant line from Steve Wilhelm, Univ. So. CA
173	GSC 71+	GSA 71/Gro-Agr 12644	12644=Vert. wilt resistant line from Steve Wilhelm, Univ. So. CA
174	Gumbo	Composite of [Acala Okra/6*STV 7A] + [Acala Okra/3*STV 7A/4*STV 213]	STV 7A and STV 213 (Table 3)
175	Gumbo 500	DP 25/ La. Okra 3; Composite of 3 lines (La. Okra 541, 546, and 551)	La. Okra 3 = Acala Okra (SA171)/6*DP Smoothleaf
176	H 1215	MC-T8-27-8C/La HG063	Parents in Table 3
177	H 1220	MC-T8-27-8C/La HG063	Parents in Table 3
178	H 1244	MC-T8-27-8C/La HG063	Parents in Table 3
179	Hancock	M8/Empire Wilt	M8 (Table 3); Empire Wilt=Empire WR? (Table 3)
180	Hartz H1330	DES 119/Miscot 7803-52	Miscot 7803-52 (Table 3)
181	Highland 34	Acala 1517-70/Stripper 31	Stripper 31 (Table 3)
182	Highland 52	Sel. Rex Smoothleaf 66	Rex Smoothleaf 66=Sel. Rex Smoothleaf (Table 3)
183	Holland 1379	Sel. TX-Bonham	Bonham (Table 3)
184	Holland 186	HX 2411/HBN 402	HX 2411=Cascot C-13/TX-H6-2-72; HBN 401=high strength line, TAES Lubbock
185	Holland 1919	Demeter III/CMS/Cascot 2277/3/DP 16/G. h. race marie-galante	CMS=cytoplasmic male sterile, Demeter, DP 16 in Table 3;
186	Holland 4002	Sel. Holland 5677	Holland 5677=Sel. Bonham (Table 3)
187	Holland 850	Cascot C-13/Tx-Le6873/Mo 63-277J	Tx-Le6873 = Lewis (Table 3); MO 63-277J = Delcot 277J
188	HS 23	Sel. McNair 235	
189	HS 44	No pedigree information given in PVP Exhibit A	
190	HS 46	AZ 7209/DP Acala 90	AZ 7209 (Table 3)
191	HS Salcot 10	DES 422/DP Acala 90	
192	Hurd 570	Sel. CA614	CA614 (Table 3)
193	Hurd 580	Selection in Hurd breeding material	No additional info. given
194	Hurd 590	Hurd 570/PM101-A	PM101-A=Sel. PM 101 (Fig. 9)
195	Hurd 700	Sel. Tamcot SP-21	

Table 2. Continued.

Ref. no.	Cultivar name	Pedigree	Notes on Pedigree
196	Hurd 750	CA614/GSA 71	CA614 (Table 3)
197	Hurd 850	Sel. in breeding materials including Southeastern strains and Acala 3080	Acala 3080=NMB 3080 (Table 3); no additional info. given
198	Hurd 900	Sel. in Hurd's breeding material and Lankart 611	Lankart 611 (Table 3); no additional info. given
199	HY 007	Cascot C-13/Tx-Le6873/Mo63-277J	Tx-Le6873 = Lewis (Table 3); Mo63-277J = Delcot 277J
200	HY 39	KC 311/Acala SJ-5	
201	KC 311	DP Acala 90/McNair 235	Metzer & Supak, 1990 has: McNair 3151/DP90
202	KC 380	McNair 220/McNair 3150	McNair 3150 (Table 3)
203	Kings Acala M5	T6310/T6133/Pima S-4/3/DP61	T6310=Tex E364/SJ-2; T6133=C6TE/NMB3080; Pima S-4 (Table 3)
204	Kings Acala Plus	Sel. Kings Acala M5	
205	KSA81M	Sel. UKA59/240	Parents from Tanzania
206	LA 887	DES 119/LA 434-RKR	LA434-RKR=DP 15/Clewevilt-6/DP 16 (L.A. 434 in CS18:199); Parents in Table 3
207	Lambright 2020	Sel. Lambright GL-4	Glanded plant selection from glandless cultivar
208	Lambright 2020 A	Sel. Lambright 2020	
209	Lambright GL-4	Lambright X-15-4/CA 852	CA852 (Table 3)
210	Lambright GL-5	Lambright X-15-4/CA 852	CA852 (Table 3)
211	Lambright GL-F	Sel. Lambright GL-5	Frego plant selection from normal bract cultivar
212	Lambright GL-N	Lambright GL-5/CA1786	CA1786 (Table 3)
213	Lambright L-X-28	Sel. Lambright X-15-3 (= Lambright 123BR-1/Del Cerro)	No info. available on Lambright 123BR-1 at this printing; Del Cerro (Table 3)
214	Lambright X-15-3-A	Sel. Lambright X-15-3 (= Lambright 123BR-1/Del Cerro)	No info. available on Lambright 123BR-1 at this printing; Del Cerro (Table 3)
215	Lambright X-15-4	Lambright 123 BR-1/Del Cerro	No info. available on Lambright 123BR-1 at this printing; Del Cerro (Table 3)
216	Lamesa 5	Blightmaster A-5/Lankart 3940	No info. available on Lankart 3940 at this printing
217	Lamesa 8	Blightmaster A-5/Lankart 3840	Lankart 3840 (Table 3)
218	Lankart 142	Westburn M/Lockett 77	
219	Lankart 175	Sel. Lines Related to Lankart LX571	No additional info. given
220	Lankart 311	Lankart 175/Lankart 3840	Lankart 3840 (Table 3)
221	Lankart 511	Lockett 4789/3/Lockett 4789-A/SP52-67/79N.BV65	Parents in Table 3
222	Lankart LX 571	Lankart 57/Lankart 3840	Parents in Table 3
223	Lankart PR 75	Lockett 4789-A/SP11-67/79N.BV65/HI-67	No information on on HI-67 at this printing; Other parents in Table 3
224	Lockett 77	Lockett 4789-A/SP12-67/Lockett 4789A/CA563	Lockett 4789, SP 12, and CA563 (Table 3)
225	Lockett BXL	Lockett 4789 (31)/SP19/SP20	Parents in Table 3
226	McDonald 3	Sel. Lamesa 8	
227	McNair 210	Rex/Atlas 182	Parents in Table 3
228	McNair 220	CKR 201/PD2165	Parents in Table 3

Table 2. Continued.

Ref. no.	Cultivar name	Pedigree	Notes on Pedigree
229	McNair 235	CKR 201/PD2165	Parents in Table 3
230	McNair 511	Sel. McNair 1032	McNair 1032 (Table 3)
231	McNair 612	McNair 1032/CKR 201-16-B	McNair 1032 and Coker 201 (Table 3)
232	MD51ne	DP 90*3/MD65-11ne	MD65-11ne (Table 3)
233	New Mexico Acala #20	Sel. Watson's Acala via NM 1-19 via 1450 via 707	1450 (Fig. 10)
234	Northern Star 5	Stormproof/Northern Star 11/Stormmaster	Stormmaster (Table 3); Northern Star=Sel. Lankart (Ramey, 1966)
235	Northern Star 998	Selection in commercial field near Littlefield, TX	No additional info. given
236	Northern Star R-4A	Sib. Stripper 31	Table 3
237	NuCoin 33	Bt transgenic Coker 312/4*DP 5415	
238	NuCoin 35	Bt transgenic Coker 312/4*DP 5690	
239	NuCoin 64	Bt transgenic Coker 312/4*DP 51	
240	NuCoin 66	Bt transgenic Coker 312/4*DP 5415	
241	NuCoin 68	Bt transgenic Coker 312/4*DP 5690	
242	Paymaster 101-B	Sel. PM 101	PM 101 (Table 3)
243	Paymaster 111-A	Sel. PM 111	PM 111 (Table 3)
244	Paymaster 145	Sel. Tamcot SP-21	
245	Paymaster 147	347-355/PM 404	347-355=PM 111A-B4/A6-634 (from R.H. Sheetz, PC)
246	Paymaster 266	AZ 6024-11-1-2/DP5540/PM 101A/TAES B4	AZ 6024, PM 101, and DP5540 (Table 3); TAES B4=B4LK (Table 3)
247	Paymaster 303	PM 18/PM 111	Parents in Table 3
248	Paymaster 404	Sel. PM 303	
249	Paymaster 505	PM18/PM111	Parents in Table 3
250	Paymaster 784	PM 202/5/Blightmaster/Empire KK/3/Shafter 011/4/ PM 202/Empire GL	Blightmaster, Empire, PM 202, and Shafter 011 (Table 3)
251	Paymaster 785	Sel. PM 909	Possible outcross; PM 909 (Table 3)
252	Paymaster 792	PM Dwarf/Tenn. 59-538	No additional info. available
253	Paymaster 892	PM266/New Mexico Acala/Westerburn M/PM303	Order of crosses assumed
254	Paymaster Dwarf	PM 105/146-21VF62	PM105 (Table 3); no additional info. available
255	Paymaster HS 26	Acala SJ-4/5B9-184	5B9-184=Sel. PM266
256	Paymaster HS200	107X329 123171-74/160X145 145521	107X...=Tamcot 788/NMB4364; 160X...=NMB3080/B6-1380; most in Table 3
257	Paymaster PM 183	PM 785/146055	146055 = PM 266/Northern Star R4
258	Paymaster PM 280	107X329 123271-74/160X145 125521	107... = Tamcot 788/NMB4364; 160... = NMB3080/B6-1380; most parents in Table 3
259	Paymaster PM 330	Sel. CA3068	Table 3
260	PD-1	PD4381/PD8623	Parents in Table 3
261	PD-2	FTA 266/Atlas/AC235/Dixie King	FTA, Atlas, AC, Dixie King (Table 3)

Table 2. Continued.

Ref. no.	Cultivar name	Pedigree	Notes on Pedigree
262	PD-3	PD9363/PD9240	Parents in Table 3
263	Pioneer Brand PR 68	Lockett 4789/SP-52-67/Lockett 4789-A/79N, BV65	Parents in Table 3
264	PR 80	Tamcot SP-23/52o, BV65	52o, BV65 (Table 3)
265	Prolific Stormproof	Western Stormproof/Acala 1517BR2	Parents in Table 3
266	Pronto	Sel. La. Super Okra 2, Composite of 4 lines	La. Super Okra 2 = M8 Super Okra Leaf, BC4/6*STV 7A; M8 and STV 7A (Table 3)
267	Quapaw	Complex cross of; Nucala, AHA, Rowden, Hopi, Stormproof, Empire WR...	Metzner et al., 1984 has: "Pedigree similar to Stripper 31"; See Fig. 17
268	Quapaw D	Sel. Quapaw	
269	Ranger 55	Sel. Little's Special	Little's Special=Sel. Macha; Macha (Fig. 9)
270	Ranger 64-2	Sel. Ranger RV-64	
271	Ranger BB-53	Stripper 31/PM111-A	Stripper 31 (Table 3)
272	Ranger RV-12	Sel. CA1072	CA1072 (Table 3)
273	Ranger RV-64	Sel. CA614	CA614 (Table 3)
274	Ranger TM-62	Lewis/Tamcot CAMD-E	Lewis (Table 3)
275	Rex 713	Sel. Rex Smoothleaf-66	Rex Smoothleaf-66=Sel. Rex Smoothleaf (Table 3)
276	Rilcot 90	Sel. Macha	Macha (Fig. 9)
277	Rilcot 90-A	Sel. Rilcot 90	
278	Rilcot 95	"Selection in the Rilcot breeding program"	No additional info. given
279	Rilcot Balebuster-1	CA491/Rilcot Stripper N	CA491 (Table 3)
280	Rilcot Drylander 289	"Selection in the Rilcot breeding program"	No additional info. given
281	Rilcot RK-6	CA1786/Rilcot breeding material	CA1786 (Table 3); no additional info. available
282	Rilcot Stripper N	Sel. CA 398	CA398 (Table 3)
283	Rogers 7590	Quapaw/Lyman G11/2*RDC 10N	RDC 10N=Sel. Rogers LG 10; Lyman G11=TAES glandless line
284	Rogers GL-6	W6/4*M8/Del Cerro/3/W6/4*M8948/Lankart 57	W6=Watson Stormproof B-29; Other parents in Table 3
285	Rogers LG 86	EC 8/Rogers LG-102	EC 8=Line from E. Cook of Lubbock Christian College, Lubbock, TX
286	Rogers LG-10	TX AES Lines/Glandless From Ferris Watson Seed Co.	No additional info. at this printing
287	Rogers LG-102	Rogers LG-10/Glandless, Nectarless From TX AES	No additional info. at this printing
288	S-35	Sel. McNair 235	
289	S-55	Sel. MD82ne	MD82ne (Table 3)
290	San Simon Del Cerro	Sel. Del Cerro	Blend of 6 plant selections; Del Cerro (Table 3)
291	SC-1	CKR 421/PD4398	Parents in Table 3
292	SI Samrong 60	ACQ 1217-3-2/SI Samrong 2	ACQ...=A 200/Carolina Queen; SI Samrong 2=Complex interspecific
293	Simwalt 82	Tamcot 24/3306	Tamcot 24 = SP24 (Table 3), 3306=Im2/OK 13-2; Im2 (Table 3)
294	SNI-15	No information available at this printing	

Table 2. Continued.

Ref. no.	Cultivar name	Pedigree	Notes on Pedigree
295	Southland 400	DP 6434-58-61/PM 266-B9-24-2	DP6434 (Table 3)
296	Southland M1	DP 6434-58-61/PM 266-B9-24-2	DP6434 (Table 3)
297	Southwest 222	TAES MAR strain/Auburn M	Auburn M (Table 3); no additional info. available
298	Southwest 227	Sel. Southwest 2	Southwest 2= crosses between MAR and nematode resistant strains
299	Southwest 584	Sel. TAES, Lubbock breeding line	No additional info. available
300	SS 100	Sel. MO 78-344	MO 78-344 = Experimental designation of Delcot 344
301	Stoneville 112	Sel. STV 213	STV 213 (Table 3)
302	Stoneville 132	Sel. MC-18-27-8C	MC-18-27-8C (Table 3)
303	Stoneville 256	Sel. STV 7	STV 7 (Table 3)
304	Stoneville 302	PM 266-69/STV 213	STV 213 (Table 3)
305	Stoneville 324	Stoneville 42-41688/Stoneville 804-41055	Parents were Stoneville Pedigreed Seed experimental lines of unknown parentage
306	Stoneville 453	STV 603/STV 213	STV 213 (Table 3)
307	Stoneville 474	STV 453/DES 119	
308	Stoneville 495	STV 453/DP 50	
309	Stoneville 506	STV 7/STVX1834	STV 7 (Table 3); No info. available on STVX1834
310	Stoneville 603	STV 7/AUB 257-202	STV 7 (Table 3); AUB 257-202 = sib. Auburn 56 (Table 3)
311	Stoneville 731N	STV 7A/Meyer 76-4	STV 7A (Table 3); Meyer 76-8=BC2 STV 7A to nectariless source (Mereditdth/PC)
312	Stoneville 825	Sel. STV 731N	
313	Stoneville 907	DES 06-20-24/STV 1877N or DES 24/STV825	DES 06-20-24=DES24; STV 1877N=STV825
314	Stoneville BR-110	DP Acala 90/DP 120	
315	Stoneville BR-115	DP Acala 90/DP 70	
316	Stripper 31A	Complex cross of: Roldo Rowden #5 & #27, Empire WR, BBR 4-1-36 B2	Presumed pedigree in Fig. 17
317	Stroman 254	Formerly, "GSA-254"; "Sel. out of Acala-type cotton"	No additional info. available
318	Sure-Grow 1001	McNair 235/DP Acala 90	No additional info. available
319	Sure-Grow 125	DP 50/3*DES 119	
320	Sure-Grow 404	DP 50/DES 119	
321	Sure-Grow 501	DES 119/DES 237-7	DES 119 exp. designation = S11-9-27; DES237-7 (Table 3)
322	SV 13	Sel. DP 16	DP 16 (Table 3)
323	SV 93	Sel. DP 16	DP 16 (Table 3)
324	Tamcot 2111	PD 6142/unknown	Unknown identified as "high strength line of unknown origin from John Gannaway"
325	Tamcot 788	CA398/P1874	Parents in Table 3
326	Tamcot CAB-CS	CAMD-21-S-78/BCUS-8-76	Parents in Table 3
327	Tamcot CAMD-E	MDR.SP7-67/17M2//SP46-67/17M2	Parents are strains of Tamcot SP21 and SP37, all with pedigree=92K/62K (Table 3)

Table 2. Continued.

Ref. no.	Cultivar name	Pedigree	Notes on Pedigree
328	Tamcot CD3H	Tamcot SP37H/CDPS-1-77	CDPS-1-77 (Table 3)
329	Tamcot GCNH	CAMD-2IS-5-80/GN-8-76	Parents in Table 3
330	Tamcot HQ95	Tamcot CD3H/MAR-CABU/CS-2-1-83	MAR-CABU/CS-2-1-83=Sib. Tamcot CAB-CS
331	Tamcot SP21	K4808-5 (1&2)D/B'master/39-11-20/3/K4808-5 (1&2)A/ PM 54-M-105-3	Bmaster=Blightmaster; Parents in Table 3; Bulk of similar strains
332	Tamcot SP21S	SP21F/SP33F//SP21V/SP37V	Parents are strains of Tamcot SP21 & SP37; Composite of H4-14-71 & H4-18-72
333	Tamcot SP23	K4808-5 (1&2)D/B'master/39-11-20/3/K4808-5 (1&2)A/ PM 54-M-105-3	Bmaster=Blightmaster; Parents in Table 3; Bulk of similar strains
334	Tamcot SP37	K4808-5 (1&2)D/B'master/39-11-20/3/K4808-5 (1&2)A/ PM 54-M-105-3	Bmaster=Blightmaster; Parents in Table 3; Bulk of similar strains
335	Tamcot SP37H	66N, B.V.65/520, B.V.65	Parents in Table 3; Composite of strains, H2-45-74, H2-46-74, and H2-47-74
336	Tamcot Sphinx	MAR-CDP37HPIH-1-1-86/Sel. PM 145	MAR-CDP... = MAR breeding line
337	Tejas	Sel. CA3064	CA3064 (Table 3)
338	Terra 207	DES24/DES56	
339	Terra 292	CKR 420-511/DES 24	CKR 420-511 was a smooth-leaf strain from Coker Pedigreed Seed Co.
340	Terra 302	STV 73IN/DP 875	Parents in Table 3
341	Terra 366	STV 825/DP 16	Parents in Table 3
342	Terra C-30	6942-051/DES 56	6942-051=DP 16 Background; See DP 50
343	Terra C-40	6942-051/DES 56	6942-051=DP 16 Background; See DP 50
344	Terra SR-10	DP 6434/CA 1073	Parents in Table 3
345	Thorpe	Lankart 611/Fox 42-5//Fox 42-5	Lankart 611, Fox 42 in Table 3
346	Tifcot 56	PD4381/CKR 310	PD4381 (Table 3)
347	TPSA 1633	Sel. breeding line 62-0-10	No additional info. given
348	TSP 333-HS	"...selection process from hybrid germplasm"	No additional info. available
349	UAPX-001	C32/DP20	C32=G&P 3774/ McNair 220
350	UAPX-003	C110/DESI19	C110=PM 4298/CAMD-E/340W-10/sel. SP 37//PD 9363; 40W-10 = Lockett breeding line
351	UAPX-006	C120/DP20	C120=PM 4298/PD 9233/sel. SP 37
352	Westburn 70	Sel. Westburn	Westburn (Table 3)
353	Westburn M	(Im2/22-3)F3 4-1//Westburn BC4	Im2, Westburn (Table 3), 4-1=STV 20/Acala 5675 (Ramey, 1966)?
354	Western 44	Acala 44/Western Stormproof	Parents in Table 3
355	Wiltmaster 569	CA1056-69-10//AZ6024/DP5540	Parents in Table 3
356	Wiltmaster 571	CA803/AZ6024	Parents in Table 3

Table 2. Continued.

Ref. no.	Cultivar name	Pedigree	Notes on Pedigree
Pima Cottons			
1	Buffalo	Pima S-5/ancestor of Coyote	
2	CH252	Sel. P79-103	P79-103=6503/6612
3	CH253	Sel. Pima S-6	
4	Conquistador	Sel. Pima 79-106	Pima 79-106 in Table 3
5	Deltapine 9911 Pima	No information available at this printing	
6	O/A-304	Sel. Pima 79-106	Pima 79-106 in Table 3
7	Oro Blanco Pima	Sel. Pima S-6	
8	Palo Verde	Pima S-5/Brown linted plant//A.3 PT/3/195	Selected for green lint, no additional info. available
9	Pima S-5	Pima 3-79/Pima S-1//Pima S-1/3/Pima S-4	Parents in Table 3
10	Pima S-6	5934-23-2-6/5903-98-4-4	
11	Pima S-7	6614-91-93/6907-513-509-501	6614=Sib. Pima S-6; 6907=P28/Pima S-4

Table 3. Pedigrees of breeding lines and obsolete cultivars included in pedigrees of recent cultivars.

Strain/cultivar name	Pedigree	Pedigree Notes	Source
1-2302 (or 12302)	AXTE-1/NM2302	Also Fig. 16	Turner, 1974
250	Sel. 8373		Staten, 1971
349-25	K3131/Unidentified John Cotton wilt line	K3131 from Africa	W. Fisher/PC
350-26	Unidentified John Cotton Acala line/87-49	87-49=Unidentified Missouri line	W. Fisher/PC
49W	Acala 49/Hartsville		Staten, 1971
8373	Acala ? with introgression of Arizona Long Staple 120 (G. barbadense)		Staten, 1971
9136	Complex cross w/ Tanguis and Arizona Long Staple 120, BC to Acala 1517 types		Staten, 1971
Acala 1517	Sel. Watson's Acala via Young's Acala via 329 via 504 via 1064	Also Fig. 10	Staten, 1971
Acala 1517 BR-2	8373/STV 20//Acala 216/3/Acala 49/Hartsville		Staten, 1971
Acala 1517B	Sel. Watson's Acala via 707 via 233 via 2652 via 6068 via 3754	Watson's Acala (Fig. 10)	Staten, 1971
Acala 1517D	Cross of 2 exp. strains of unknown parentage, Probable introgression of G. barbadense	Also Fig. 10	Staten, 1971
Acala 216	Sel. Acala 1517B		
Acala 2187	Acala 2.503/Coquet//Acala 840		CS32:831
Acala 2503	Exp. Acala strain/Sib. original Acala 1517		CS18:163-164
Acala 29	Sel. Acala 1517 (see Fig. 10)		Staten 1971
Acala 4-42	Sel. Acala 1517 (Plant #4 in 1942) (Possibly out crossed to Missdel Acala)	Also Fig. 10	Staten, 1971
Acala 4-42-77	Sel. Acala 4-42 (see Fig. 10)		S.R Oakley/PC
Acala 44	Santan Acala/Acala 1517	Also Fig. 10	Staten, 1971
Acala 49	Sel. Acala 1517B		Staten, 1971
Acala 51	Missdel/Acala P18C//Acala 29	Acala P18C (Fig. 10)	Turner, 1974
Acala 5675	Sel. Acala #5	Fig. 10	Ramey, 1966
Acala 840	Unknown	Not in Staten, 1971	
Acala 8874	Acala 1517V/Acala 2187	Acala 1517V (Table 2)	CS32:831
Acala P18C	Sel. Acala P12; P12 selected before 1928 from Selection #1 of the original Acala (from 1907)	Also Fig. 10	Turner, 1974
Acala Q6-2	Sel. Original Acala via P12 via #1	Fig. 10	Ramey, 1966
AHA 6-1	HA76/sel. no. 5-12 of Acala 1517	Also Fig. 10	Staten, 1971
Atlas 182	Pandora/Florida Green Seed//Early Fluff/3/AHA 6-1-4/4/Triple Hybrid 458	Fig. 14	T. Kerr, Unpublished
Atlas 261	Pandora/Florida Green Seed//Early Fluff/3/AHA 6-1-4/4/Triple Hybrid 458/5/AC 239	Fig. 14	T. Kerr, Unpublished
Atlas 302	Pandora/Florida Green Seed//Early Fluff/3/AHA 6-1-4/4/Triple Hybrid 458/5/Empric	Fig. 14	T. Kerr, Unpublished
Atlas 352	Atlas 302//C6-5/Earlistaple	Fig. 14	T. Kerr, Unpublished
Atlas 66	Mix of Atlas 261 line and Atlas 352 lines	Fig. 14	T. Kerr, Unpublished
Atlas 67	Mix of Atlas 352 selections	Fig. 14	T. Kerr, Unpublished
Auburn 56	Cook 307-6/2*CKR 100/CKR 100W	Fig. 6	Ramey, 1966

Table 3. Continued.

Strain/cultivar name	Pedigree	Pedigree Notes	Source
Auburn M	Sel. Auburn 56	Fig. 6	Ramey, 1966
AXTE-1	Acala 51//TH 458/2*Early Fluff	Fig. 16	T. Kert, Unpublished
AZ5909	AXTE/ 8 to 10 Acala lines		W. Fisher/PC
AZ6010	Complex, Incl.: Acala, Triple Hybrid, Early Fluff, and Lankart 57	Probably AXTE/Lankart 57	AZ AES release memo
AZ6024	349-25/AHA/4/350-26/3/49W/ROXE//KP/C108	KP from Africa	W. Fisher/PC
AZ6401	Exp. designation of AZ64 (see Table 2)		AZ AES release memo
AZ7209	6608/1209-6-19-7-69	No additional info. available	W. Fisher/PC
B1413	250/49W//250/9136		Staten, 1971
B4LK	Lankart 57 background with B4 gene for bacterial blight resistance	Synonymous w/ B4 or TAES B4	TAES Bul. L-2240
BBR	Sel. Jackson Round Boll via STV 2B via STV 5 via Lone Star	Fig. 4	Ramey, 1966
Blightmaster	Stormmaster*2/4-1; 4-1=STV20/Acala 5675	Fig. 9; See also CA291A	Ramey, 1966
Bonham	Empire/Lankart B4//Tamcot SP21; Lankart B4=B4LK (Table 3)	Tamcot SP21 (Table 2)	Metzger & Supak, 1990
C108	Wilt resistant Acala line from TX AES, El Paso		W. Fisher/PC
C6-5 (AKA C6)	Q6-2 Acala/Hopi Mencopi//?*Acala; i.e. unknown number of backcrosses to unknown Acalas	Fig. 7 for Hopi Acala origin	Turner, 1974
C6TE	C6-5//TH458/Early Fluff		S.R. Oakley/PC
CA1003	CA958/CA702		D.F. Owen/PC
CA1056	CA803/AZ6024		Metzger et al., 1984
CA1072	CA614/E364		D.F. Owen/PC
CA1073	CA614 (V538)/AZ6024-11-1		D.F. Owen/PC
CA1076	CA491/AZ6024-11-1		D.F. Owen/PC
CA122	Macha/Rogers Acala 111; Same pedigree as Stormmaster	Parents in Fig. 9 and 10	D.F. Owen/PC
CA1786	CA961/CA1003		D.F. Owen/PC
CA291A	STV 20/Acala 5675//2*CA122 (Thaxton/PC has "Blightmaster with B7 gene")	Same pedigree as Blightmaster	D.F. Owen/PC
CA3004			
CA3006			
CA3016			
CA3026			
CA3029			
CA3064			
CA3068			
CA398	CA291A/89A//CA122; 89A=Macha/2*Acala		D.F. Owen/PC
CA488	Acala 49//Express/Egyptian/3/KP (African)/C108	Express (Fig. 3)	D.F. Owen/PC
CA491	C.B.3051 (Yugoslav)/Stormrider		D.F. Owen/PC
CA550	CA291A/Shafter 011		D.F. Owen/PC

Table 3. Continued.

Strain/cultivar name	Pedigree	Pedigree Notes	Source
CA563	Lankart 611W/CA398-56-4		D.F. Owen/PC
CA614	CA488/CA398-56-4		D.F. Owen/PC
CA659	CA291A/CA550		
CA663	CA398/3/CA291A/Empire KK/Aub. 155-156		D.F. Owen/PC
CA702	CA491/STV Smoothleaf/CA291A		D.F. Owen/PC
CA758	CA659/CA398		D.F. Owen/PC
CA788	C398/P1874	CA788=Tamcot 788	D.F. Owen/PC
CA803	Del Cerro/CA398		D.F. Owen/PC
CA852	CA291A-60B//CA291A-60A/Shafter 011/3/P1874/4/CA398		D.F. Owen/PC
CA958	Nectarless/3 (or 4)*CA291A		D.F. Owen/PC
CA961	CA491/Del Cerro		D.F. Owen/PC
Clewevilt	Cleveland 884/Dixie Triumph	Fig. 5	Ramey, 1966
Coker 100	Sel. STV 2 (possibly outcrossed to Coker Foster)	Fig. 5	Ramey, 1966
Coker 100 Staple	Sel. CKR 100		Ware, 1950
Coker 100W	Sel Coker 100 (probably outcrossed to Clewevilt)	Fig. 5	Ramey, 1966
Coker 201	Sel. Carolina Queen (see Fig. 5)		L. May/PC
Coker 413	Glabrous off-type in Coker 100 Wilt/Coker Wilds		CS19:410
Coker 421	Sel. Coker 413		CS19:410
Coker 67-109	Unknown		
Coker Wilds	Deltatype Weber/Lightning Express	AKA, Wilds (Fig. 6)	Ramey, 1966
Cook 307-6	Sel. Cook Improved	Fig. 3	Ramey, 1966
Cook Improved	Sel. Beat-All; Probably outcrossed to Dickson	Fig. 3; Possible synonym, Cook	Ramey, 1966
Coquette	LA AES strain of unknown parentage		CS18:163-164
Del Cerro	Sealand/Mesilla Valley Acala (MVA)/MVA/Triple Hybrid (TH)/3/MVA/TH//AHA 6-1-4/MVA	Also Fig. 10	Staten, 1971
Deltapine 14	DP 11/DP 10	Also Fig. 8	K.R. Jones/PC
Deltapine 15	Sel DP 14	Also Fig. 8	K.R. Jones/PC
Deltapine 16	DP Smoothleaf/Fox 4-4205; Fox 4-4205=DP 45=Sel. Fox 4	Parents in Fig. 8	K.R. Jones/PC
Deltapine 45	Sel. Fox 4; =Fox 4-4205	Also Fig. 8	K.R. Jones/PC
Deltapine 5540	Auburn 56/DP 15	Also Fig. 8	K.R. Jones/PC
Deltapine 6434	Sib. or Sel. DP SR-5 (Table 2)		PVP # 9000154, Ex. A
Deltapine Smoothleaf	Sel. DP 15	Fig. 8	Ramey, 1966
Demeter	DES HAF 277/Pima S-3//2*Upland	DES HAF 277 in CS 13:778	Proc 1981 BWCC, p. 84
DES 237-7	DES2134-018/DP 5916-65; DES2134-018 = sib. DES 56; DP 5916-65 = Sel. DP 16	DES56 (Table 2), DP16 (Table 3)	CS27:1316
Dixie King	Coker 100W/Empire WR/Bobshaw 1; Bobshaw 1=Sel. STV 5A	Fig. 5	Ramey, 1966

Table 3. Continued.

Strain/cultivar name	Pedigree	Pedigree Notes	Source
E364	(see Tex E364)		
Earlistaple	Tidewater Acala/Coker Wilds		Culp & Harrell, 1974
Early Fluff	Station C/Empire; Station C=Sel. Cleveviiit		Turner, 1952
Empire	STV 2/Cook 307-6	Fig. 4	Ramey, 1966
Empire WR	Sel. Empire	=Empire WR?; Fig. 4	Ramey, 1966
Fox 4	Sel. Fox; Fox=STV 2/DP 14	Fig. 8	Ramey, 1966
Fox 42	Probable synonym for Fox 4-4205 (see DP 45)		K.R. Jones/PC
Gregg	Sel. Macha	Fig. 9	Ramey, 1966
HA 76	Hopi Moencopi/Acala Q 6-2; =Hopi Acala 76	Fig. 7	Ramey, 1966
Hartsville	Indirect Sel. Wyeche	Fig. 2	Ramey, 1966
Hopicala	Sel. no. 4447 from AHA 6-1-5	Also Fig. 10	Staten, 1971
HYC74-283	Mass Cross w/: (Half & Half, Quapaw, Stripper 31, PM 18, MOS9-1021) / (71CX-15, 71C-18)	No additional info. given	CS21:991-992
HYC76-59	Sel. HYC74-283		CS21:991-992
Im2	Unknown		
John Cotton Polycross	Intercross: Acalas(Hopicala, 7378, 8229,2302), Aub 56, STV213, DP smoothleaf, PM111	Blend of 5 double crosses	C.L. Roberts/PC
La. HG 063	La. HG 83-1-1546/La. HG 1838-1497; Parents from intercross of STV 213 and XG-15 progeny		CS28:200
Lankart	Indirect Sel. Petit Gulf	Fig. 3	Ramey, 1966
Lankart 3840	Sel. Lankart 57		Niles/PC
Lankart 57	Sel. Lankart	Fig. 9	Ramey, 1966
Lankart 611	Sel. Lankart 57	Fig. 9	Ramey, 1966
Lewis	Experimental desingation = Tx-Le6873	TAES line	R. Holland/PC
Lockett 4789	Lone Star/ Lockett 88A	Fig. 9	Ramey, 1966
Lubbock 4	Unknown		
M11	Nectariless stock from J.R. Meyers		J. Econ. Ent. 62:588
M8	Doubled haploid of DP 14		W.M. Meredith/PC
M8948	Original designation of M8		W.M. Meredith/PC
MC-18-27-8C	DES 56/Tamcot SP37	Parents in Table 2	CS28:1035
McNair 1032	Sel. Auburn 56	Fig. 6	Ramey, 1966
McNair 3150	McNair7125/CKR 310		L. Roberts/PC
McNair 7125	Alias 92/Rex		L. Roberts/PC
MD 82 ne	DES 24/DES 24-8ne/DES 24; DES 24-8ne=DP 16 nectariless on DES 24 background	DES 24 in Table 2	W.M. Meredith/PC
MD65-11ne	FTA 263-20/4*DP 16/2*Deltapine 16nc; Deltapine 16 ne = nectariless isolate of DP 16	FTA = PD breeding line (Table 3)	CS33:1415
Mesilla Valley Acala	Sel. Watson' Acala via 707 via 1450 via Mesa Acala		Staten, 1971
Miscot 7803-52	DES 56/MAR-22-74; DES 56 (Table 2); MAR-22-74 = "Advanced line from Texas A&M Univ."		CS 29:242-243

Table 3. Continued.

Strain/cultivar name	Pedigree	Pedigree Notes	Source
Missdel	Sel. Foster	Fig. 7	Ramey, 1966
MO-Del	TH108/AHA 6-1-4//Cook/Empire/3/Tanguis/4/Pandora/Early Fluiff/5/Early Fluiff 310/6/2* Aub. 56	Fig. 15	Kerr, Unpublished
MOG3-277	Exp. designation of Delcot 277 (see Table 2)	Also Fig. 15	CS12:126-127
MOG3-277BR2A	Crosses among: Delcot 277, MoDel, Auburn 56	No additional info. given	CS25:198
NM2302	Exp. designation of Acala 1517D (see Fig. 10)		Turner, 1974
NM49-2	Sel. Acala 49		Assumed
NM7403	Unknown	Not in Staten, 1971	
NMB3080	Acala 49W/9136		Staten, 1971
NMB4364	Exp. designation of Acala 1517-70 (see Table 2)		CS18:164
NMB7378	Acala 2503/Coquette	Sib. Acala 1517V (Table 2)	Staten, 1971
Nucala	Sel. original Acala via 5-37 via #5 via #3	Fig. 10	Ramey, 1966
P1874	High strength line from El Paso; Pedigree unknown		D.F. Owen/PC
Pandora	Station C/Station 21; Station C-Sel. Clewewilt; Station 21-Sel. Dixie Triumph	Parents in Fig. 5	Turner, 1952
Paymaster 101	PM 54/9-1; 9-1-Stoneville 20/Acala 5675	Fig. 9	Ramey, 1966
Paymaster 105	PM 54/Macha/2*PM 54	Parents in Fig. 9	G.A. Niles/PC
Paymaster 111	PM 101/Lankart 611	Fig. 9	Ramey, 1966
Paymaster 18	Rowden/Empire//Empire/3/Oklahoma 4-1-3-6B2	Okla.-Sel. Acala (Ware, 1950)?	R.H. Sheetz/PC
Paymaster 202	Sel. PM 101	Fig. 9	Ramey, 1966
Paymaster 54	Sel. Kekchi	Fig. 9	Ramey, 1966
Paymaster 909	PM 101/CA 2	CA 2=Acala/Hopi	R.H. Sheets/PC
Rex	BBR/2*Empire	Fig. 7	Ramey, 1966
Rex Smoothleaf	Dwarf Smoothleaf/2*BBR//Empire/2*Rex	Fig. 7	Ramey, 1966
Rowden	Sel. Bohemian	Fig. 3	Ramey, 1966
ROXE	Unidentified John Cotton line		W. Fisher/PC
S1603	AXTE-1/NM 2302	Sib. Acala SJ-2 (Table 2)	J.F. Mahill/PC
Sealand 542	Bleak Hall (a Sea Island)/5*Coker Wilds		Culp & Harrell, 1974
Shafter 011	glandless line from Shafter, CA		D.F. Owen/PC
Socorro Island	Wild G. hirsutum collection with high gossypol content from Socorro Island, Mexico		J. Econ. Ent. 62:588
Stoneville 20	Sel. Jackson Round Boll via STV 5A via STV 5 via Lone Star	Fig. 4	Ramey, 1966
Stoneville 213	Sel. Jackson Round Boll via STV 7 via STV 2B via STV 5 via Lone Star; Selection 54213	Fig. 4	C.W. Manning/PC
Stoneville 7	Sel. Jackson Round Boll via STV 2B via STV 5 via Lone Star	Fig. 4	Ramey, 1966
Stoneville 7A	Sel. Jackson Round Boll via STV 7 via STV 2B via STV 5 via Lone Star; Selection 54204	Fig. 4	C.W. Manning/PC
Stormmaster	Macha/Acala 111	Fig. 9; Same pedigree as CA122	Ramey, 1966
Stripper 31	SP31-66-2373; no additional info. available at this printing	Probable pedigree in Fig. 17	R.H. Sheetz/PC

Table 3. Continued.

Strain/cultivar name	Pedigree	Pedigree Notes	Source
T6754	C6TE/MNB3080		S.R. Oakley/PC
T7044	AXTE 1-57/Tex E364		S.R. Oakley/PC
Tanguis	Wilt tolerant G. barbadense from Peru		Turner, 1974
Tex E364	Strain from Escalera Station, El Paso, TX, Unknown pedigree		D.F. Owen/PC
TH (Triple Hybrid) 108	G. arboreum/G. thurberi/3*Coker 100/3/Cook 144-133/4/Coker 100WR	Fig. 12	Kerr, Unpublished
TH (Triple Hybrid) 149	TH 108/Rowden 2088//Empire 8/3/Empire 10	Fig. 13	Kerr, Unpublished
TH (Triple Hybrid) 171	G. arboreum/G. thurberi/3*Coker 100/3/Cook 144-133/4/Coker 100WR	Fig. 12	Kerr, Unpublished
TH (Triple Hybrid) 458	G. arboreum/G. thurberi/3*Coker 100/3/Cook 144-133/4/Coker 100WR	Fig. 12	Kerr, Unpublished
Tidewater Acala			
TJ x EF 310	TH 108/AHA 6-1-4/3/Cook/Empire/Tanguis/4/Pandora/Early Fluff/5/Early Fluff 310	Also Fig. 15	CS 12:126
Westburn	Auburn 56/Western Stormproof	Parents in Fig. 6 and 9	CS 9:522
Western Stormproof	Western Prolific*2/Macha	Fig. 9	Ramey, 1966
Wilds	See Coker Wilds, this table		
XG-15	Socorro Island/DP 15//2*M11		J. Econ. Ent. 62:588
Multiple Adversity Resistance (MAR) germplasm from Texas AES, College Station			
101-102B	Sel. SP52-67		Thaxton/PC
39-11-20	Glandless genetic stock from Scott Mc Michael, Cotton Res. Cr., Shafter, CA		CS16:884
52o, B.V.65	K4808-5 (1&2)D/Blightmaster/39-11-20/3/K4808-5 (1&2)D/PayM54-M-105-3	Component line of SP21 or SP37	TAES Bul. L-1672
61K	K4805-5 (1&2)D/CA291A/39-11-20	CA291A=Blightmaster	Thaxton/PC
62K	K4805-5 (1&2)D/CA291A/39-11-20	CA291A=Blightmaster	Thaxton/PC
66N, B.V.56	K4808-5 (1&2)D/Blightmaster/39-11-20/3/K4808-5 (1&2)D/PayM54-M-105-3	Component line of SP21 or SP37	TAES Bul. L-1672
79N, BV65	K4808-5 (1&2)D/Blightmaster/39-11-20/3/K4808-5 (1&2)D/PayM54-M-105-3	Component line of SP21 or SP37	Thaxton/PC
92K	K4805-5 (1&2)A/PayM54-105-3		Thaxton/PC
93K	K4805-5 (1&2)A/PayM54-105-3		Thaxton/PC
BCUS-8-76	H4-10-71 (from intercross of Tamcot SP21, SP23, and SP37)/Blank-1-73		TAES Bul. L-2138
Blank-1-73	UNKNOWN/ASP-3-69; ASP-3-69=Lewis-12-71=Tamcot SP23/A8-64; A8-64=BC to Texcala		TAES Bul. L-2138
CAMD-21-S-78	21-18-71 (strain of Tamcot SP21)/H4-14-71 (strain of Tamcot SP21S)		TAES Bul. L-2138
CAMD-21S-5	21-18 (strain of Tamcot SP21)/H4-14-71 (strain of Tamcot SP21S)		TAES Bul. L2266
CDPS-1-77	H4-14-71 (strain of Tamcot SP21S)/DPxP-4BR		TAES Bul. L-2240
DPxP-4BR	B4LK/SPHI-4-BR		TAES Bul. L-2240
GN-8	GN-1 (glandless, nectarless genetic stock)/H3-6 (strain of Tamcot SP23)		TAES Bul. L2266
H4-14-71	One of two component lines of Tamcot SP21S		TAES Bul. L-2240
K4805-5 (1&2)A	Empire WR w/ bacterial blight genes B2B3 from Knight BAR (G. barbadense)		CS16:884

Table 3. Continued.

Strain/cultivar name	Pedigree	Pedigree Notes	Source
ORHU-1-78	ORS-59/Blank-1-73; ORS-59=MDR 17M2-1 (a strain of SP21)/ORLG (an okra-frego stock)		Thaxton/PC
PayM54-M-105-3	Paymaster 54 breeding stock, obtained in 1956	Paymaster 54 (Fig. 9)	CS16:884
SP 11-67	92K/61K; a strain of Tamcot SP23 (Table 2)		Thaxton/PC
SP 12	92K/61K; a strain of Tamcot SP23 (Table 2)		Thaxton/PC
SP 19	Strain of Tamcot SP21 (Table 2)		Thaxton/PC
SP 20	Strain of Tamcot SP21 (Table 2)		Thaxton/PC
SP 24	CA398/P1874	Sib. Tamcot 788	L.M. Verhalen/PC
SP 52-67	92K/61K; a strain of Tamcot SP23 (Table 2)		Thaxton/PC
SPH-4	Tri-species hybrid		Thaxton/PC
Tamcot 788A	CA398/P1874		D.F. Owen/PC
Germplasm from the Pee Dee Research Station, Florence, SC			
A (PD line)	TH 171/Sealand 7//Earlistaple	Fig. 11	Culp & Harrell, 1974
AC (PD line)	C6-5/3/TH 171/Sealand 7//Earlistaple	Fig. 11	Culp & Harrell, 1974
F (PD line)	Sealand 542//TH 108/AHA 6-1-4//3//Earlistaple	Fig. 11	Culp & Harrell, 1974
FJA (PD line)	F//I/A	Fig. 11	Culp & Harrell, 1974
FTA (PD line)	F//I/A	Fig. 11	Culp & Harrell, 1974
J (PD line)	TH 108/AHA 6-1-4//Earlistaple	Fig. 11	Culp & Harrell, 1974
PD 6142	SC-1//CKR 421/PD2164	SC-1 (Table 2); Others (Table 3)	L. May/PC
PD2164	AC239/FJA348		Culp & Harrell, 1974
PD2165	AC/FJA	Fig. 11	Culp & Harrell, 1974
PD2183	C6-5//Earlistaple//FJA		L. May/PC
PD4381	Auburn 56/AC 349	Fig. 11	CS19:418
PD4398	FTA 263/Atlas		Culp & Harrell, 1974
PD4461	V/4* Auburn 56//V/4*Earlistaple; V = experimental Pima line	AKA Line Q1	L. May/PC
PD8619	DP4461/MO-Del		L. May/PC
PD8623	AC/Dixie King//CKR 421	Fig. 11	Culp & Harrell, 1974
PD875	DSR-1x6-56/2*PD8619; DSR... = Sel. storm-resistant dwarfs from TAES		L. May/PC
PD9233			
PD9240	CKR 421/PD4398		CS25:201
PD9249	Sel. FJA	Sib. SC-1 (Table 2)	L. May/PC
PD9363	Carolina Queen/PD9249//PD2183/PD2164		CS19:751
T (PD line)	TH 108/AHA 6-1-4//Earlistaple	Fig. 11	Culp & Harrell, 1974

Table 3. Continued.

Strain/cultivar name	Pedigree	Pedigree Notes	Source
<u>Pima germplasm</u>			
5903-98-4-4	Unknown		
5934-23-2-6	Unknown		
Ashmouni	Sea Island/Jumei; Jumei=a G. barbadense tree cotton in Egypt		Niles & Feaster, 1984
P28	Unknown		
Pima 3-79	Sib. Pima 32		Niles & Feaster, 1984
Pima 32	Derived primarily from Ashmouni stock		Niles & Feaster, 1984
Pima 38	Sib. Pima S-2		
Pima 79-103	6503-33-3-1/6612-62-5		CS20:831-832
Pima 79-106	6503-33-3-1/6614-91-11		CS20:831-832
Pima S-1	Complex cross of: Sea Island, Pima, Tanguis, Stoneville		Niles & Feaster, 1984
Pima S-2	Pima 3-79/Pima S-1		CS16:603
Pima S-3	Mass Cross ("Hybrid B") Incl.: Pima S-1, Tanguis, Pima strain 1-71, Ashmouni, Giza 12, Pima 32...		CS16:604
Pima S-4	Pima 32/Pima S-1 10-8/Pima S-2	S1 10-8=Sel. Pima S-1?	CS16:604

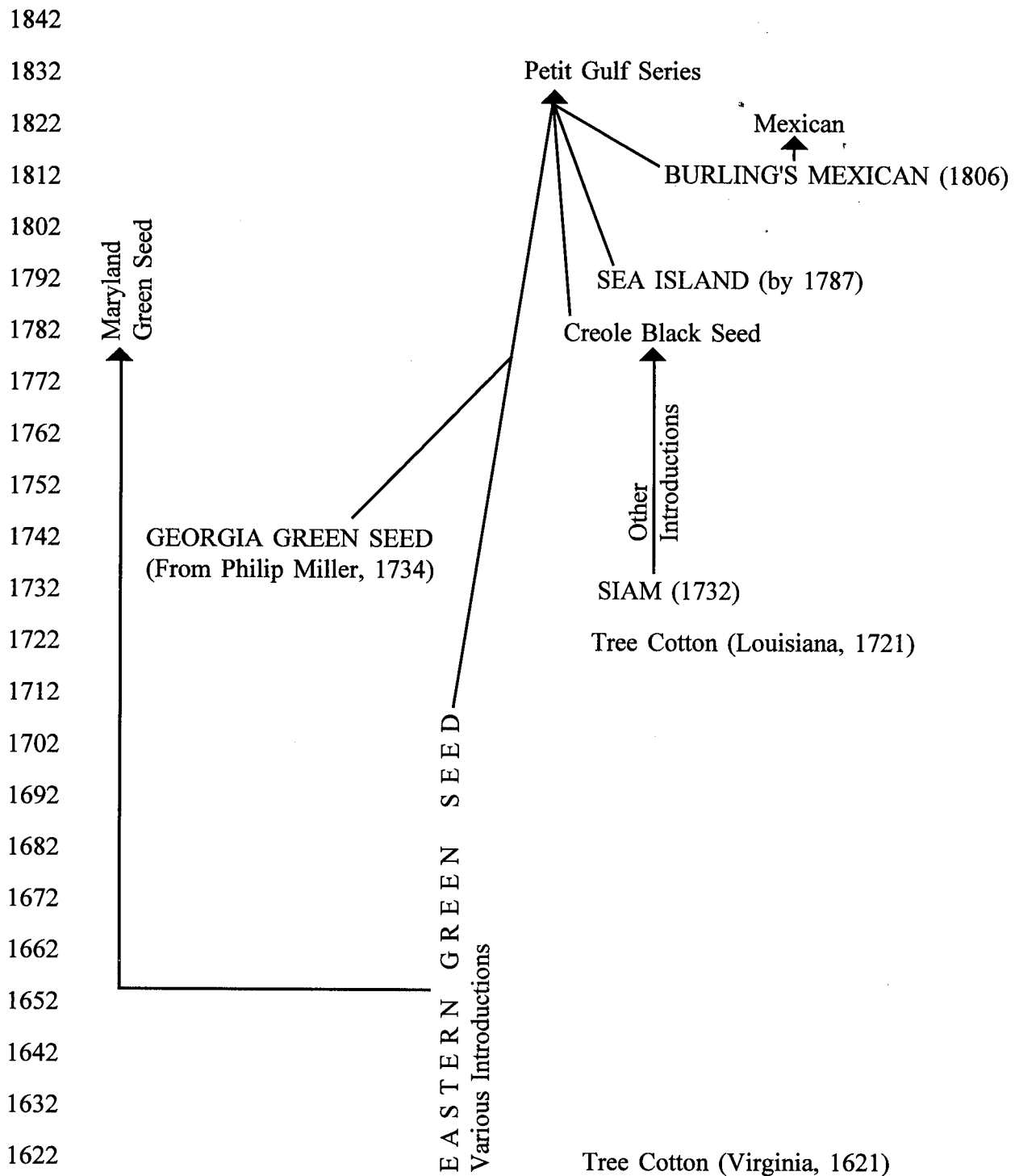


Figure 1. Primary sources of germplasm for American Upland cottons. Uppercase letters indicate introductions or original sources of germplasm. (Figure redrawn from Ramey, 1966.)

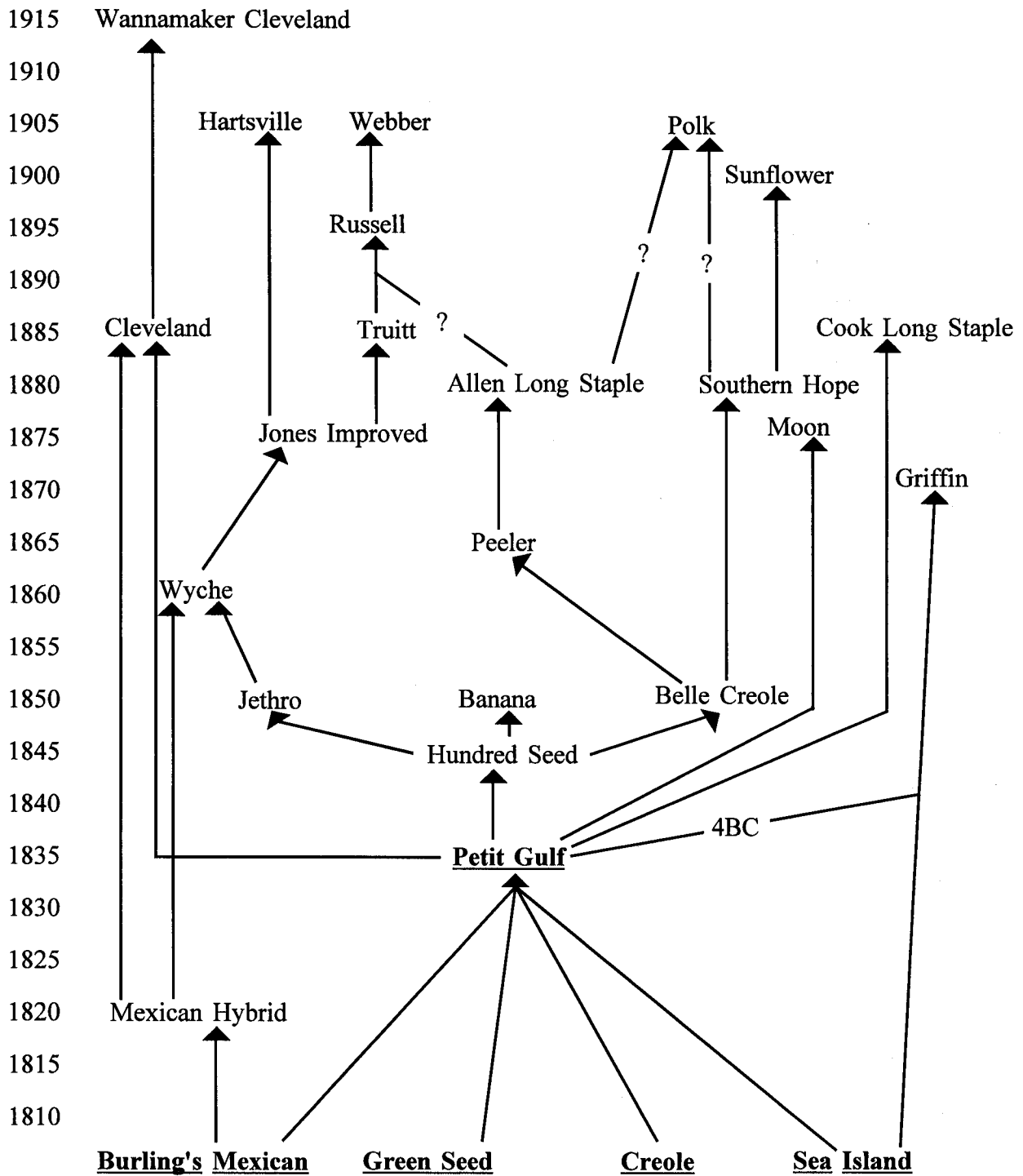


Figure 2. Development of Long Staple and Eastern Big Boll cottons. Underline and bold face type indicate germplasm sources that appear in previous figure(s). Question mark (?) indicates possible outcross parent. (Figure redrawn from Ramey, 1966.)

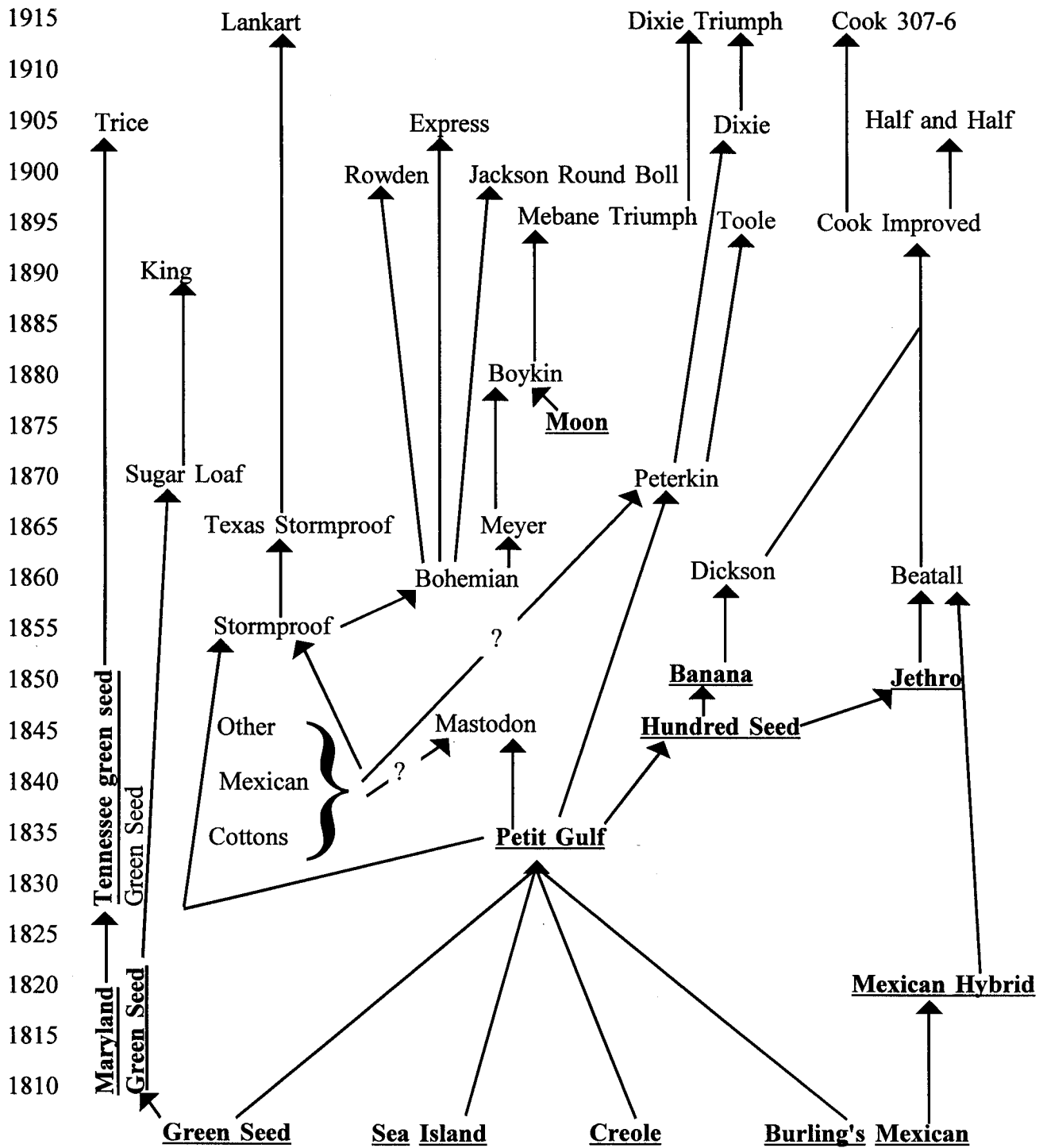


Figure 3. Development of Western Big Boll, Early, and Wilt Resistant cottons. Underline and bold face type indicate germplasm sources that appear in previous figure(s). Question mark (?) indicates possible outcross parent. (Figure redrawn from Ramey, 1966.)

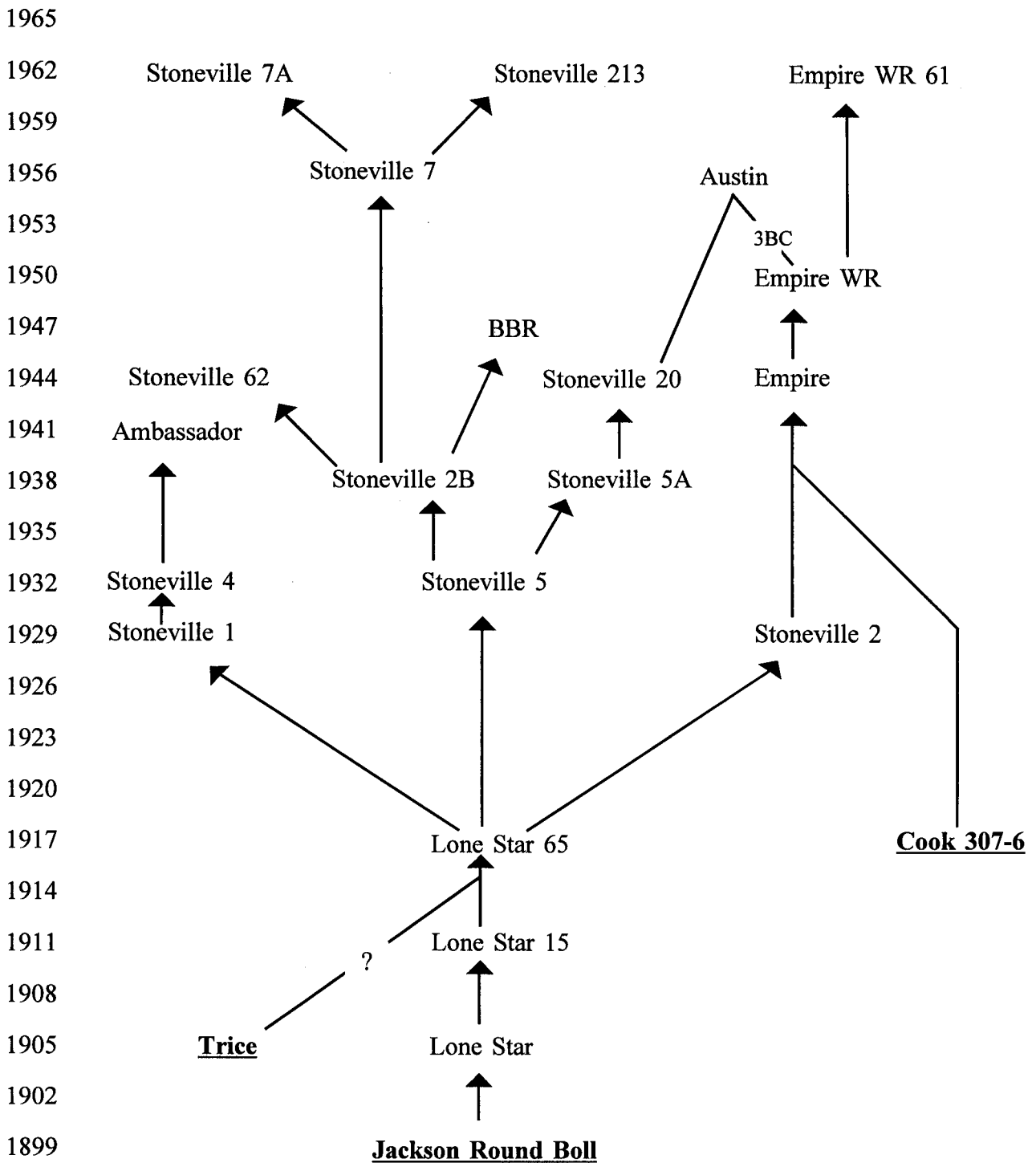


Figure 4. Development of Stoneville, Empire and Austin cottons. Underline and bold face type indicate germplasm sources that appear in previous figure(s). Question mark (?) indicates possible outcross parent. (Figure redrawn from Ramey, 1966.)

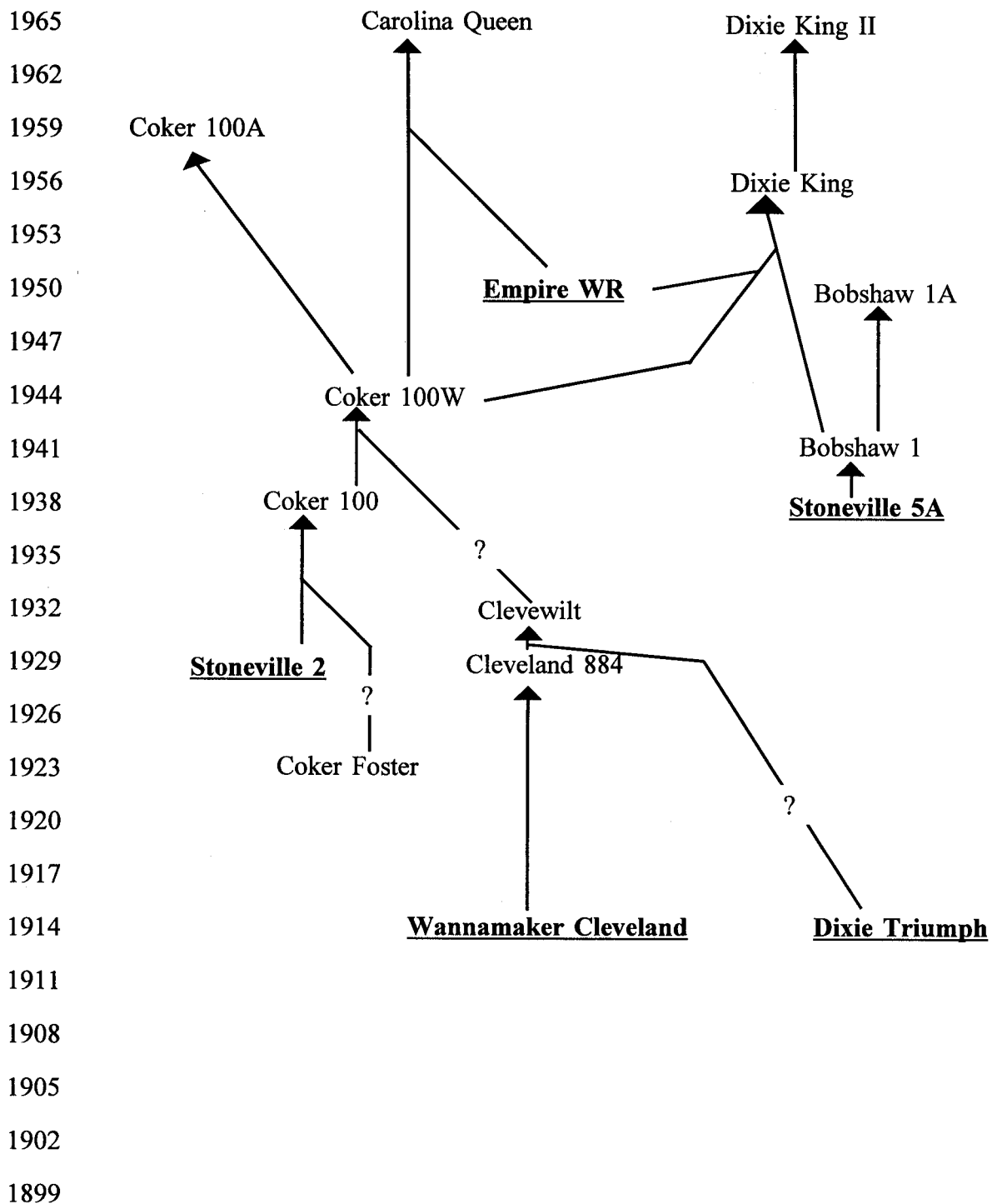


Figure 5. Development of Coker and Dixie King cottons. Underline and bold face type indicate germplasm sources that appear in previous figure(s). Question mark (?) indicates possible outcross parent. (Figure redrawn from Ramey, 1966.)

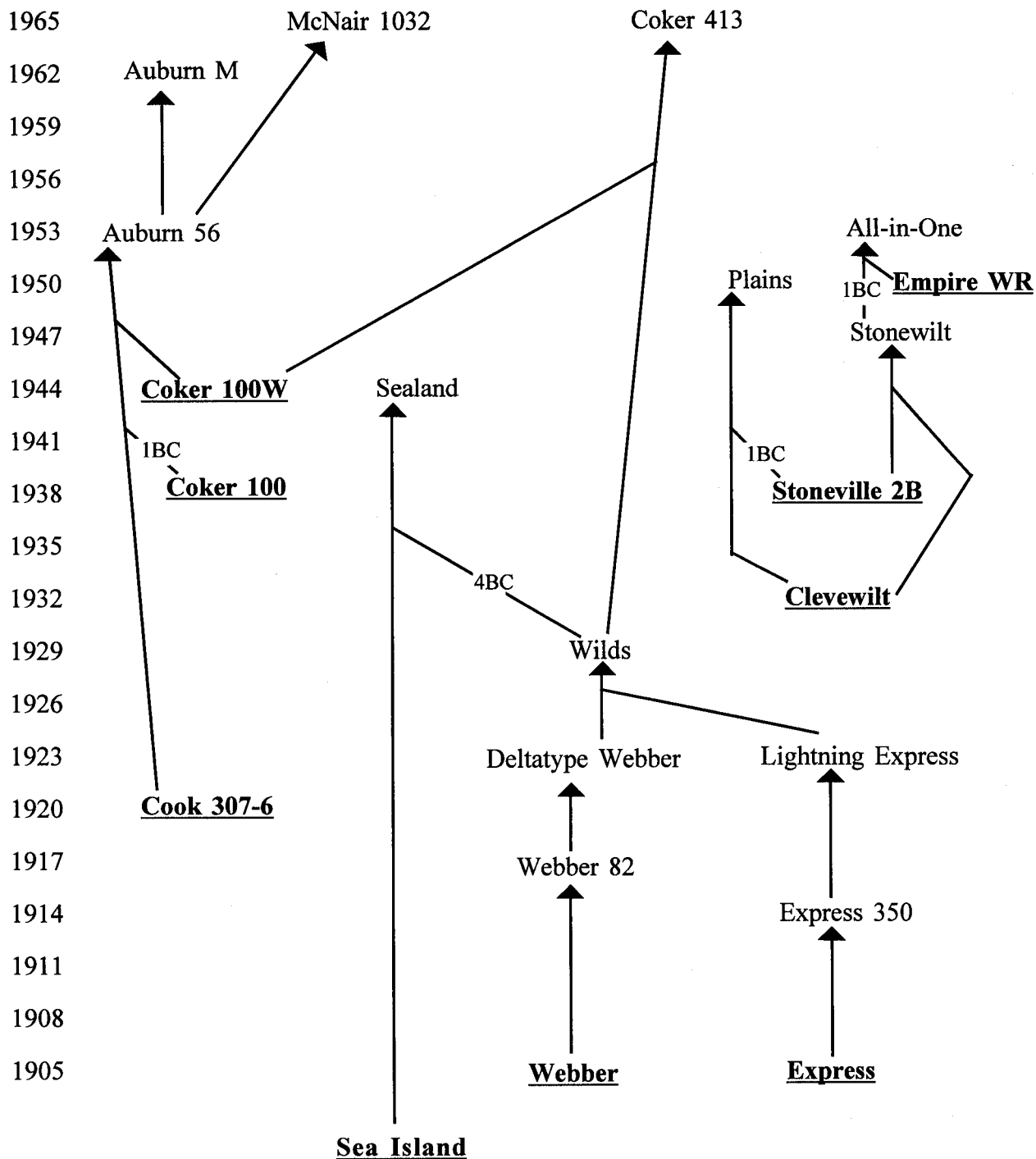


Figure 6. Development of Auburn 56 and Plains cottons. Underline and bold face type indicate germplasm sources that appear in previous figure(s). "BC" indicates number of backcrosses to recurrent parent. (Figure redrawn from Ramey, 1966.)

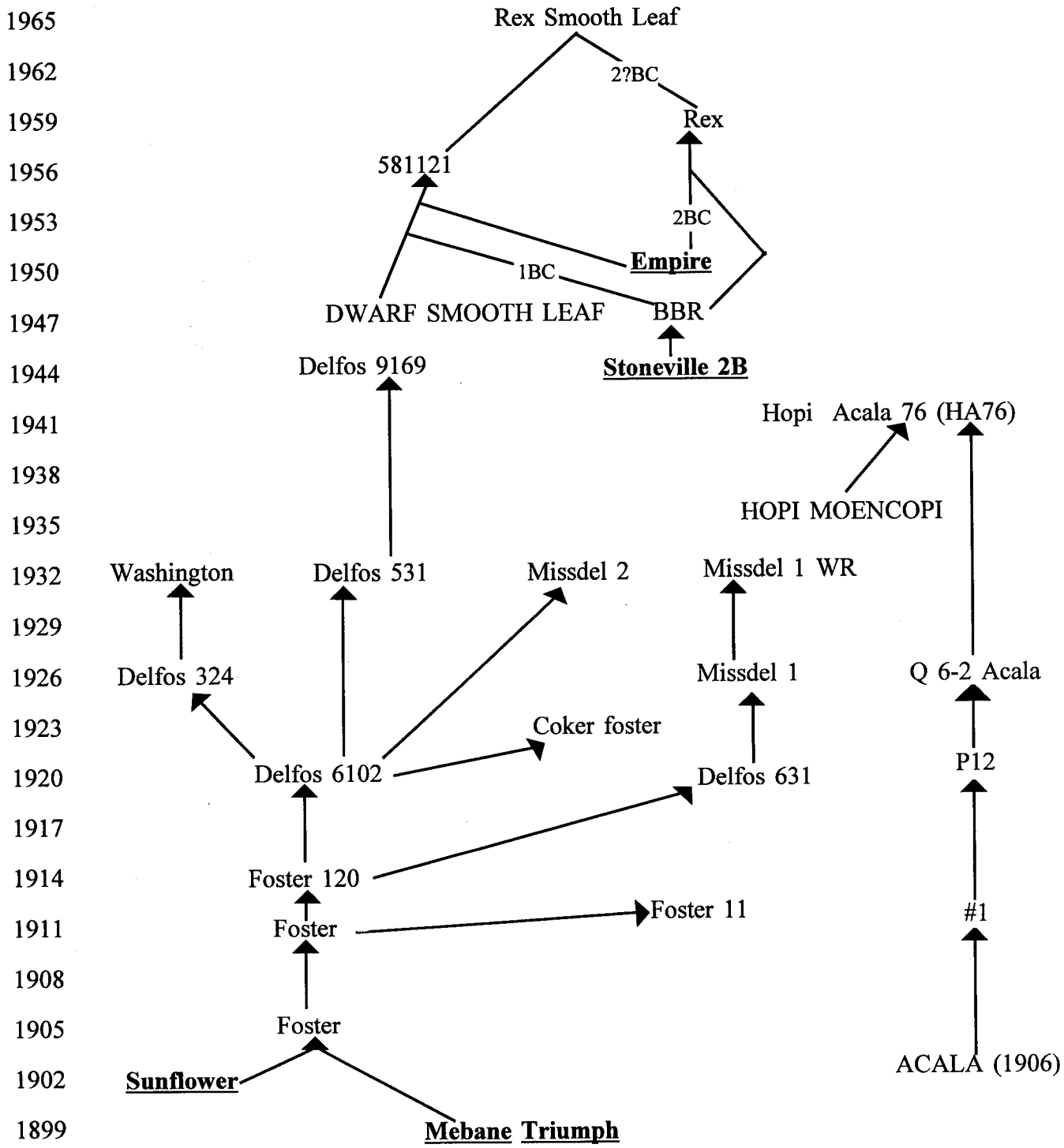


Figure 7. Development of Rex, Delfos, and Hopi Acala 76 cottons. All uppercase letters indicate original or new sources of germplasm; underline and bold face type indicate germplasm sources that appear in previous figure(s). "BC" indicates number of backcrosses to recurrent parent. (Figure redrawn from Ramey, 1966.)

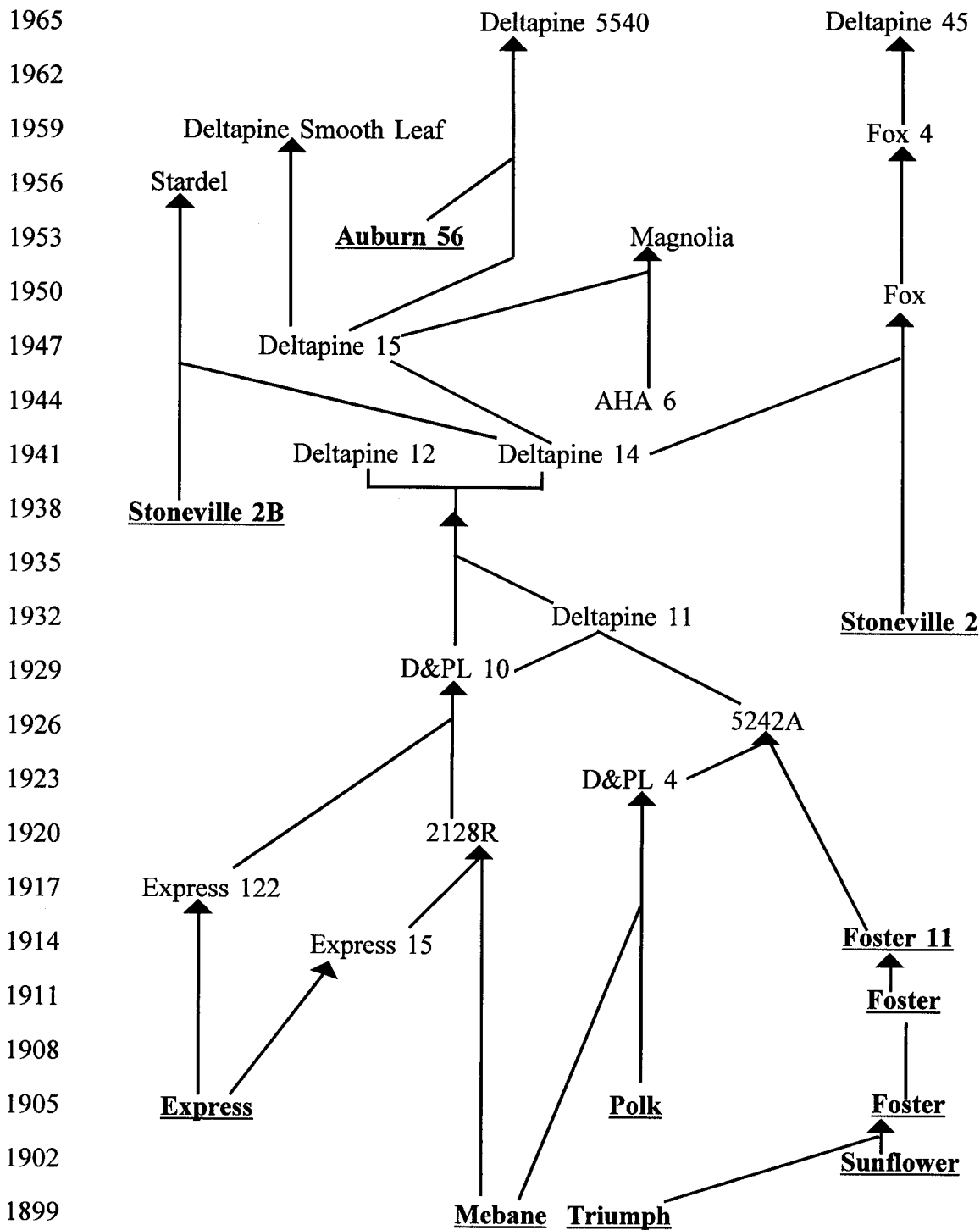


Figure 8. Development of Deltapine cottons. Underline and bold face type indicate germplasm sources that appear in previous figure(s). Development of AHA6 given in Figure 10. (Figure redrawn from Ramey, 1966.)

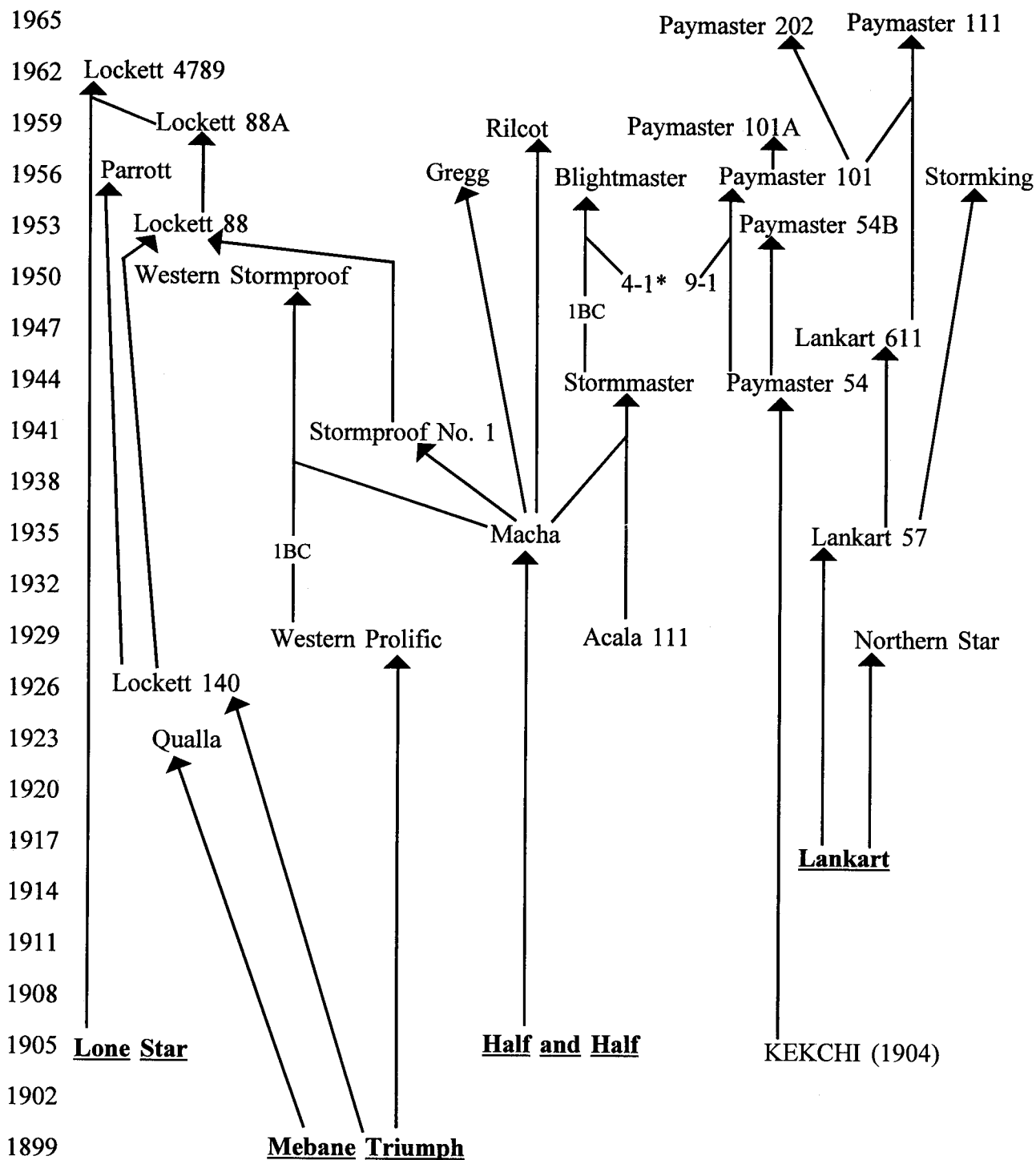


Figure 9. Development of Plains cottons. Underline and bold face type indicate germplasm sources that appear in previous figure(s). All uppercase letters indicate introduction or new source of germplasm. Development of Acala 111 given in Figure 10. "BC" indicates number of backcrosses to recurrent parent. (Figure redrawn from Ramey, 1966.)

*4-1 = Stoneville 20/Acala 5675

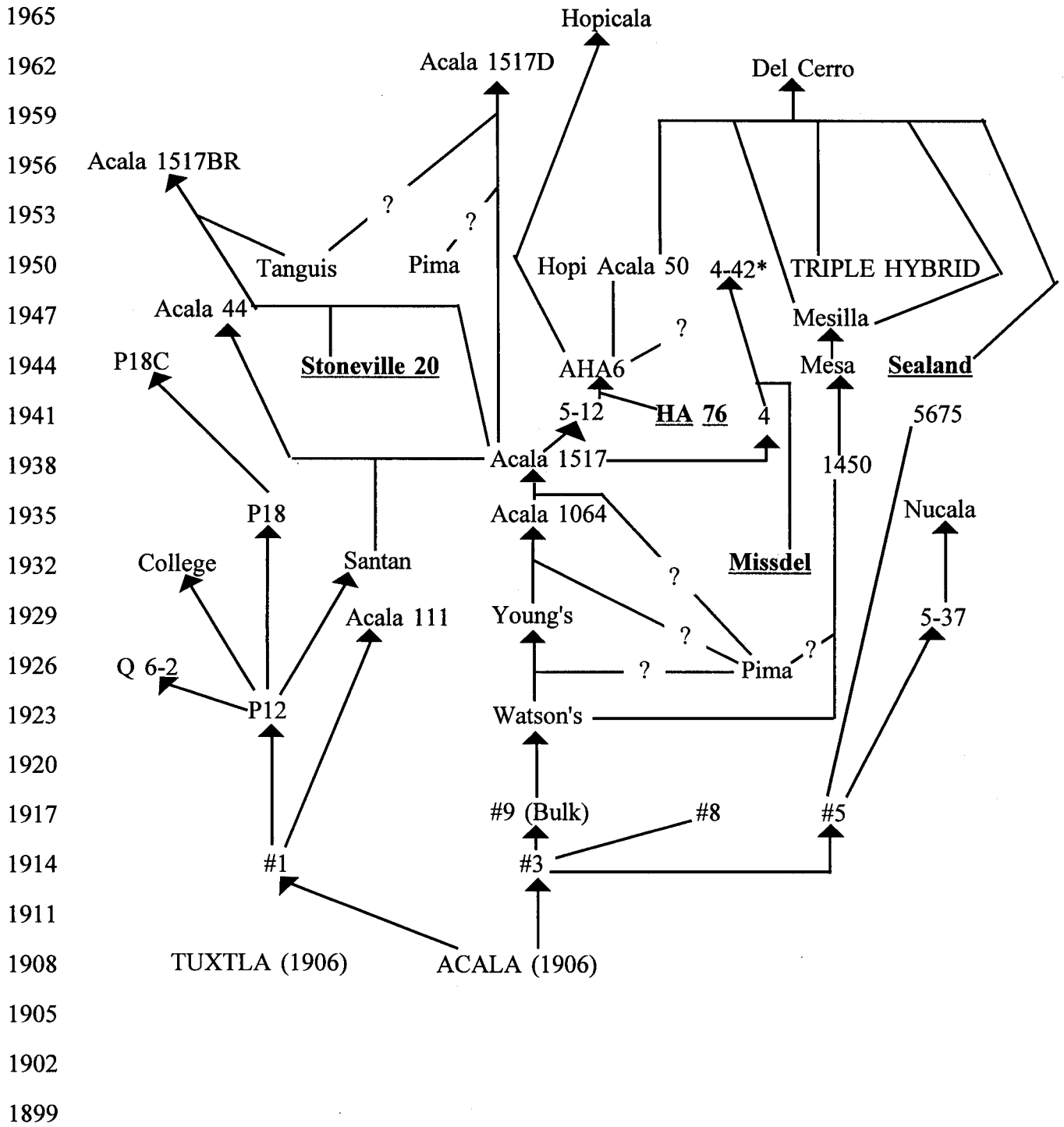


Figure 10. Development of Acala cottons. Introductions or new germplasm indicated by all uppercase letters; underline and bold face type indicate germplasm sources that appear in previous figure(s). Question mark (?) indicates possible outcross parent. (Figure redrawn from Ramey, 1966.)

*Acala 4-42

K = 'Triple Hybrid 108'
K = 'Triple Hybrid 171'
 S = 'Sealand 542'
S = 'Sealand 7'
 E = 'Earlistaple'
 C = C 6-5
 P = AHA 6-1-4
 D = 'Dixie King'
 G = 'Auburn 56'
 H = 'Coker 421'

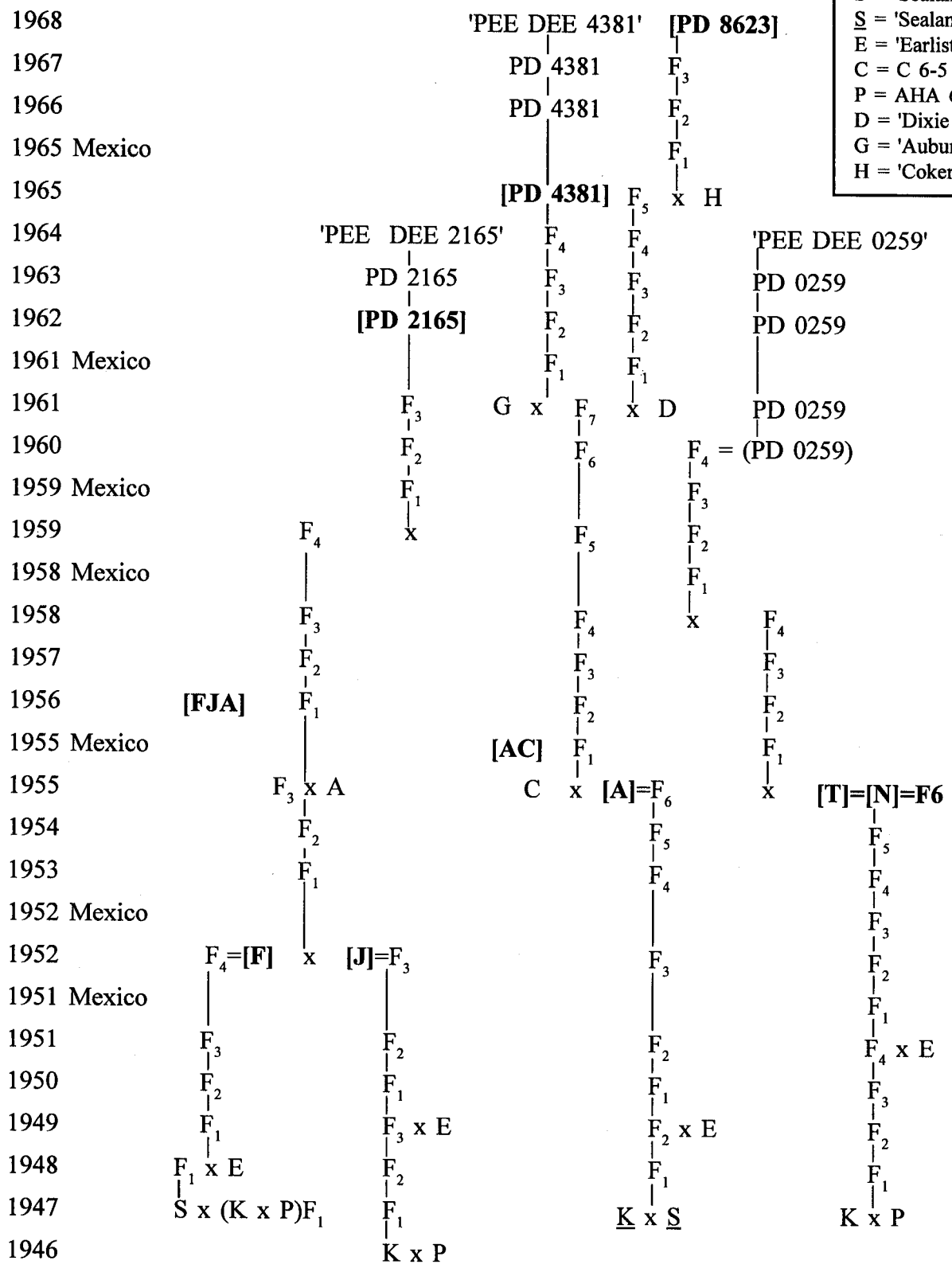


Figure 11. Development of PeeDee germplasm. Bold face letters in brackets indicate PD strains identified in preceding tables. (Figure adapted from Culp and Harrell, 1974.)

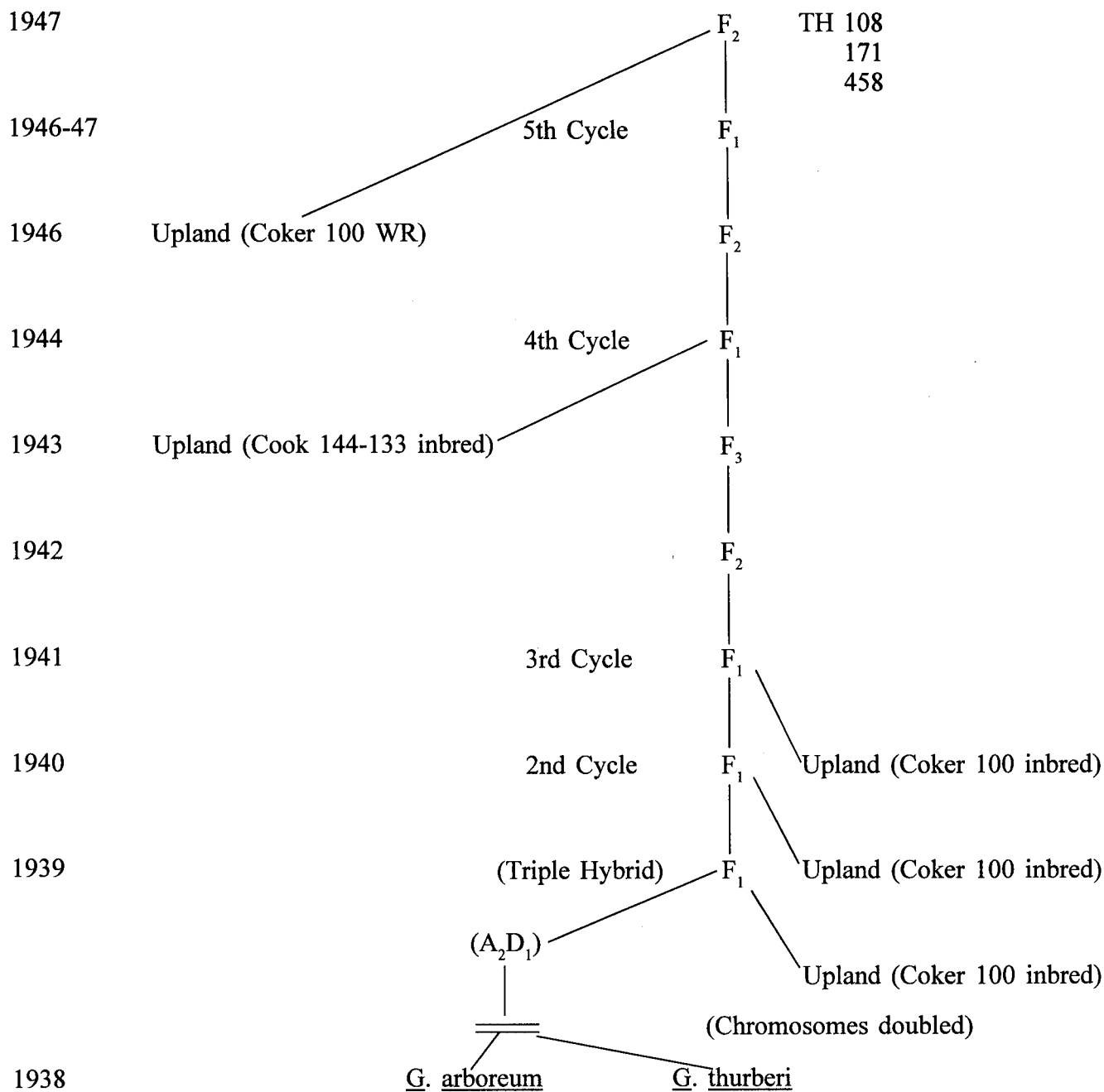


Figure 12. Development of triple hybrids 108, 171, and 458. (Figure adapted from an unpublished figure by Thomas Kerr about 1969.)

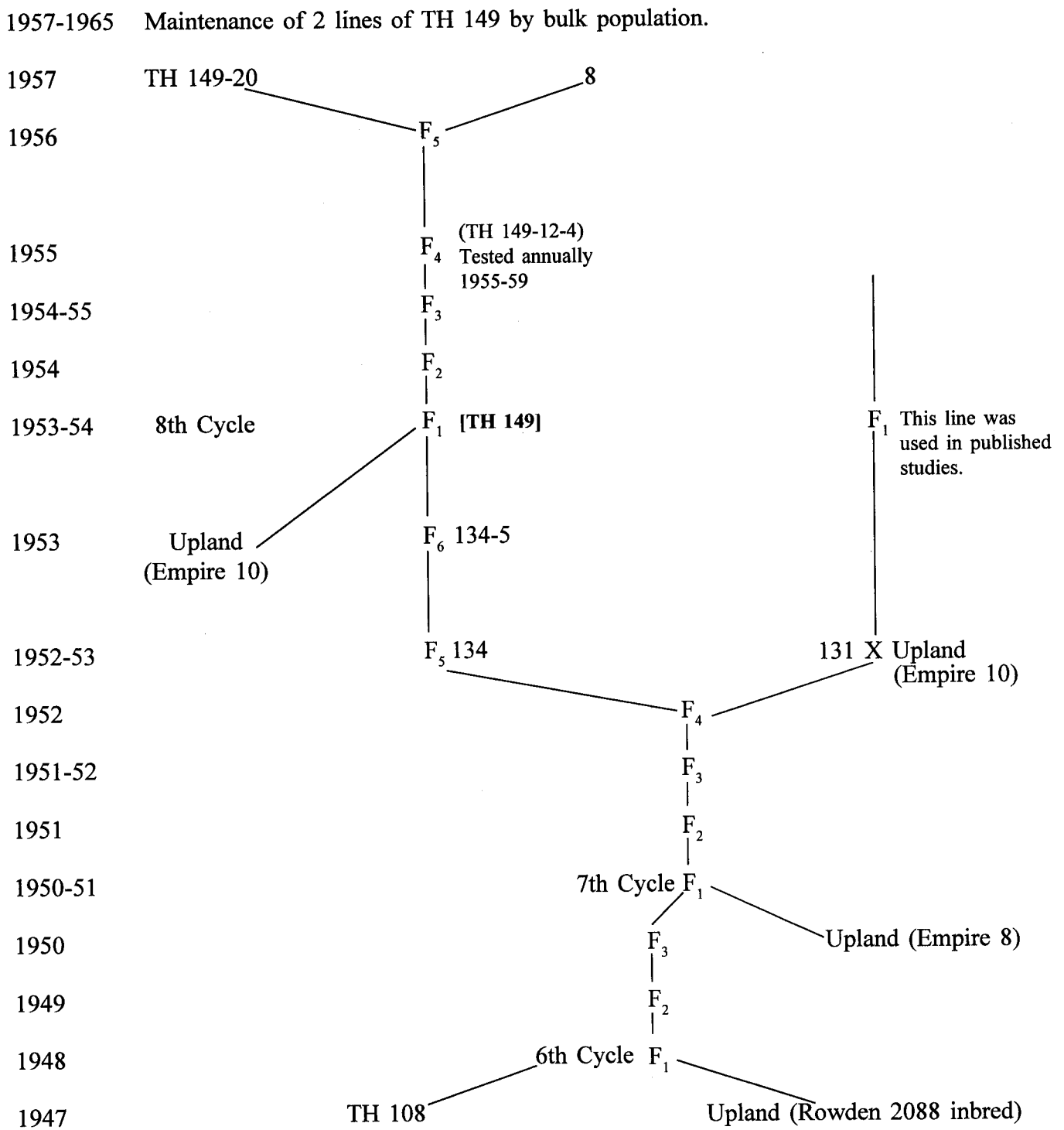


Figure 13. Development of Triple Hybrid 149 (Figure adapted from an unpublished figure by Thomas Kerr about 1969.)

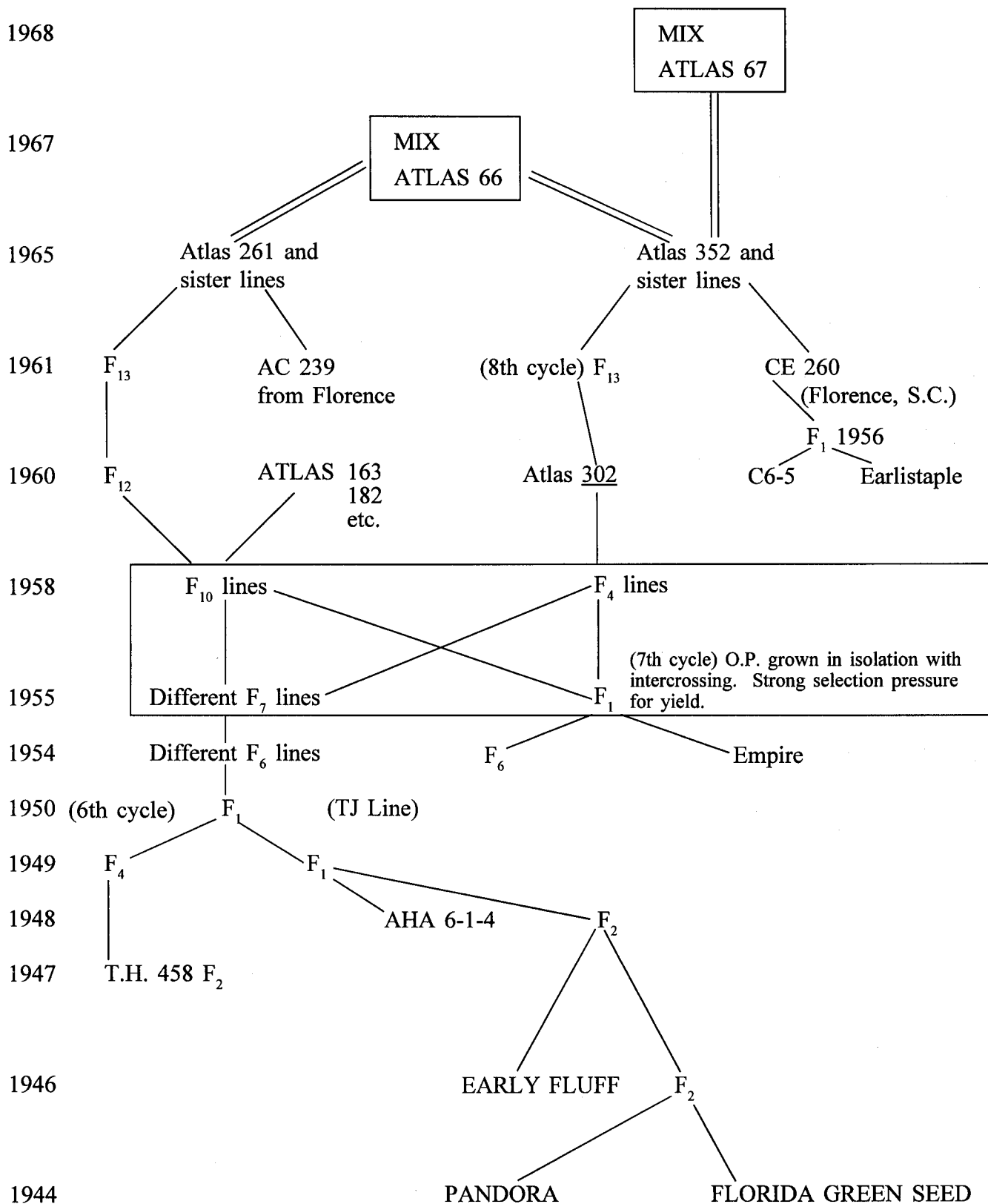


Figure 14. Development of Atlas lines. (Figure adapted from an unpublished figure by Thomas Kerr about 1969.)

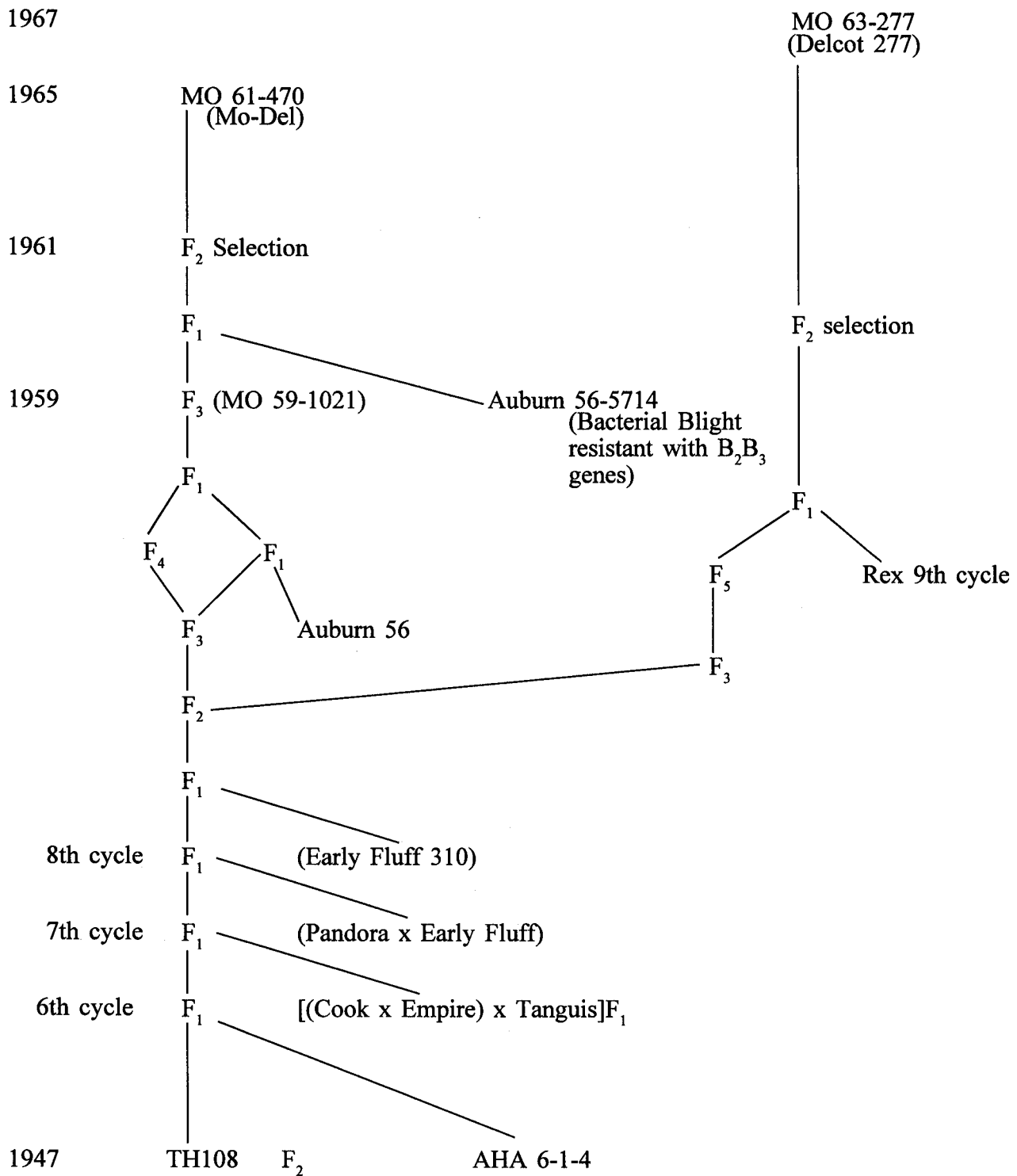


Figure 15. Development of Missouri lines and cultivars. (Figure adapted from an unpublished figure by Thomas Kerr about 1969.)

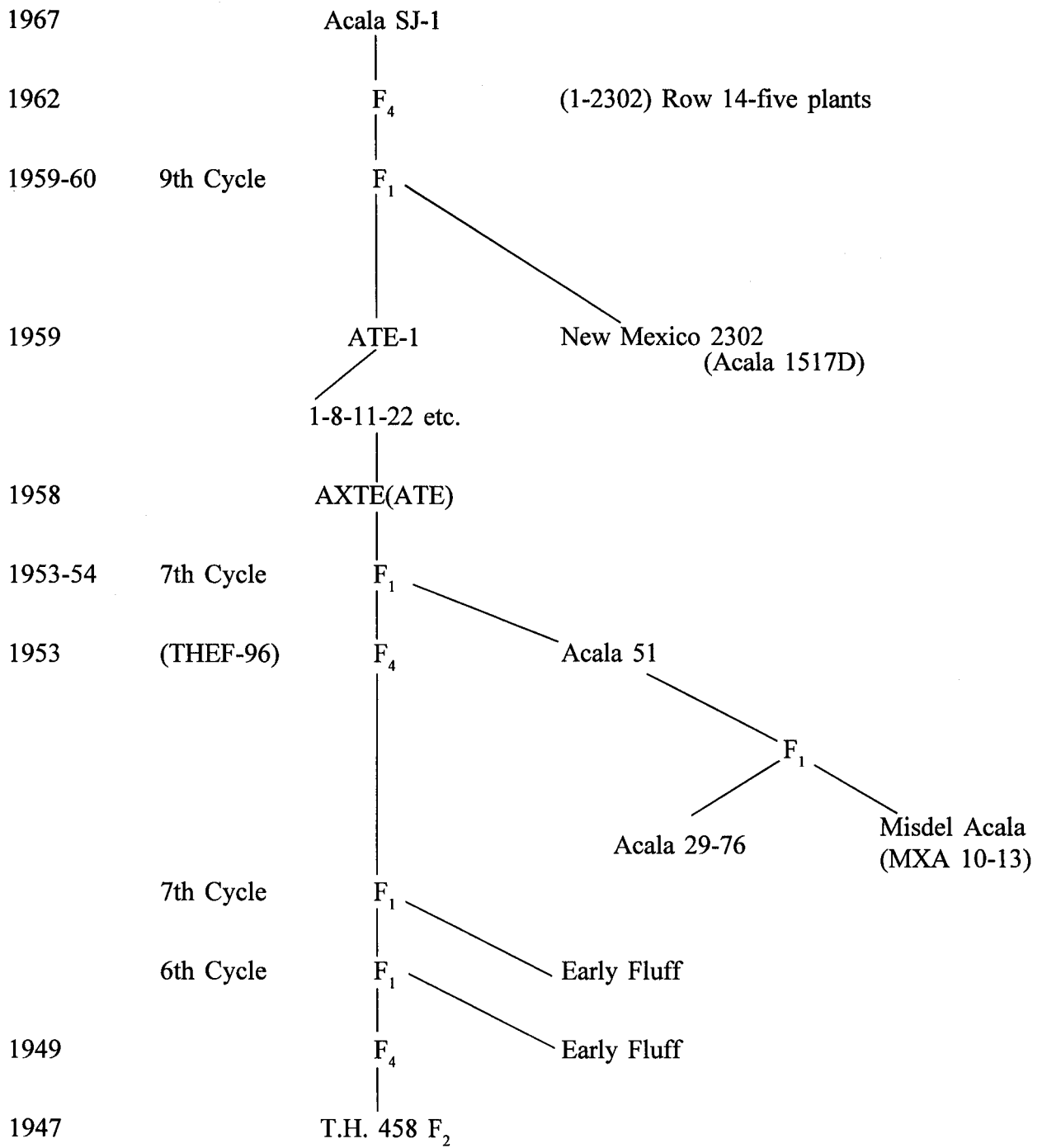
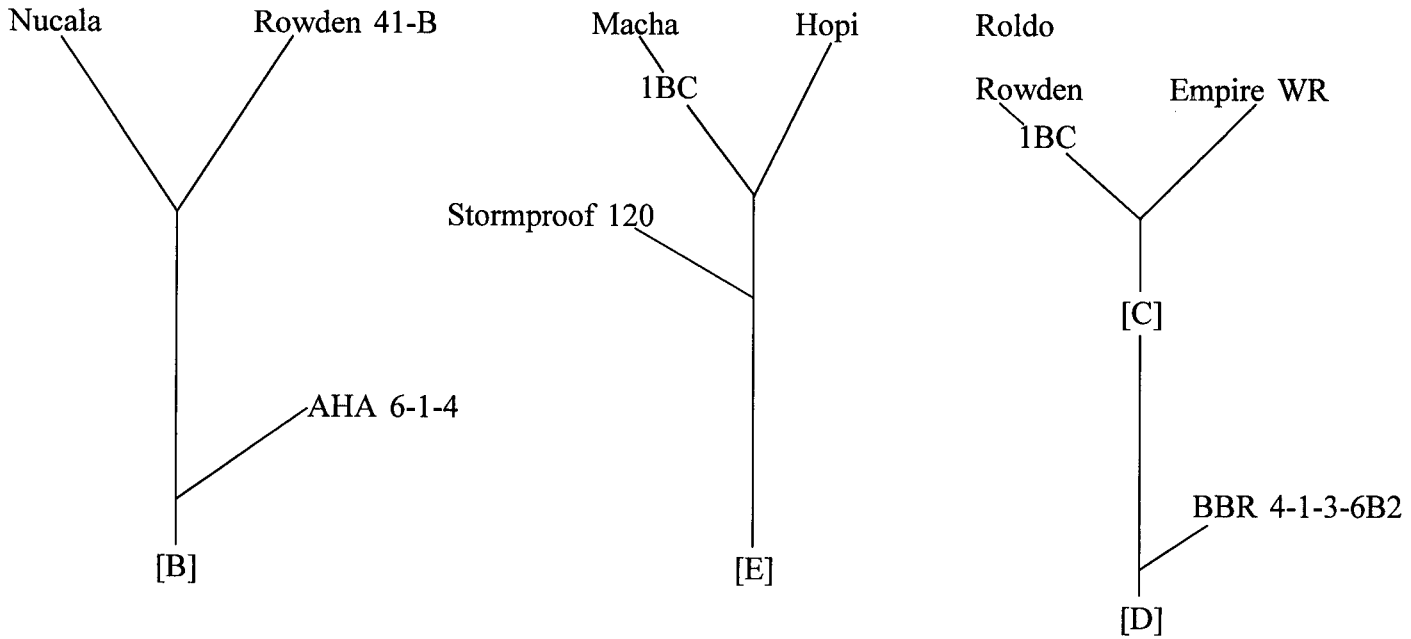


Figure 16. Development of Acala SJ-1. (Figure adapted from unpublished figure of Thomas Kerr about 1969.)



Quapaw and GSA71 = D/3/C//B/E/4/C//B/E
 Stripper 31 = D (presumably)
 Stripper 31A = D (presumably)

Figure 17. Development of 'Quapaw' (drawn from PVP #7200069, Exhibit A), 'GSA71' (drawn from PVP #7400089, Exhibit A), and 'Stripper 31' (based on incomplete pedigree in Metzger et al., 1984).