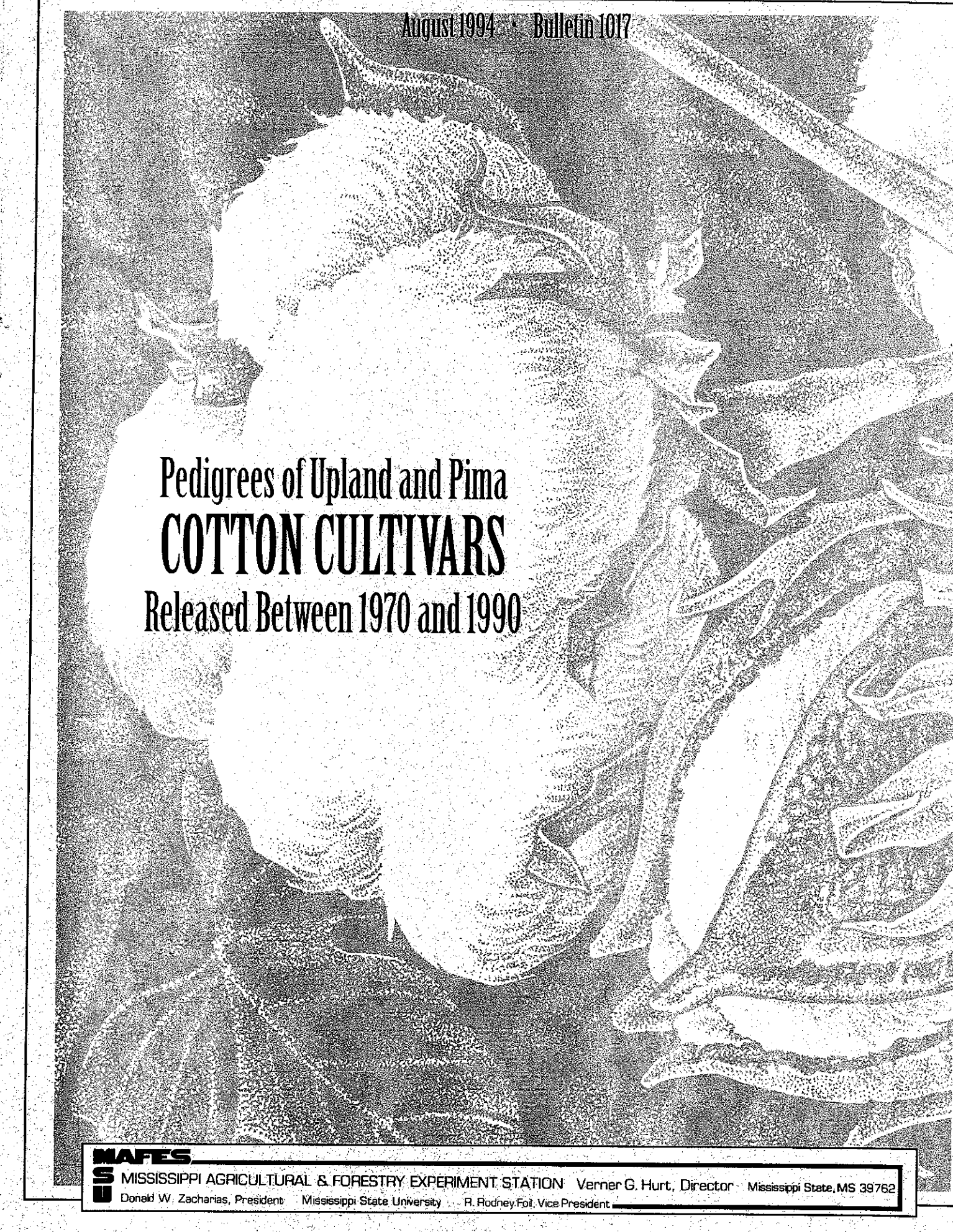


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Pedigrees of Upland and Pima  
**COTTON CULTIVARS**  
Released Between 1970 and 1990

**MAFES**



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# **Pedigrees of Upland and Pima Cotton Cultivars Released Between 1970 and 1990**

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# Pedigrees of Upland and Pima Cotton Cultivars Released Between 1970 and 1990

The purpose of this bulletin is to make available, in a single document, the pedigrees of cotton cultivars released between 1970 and 1990. Information on the parentage of cultivars is useful to geneticists, applied plant breeders, and public policymakers. Geneticists can use pedigree information to estimate the genetic distance among cultivars, or to evaluate the contribution of various genetic pools to current cultivars. 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. Policymakers 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.

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. The column in Table 1 listing originator or owner is 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 × B	A/B
(A × B) × C	A/B//C
(A × B) × (C × D)	A/B//C/D
(A × B) × (C × D)	A/B//C/3/D
(A × B) × B	A/2*B

Simple pedigrees in Table 2 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 in Table 2 are presented in Table 3. Germplasm from the PeeDee Experiment Station at Florence, SC, and Multi-Adversity Resistance (MAR) program at Texas A & M University are listed in separate sections of 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.

The following abbreviations are used in Tables 1 to 3:

Abbreviation	Definition
AES	Agric. Exp. Stn. preceded by postal designation of state
CKR	Coker
CS	Crop Science
DP	Deltapine
MAFES	Miss. Agric. Forestry Exp. Stn.
PM	Paymaster
PVP	Plant Variety Protection application
Sel.	Selection out of
STV	Stoneville
/PC	Personal Communication

Additional abbreviated notations, such as the use of "AXTE" to represent the cross, Acala 51/TH 458/2\*Early Fluff, and "TH" to represent Triple Hybrid, occur sometimes as abbreviations and sometimes as part of germplasm names; we have used the notations received from sources.

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'.

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Table 1. Identification of cotton cultivars released between 1970 and 1990, and the source of information used in pedigrees.

Cultivar name	Experimental designation	PVP number	CS Reg.	Year	Originator or Owner	Reference for pedigree
Upland Cottons						
1 7563		8300031		1983	Cargill Seed Co., Aiken, TX	R.H. Sheezy/PC
2 Acala 1517-70	B4964 or NMB 4364		CV-66	1970	NM AES & ARS-USDA	CS18:164
3 Acala 1517-75	Acala 4111		CV-87	1975	NM AES	CS18:164
4 Acala 1517-77	B3-1		CV-77	1977	NM AES	CS20:113
5 Acala 1517-77BR			CV-52	1982	NM AES	CS24:382
6 Acala 1517-88	B1788		CV-88	1987	NM AES	CS28:190-191
7 Acala 1517-91	3579		CV-99	1990	NM AES	CS32:831-832
8 Acala 1517-SR1	E945		CV-88	1983	NM AES	CS24:382-383
9 Acala 1517-SR2	E1137		CV-89	1986	NM AES	CS27:149
10 Acala 1517C	1028 OR 8888 OR 7183		CV-64	1951	NM AES	CS18:163; Staten, 1971
11 Acala 1517E-1	B8040		CV-68	1971	NM AES	CS18:164
12 Acala 1517E-2	B344		CV-78	1978	NM AES	CS20:113
13 Acala 1517V	6612 (1984); 9450 (1989)		CV-65	1964	NM AES & ARS-USDA	CS18:163; Staten 1971
14 Acala Maxxa	C-4164	9000168		1990	CPCSD, Shafter, CA	H.B. Cooper/PC
15 Acala Prema	C-32	8800171		1988	CPCSD, Shafter, CA	H.B. Cooper/PC
16 Acala Royale	C-4226	9000173		1990	CPCSD, Shafter, CA	H.B. Cooper/PC
17 Acala SJ-2				1973	USDA-ARS, Shafter, CA	S.R. Oakley/PC
18 Acala SJ-3				1975	USDA-ARS, Shafter, CA	S.R. Oakley/PC
19 Acala SJ-4				1976	USDA-ARS, Shafter, CA	S.R. Oakley/PC
20 Acala SJ-5				1977	USDA-ARS, Shafter, CA	S.R. Oakley/PC
21 Acala SJC-1				1983	CPCSD, Shafter, CA	S.R. Oakley/PC
22 All-Tex 857					All-Tex Seed Co., Levelland, TX	Metzler & Supak, 1990
23 All-Tex E-2					All-Tex Seed Co., Levelland, TX	Metzler & Supak, 1990
24 All-Tex Quickie	21-S-1-87				All-Tex Seed Co., Levelland, TX	Metzler & Supak, 1990
25 All-Tex Wilhmaster 571					All-Tex Seed Co., Levelland, TX	Metzler & Supak, 1990
26 Arkot 518	U Ark 7518(3402)	8700165	CV-91	1987	AR AES	CS28:190
27 AZ 64	AZ6401			1972	AZ AES	AZ AES release memo
28 BR-636		9000212		1990	Ron Thorp, Stamford, AZ	R.G. Ward/PC
29 Blanco 3363		7100051			Growers Seed Assn., Lubbock, TX	PVP Exhibit A
30 Blightmaster A-5					TX AES & USDA-ARS, Lubbock, TX	Metzler & Supak, 1990
31 Bronco 360		8900114			Bronco Seed Co., Stamford, TX	Metzler & Supak, 1990
32 Bronco 414					Bronco Seed Co., Stamford, TX	Metzler & Supak, 1990
33 Bronco 625		8300124			Bronco Seed Co., Stamford, TX	Metzler & Supak, 1990
34 Bronco 693					Bronco Seed Co., Stamford, TX	Metzler & Supak, 1990
35 CENCOT				1986	OK AES	Q. Adams/PC
36 Cascot 392					Custom Ag Services, Lorraine, TX	L.M. Verhalen/PC
37 Cascot 2910					Custom Ag Services, Lorraine, TX	R. Bridge/PC
38 Cascot B-2		7700042			Custom Ag Services, Lorraine, TX	Metzler & Supak, 1990
						Metzler et al., 1984

Table 1. Continued.

Cultivar name	Experimental designation	PVP number	CS Reg.	Year	Originator or Owner	Reference for pedigree
39 Cascot BR-1		8000032			Custom Ag Services, Lorraine, TX	Metzer et al., 1984
40 Cascot C-13		8300034			Custom Ag Services, Lorraine, TX	Metzer & Supak, 1990
41 Cascot L-7		7700043			Custom Ag Services, Lorraine, TX	Metzer & Supak, 1990
42 Coker 130		8900252		1990	Coker Pedigreed Seed Co., Hartsville, SC	L. McDonald & H.W. Webb/PC
43 Coker 139		8700070		1987	Coker Pedigreed Seed Co., Hartsville, SC	L. McDonald/PC
44 Coker 208		8300082		1983	Coker Pedigreed Seed Co., Hartsville, SC	L. McDonald/PC
45 Coker 304		7700024		1978	Coker Pedigreed Seed Co., Hartsville, SC	L. McDonald & H.W. Webb/PC
46 Coker 310		7100021		1971	Coker Pedigreed Seed Co., Hartsville, SC	Metzer et al., 1984
47 Coker 312		7200100		1972	Coker Pedigreed Seed Co., Lubbock, TX	L. McDonald & H.W. Webb/PC
48 Coker 315		8000087		1979	Coker Pedigreed Seed Co., Hartsville, SC	L. McDonald & H.W. Webb/PC
49 Coker 320		8900290		1989	Coker Pedigreed Seed Co., Hartsville, SC	L. McDonald/PC
50 Coker 417				1970	Coker Pedigreed Seed Co., Hartsville, SC	H.W. Webb/PC
51 Coker 420		7900087			Coker Pedigreed Seed Co., Hartsville, SC	H.W. Webb/PC
52 Coker 500		8300078		1984	Coker Pedigreed Seed Co., Lubbock, TX	Metzer & Supak, 1990
53 Coker 3131		8100019		1983	Coker Pedigreed Seed Co., Hartsville, SC	Metzer et al., 1984
54 Coker 4101				1971	Coker Pedigreed Seed Co., Hartsville, SC	L. McDonald/PC
55 Coker 4360		8200071		1982	Coker Pedigreed Seed Co., Lubbock, TX	L. McDonald/PC
56 Coker 5110		7200101		1971	Coker Pedigreed Seed Co., Lubbock, TX	Metzer & Supak, 1990
57 Coyote	Vresels RB-RB-64	8900169			USDA, Shafter, CA	PVP Exhibit A
58 Crooked Row-1					Crooked Row Farms, Crosbyton, TX	Metzer & Supak, 1990
59 DC 81					Dawson Seed Co. Lamesa, TX	Metzer & Supak, 1990
60 DC 827				1989	Dawson Seed Co. Lamesa, TX	Metzer & Supak, 1990
61 DC 886				1989	Dawson Seed Co. Lamesa, TX	Metzer & Supak, 1990
62 DES 24	DES 06-020-24	7800040	CV-69	1978	MAFES	CS18:523
63 DES 56	DES 2134-056	7800041	CV-70	1978	MAFES	CS18:524
64 DES 119	DES 11913	8500176	CV-88	1985	MAFES	CS26:646-647
65 DES 422		8100170	CV-80	1982	MAFES	CS22:1085
66 Dawson V-14		7900015			Dawson Seed Co., Lamesa, TX	Metzer et al., 1984
67 Delcot 277	MO 63-277		CV-55	1972	MO AES & PSRD-ARS-USDA	CS12:126-127
68 Delcot 277J	MO 63-277J		CV-71	1978	MO AES	CS19:294
69 Delcot 311	MO 74-944	8100029	CV-79	1980	MO AES	CS20:669
70 Delcot 344	MO 78-344	8600161	CV-90	1986	MO AES	CS27:150
71 Delcot 390	MO 79-390		CV-84	1985	MO AES	CS25:198
72 Deltapine 20		8500110		1985	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
73 Deltapine 25		7200016		1974	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
74 Deltapine 26		7800022		1975	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
75 Deltapine 30		8200029		1981	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
76 Deltapine 41		7900102		1979	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
77 Deltapine 50		8400154		1984	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC



Table 1. Continued.

	Cultivar name	Experimental designation	PVP number	CS Reg.	Year	Originator or Owner	Reference for pedigree
78	Deltapine 51		8900105		1990	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
79	Deltapine 55		7500103		1974	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
80	Deltapine 61		7800103		1973	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
81	Deltapine 62		8200111		1976	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
82	Deltapine 66		7400025		1974	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
83	Deltapine 69		8400130		1984	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
84	Deltapine 70		7800097		1979	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
85	Deltapine 77		8600073		1986	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
86	Deltapine 80		7800023		1977	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
87	Deltapine 120		8100072		1981	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
88	Deltapine 137		7300014		1974	Delta & Pine Land Co., Scott, MS	
89	Deltapine 826		7200143		1974	Delta & Pine Land Co., Scott, MS	
90	Deltapine 5415				1990	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
91	Deltapine 5690				1990	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
92	Deltapine Acala 90		8100143		1981	Delta & Pine Land Co., Scott, MS	K.R. Jones/PC
93	Deltapine NSL	Deltapine 7146N	8300112		1983	Delta & Pine Land Co., Scott, MS	Metzer et al., 1984
94	Deltapine SR-1		7200042			Delta & Pine Land Co., Lubbock, TX	L.M. Verhalen/PC
95	Deltapine SR-2		7200043			Delta & Pine Land Co., Lubbock, TX	DT. Bowman/PC
96	Deltapine SR-4		7500089		1976	Delta & Pine Land Co., Lubbock, TX	K.R. Jones/PC
97	Deltapine SR-5		8000052			Terra Seed Co., Lubbock, TX	K.R. Jones/PC
98	Deltapine SR-353		8200137			Delta & Pine Land Co., Lubbock, TX	Metzer & Supak, 1990
99	Deltapine SR-482		8200067			Delta & Pine Land Co., Lubbock, TX	Metzer & Supak, 1990
100	Deltapine SR-980		8100098		1981	Delta & Pine Land Co., Lubbock, TX	Metzer et al., 1984
101	Dixie King III		7300089		1973	MAFES	
102	Dunn 109		8500089		1986	Dunn Seed Farms, Seminole, TX	J.L. Dunn/PC
103	Dunn 118		7100048		1974	Dunn Seed Farms, Seminole, TX	J.L. Dunn/PC
104	Dunn 119		7200098		1974	Dunn Seed Farms, Seminole, TX	J.L. Dunn/PC
105	Dunn 120		7400096		1975	Dunn Seed Farms, Seminole, TX	J.L. Dunn/PC
106	Dunn 219		7900006		1980	Dunn Seed Farms, Seminole, TX	J.L. Dunn/PC
107	Dunn 224		8000129		1981	Dunn Seed Farms, Seminole, TX	J.L. Dunn/PC
108	Dunn 325		8500088		1986	Dunn Seed Farms, Seminole, TX	Metzer & Supak, 1990
109	Dunn 400		8800052			Dunn Seed Farms, Seminole, TX	Metzer & Supak, 1990
110	Dunn 1002		8500091		1986	Dunn Seed Farms, Seminole, TX	Metzer & Supak, 1990
111	Dunn 1047		8500090		1986	Dunn Seed Farms, Seminole, TX	Metzer & Supak, 1990
112	Dunn 1325					Dunn Seed Farms, Seminole, TX	Metzer & Supak, 1990
113	Dunn 1850					Dunn Seed Farms, Seminole, TX	R. Dunn/PC
114	Dunn HS 120		8700210		1988	Dunn Seed Farms, Seminole, TX	Metzer & Supak, 1990
115	Earlycot 31		7300055			Agronomics Inc., Lubbock, TX	L.M. Verhalen/PC
116	Earlycot 32A				1984	Agronomics Inc., Lubbock, TX	Metzer et al., 1984

Table 1. Continued.

	Cultivar name	Experimental designation	PVP number	CS Reg.	Year	Originator or Owner	Reference for pedigree
117	Earlycot 48				1984	Agronomics Inc., Lubbock, TX	Metzer et al., 1984
118	Earlycot WR					Agronomics Inc., Lubbock, TX	Metzer et al., 1984
119	G&P 74+		9000019			G&P Seed Co., Inc., Aquilla, TX	D. Bush/PC
120	G&P 1005		8300108			G&P Seed Co., Inc., Aquilla, TX	Metzer & Supak, 1990
121	G&P 3755		7700019			G&P Seed Co., Inc., Aquilla, TX	Metzer & Supak, 1990
122	G&P 3774		7700018			G&P Seed Co., Inc., Aquilla, TX	Metzer & Supak, 1990
123	G&P 5479		8300033			G&P Seed Co., Inc., Aquilla, TX	Metzer & Supak, 1990
124	GSA 71		7400089			Gro-Agri Seed Co., Lubbock, TX	Metzer & Supak, 1990
125	GSA 74		7900071			Gro-Agri Seed Co., Lubbock, TX	PVP Exhibit A
126	GSA 75		7605007			Gro-Agri Seed Co., Lubbock, TX	R. Phipps/PC
127	GSA 78		7900072			Gro-Agri Seed Co., Lubbock, TX	R. Phipps/PC
128	GSC 20		8400101			Gro-Agri Seed Co., Lubbock, TX	R. Phipps/PC
129	GSC 25		8400057			Gro-Agri Seed Co., Lubbock, TX	R. Phipps/PC
130	GSC 27		8700005			Gro-Agri Seed Co., Lubbock, TX	Metzer & Supak, 1990
131	GSC 30		8800048			Gro-Agri Seed Co., Lubbock, TX	Metzer & Supak, 1990
132	GSC 71+		8700006			Gro-Agri Seed Co., Lubbock, TX	Metzer & Supak, 1990
133	GSC 1093		9000032			Gro-Agri Seed Co., Lubbock, TX	Metzer & Supak, 1990
134	GaCot 79	Frego 142		CV-76	1979	GA AES	R. Phipps/PC
135	Georgia King	GaT 85-278		CV-98	1990	GA AES	CS20:112
136	Germain's Acala GC-352		8500076		1984	Germain's Seeds, Bakersfield, CA	CS92:493
137	Germain's Acala GC-356		8800017		1985	Germain's Seeds, Bakersfield, CA	J.F. Mahill/PC
138	Germain's Acala GC-362		8400129		1983	Germain's Seeds, Bakersfield, CA	J.F. Mahill/PC
139	Germain's Acala GC-363		8100060		1981	Germain's Seeds, Bakersfield, CA	J.F. Mahill/PC
140	Germain's Acala GC-410		8700061		1983	Germain's Seeds, Bakersfield, CA	J.F. Mahill/PC
141	Germain's Acala GC-445		8100061		1981	Germain's Seeds, Bakersfield, CA	J.F. Mahill/PC
142	Germain's Acala GC-510		8200166		1984	Germain's Seeds, Bakersfield, CA	J.F. Mahill/PC
143	Germain's Acala GC-555		8100062		1980	Germain's Seeds, Bakersfield, CA	J.F. Mahill/PC
144	Green	Vresis G-A3PTab-b4	8900170			USDA, Shafter, CA	PVP Exhibit A
145	HS 23		9000150		1990	Hyperformer Seed Co., Memphis, TN	Al Hoggard/PC
146	HS 46		8800104		1989	Hyperformer Seed Co., Memphis, TN	Al Hoggard/PC
147	Hancock	T59-134		CV-56	1972	TN AES	CS12:714
148	Highland 34					Brownfield Seed & Delinting Co., B'fld, TX	Metzer & Supak, 1990
149	Highland 52					Brownfield Seed & Delinting Co., B'fld, TX	Metzer & Supak, 1990
150	Holland 1379					Holland Cottonseed Co., Big Spring, TX	Metzer & Supak, 1990
151	Holland 4002					Holland Cottonseed Co., Big Spring, TX	Metzer & Supak, 1990
152	Hurd's 570					Hurd's Quality Seeds, Lubbock, TX	Metzer et al., 1984
153	Hurd's 580					Hurd's Quality Seeds, Lubbock, TX	Metzer et al., 1984
154	Hurd's 590					Hurd's Quality Seeds, Lubbock, TX	Metzer et al., 1984
155	Hurd's 700					Hurd's Quality Seeds, Lubbock, TX	Metzer et al., 1984

Table 1. Continued.

	Cultivar name	Experimental designation	PVP number	CS Reg.	Year	Originator or Owner	Reference for pedigree
156	Hurd 750					Hurd's Quality Seeds, Lubbock, TX	Metzer et al., 1984
157	Hurd 850					Hurd's Quality Seeds, Lubbock, TX	Metzer et al., 1984
158	Hurd 900					Hurd's Quality Seeds, Lubbock, TX	Metzer et al., 1984
159	KC 880		8700069			Northrup King, Hartsville, SC	D.L. Burns/PC
160	KC311		8800197			Northrup King, Hartsville, SC	D.L. Burns/PC
161	KS81M			CV-102	1989	National Fibre Research Center, Keyna	CS93:212
162	Kings Acala MS		8900026				PVP Exhibit A
163	LA 887	LA830887		CV-97	1990	LA AES	CS91:1701
164	Lambright 2020		8800085			J.H. Lambright, Slaton, TX	
165	Lambright GL-4		7200092			J.H. Lambright, Slaton, TX	Metzer et al., 1984
166	Lambright GL-5		750029			J.H. Lambright, Slaton, TX	Metzer et al., 1984
167	Lambright GL-F		7800029			J.H. Lambright, Slaton, TX	L.M. Verhalen/PC
168	Lambright GL-N		7500028			J.H. Lambright, Slaton, TX	Metzer et al., 1984
169	Lambright L-X-28		7200090			J.H. Lambright, Slaton, TX	Metzer et al., 1984
170	Lambright X-15-3-A		7200089			J.H. Lambright, Slaton, TX	Metzer et al., 1984
171	Lambright X-15-4		7200091			J.H. Lambright, Slaton, TX	Metzer et al., 1984
172	Lamesa 5					J.H. Lambright, Slaton, TX	Metzer et al., 1984
173	Lamesa 8					Dawson County Seed Co, Lamesa, TX	Metzer et al., 1984
174	Lankart 142					Dawson County Seed Co, Lamesa, TX	Metzer et al., 1984
175	Lankart 175		9000215		1987	Lankart Seed Farms, Waco, TX	R.H. Sheetz/PC
176	Lankart 311		8400153		1976	Lankart Seed Farms, Waco, TX	Metzer & Supak, 1990
177	Lankart 511		8700086		1986	Lankart Seed Farms, Waco, TX	Metzer & Supak, 1990
178	Lankart LX 571		8600086		1984	Lankart Seed Farms, Waco, TX	Metzer & Supak, 1990
179	Lankart PR 75		7200018			Lankart Seed Farms, Waco, TX	Metzer & Supak, 1990
180	Lockett 77		8000135		1980	Pioneer Hybrid Seed Co, Plainview, TX	Metzer & Supak, 1990
181	Lockett BXL		7500084		1975	Lockett Seed Co, Lockett, TX	Metzer et al., 1984
182	McDonald 3		7100026		1970	Lockett Seed Co, Lockett, TX	R.H. Sheetz/PC
183	McNair 210					Dawson Seed Co, Lamesa, TX	Metzer & Supak, 1990
184	McNair 220		7100090		1970	McNair Seed Co, Laurinburg, NC	D.L. Burns/PC
185	McNair 235		7600077		1976	McNair Seed Co, Laurinburg, NC	Metzer & Supak, 1990
186	McNair 511					McNair Seed Co, Laurinburg, NC	Metzer & Supak, 1990
187	McNair 612		7200095		1971	McNair Seed Co, Laurinburg, NC	D.L. Burns/PC
188	New Mexico Acala #20		7400023		1975	McNair Seed Co, Laurinburg, NC	D.L. Burns/PC
189	Northern Star 5		7605014			Private Grower	PVP Exhibit A
190	Northern Star 998					Northern Star Seed Farms, Lubbock, TX	Metzer et al., 1984
191	Northern Star R-4A					Northern Star Seed Farms, Lubbock, TX	Metzer et al., 1984
192	PD-1	PD4548		CV-85	1985	USDA-AARS & SC AES	CS25:198
193	PD-2	PD6520		CV-86	1985	USDA-AARS & SC AES	CS25:198-190
194	PD-3	PD6208	8800117	CV-92	1988	USDA-AARS & SC AES	CS28:190

Table 1. Continued.

	Cultivar name	Experimental designation	PVP number	CS Reg.	Year	Originator or Owner	Reference for pedigree
195	PR 80		8000136			Pioneer Hybrid Seed Co., Plainview, TX	Metzter & Supak, 1990
196	Paymaster 101-B		7200072			Cargill Seeds, Aiken, TX	R.H. Sheetz/PC
197	Paymaster 111-A		7200071			Cargill Seeds, Aiken, TX	R.H. Sheetz/PC
198	Paymaster 145				1976	Cargill Seeds, Aiken, TX	Metzter et al., 1984
199	Paymaster 147		8900289		1984	Cargill Seeds, Aiken, TX	Metzter & Supak, 1990
200	Paymaster 266		7600043		1971	Cargill Seeds, Aiken, TX	Metzter & Supak, 1990
201	Paymaster 303		7500060		1974	Cargill Seeds, Aiken, TX	Metzter & Supak, 1990
202	Paymaster 404		8000081		1979	Cargill Seeds, Aiken, TX	Metzter & Supak, 1990
203	Paymaster 505				1987	Cargill Seeds, Aiken, TX	Metzter & Supak, 1990
204	Paymaster 784		7700054		1975	Cargill Seeds, Aiken, TX	R.H. Sheetz/PC
205	Paymaster 785		7700076		1972	Cargill Seeds, Aiken, TX	R.H. Sheetz/PC
206	Paymaster 792		7700077		1973	Cargill Seeds, Aiken, TX	R.H. Sheetz/PC
207	Paymaster 892		8900270		1984	Cargill Seeds, Aiken, TX	R.H. Sheetz/PC
208	Paymaster Dwarf		7300013		1988	Cargill Seeds, Aiken, TX	R.H. Sheetz/PC
209	Paymaster HS 26		8600087		1983	Cargill Seeds, Aiken, TX	R.H. Sheetz/PC
210	Paymaster HS200		9000216		1986	Cargill Seeds, Aiken, TX	R.H. Sheetz/PC
211	Pioneer Brand PR 68		7800104		1978	Pioneer Hybrid Seed Co., Plainview, TX	R.H. Sheetz/PC
212	Prolific Stormproof					Von Roeder Seed Farms, Snyder, TX	Metzter et al., 1984
213	Quapaw	61-28 or 62-5 or 63-22	7200069			Rogers Cotton Seed Co., Waco, TX	Metzter et al., 1984
214	Quapaw D		8600085			Rogers Cotton Seed Co., Waco, TX	PVP Exhibit A
215	Ranger 55					Ranger Seed Co., Tahoka, TX	Metzter et al., 1984
216	Ranger 64-2					Ranger Seed Co., Tahoka, TX	Metzter & Supak, 1990
217	Ranger BB-53					Ranger Seed Co., Tahoka, TX	Metzter et al., 1984
218	Ranger RV-12					Ranger Seed Co., Tahoka, TX	Metzter et al., 1984
219	Ranger RV-64					Ranger Seed Co., Tahoka, TX	Metzter et al., 1984
220	Ranger TM-62					Ranger Seed Co., Tahoka, TX	Metzter et al., 1984
221	Rex 713		7700028			AR ABS	PVP Exhibit A
222	Rilcot 90					Rilcot Seed Co., Littlefield, TX	Metzter et al., 1984
223	Rilcot 90-A		7600042			Rilcot Seed Co., Littlefield, TX	Metzter & Supak, 1990
224	Rilcot 95					Rilcot Seed Co., Littlefield, TX	Metzter et al., 1984
225	Rilcot Balebuster-1					Rilcot Seed Co., Littlefield, TX	Metzter et al., 1984
226	Rilcot Drylander 289					Rilcot Seed Co., Littlefield, TX	Metzter et al., 1984
227	Rilcot RK-6					Rilcot Seed Co., Littlefield, TX	Metzter et al., 1984
228	Rilcot Stripper N		7100027			Rilcot Seed Co., Littlefield, TX	Metzter et al., 1984
229	Rogers 7590		8500213		1986	Rogers Cotton Seed Co., Waco, TX	Metzter et al., 1984
230	Rogers GL-6		7200059			Rogers Cotton Seed Co., Waco, TX	PVP Exhibit A
231	Rogers LG 86		8900125		1986	Rogers Cotton Seed Co., Waco, TX	PVP Exhibit A
232	Rogers LG-10		7900030			Rogers Cotton Seed Co., Waco, TX	PVP Exhibit A
233	Rogers LG-102		8100024			Rogers Cotton Seed Co., Waco, TX	Metzter et al., 1984

Table 1. Continued.

	Cultivar name	Experimental designation	PVP number	CS Reg.	Year	Originator or Owner	Reference for pedigree
234	S-55		8900207			Seed Source, Inc., Leland, MS	J.M. Green/PC
235	S-55		8900208			Seed Source, inc., Leland, MS	J.M. Green/PC
236	SC-1		PD9241	CV-72	1979	AR-SEA-USDA & SC AES	CS19:410
237	SV 13		8500056		1986	J&S Research Co., Tempe, AZ	PVP Exhibit A
238	SV 93		8500075		1985	J&S Research Co., Tempe, AZ	PVP Exhibit A
239	Salcot 10				1990	J&S Research Co., Tempe, AZ	AI Hoggard/PC
240	Si Samrong 60	AG 16		CV-95	1988	Field Crops Res. Inst., Thailand	CS29:236
241	Simwait 82		8400010		1982	OK AES	L.M. Verhalen/PC
242	Southland 400		9000154		1986	Southland Seed Co., Slaton, TX	PVP Exhibit A
243	Southland M1		8900078		1986	Southland Seed Co., Slaton, TX	PVP Exhibit A
244	Southwest 222					Technical Seed Proc., Brownfield, TX	Metzer & Supak, 1990
245	Southwest 227					Technical Seed Proc., Brownfield, TX	Metzer & Supak, 1990
246	Southwest 584					Technical Seed Proc., Brownfield, TX	Metzer & Supak, 1990
247	Stoneville 112		8500162		1985	Stoneville Pedigreed Seed Co., Leland, MS	L. McDonald/PC
248	Stoneville 132				1992	Stoneville Pedigreed Seed Co., Leland, MS	L. McDonald/PC
249	Stoneville 256		7500102		1977	Stoneville Ped. Seed Co., Leland, MS	L. McDonald/PC
250	Stoneville 302		8200051		1981	Stoneville Ped. Seed Co., Leland, MS	L. McDonald/PC
251	Stoneville 453		8800173		1988	Stoneville Ped. Seed Co., Leland, MS	D.M. Panter/PC
252	Stoneville 506		8100059		1982	Stoneville Ped. Seed Co., Leland, MS	D.M. Panter/PC
253	Stoneville 603		7300057		1975	Stoneville Ped. Seed Co., Leland, MS	D.M. Panter/PC
254	Stoneville 731N		7600048		1977	Stoneville Ped. Seed Co., Leland, MS	D.M. Panter/PC
255	Stoneville 825		7900024		1981	Stoneville Ped. Seed Co., Leland, MS	D.M. Panter/PC
256	Stoneville 907				1991	Stoneville Ped. Seed Co., Leland, MS	D.M. Panter/PC
257	Stoneville BR-110		8500081		1985	Ron Thorp, Stanfield, AZ	Metzer & Supak, 1990
258	Stoneville BR-115		8700136		1987	Ron Thorp, Stanfield, AZ	Metzer & Supak, 1990
259	Stripper 31A		7400088			Gro-Agri, Lubbock, TX	Metzer et al., 1984
260	Stroman 254					Gro-Agri Seed Co., Lubbock, TX	Metzer & Supak, 1990
261	Sure-Grow 1001		9000138			Sure-Grow, Leland, MS	R.R. Bridge/PC
262	TPSA 1633	65-PR-1633	7200081		1972	Texas Planting Seed Assn.	PVP Exhibit A
263	TSP 333-HS					Technical Seed Proc., Brownfield, TX	Metzer & Supak, 1990
264	Tamcot 788					TX AES	Metzer et al., 1984
265	Tamcot CAB-CS	TX-CABCS-181	8500066	CV-87	1985	TX AES	CS 26:384-385
266	Tamcot CAMD-E	203Q, BV-72 and H6-2-72	7800073	CV-74	1977	TX AES	CS19:411-412, TAES Bull. L-1790
267	Tamcot CD3H	TX-CPD37HH-1-83	8600164	CV-94	1986	TX AES	CS28:574-578
268	Tamcot GCNH	TX-GCANH-1-83	8700141		1988	TX AES	TAES BUL. L-2266
269	Tamcot HQ95	MAR-CABUCD3H-1-86	9000092	CV-96	1990	TX AES	CS30:1359-1360
270	Tamcot SP21		7200047	61	1971	TX AES	CS16:884
271	Tamcot SP21S	TX-CAMD-S	7800074	73	1977	TX AES	CS19:410
272	Tamcot SP23		7200045	82	1971	TX AES	CS16:884

Table 1. Continued.

	Cultivar name	Experimental designation	PVP number	CS Reg.	Year	Originator or Owner	Reference for pedigree
273	Tamcot SP37		7200046	CV-63	1971	TX AES	CS16:884
274	Tamcot SP37H	TX-CAMD-H	7800096	CV-75	1977	TX AES	CS19:412, TAES Bull. L-1672
275	Terra 207		8800133			Terra Int'l, Inc., Memphis, TN	F.M. Miller/PC
276	Terra C-30		8500155			Terra Int'l, Inc., Memphis, TN	Meizer & Supak, 1990
277	Terra C-40		8500154			Terra Int'l, Inc., Memphis, TN	Meizer & Supak, 1990
278	Terra SR-10		8500088			Terra Int'l, Inc., Memphis, TN	Meizer & Supak, 1990
279	Thorpe		7800092		1973	OK AES & USDA-ARS	L.M. Verhalen/PC
280	Tiftot 56		8700152			GA AES	S.H. Baker/PC
281	Westburn 70			CV-54	1971	OK AES & CRD-ARS-USDA	CS11:132
282	Westburn M		7700049		1976	OK AES & CRD-ARS-USDA	Meizer et al., 1984
283	Western 44					Von Roeder Seed Farms, Snyder, TX	Meizer et al., 1984
284	Wiltmaster 569					All-Tex Seed Co., Levelland, TX	Meizer et al., 1984
285	Wiltmaster 571					All-Tex Seed Co., Levelland, TX	Meizer et al., 1984
<b>Pima Cottons</b>							
1	Pima S-5	P-29		CV-60	1975	USDA-ARS & AZ, NM & TX AES	CS16:604
2	Pima S-6			CV-31	1984	USDA-ARS & AZ, NM & TX AES	CS24:382
3	Pima S-7	CV-101			1991	USDA-ARS & AZ AES	CS32:1291
4	CH252		9000211		> 1989	Chaney Ranch, CA	PVP EXIB. A
5	CH253		9000221		> 1989	Chaney Ranch, CA	PVP EXIB. A



Table 2. Continued.

	Cultivar Name	Pedigree	Notes on Pedigree
40	Cascot C-13	Sel. TX-Bonham	Bonham (Table 3)
41	Cascot L-7	Sel. TX-Lewis	Lewis (Table 3)
42	Coker 130	CKR 315/McNair 220	
43	Coker 139	DES 56/CKR 310	
44	Coker 208	CKR 8103/CKR 201	CKR 8103=Sib. CKR 310
45	Coker 304	Sel. CKR 310	Parents in Table 3
46	Coker 310	CKR 100 Staple/DP 15	
47	Coker 312	Sel. CKR 310	
48	Coker 315	CKR 310/CKR 8103	CKR 8103=Sib. CKR 310
49	Coker 320	CKR 315/McNair 220	
50	Coker 417	Sel. CKR 413	Coker 413 (Table 3)
51	Coker 420	CKR 810/CKR 413	Coker 413 (Table 3)
52	Coker 500	CKR 310/Tamcot 788A	Tamcot 788A (Table 3)
53	Coker 3131	CKR 310/ CKR 5114	L. McDonald/PC has, CKR 310/CKR 67-109
54	Coker 4101	Coker 100 Staple/DP 15	Parents in Table 3
55	Coker 4360	CKR 310/PM 111A	Bulk of 2 Strains
56	Coker 5110	CKR 100 Staple/DP 15 Parents in Table 3	
57	Coyote	Sel. Colored-Jint Cotton, USDA, Shafter	
58	Crooked Row-1	CA1073/CA491/AZ6024 Parents in Table 3	
59	DC 81	Sel. CA1073	CA1073 (Table 3)
60	DC 827	Sel. Delcot 277	
61	DC 886	Sel. CA491-714	CA491 (Table 3)
62	DES 24	STV603/Delcot 277	
63	DES 56	ST213/PD	
64	DES 119	DES 24/DES 2134-047	2164 Parents in Table 3
65	DES 422	DP 55/DES 2134-018	DES2134-047=Sib. DES 56
66	Dawson V-14	Sel. CA 614	DES 2134-018=Sib. DES 56
67	Delcot 277	Res/TJ/EF 310	CA614 (Table 3)
68	Delcot 277J	Sel. Delcot 277	Rex (Table 3); TJ/EF310 (Table 3); Diagram in Fig. 15
69	Delcot 311	Complex (Sel. Delcot 277, Auburn 56, MO-Del, 101-102B)	i.e. Sel. of S65-396, a component of Delcot 277
70	Delcot 344	CKR 310*4/MDR (i.e. Multiple Disease Resistant) Delcot Lines	Details not given
71	Delcot 390	MO63-277BR2A/HYC74-283/MO63-277BR2A	MDR=Complex (Delcot 277, MO-DEL, Aub.56, Oklahoma 20, 101-102B)
72	Deltapine 20	DP 16/DP Smoothleaf/DP 45/DES 56	Parents in Table 3
73	Deltapine 25	DP 45/STV 7A	DP 16, DP Smoothleaf, and DP 45 in Table 3
74	Deltapine 26	DP 45/STV 7A	Parents in Table 3
75	Deltapine 30	Sel. DP 66	Parents in Table 3
76	Deltapine 41	DP 55/STV 603	
77	Deltapine 50	DP 16/DP	Smoothleaf/DP 45/DES 56 DP 16, DP Smoothleaf, and DP 45 in Table 3
78	Deltapine 51	Sel. DP 50	
80	Deltapine 61 Sel. DP 16	1 of 4 Component lines in DP 16 (DP 16 in Table 3)	



Table 2. Continued.

Cultivar Name	Pedigree	Notes on Pedigree
79 Deltapine 56	DP 16/STV 7A	Parents in Table 3
80 Deltapine 61 Sel. DP 16	1 of 4 Component lines in DP 16 (DP 16 in Table 3)	
81 Deltapine 62	Sel. DP 61	
82 Deltapine 66	DP 16/DP 5540	Parents in Table 3
83 Deltapine 69	Sel. DP61?	
84 Deltapine 70	STV 7A/DP 66	STV 7A (Table 3)
85 Deltapine 77	DP 66/DP 120	
86 Deltapine 80	DP16/DP 5540/DP Smoothleaf	Parents in Table 3
87 Deltapine 120	DP 66/DP 55	
88 Deltapine 137	Not available	
89 Deltapine 826	Not available	
90 Deltapine 5415	DP 50/DP Acala 90	
91 Deltapine 5690	DP Acala 90/DP 80	
92 Deltapine Acala 90	DP 6516/DP 6582	6516=DP 16/John Cotton Poly Cross; 6582=DP 16/AZ 5909; Parents in Table 3
93 Deltapine NSL	DP 16 (Nectariless)	Nectariless trait backcrossed into DP 16
94 Deltapine SR-1	DP Smoothleaf/Rex//Lankart 57	Parents in Table 3
95 Deltapine SR-2	DP Smoothleaf/Rex//Gregg 35/Rex	Parents in Table 3
96 Deltapine SR-4	DP Smoothleaf/Rex//Gregg 35/Rex	Parents in Table 3
97 Deltapine SR-5	Acala 1517-BR2//DP Smoothleaf/Rex	Parents in Table 3
98 Deltapine SR-388	DP SR-5/ CA 1073	CA1073 (Table 3)
99 Deltapine SR-482	Sel. DP SR-4	
100 Deltapine SR-980	CA 788/DP SR-2	CA 788 (Table 3)
101 Dixie King III	Sel. Dixie King	
102 Dunn 109	Sel. of material from Lavon Ray (TAES, Lubbock)	No additional info. given
103 Dunn 118	Sel. Dunn 56C	Dunn 56C=ReX/CA 398; Parents in Table 3
104 Dunn 119	Sel. Dunn 56C	Dunn 56C=ReX/CA 398; Parents in Table 3
105 Dunn 120	Sel. Tamcot SP23	Meizer et al., 1984 has: Tamcot/Dunn 118
106 Dunn 219	Sel. Dunn 119	
107 Dunn 224	Sel. MO-Del line	Meizer et al., 1984 : "Composite of Delta and Stripper types"; MO-Del (Table 3)
108 Dunn 325	AZ 6401/DP 16	Parents in Table 3
109 Dunn 400	Acala line/PM 303	
110 Dunn 1002	Dunn 219/Dunn 224	
111 Dunn 1047	Tamcot SP-21/Dunn 219	
112 Dunn 1325	Dunn 825/Dunn 1850	
113 Dunn 1850	DP Acala 90/ PM 145	
114 Dunn HS 120	Dunn 219/Dunn 120	
115 Earlycot 31	Sel. CA491	Table 3
116 Earlycot 82A	Sel. Earlycot 82	Earlycot 82=ReX Smooth Leaf/NMB 3080/Stripper 31; Parents in Table 3
117 Earlycot 48	Earlycot 31/Bonham 73	Bonham (Table 3)
118 Earlycot WR	CA614/PM266	CA614 (Table 3)

Table 2. Continued.

Cultivar Name	Pedigree	Notes on Pedigree
119	G&P 74+	
120	G&P 1005	Table 3
121	G&P 3755	
122	G&P 3774	
123	G&P 5479	
124	GSA 71	See Fig. 17
125	GSA 74	HYC MDR-2 Incl.: Stripper 31, Aub. M. AXTE, Breeding lines
126	GSA 75	
127	GSA 78	CA 614 (Table 3)
128	GSC 20	Table 3
129	GSC 25	
130	GSC 27	
131	GSC 30	
132	GSC 71c	12644=Vert. wilt resistant line from Steve Wilhelm, Univ. So. CA
133	GSC 1093	12644=Vert. wilt resistant line from Steve Wilhelm, Univ. So. CA
134	GaCot 79	DP Smoothleaf (frego bract)=Frego bract strain of DP Smoothleaf
135	Georgia King	
136	Germain's Acala GC-352	
137	Germain's Acala GC-356	S6689=AXTE 1-57/Tex E364/C6TE/NMB3080 (Parents in Table 3)
138	Germain's Acala GC-362	T8687=C6TE/NMB3080 (Parents in Table 3)
139	Germain's Acala GC-363	Parents in Table 3
140	Germain's Acala GC-410	T4845=C6TE/NMB3080 (Parents in Table 3); S1603=Silb. Acala SJ-2
141	Germain's Acala GC-445	T4852/S1391
142	Germain's Acala GC-510	S2694/S3468
143	Germain's Acala GC-555	S2694=12302-4/Tanguis/Acala 4-42; S9468=C6-5/Del Cerro 503; See Table 3
144	Green	Sib of Acala SJC-1; Parents in Table 3
145	HS 23	T8687=C6TE/NMB3080; Parents in Table 3
146	HS 46	
147	Hancock	
148	Highland 34	AZ 7209 (Table 3)
149	Highland 52	M8 (Table 3); Empire Wilt=Empire WR? (Table 3)
150	Holland 1379	Stripper 31 (Table 3)
151	Holland 4002	Rex Smoothleaf 66=Sel. Rex Smoothleaf (Table 3)
152	Hurd 570 Sel. CA614	Bonham (Table 3)
153	Hurd 580	Holland 5677=Sel. Bonham (Table 3)
154	Hurd 590	Table 3
155	Hurd 700	No additional info. given
156	Hurd 750	PM101-A=Sel. PM 101 (Fig. 9)
157	Hurd 850	CA614 (Table 3)
158	Hurd 900	Acala 3080=NMB 3080? (Table 3); no additional info. given Lankart 611 (Table 3); no additional info. given

Table 2. Continued.

Cultivar Name	Pedigree	Notes on Pedigree
159 KC 980	McNair 220/McNair 3150	McNair 3150 (Table 3)
160 KC311	DP Acala 90/McNair 235	Metzer & Supak, 1990 has: McNair 3151/DP90
161 KSA81M	Sel. UKA59/240	Parents from Tanzania
162 Kings Acala MS	T6310/T6133/Pima S-4/3/DP61	T6310=Tex E364/SJ-2; T6133=C6TE/NMB8080; Pima S-4 (Table 3)
163 LA 887	DES 119/LA 494-RKR	LA494-RKR=DP 15/Clewevilt-6/DP 16; LA 434 in CS18:199; Parents in Table 3
164 Lambright 2020	No information available at this printing	
165 Lambright GL-4	Lambright X-15-4/CA 852	CA852 (Table 3)
166 Lambright GL-5	Lambright X-15-4/CA 852	CA852 (Table 3)
167 Lambright GL-F Sel.	Lambright GL-N	
168 Lambright GL-N	Lambright GL-5/CA1786	CA1786 (Table 3)
169 Lambright L-X-28	Sel. Lambright X-15-3	
170 Lambright X-15-3-A	Lambright 123 BR-1/Del Cerro	No info. available on Lambright 123BR-1 at this printing; Del Cerro (Table 3)
171 Lambright X-15-4	Lambright 123 BR-1/Del Cerro	No info. available on Lambright 123BR-1 at this printing; Del Cerro (Table 3)
172 Lamesa 5	Blightmaster A-5/Lankart 3940	No info. available on Lankart 3940 at this printing
173 Lamesa 8	Blightmaster A-5/Lankart 3840	Lankart 3840 (Table 3)
174 Lankart 142	Westburn ML Lockett 77	
175 Lankart 175	Sel. Lines Related to Lankart LX571	No additional info. given
176 Lankart 311	Lankart 175/Lankart 3840	Lankart 3840 (Table 3)
177 Lankart 511	Lockett 4789/3/Lockett 4789-A//SP52-67/79N.BV65	Parents in Table 3
178 Lankart LX 571	Lankart 57/Lankart 3840	Parents in Table 3
179 Lankart PR 75	Lockett 4789-A/SP11-67/79N.BV65/HL-67	No information on on HL-67 at this printing; Other parents in Table 3
180 Lockett 77	Lockett 4789-A/SP12-67/7/Lockett 4789A/CA563	Lockett 4789, SP 12, and CA563 (Table 3)
181 Lockett HXL	Lockett 4789 (31)/SP19//SP20	Parents in Table 3
182 McDonald 3	Sel. Lamesa 8	
183 McNair 210	Rex/Atlas 182	Parents in Table 3
184 McNair 220	CKR 201/PD2165	Parents in Table 3
185 McNair 235	CKR 201/PD2165	Parents in Table 3
186 McNair 511	Sel. McNair 1082	McNair 1082 (Table 3)
187 McNair 612	McNair 1032/CKR 201-16-B	McNair 1032 and Coker 201 (Table 3)
188 New Mexico Acala #20	Sel. Watson's Acala via NM 1-19 via 1450 via 707	1450 (Fig. 10)
189 Northern Star 5	Stormproof/Northern Star 11/Stormmaster	Stormmaster (Table 3); Northern Star=Sel. Lankart (Ramey, 1966)
190 Northern Star 998	Selection in commercial field near Littlefield, TX	No additional info. given
191 Northern Star R-4A	Sib. Stripper 31	Table 3
192 PD-1	PD4381/PD8623	Parents in Table 3
193 PD-2	FTA 266/Atlas/AC335/Dixie King	FTA, Atlas, AC, Dixie King (Table 3)
194 PD-3	PD9363/PD9240	Parents in Table 3
195 PR 80	Tamcot SP-23/520, BV65	520, BV65 (Table 3)
196 Paymaster 101-B	Sel. PM 101	PM 101 (Table 3)
197 Paymaster 111-A	Sel. PM 111	PM 111 (Table 3)
198 Paymaster 145	Sel. Tamcot SP-21	

Table 2. Continued.

Cultivar Name	Pedigree	Notes on Pedigree
199 Paymaster 147	347-355/PM 404	347-355=PM 111A,B4/A6-634 (from R.H. Sheetz, PC)
200 Paymaster 266	AZ 6024-11-1-2/DP55-40/PM 101A/TAES B4	AZ 6024, PM 101, and DP5540 (Table 3); TAES B4=B4LJK (Table 3)
201 Paymaster 303	PM 18/PM 111	Parents in Table 3
202 Paymaster 404	Sel. PM 303	
203 Paymaster 505	PM18/PM111	Parents in Table 3
204 Paymaster 784	PM 202/5/Brightmaster/Empire KK/9/Shafter 011/4/PM 202/Empire GL	Brightmaster, Empire, PM 202, and Shafter 011 (Table 3)
205 Paymaster 785	Sel. PM 909	Possible outcross; PM 909 (Table 3)
206 Paymaster 792	PM Dwarf/Tenn. 59-538	No additional info. available
207 Paymaster 892	PM266/New Mexico Acala/Westerburn M/PM303	Order of crosses assumed
208 Paymaster Dwarf	PM 105/146-21VF62	PM105 (Table 3); no additional info. available
209 Paymaster HS 26	Acala SJ-4/5B9-184	5B9-184=Sel. PM266
210 Paymaster HS200	107X329 123171-74/160X145 145521	107X...=Tarnot 788/NMB4364; 160X...=NMB3080/B6-1380; most in Table 3
211 Pioneer Brand PR 68	Lockett 4789/SP-52-67//Lockett 4789-A/79N, BV65	Parents in Table 3
212 Prolific Stormproof	Western Stormproof/Acala 1517BR2	Parents in Table 3
213 Quapaw	Complex cross of; Nucala, AHA, Rowden, Hopi, Stormproof, Empire WR...	Metzer et al., 1984 has: "Pedigree similar to Stripper 31"; See Fig. 17
214 Quapaw D	Sel. Quapaw	
215 Ranger 55	Sel. Little's Special	Little's Special=Sel. Macha; Macha (Fig. 9)
216 Ranger 64-2	Sel. Ranger RV-64	
217 Ranger BB-53	Stripper 31/PM111A	Stripper 31 (Table 3)
218 Ranger RV-12	Sel. CA1072	CA1072 (Table 3)
219 Ranger RV-64	Sel. CA614	CA614 (Table 3)
220 Ranger TM-62	Lewis/Tarnot CAMD-E	
221 Rex 713	Sel. Rex Smoothleaf-66	Rex Smoothleaf-66=Sel. Rex Smoothleaf (Table 3)
222 Rilcot 90	Sel. Macha	Macha (Fig. 9)
223 Rilcot 90-A	Sel. Rilcot 90	
224 Rilcot 95	'Selection in the Rilcot breeding program'	No additional info. given
225 Rilcot Balebuster-1	CA491/Rilcot Stripper N	CA491 (Table 3)
226 Rilcot Drylander 289	'Selection in the Rilcot breeding program'	No additional info. given
227 Rilcot RK-6	CA1786/Rilcot breeding material	CA1786 (Table 3)
228 Rilcot Stripper N	Sel. CA 398	CA398 (Table 3)
229 Rogers 7590	Quapaw/Lyman G11/2*RDC 10N	RDC 10N=Sel. Rogers LG 10; Lyman G11=TAES glandless line
230 Rogers GL-6	W6/4*M8/DeI Cerro/3/W6/4-M8948/Lankart 57	W6=Watson Stormproof B-29; Other parents in Table 3
231 Rogers LG 86	EC 8/Rogers LG-102	EC 8=Line from E. Cook of Lubbock Christian College, Lubbock, TX
232 Rogers LG-10	TX AES Lines/Glandless From Ferris Watson Seed Co.	No additional info. at this printing
233 Rogers LG-102	Rogers LG-10/Glandless, Nectarless From TX AES	No additional info. at this printing
234 S-35	Sel. McNair 235	
235 S-55	Sel. MD82ne	MD82ne (Table 3)
236 SC-1	CKR 421/PD498	Parents in Table 3
237 SV 13	Sel. DP 16	DP 16 (Table 3)
238 SV 93	Sel. DP 16	DP 16 (Table 3)

Table 2. Continued.

	Cultivar Name	Pedigree	Notes on Pedigree
239	Salcot 10	DES 422/DP Acala 90	
240	Si Samrong 60	ACQ 1217-3-2/SI Samrong 2	ACQ... = A 200/Carolina Queen; SI Samrong 2 = Complex interspecific
241	Simwait 82	Tamcot 24/3306	Tamcot 24 (Table 3), 3306 = Im2/OK 13-2; Im2 (Table 3)
242	Southland 400	DP 6434-58-61/PM 266-B9-24-2	DP6434 (Table 3)
243	Southland M1	DP 6434-58-61/PM 266-B9-24-2	DP6434 (Table 3)
244	Southwest 222	TAES MAR strain/Auburn M	Auburn M (Table 3); no additional info. available
245	Southwest 227	Sel. Southwest 2	Southwest 2 = crosses between MAR and nematode resistant strains
246	Southwest 584	Sel. TAES, Lubbock breeding line	No additional info. available
247	Stoneville 112	Sel. STV 213	STV 213 (Table 3)
248	Stoneville 132	DES 56/Tamcot SP37	
249	Stoneville 256	Sel. STV 7	STV 7 (Table 3)
250	Stoneville 302	PM 266-69/STV 213	STV 213 (Table 3)
251	Stoneville 453	STV 603/STV 213	STV 213 (Table 3)
252	Stoneville 506	STV 7/STV X1834	STV 7 (Table 3); No info. available on STV X1834
253	Stoneville 603	STV 7/AUB 257-202	STV 7 (Table 3); No info. available on AUB 257-202
254	Stoneville 731N	STV 7A/Meyer 76-4	STV 7A (Table 3); Meyer 76-8 = BC2 STV 7A to nectariless source
255	Stoneville 825	Sel. STV 731N	
256	Stoneville 907	DES 06-20-24/STV 1877N or DES 24/STV825	DES 06-20-24 = DES24; STV 1877N = STV825
257	Stoneville BR-110	DP Acala 90/DP 120	
258	Stoneville BR-115	DP Acala 90/DP 70	
259	Stripper 31A	Complex cross of Roldo Rowden #5 & #27, Empire WR, BBR 4-1-36 B2	Presumed pedigree in Fig. 17
260	Stroman 254	Formerly, "GSA-254"; "Sel. out of Acala-type cotton"	No additional info. available
261	Sure-Grow 1001	McNair 235/DP Acala 90	No additional info. available
262	TPSA 1633	Sel. breeding line 62-0-10	No additional info. given
263	TSP 333-HS	... selection process from hybrid germplasm"	No additional info. available
264	Tamcot 788	CA398/P1874	Parents in Table 3
265	Tamcot CAB-CS	CAMD-21-S-78/BCUS-3-76	Parents in Table 3
266	Tamcot CAMD-E	MDR-SP7-67/17M2/SP46-67/17M2	Parents strains of Tamcot SP21 and SP37, all with pedigree = 92K/62K (Table 3)
267	Tamcot CD3H	Tamcot SP37H/CDPS-1-77	CDPS-1-77 (Table 3)
268	Tamcot GONH	CAMD-21S-5-80/GN-8-76	Parents in Table 3
269	Tamcot HQ95	Tamcot CD3H/MAR-CABUCS-2-1-83	MAR-CABUCS-2-1-83 = Sib. Tamcot CAB-CS
270	Tamcot SP21	K4808-5 (1&2)D/Blightmaster/39-11-20/3/K4808-5 (1&2)D/PayM54-M-105-3	Parents in Table 3; Bulk of similar strains
271	Tamcot SP21S	SP21F/SP33F/SP21V/SP37V	Parents are strains of Tamcot SP21 & SP37; Composite of H4-14-71 & H4-18-72
272	Tamcot SP23	K4808-5 (1&2)D/Blightmaster/39-11-20/3/K4808-5 (1&2)D/PayM54-M-105-3	Parents in Table 3; Bulk of similar strains
273	Tamcot SP37	K4808-5 (1&2)D/Blightmaster/39-11-20/3/K4808-5 (1&2)D/PayM54-M-105-3	Parents in Table 3; Bulk of similar strains
274	Tamcot SP37H	66N, BV65/520, BV65	Parents in Table 3; Composite of strains, H2-45-74, H2-46-74, and H2-47-74
275	Terra 207	DES24/DES56	
276	Terra C-30	6942-051/DES 56	6942-051 = DP 16 Background; See DP 50
277	Terra C-40	6942-051/DES 56	6942-051 = DP 16 Background; See DP 50
278	Terra SR-10	DP 6434/CA 1073	Parents in Table 3

Table 2. Continued.

	Cultivar Name	Pedigree	Notes on Pedigree
279	Thorpe	Lankart 611/Fox 42-5//Fox 42-5	Lankart 611, Fox 42 in Table 3
280	Tifcot 56	PD4381/CKR 310	PD4381 (Table 3)
281	Westburn 70	Sel. Westburn	Westburn (Table 3)
282	Westburn M	(Im2/22-3)F3 4-1//Westburn BC4	Im2, Westburn (Table 3), 4-1-STV 20/Acala 5675
283	Western 44	Acala 44/Western Stormproof	Parents in Table 3
284	Wiltmaster 569	CA1056-69-10//AZ6024/DP5540	Parents in Table 3
285	Wiltmaster 571	CA809/AZ6024	Parents in Table 3
	<b>Pima Cottons</b>		
1	Pima S-5	Pima 3-79/Pima S-1//Pima S-1/3/Pima S-4	Parents in Table 3
2	Pima S-6	5934-23-2-6/5903-98-4-4	
3	Pima S-7	6614-91-93/6907-513-509-501	6614=Sib. Pima S-6; 6907=P28/Pima S-4
4	CH252	Sel. P79-103	P79-103=6503/6612
5	CH253	Sel. Pima S-6	

Table 3. Pedigrees of breeding lines and obsolete cultivars included in pedigrees of cotton cultivars released between 1970 and 1990.

Strain/cultivar name	Pedigree	Pedigree Notes	Source
12302	AXTE-1/NM2302		Turner, 1974
250	Sel. 8373	Also Fig. 16	Staten, 1971
349-25	K3131/Unidentified John Cotton w/it 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
AHA 6-1	HA76(sel. no. 5-12 of Acala 1517)	Also Fig. 10	Staten, 1971
AXTE-1	Acala 51//TH 458/2*Early Fluff	Fig. 16	T. Kerr, Unpublished
AZ5909	AXTE/ 8 to 10 Acala lines		W. Fisher/PC
AZ6010	Incl.: Acala, Triple Hybrid, Early Fluff, and Lankart 57	Probably AXTE/Lankart 57	AZ AES release memo
AZ6024	349-25(AHA/4350-26/349W/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
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 6088 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 2503/Coquett//Acala 840		CS92:831
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	Samtan 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 #6	Fig. 10	Ramey, 1966
Acala 840	Unknown		Not in Staten, 1971
Acala 8874	Acala 1517V/Acala 2187	Acala 1517V (Table 2)	CS92:831
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
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/Emprie	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
Auburn M	Sel. Auburn 56	Fig. 6	Ramey, 1966
B1413	250/49W//250/9136		Staten, 1971

Table 3. Continued.

Strain/cultivar name	Pedigree	Pedigree Notes	Source
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)	Metzer & Supak, 1990
C108	Wilt resistant Acala line from TX AES, El Paso		W. Fisher/PC
C6-5 (AKA C6)	Q6-2 Acala/Hopi Mencion/?*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		Metzer 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
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
CA563	Lankart 611W/CA398-56-4		D.F. Owen/PC
CA614	CA488/CA398-56-4		D.F. Owen/PC
CA659	CA291A/CA550		D.F. Owen/PC
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	C998/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	Nectariless/3 (or 4)*CA291A		D.F. Owen/PC
CA961	CA491/Del Cerro		D.F. Owen/PC
Cleworth	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 Cleworth)	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	No information at this printing		
Coker Wilds	Deitytype 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



Table 3. Continued.

Strain/cultivar name	Pedigree	Pedigree Notes	Source
Coquette	LA AES strain of unknown parentage		CS18:163-164
Del Cerro	Sealand/Mesilla Valley Acala (MVA/MVA/Triple Hybrid (TH)/3MVA/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
Dixie King	Coker 100W/Empire WR/Bobshaw 1; Bobshaw 1=Sel. STV 5A	Fig. 5	Ramey, 1966
E364 (see Tex E364)	Earliestable Tidewater Acala/Coker Wilds		Culp & Harrell, 1974
Early Fluff	Station C/Empire; Station C=Sel. Clewewilt		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		Ramey, 1966
Gregg	Sel. Macha	Fig. 9	K.R. Jones/PC
HA 76	Hopi Moencopi/Acala Q 6-2; =Hopi Acala 76	Fig. 7	Ramey, 1966
HYC74-283	Mass Cross w: (Half & Half, Quapaw, Stripper 31, PM 18, MO69-1021) / (71CX-15, 71C-18)	No additional info. given	CS21:991-992
HYC76-59	Sel. HYC74-283		CS21:991-992
Hartsville	Indirect Sel. Wyche	Fig. 2	Ramey, 1966
Hopicala	Sel. no. 4447 from AHA 6-1-5	Also Fig. 10	Staten, 1971
Im2	Not available at this printing		
John Cotton Polycross	Intercross: Acalas(Hopicala, 7378, 8229, 2302), Aub 56, STV213, DP Smoothleaf, PM111		Meredith, 1991
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	Not available at this printing		
Lockett 4789	Lone Star/ Lockett 88A	Fig. 9	Ramey, 1966
Labbock 4	Not available at this printing		
M8	Doubled haploid of DP 14		
M8948	Original designation of M8		W.M. Meredith/PC
MD 82 ne	DES24/DES24-8ne/DES24; DES24-8ne=DP16 nectariless on DES24 background	DES 24 in Table 2	W.M. Meredith/PC
MO-Del	TH108/AHA 6-1-4/Cook/Empire/3/Tangus/4/Pandora/Early Fluff/5/Early Fluff 310/6/Aub. 56	Fig. 15	Kerr, Unpublished
MO65-277	Exp. designation of Delcot 277 (see Table 2)	Also Fig. 15	CS12:126-127
MO65-277BR2A	Crosses among: Delcot 277, MoDel, Auburn 56	No additional info. given	CS25:198
McNair 1032	Sel. Auburn 56	Fig. 6	Ramey, 1966
McNair 3150	McNair7125/CKR 310		L. Roberts/PC
McNair 7125	Atlas 92/Rex		L. Roberts/PC

Table 3. Continued.

Strain/cultivar name	Pedigree	Pedigree Notes	Source
Mesilla Valley Acala	Sel. Watson' Acala via 707 via 1450 via Mesa Acala		Staten, 1971
Missadel	Sel. Foster	Fig. 7	Ramey, 1966
NM2802	Exp. designation of Acala 1517D (see Fig. 10)		Turner, 1974
NM49-2	Sel. Acala 49		Assumed
NM7408	No information available at this printing		Not in Staten, 1971
NMB3080	Acala 49W/9136		Staten, 1971
NMB4364	Exp. designation of Acala 1517-70 (see Table 2)		CS18:164
NMB7378	Acala 2509/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, 1954
Paymaster 101	PM 54/9-1; 9-1 = Stoneville 20/Acala 5675/Stormmaster	Fig. 9	Ramey, 1966
Paymaster 105	PM54/Macha/2*PM54	Parents in Fig. 9	Niles/PC
Paymaster 111	PM 101/Lankart 611	Fig. 9	Ramey, 1966
Paymaster 18	Rowden/Empire/Empire/3/Oklahoma 4-1-3-6B2	Okl... = Sel. Acala ? (Ware, 1950)	R.H. Sheetz/PC
Paymaster 202	Sel. PM101	Fig. 9	Ramey, 1966
Paymaster 54	Sel. Kekchi	Fig. 9	Ramey, 1966
Paymaster 909	PM 101/CA 2; CA 2 = Acala/Hopi		Bowman/PC
ROXE	Unidentified John Cotton line		W. Fisher/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
S1603	AXTE-1/NM 2302	Sib. Acala SJ2 (Table 2)	S.R. Oakley/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
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	Fig. 4	Ramey, 1966
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	Fig. 4	Ramey, 1966
Stormmaster	Macha/Acala 111	Fig. 9; Same pedigree as CA122	Ramey, 1966
Stripper 31	SP81-66-2373; no additional info. available at this printing	Probable pedigree in Fig. 17	R.H. Sheetz/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
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	CS12:126
Tanguis	Will tolerant G. barbadesense from Peru		Turner, 1974
Tex E364	Strain from Escalera Station, El Paso, TX, Unknown pedigree		D.F. Owen/PC
Tidewater Acala			
Westburn	Auburn 56/Western Stormproof	Parents in Fig. 6 and 9	CS 9:522

Table 3. Continued.

Strain/cultivar name	Pedigree	Pedigree Notes	Source
Western Stormproof	Western Prolific-2/Macha	Fig. 9	Ramey, 1966
Wilds	See Coker Wilds, this table		
<b>Multiple Adversity Resistance (MAR) germplasm from Texas AES, College Station</b>			
101-102B	Sel. SP52-67		
39-11-20	Glandless genetic stock from Scott Mc Michael, Cotton Res. Ctr., Shafter, CA		Thaxton/PC
52c, BV.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	CS16:884
61K	K4805-5 (1&2)D//CA291A/39-11-20	CA291A=Blightmaster	TAES Bul. L-1672
62K	K4805-5 (1&2)D//CA291A/39-11-20	CA291A=Blightmaster	Thaxton/PC
66N, BV.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	Thaxton/PC
79N, BV.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
92K	K4805-5 (1&2)A/PayM54-105-3	Component line of SP21 or SP37	Thaxton/PC
93K	K4805-5 (1&2)A/PayM54-105-3		Thaxton/PC
B4LK	Lankart 57 background with B4 gene for bacterial blight resistance		Thaxton/PC
BCUS-8-76	H4-10-71 (from intercross of Tamcot SP21, SP23, and SP37)/Blank-1-73	Synonymous w/ B4 or TAES B4	TAES Bul. L-2240
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-2188
CAMD S75C	Same as Tamcot SP21S (Table 2)		TAES Bul. L-2188
CAMD-21-S-78	21-18-71 (strain of Tamcot SP21)/H4-14-71 (strain of Tamcot SP21S)		Thaxton/PC
CAMD-21S-5	21-18 (strain of Tamcot SP21)/H4-14-71 (strain of Tamcot SP21S)		TAES Bul. L-2188
CDPS-1-77	H4-14-71 (strain of Tamcot SP21S)/DPxP-4BR		TAES Bul. L2266
DPxP-4BR	B4LK/SPH1-4BR		TAES Bul. L-2240
GN-8	GN-1 (glandless, nectariless genetic stock)/H3-6 (strain of Tamcot SP23)		TAES Bul. L-2240
H4-14-71	One of two component lines of Tamcot SP21S		TAES Bul. L2266
K4805-5 (1&2)A	Empire WR w/ bacterial blight genes B2B3 from Knight BAR (G. barbadosense)		TAES Bul. L-2240
ORHU-1-78	ORS-59/Blank-1-73; ORS-59-MDR 17M2-1 (a strain of SP21)/ORLG (an okra-hego stock)		CS16:884
PayM54-M-105-3	Paymaster 54 breeding stock, obtained in 1956	Paymaster 54 (Fig. 9)	Thaxton/PC
SP 11-67	92K/61K; a strain of Tamcot SP23 (Table 2)		CS16:884
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		Thaxton/PC
SP 52-67	92K/61K; a strain of Tamcot SP23 (Table 2)	Sib. Tamcot 788	L.M. Verhalen/PC
SPH1-4	Tri-species hybrid		Thaxton/PC
Tamcot 788A	CA398/P1874		Thaxton/PC
<b>Germplasm from the Pee Dee Research Station, Florence, SC</b>			
A (followed by number)	TH 171/Sealand 7//Earlistaple		
AC	C6-5/3/TH 171/Sealand 7//Earlistaple	Fig. 11	Culp & Harrell, 1974
F	Sealand 542//TH 108/AHA 6-1-4/3//Earlistaple	Fig. 11	Culp & Harrell, 1974
FJA	FJ//A	Fig. 11	Culp & Harrell, 1974

Table 3. Continued.

Strain/cultivar name	Pedigree	Pedigree Notes	Source
FTA	FT/A	Fig. 11	Culp & Harrell, 1974
J	TH 108/AHA 6-1-4//Earlistaple	Fig. 11	Culp & Harrell, 1974
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
PD8623	AC/Dixie King//CKR 421	Fig. 11	Culp & Harrell, 1974
PD8240	CKR 421/PD4398	Sib. SC-1 (Table 2)	CS25:201
PD9249	Sel. FJA		L. May/PC
PD9863	Carolina Queen/PD9249//PD2183//PD2164		CS19:751
T (PD line)	TH 108/AHA 6-1-4//Earlistaple	Fig. 11	Culp & Harrell, 1974
<b>Pima germplasm</b>			
5903-98-4-4	Unknown at this printing		
5934-23-2-6	Unknown at this printing		
Ashmouni	Sea Island/Jumel; Jumel—a G. barbadense tree cotton in Egypt		Niles & Feaster, 1984
P28	Unknown at this printing		
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 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	SI 10-8=Sel. Pima S-1?	CS16:604

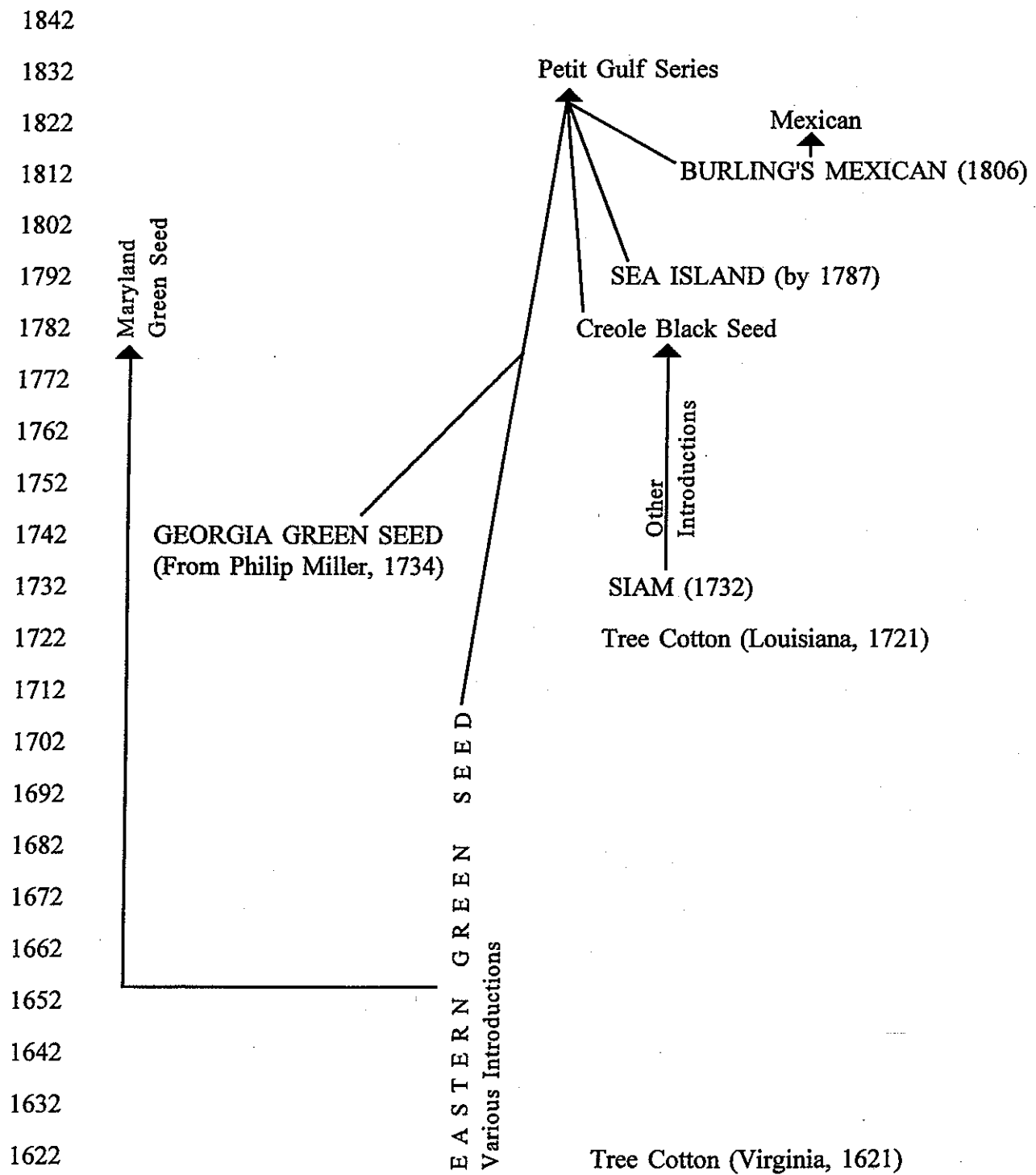


Figure 1. Primary sources of germplasm for American Upland cottons. Uppercase letters indicate introductions or original sources of germplasm. (Figure redrawn from Ramey, 1966.)



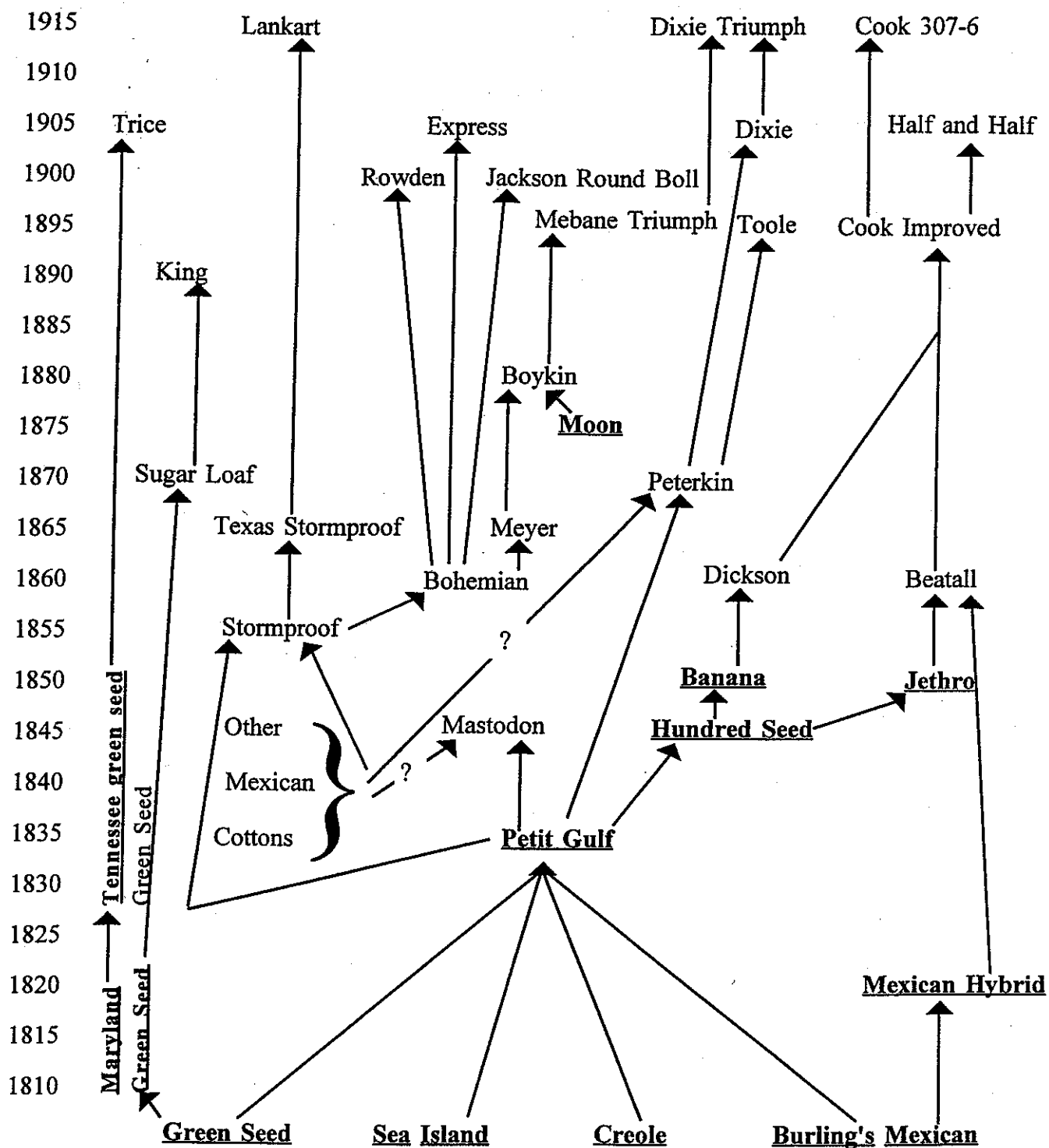


Figure 3. Development of Western Big Boll, Early, and Wilt Resistant cottons. Underline and boldface type indicate germplasm sources that appear in previous figure(s). Question mark (?) indicates possible outcross parent. (Figure redrawn from Ramey, 1966.)

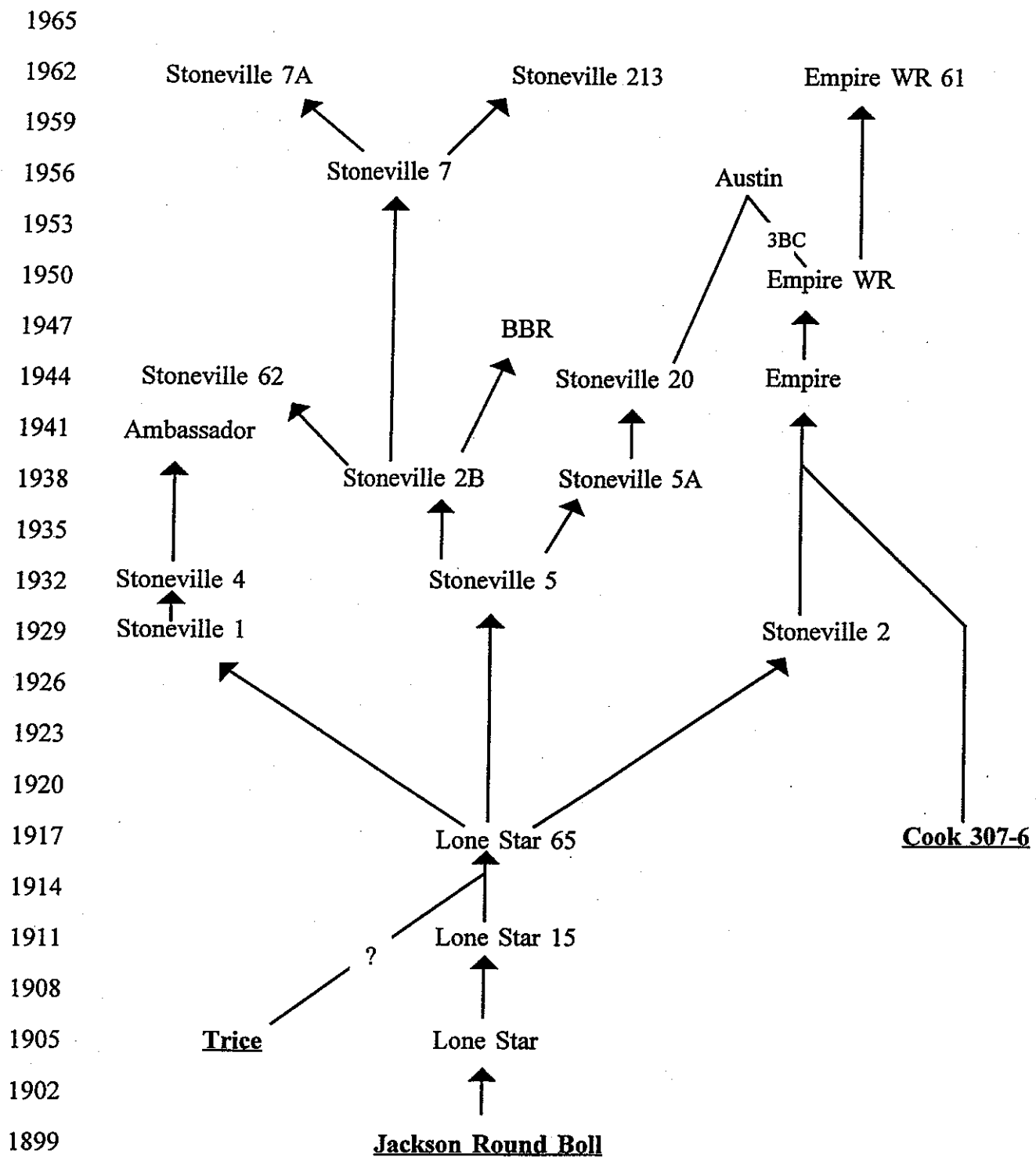


Figure 4. Development of Stoneville, Empire and Austin Cottons. Underline and boldface type indicate germplasm sources that appear in previous figure(s). Question mark (?) indicates possible outcross parent. (Figure redrawn from Ramey, 1966.)





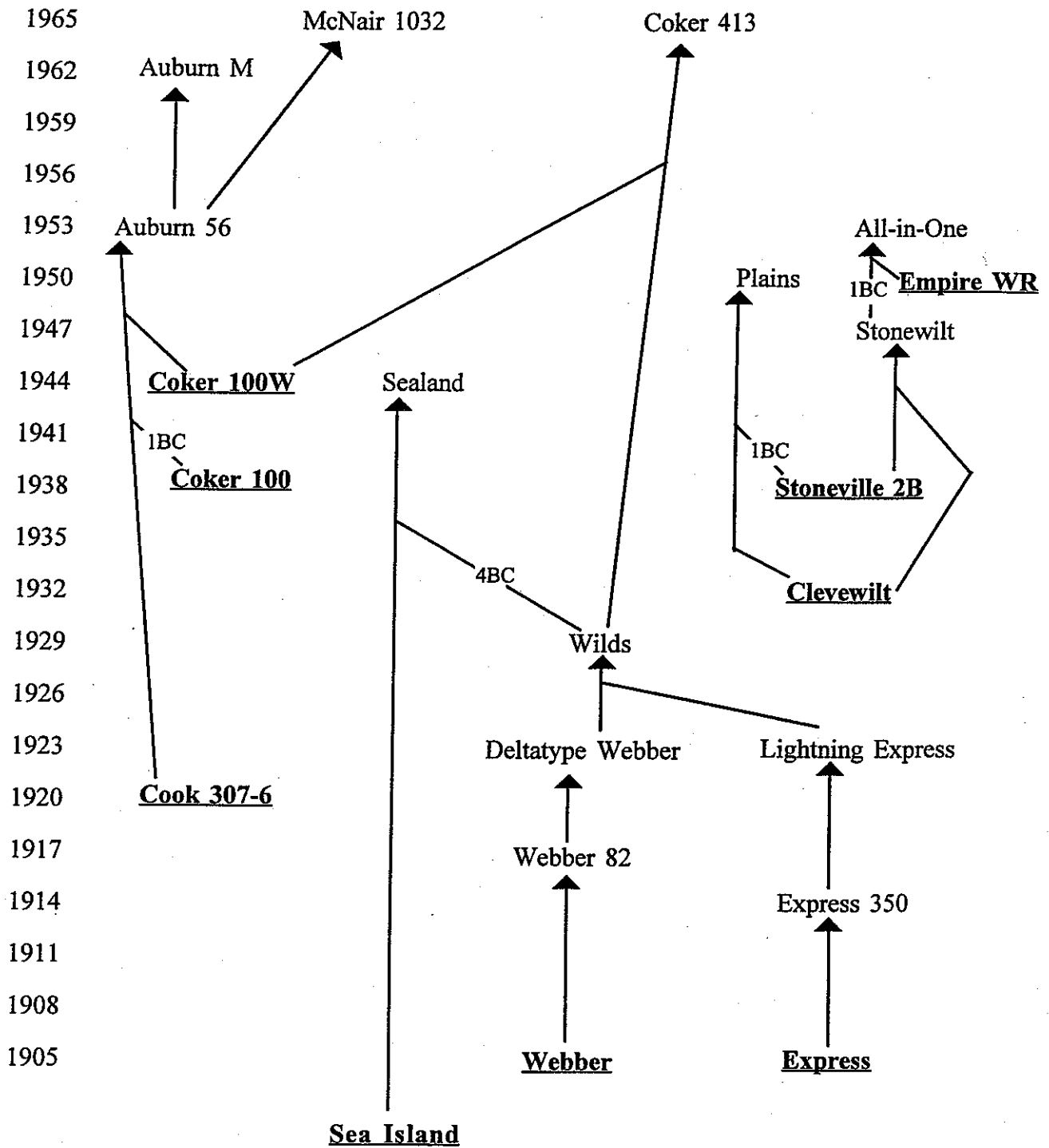


Figure 6. Development of Auburn 56 and Plains cottons. Underline and boldface type indicate germplasm sources that appear in previous figure(s). Question mark (?) indicates possible outcross parent. (Figure redrawn from Ramey, 1966.)

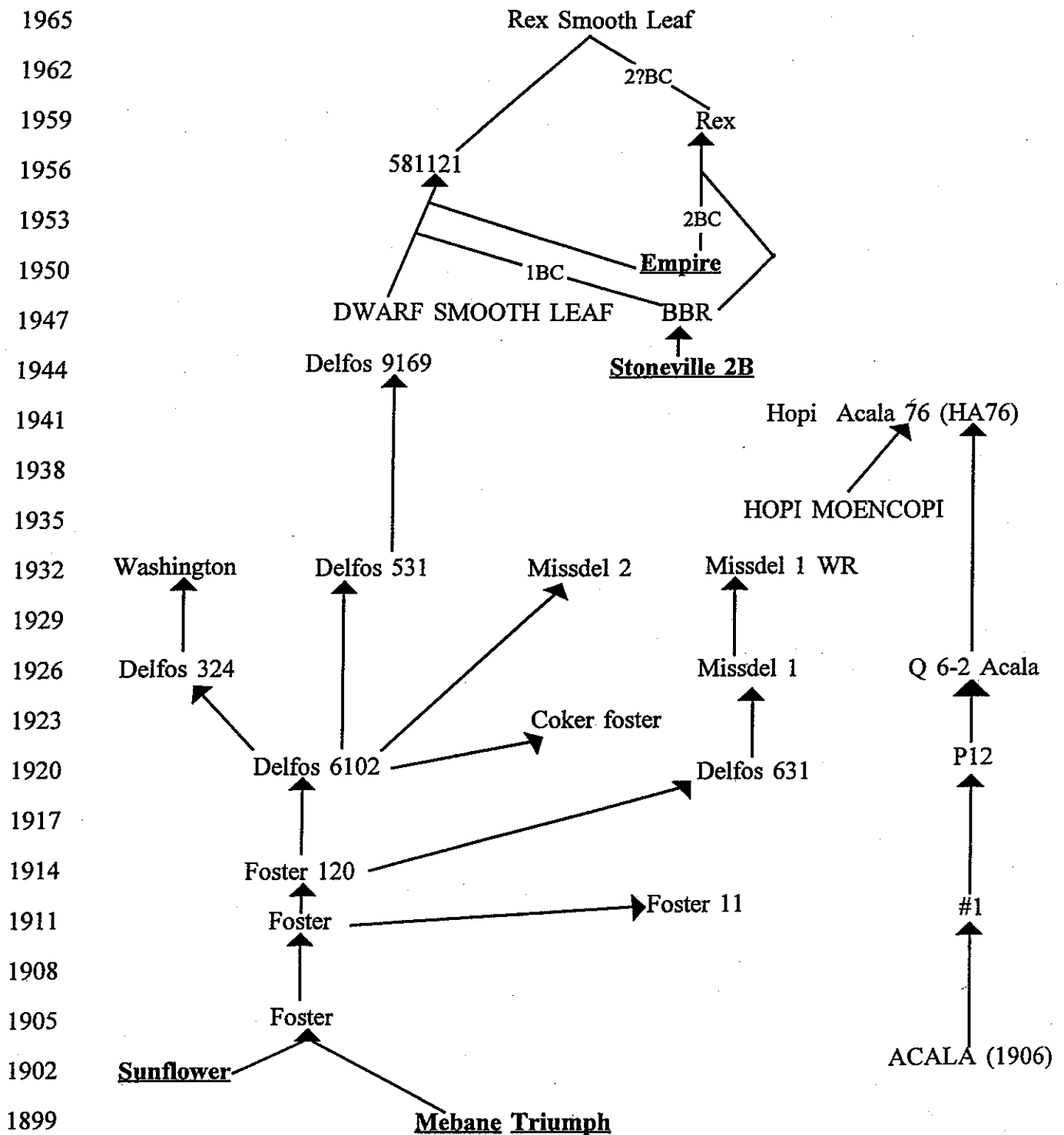


Figure 7. Development of Rex, Delfos, and Hopi Acala 76 cottons. All uppercase letters indicate original or new sources of germplasm. Underline and boldface type indicate germplasm sources that appear in previous figure(s). "BC" indicates number of backcrosses to recurrent parent. (Figure redrawn from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

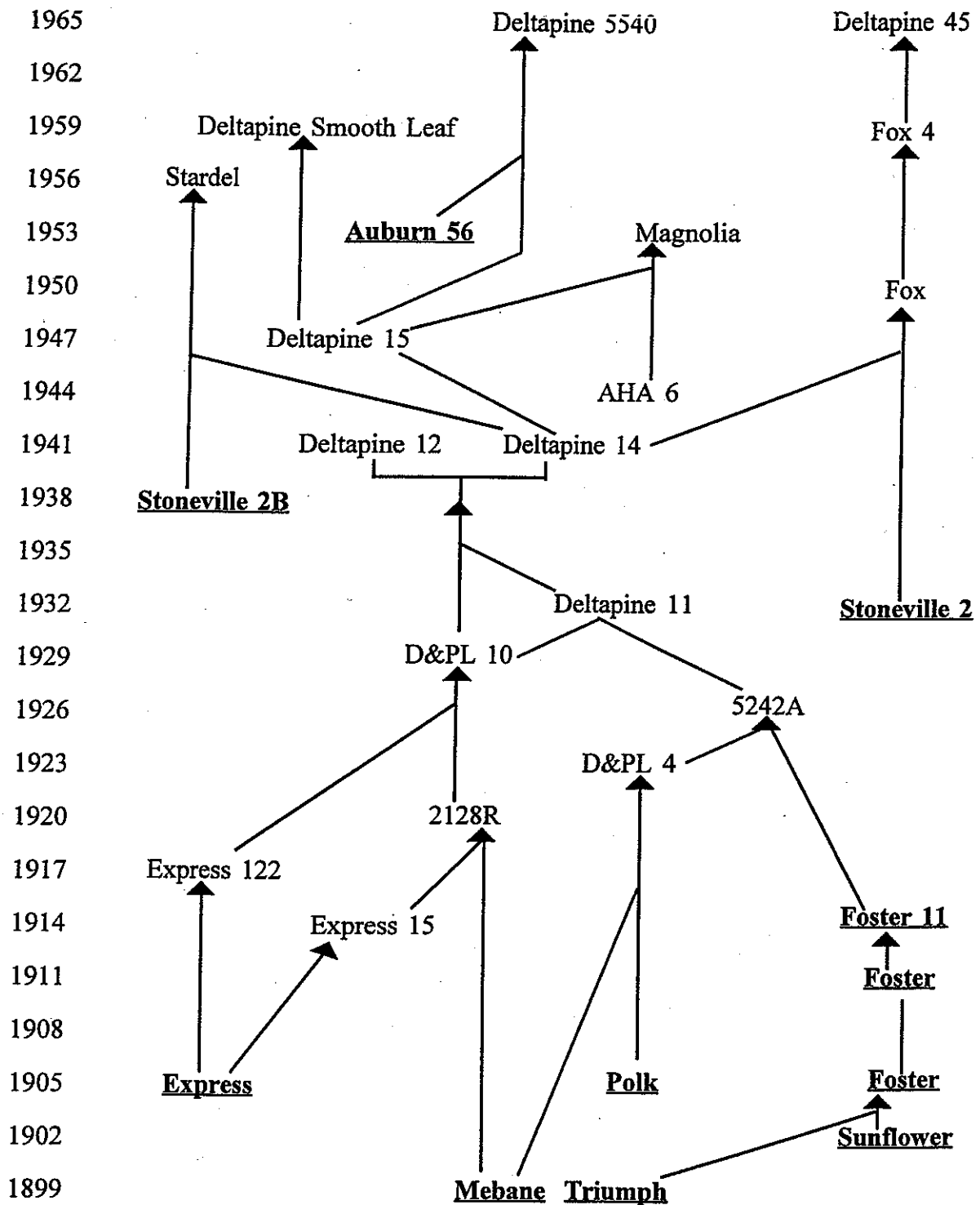


Figure 8. Development of Deltapine cottons. Underline and boldface type indicate germplasm sources that appear in previous figure(s). Development of AHA6 given in Figure 10. (Figure redrawn from Ramey, 1966.)

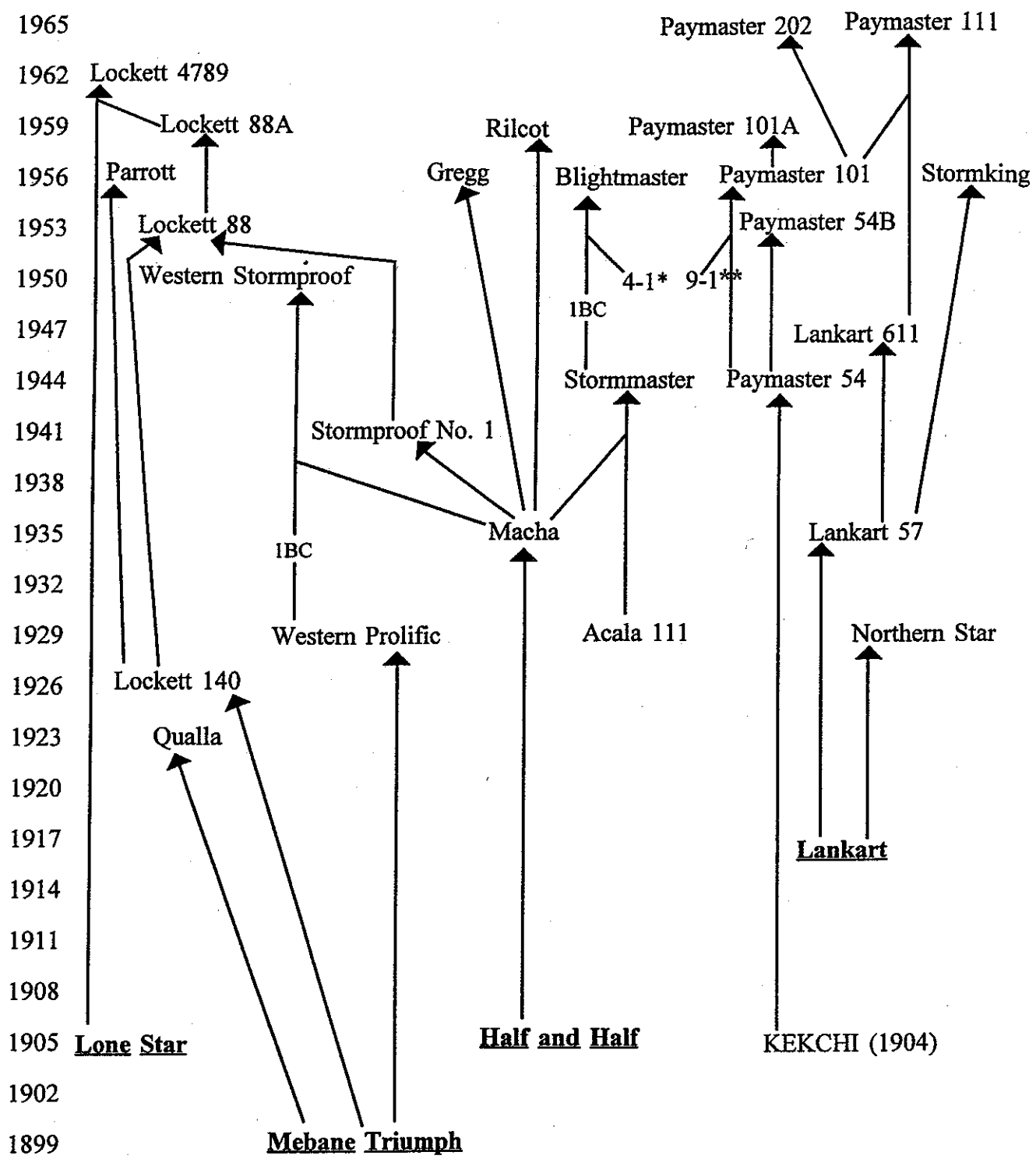


Figure 9. Development of Plains cotton. Underline and boldface type indicate germplasm sources that appear in previous figure(s). All uppercase letters indicate original or new sources of germplasm. Development of Acala 111 given in Figure 10. "BC" indicates number of backcrosses to recurrent parent.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

\*4-1=Stoneville 20/Acala 5675  
 \*\*9-1=Stormmaster/4-1

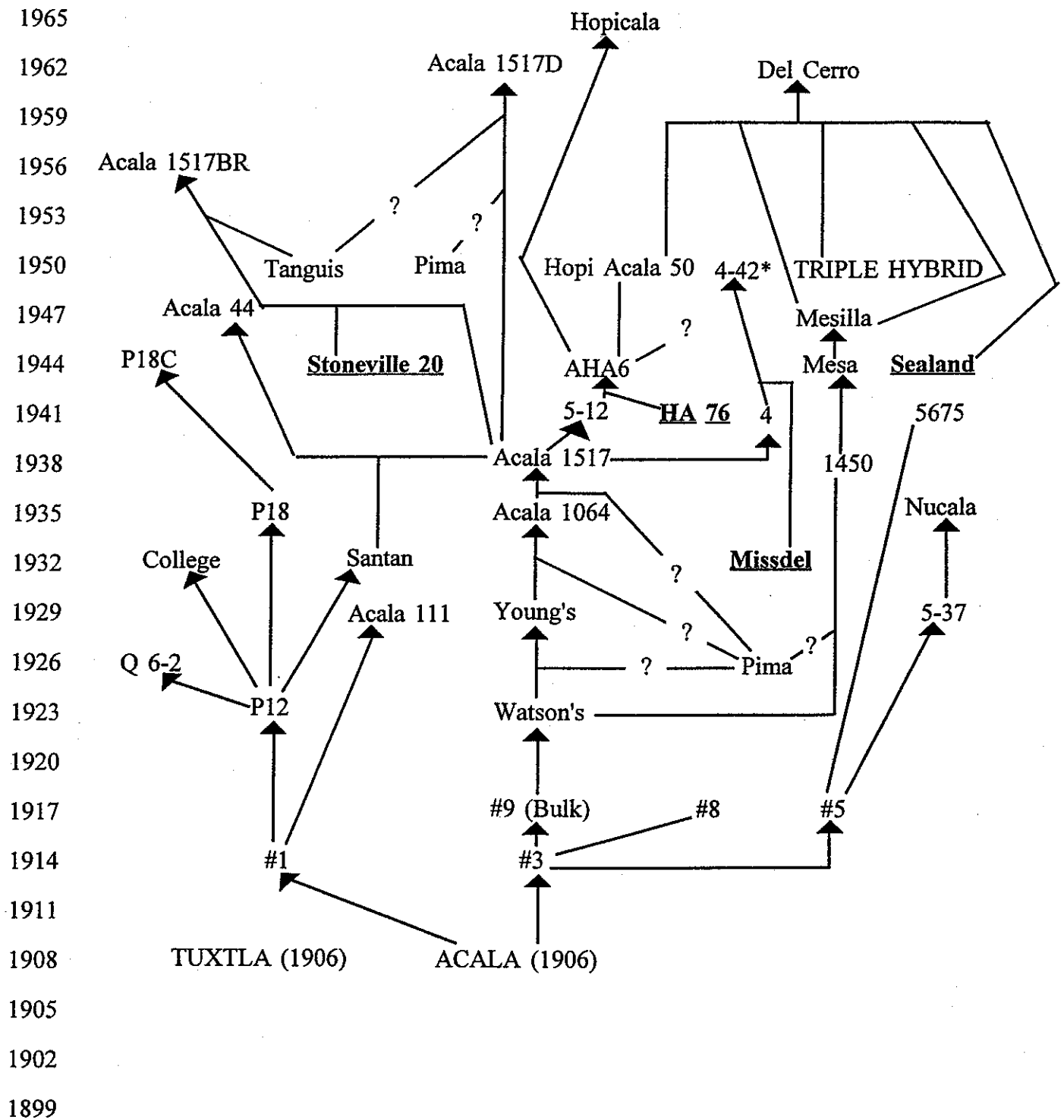


Figure 10. Development of Acala cottons. Introductions or new germplasm indicated by all uppercase letters; underline and boldface type indicate germplasm sources that appear in previous figure(s). Question mark (?) indicates possible outcross parent. (Figure redrawn from Ramey, 1966.)

\* Acala 4-42



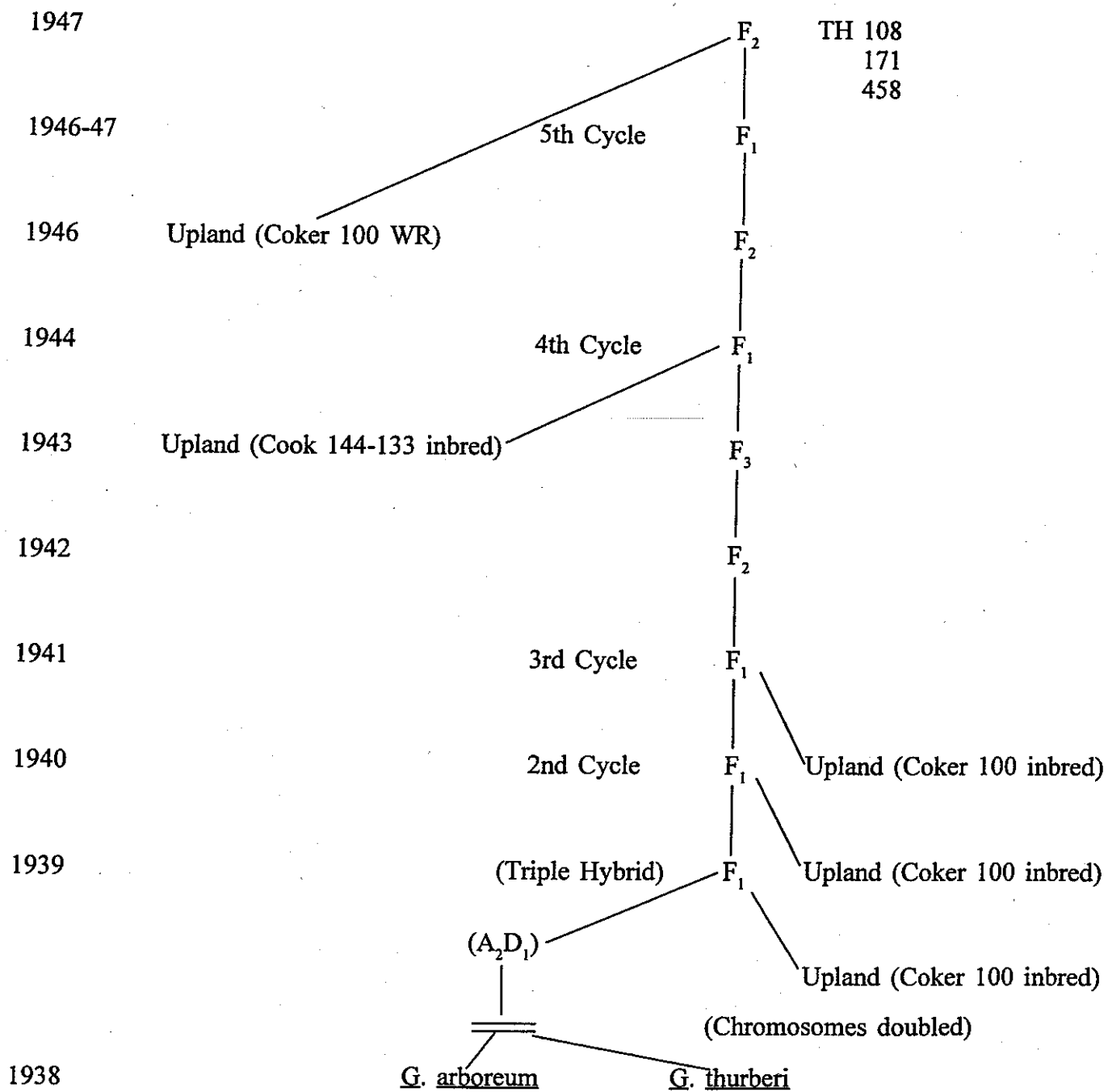


Figure 12. Development of Triple Hybrids 108, 171, and 458. (Figure adapted from an unpublished figure by Thomas Kerr, about 1969.)





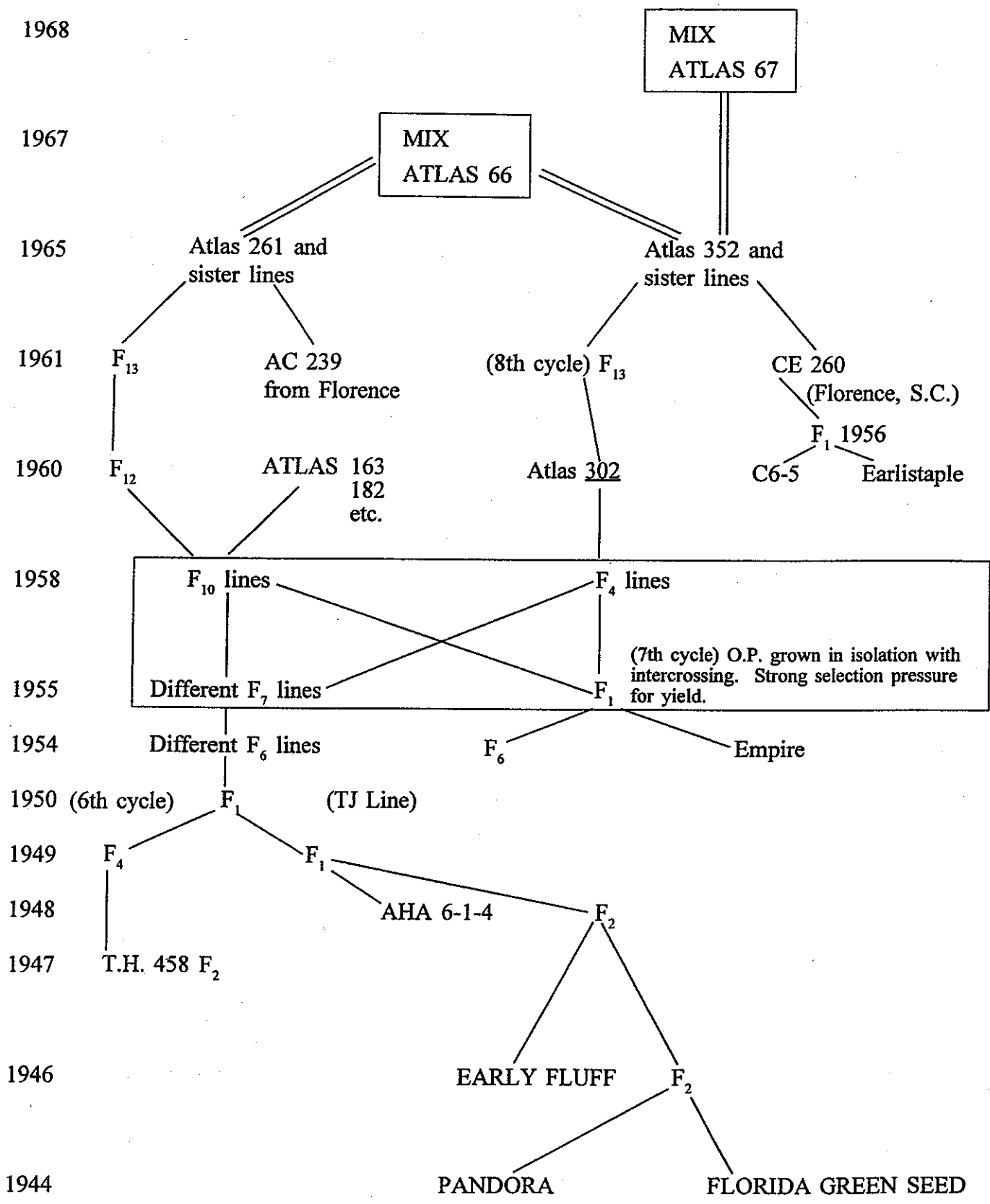


Figure 14. Development of Atlas lines. (Figure adapted from an unpublished figure by Thomas Kerr, about 1969.)

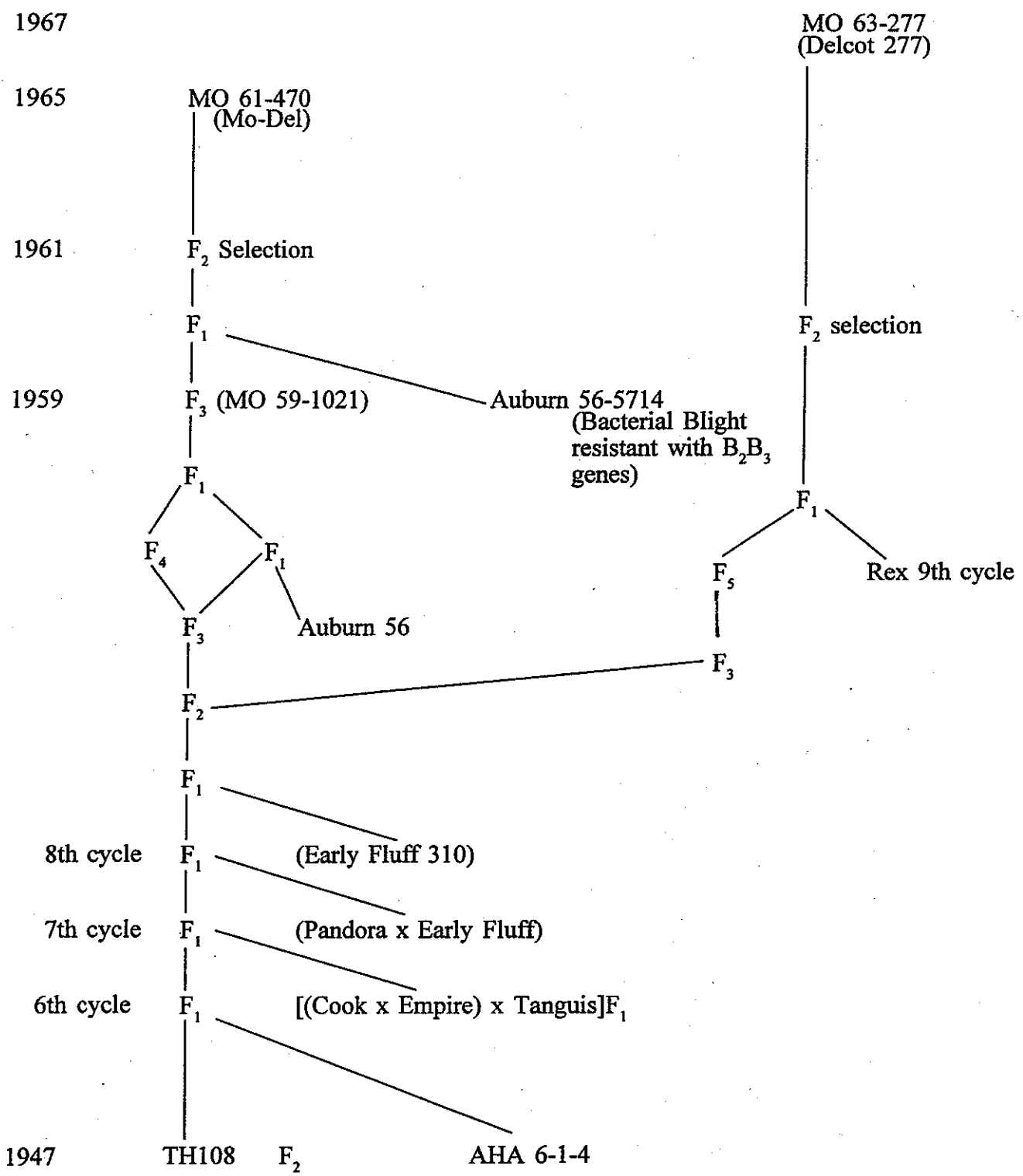


Figure 15. Development of Missouri lines and cultivars. (Figure adapted from an unpublished figure by Thomas Kerr, about 1969.)

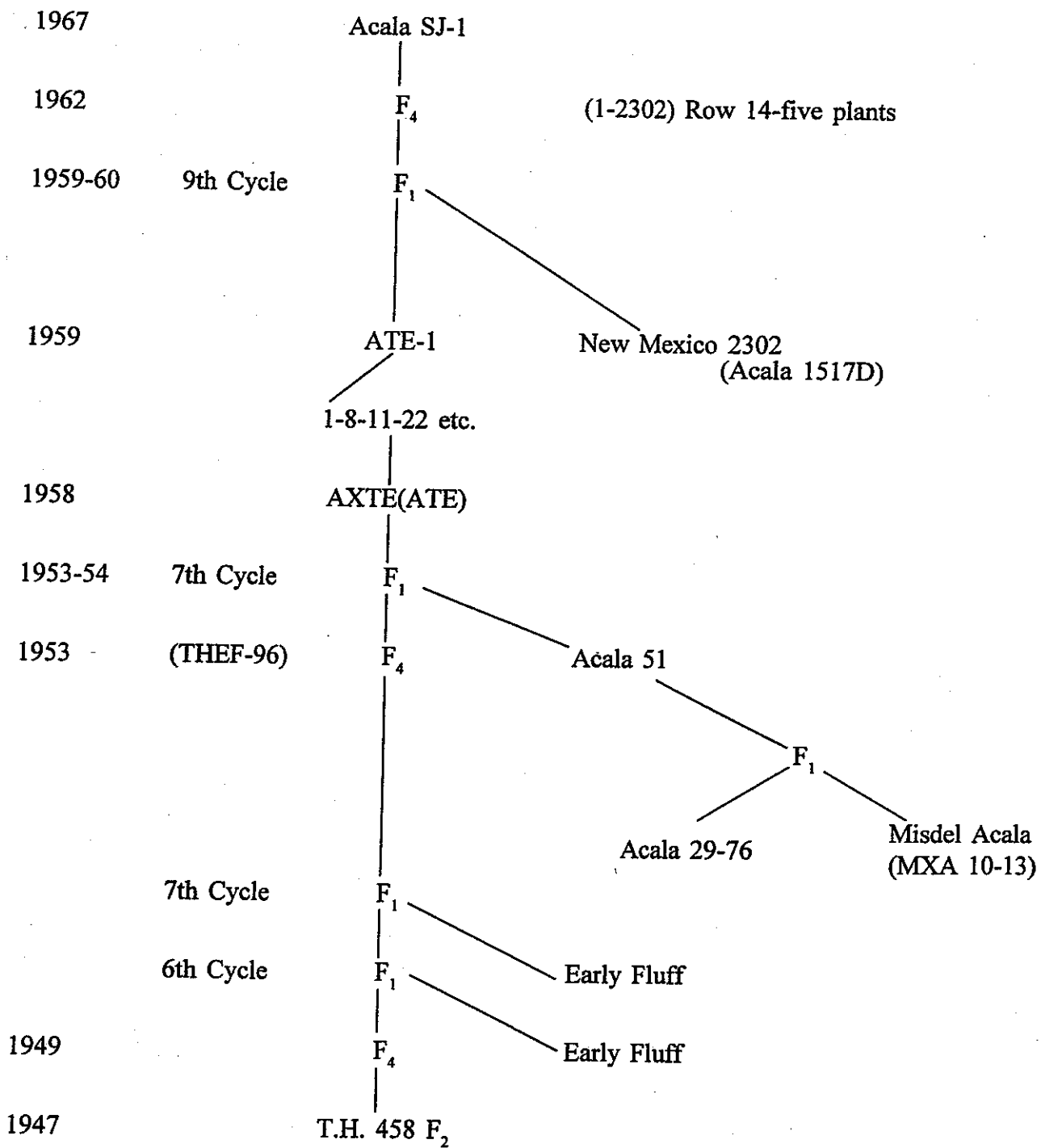
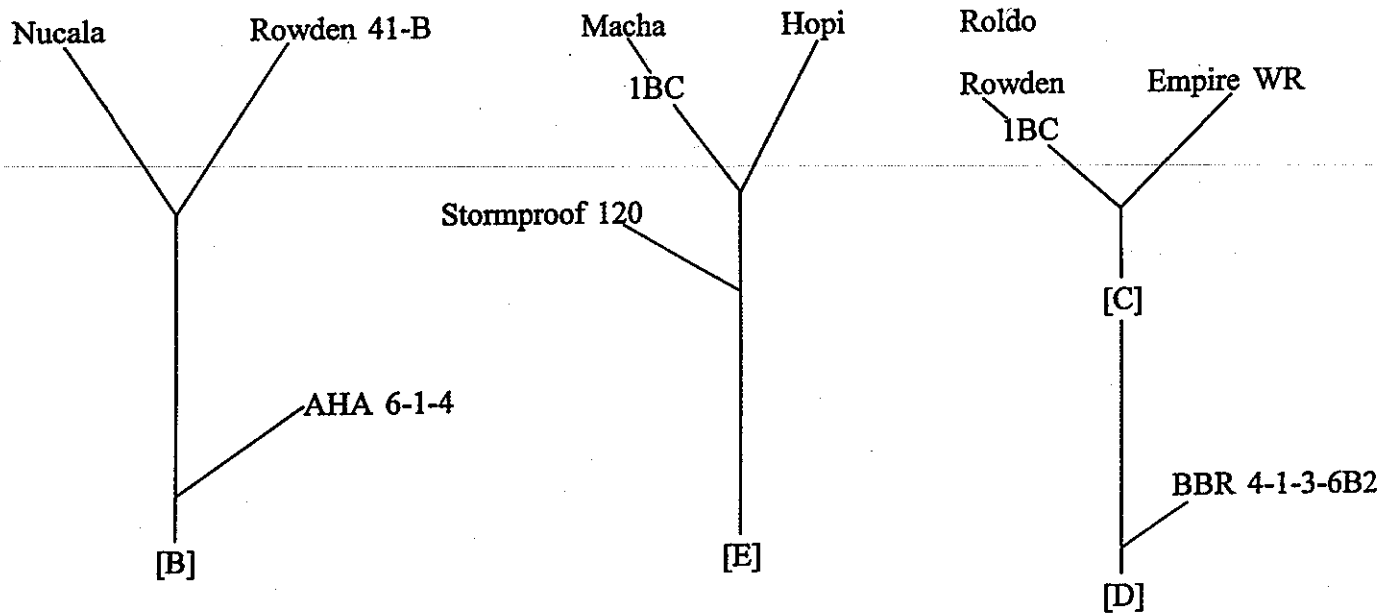


Figure 16. Development of Acala SJ-1. (Figure adapted from an unpublished figure by Thomas Kerr, about 1969.)



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.)**

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