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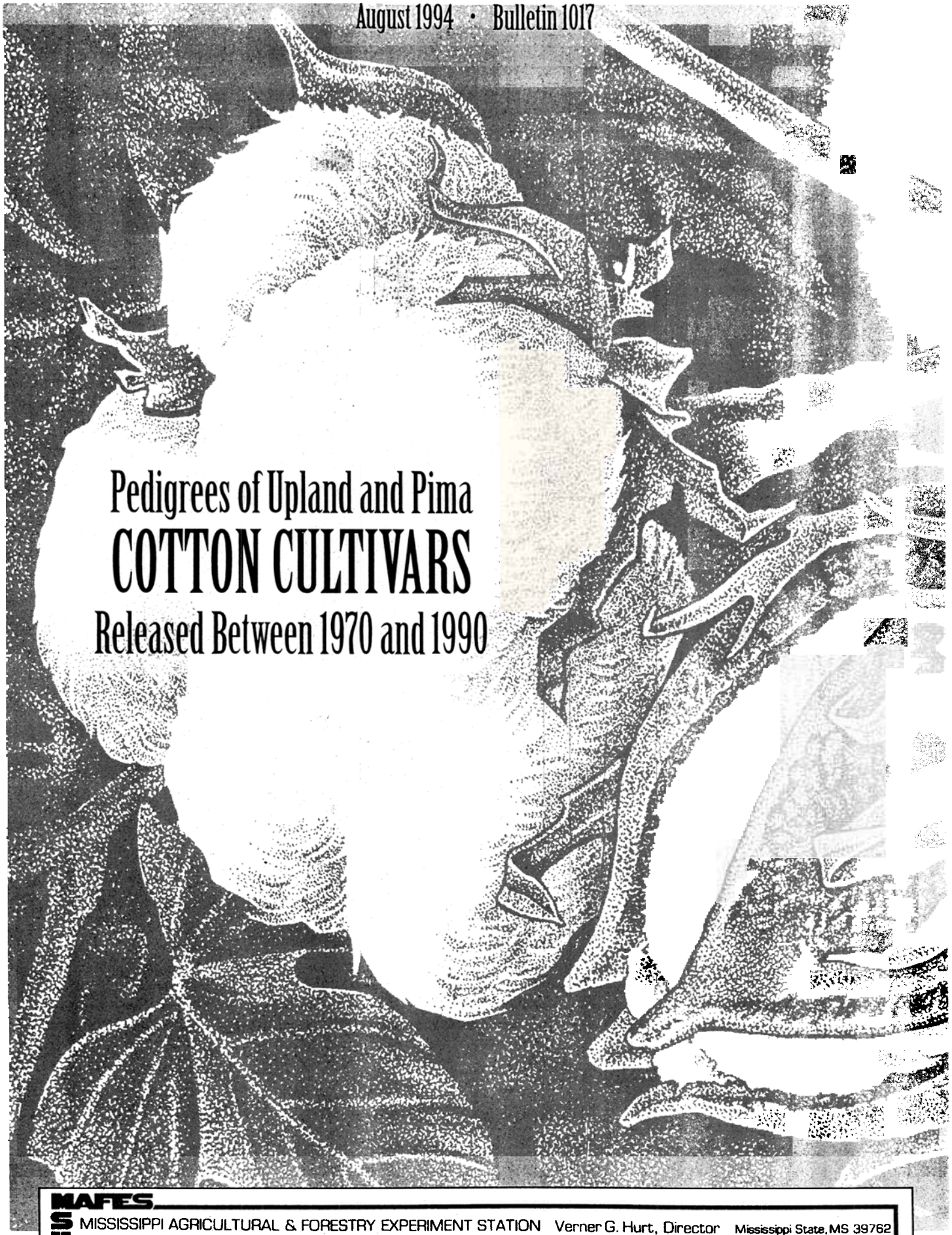

Pedigrees of Upland and Pima COTTON CULTIVARS Released Between 1970 and 1990

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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. Sheetz/PC
2	Acala 1517-70	B4364 or NMB 4364		CV-66	1970	NM AES & ARS-USDA	CS18:164
3	Acala 1517-75	Acala 4111		CV-67	1975	NM AES	CS18:164
4	Acala 1517-77	B3-1		CV-77	1977	NM AES	CS20:113
5	Acala 1517-77BR			CV-82	1982	NM AES	CS24:382
6	Acala 1517-88	B1788		CV-93	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-83	1983	NM AES	CS24:382-383
9	Acala 1517-SR2	E1137		CV-89	1986	NM AES	CS27:149
10	Acala 1517C	1028 OR 8893 OR 7133		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 (1964); 9450 (1969)		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., Leveland, TX	Metzer & Supak, 1990
23	All-Tex E-2					All-Tex Seed Co., Leveland, TX	Metzer & Supak, 1990
24	All-Tex Quickie	21-S-1-87				All-Tex Seed Co., Leveland, TX	Metzer & Supak, 1990
25	All-Tex Wiltmaster 571					All-Tex Seed Co., Leveland, TX	Metzer & Supak, 1990
26	Arkot 518	U Ark 7518(2402)	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, Stanfield, 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	Metzer & Supak, 1990
31	Bronco 360		8900114			Bronco Seed Co., Stamford, TX	Metzer & Supak, 1990
32	Bronco 414					Bronco Seed Co., Stamford, TX	Metzer & Supak, 1990
33	Bronco 625		8300124			Bronco Seed Co., Stamford, TX	Metzer & Supak, 1990
34	Bronco 693					Bronco Seed Co., Stamford, TX	Q. Adams/PC
35	CENCOT				1986	OK AES	L.M. Verhalen/PC
36	Cascot 392					Custom Ag Services, Loraine, TX	R. Bridge/PC
37	Cascot 2910					Custom Ag Services, Loraine, TX	Metzer & Supak, 1990
38	Cascot B-2		7700042			Custom Ag Services, Loraine, TX	Metzer 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, Loraine, TX	Metzer et al., 1984
40	Cascot C-13		8300034			Custom Ag Services, Loraine, TX	Metzer & Supak, 1990
41	Cascot L-7		7700043			Custom Ag Services, Loraine, 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	Vreseis 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		7300103		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	D.T. 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-383		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. Vehalen/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	PVP Exhibit A
125	GSA 74		7900071			Gro-Agri Seed Co., Lubbock, TX	R. Phipps/PC
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	Metzer & Supak, 1990
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	R. Phipps/PC
134	GaCot 79	Frego 142		CV-76	1979	GA AES	CS20:112
135	Georgia King	GaT 85-278		CV-98	1990	GA AES	CS32:493
136	Germain's Acala GC-352		8500076		1984	Germains Seeds, Bakersfield, CA	J.F. Mahill/PC
137	Germain's Acala GC-356		8800017		1985	Germains Seeds, Bakersfield, CA	J.F. Mahill/PC
138	Germain's Acala GC-362		8400129		1983	Germains Seeds, Bakersfield, CA	J.F. Mahill/PC
139	Germain's Acala GC-363		8100060		1981	Germains Seeds, Bakersfield, CA	J.F. Mahill/PC
140	Germain's Acala GC-410		8700061		1983	Germains Seeds, Bakersfield, CA	J.F. Mahill/PC
141	Germain's Acala GC-445		8100061		1981	Germains Seeds, Bakersfield, CA	J.F. Mahill/PC
142	Germain's Acala GC-510		8200166		1984	Germains Seeds, Bakersfield, CA	J.F. Mahill/PC
143	Germain's Acala GC-555		8100062		1980	Germains Seeds, Bakersfield, CA	J.F. Mahill/PC
144	Green	Vreseis 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		8900104		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	Hurdt 570					Hurdt's Quality Seeds, Lubbock, TX	Metzer et al., 1984
153	Hurdt 580					Hurdt's Quality Seeds, Lubbock, TX	Metzer et al., 1984
154	Hurdt 590					Hurdt's Quality Seeds, Lubbock, TX	Metzer et al., 1984
155	Hurdt 700					Hurdt'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	Hurdt 750					Hurdt's Quality Seeds, Lubbock, TX	Metzer et al., 1984
157	Hurdt 850					Hurdt's Quality Seeds, Lubbock, TX	Metzer et al., 1984
158	Hurdt 900					Hurdt's Quality Seeds, Lubbock, TX	Metzer et al., 1984
159	KC 380		8700069			Northrup King, Hartsville, SC	D.L. Burns/PC
160	KC311		8800197			Northrup King, Hartsville, SC	D.L. Burns/PC
161	KSA81M			CV-102	1989	National Fibre Research Center, Keyna	CS33:212
162	Kings Acala MS		8900026				PVP Exhibit A
163	LA 887	LA830887		CV-97	1990	LA AES	CS31:1701
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					Dawson County Seed Co, Lamesa, TX	Metzer et al., 1984
173	Lamesa 8					Dawson County Seed Co, Lamesa, TX	Metzer et al., 1984
174	Lankart 142		9000215		1987	Lankart Seed Farms, Waco, TX	R.H. Sheetz/PC
175	Lankart 175		8400153		1976	Lankart Seed Farms, Waco, TX	Metzer & Supak, 1990
176	Lankart 311		8700086		1986	Lankart Seed Farms, Waco, TX	Metzer & Supak, 1990
177	Lankart 511		8600086		1984	Lankart Seed Farms, Waco, TX	Metzer & Supak, 1990
178	Lankart LX 571		7200018			Lankart Seed Farms, Waco, TX	Metzer & Supak, 1990
179	Lankart PR 75		8000135		1980	Pioneer Hybrid Seed Co., Plainview, TX	Metzer & Supak, 1990
180	Lockett 77		7500084		1975	Lockett Seed Co., Lockett, TX	Metzer et al., 1984
181	Lockett BXL		7100026		1970	Lockett Seed Co., Lockett, TX	R.H. Sheetz/PC
182	McDonald 3					Dawson Seed Co., Lamesa, TX	Metzer & Supak, 1990
183	McNair 210		7100090		1970	McNair Seed Co., Laurinburg, NC	D.L. Burns/PC
184	McNair 220		7600077		1976	McNair Seed Co., Laurinburg, NC	Metzer & Supak, 1990
185	McNair 235					McNair Seed Co., Laurinburg, NC	Metzer & Supak, 1990
186	McNair 511		7200095		1971	McNair Seed Co., Laurinburg, NC	D.L. Burns/PC
187	McNair 612		7400023		1975	McNair Seed Co., Laurinburg, NC	D.L. Burns/PC
188	New Mexico Acala #20		7605014			Private Grower	PVP Exhibit A
189	Northern Star 5					Northern Star Seed Farms, Lubbock, TX	Metzer et al., 1984
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-ARS & SC AES	CS25:198
193	PD-2	PD6520		CV-86	1985	USDA-ARS & SC AES	CS25:198-190
194	PD-3	PD6208	8800117	CV-92	1988	USDA-ARS & 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	Metzer & 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	Metzer et al., 1984
199	Paymaster 147		8900269		1984	Cargill Seeds, Aiken, TX	Metzer & Supak, 1990
200	Paymaster 266		7600043		1971	Cargill Seeds, Aiken, TX	Metzer & Supak, 1990
201	Paymaster 303		7500060		1974	Cargill Seeds, Aiken, TX	Metzer & Supak, 1990
202	Paymaster 404		8000081		1979	Cargill Seeds, Aiken, TX	Metzer & Supak, 1990
203	Paymaster 505				1987	Cargill Seeds, Aiken, TX	Metzer & 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		1968	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	Metzer et al., 1984
212	Prolific Stormproof					Von Roeder Seed Farms, Snyder, TX	Metzer et al., 1984
213	Quapaw	61-28 or 62-5 or 63-22	7200069			Rogers Cotton Seed Co., Waco, TX	PVP Exhibit A
214	Quapaw D		8600085			Rogers Cotton Seed Co., Waco, TX	PVP Exhibit A
215	Ranger 55					Ranger Seed Co., Tahoka, TX	Metzer et al., 1984
216	Ranger 64-2					Ranger Seed Co., Tahoka, TX	Metzer & Supak, 1990
217	Ranger BB-53					Ranger Seed Co., Tahoka, TX	Metzer et al., 1984
218	Ranger RV-12					Ranger Seed Co., Tahoka, TX	Metzer et al., 1984
219	Ranger RV-64					Ranger Seed Co., Tahoka, TX	Metzer et al., 1984
220	Ranger TM-62					Ranger Seed Co., Tahoka, TX	Metzer et al., 1984
221	Rex 713		7700028			AR AES	PVP Exhibit A
222	Rilcot 90					Rilcot Seed Co., Littlefield, TX	Metzer et al., 1984
223	Rilcot 90-A		7600042			Rilcot Seed Co., Littlefield, TX	Metzer & Supak, 1990
224	Rilcot 95					Rilcot Seed Co., Littlefield, TX	Metzer et al., 1984
225	Rilcot Balebuster-1					Rilcot Seed Co., Littlefield, TX	Metzer et al., 1984
226	Rilcot Drylander 289					Rilcot Seed Co., Littlefield, TX	Metzer et al., 1984
227	Rilcot RK-6					Rilcot Seed Co., Littlefield, TX	Metzer et al., 1984
228	Rilcot Stripper N		7100027			Rilcot Seed Co., Littlefield, TX	Metzer et al., 1984
229	Rogers 7590		8500213		1986	Rogers Cotton Seed Co., Waco, TX	PVP Exhibit A
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	Metzer et al., 1984
233	Rogers LG-102		8100024			Rogers Cotton Seed Co., Waco, TX	Metzer et al., 1984

Table 1. Continued.

Cultivar name		Experimental designation	PVP number	CS Reg.	Year	Originator or Owner	Reference for pedigree
234	S-35		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	Al Hoggard/PC
240	Si Samrong 60	AG 18		CV-95	1988	Field Crops Res. Inst., Thailand	CS29:236
241	Simwalt 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		8500031		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					GroAgri 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'-1-81	8500066	CV-87	1985	TX AES	CS 26:384-385
266	Tamcot CAMD-E	203Q,B.V.72 and H6-2-72	7800073	CV-74	1977	TX AES	CS19:411-412, TAES Bull. L-1720
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	62	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	Metzer & Supak, 1990
277	Terra C-40		8500154			Terra Int'l, Inc., Memphis, TN	Metzer & Supak, 1990
278	Terra SR-10		8500088			Terra Int'l, Inc., Memphis, TN	Metzer & Supak, 1990
279	Thorpe		7300092		1973	OK AES & USDA-ARS	L.M. Verhalen/PC
280	Tifcot 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	Metzer et al., 1984
283	Western 44					Von Roeder Seed Farms, Snyder, TX	Metzer et al., 1984
284	Wiltmaster 569					All-Tex Seed Co., Levelland, TX	Metzer et al., 1984
285	Wiltmaster 571					All-Tex Seed Co., Levelland, TX	Metzer et al., 1984
Pima Cottons							
1	Pima S-5	P-29		CV-60	1975	USDA-ARS & AZ, NM & TX AES	CS16:604
2	Pima S-6			CV-81	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. Pedigrees of cotton cultivars released between 1970 and 1990.

Cultivar Name		Pedigree	Notes on Pedigree
Upland Cottons			
1	7563	PM 266-69/Lockett 99-1	Lockett 99-1=Lockett 4789-A/Lubbock 4; Lockett 4789 (Table 3)
2	Acala 1517-70	B1413/Hopicala	B1413=250/49W//250/9136 (Parents in Table 3); Hopicala (Table 3)
3	Acala 1517-75	Acala 688/Acala 9608	688=Sib. Acala 1517V; 9608=DP14/K3131; K3131 From Africa; DP 14 (Table 3)
4	Acala 1517-77	Acala 1517-70/Unknown Storm Resistant	
5	Acala 1517-77BR	Sel. Acala 1517-77	
6	Acala 1517-88	Acala 1517-77BR/DP 70	
7	Acala 1517-91	Acala 8130/Acala 8874	8130=Sel. Acala 1517-70; Acala 8874 (Table 3)
8	Acala 1517-SR1	Acala 1517-E1/Unknown Storm Resistant	
9	Acala 1517-SR2	Acala 1517-E1/Unknown Storm Resistant	Sib. Acala 1517-SR1
10	Acala 1517C	1544/1557	Pedigree of 1544 and 1557 lost in fire; Possible sib of original Acala 1517
11	Acala 1517E-1	Acala 3080/PD2165	Acala 3080=NMB3080 (Table 3); PD2165 (Table 3)
12	Acala 1517E-2 Sel.	Acala 1517E-1	
13	Acala 1517V	Acala 2503/Coquette	Parents in Table 3
14	Acala Maxxa	T7538/S4959	T7538=S196/NM1900-1; S4959=12302-4//C6TE/NMB7378; Parents in Table 3
15	Acala Prema	T4584/T5692	T4584=AXTE-11/NM49-2; T5692=C6TE/NMB3080; Parents in Table 3
16	Acala Royale	T6754/T7044	T6754=C6TE/NMB3080; T7044=AXTE1-57/Tex E364; Parents in Table 3
17	Acala SJ-2	AXTE-1/NM 2302	(Multiline of 5918 & 5845); Parents in Table 3
18	Acala SJ-3	C6TE/NMB7378	Parents in Table 3
19	Acala SJ-4	C6TE/NMB3080	From F4 Bulk, Parents in Table 3
20	Acala SJ-5	C6TE/NMB3080	From F5 Bulk; Parents in Table 3
21	Acala SJC-1	C6TE/NMB3080//NM7403/Acala 4-42-77	Sib of Acala GC-510; Parents in Table 3
22	All-Tex 857	Sel. Lankart 57	Table 3
23	All-Tex E-2	Tamcot CAMD-E/PM 792	
24	All-Tex Quickie	ORHU-1-78/Tamcot CAMD-E	ORHU-1-78 (Table 3)
25	All-Tex Wiltmaster 571	CA 803/AZ 6024	Parents in Table 3
26	Arkot 518	Rex 713/CKR 304	
27	AZ 64	AC239/AZ6010	Parents in Table 3
28	BR-636	DP 70/DP Acala 90	
29	Blanco 3363	CA398/Lankart 611	Parents in Table 3
30	Blightmaster A-5	Stormmaster//Stoneville 20/Acala 5675/3/Stormmaster	Parents in Table 3; Same pedigree as Blightmaster and CA291A (Table 3)
31	Bronco 360	Lankart G-3/Lankart 6024	Lankart 6024=Lankart/Acala; Lankart 6024=Lankart/AZ6024?
32	Bronco 414	Sel. Lankart KC-G3-14124	
33	Bronco 625	Sel. Lankart 57	Table 3
34	Bronco 693	PM 303-T//61M283/PM145	61M283=Empire/Acala; Empire (Table 3)
35	CENCOT	Sel. Westburn M	
36	Cascot 392	LE68-73/DES 56	
37	Cascot 2910	Sel. Cascot BR-1C	Cascot BR-1C=Sel. Bonham; Bonham (Table 3)
38	Cascot B-2	Sel. TX-Bonham	Bonham (Table 3)
39	Cascot BR-1	Sel. TX-Bonham	Bonham (Table 3)

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	
46	Coker 310	CKR 100 Staple/DP 15	Parents in Table 3
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 310/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-lint 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. Delcott 277	
61	DC 886	Sel. CA491-714	CA491 (Table 3)
62	DES 24	STV603/Delcot 277	
63	DES 56	ST213/PD	2164 Parents in Table 3
64	DES 119	DES 24/DES 2134-047	DES2134-047=Sib. DES 56
65	DES 422	DP 55/DES 2134-018	DES 2134-018=Sib. DES 56
66	Dawson V-14	Sel. CA 614	CA614 (Table 3)
67	Delcot 277	Rex//TJ/EF 310	Rex (Table 3); TJ/EF310 (Table 3); Diagram in Fig. 15
68	Delcot 277J	Sel. Delcot 277	i.e. Sel. of S65-396, a component of Delcot 277
69	Delcot 311	Complex (Sel. Delcot 277, Auburn 56, MO-Del, 101-102B)	Details not given
70	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)
71	Delcot 390	MO63-277BR2A/HYC74-283//MO63-277BR2A	Parents in Table 3
72	Deltapine 20	DP 16//DP Smoothleaf/DP 45/3/DES 56	DP 16, DP Smoothleaf, and DP 45 in Table 3
73	Deltapine 25	DP 45/STV 7A	Parents in Table 3
74	Deltapine 26	DP 45/STV 7A	Parents in Table 3
75	Deltapine 30	Sel. DP 66	
76	Deltapine 41	DP 55/STV 603	
77	Deltapine 50	DP 16//DP	Smoothleaf/DP 45/3/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 55	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 Smootleaf/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-383	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	Metzer et al., 1984 has: Tamcot/Dunn 118
106	Dunn 219	Sel. Dunn 119	
107	Dunn 224	Sel. MO-Del line	Metzer 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 325/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 32A	Sel. Earlycot 32	Earlycot 32=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+	Sel. G&P 3774	
120	G&P 1005	Sel. CAMD S75C	Table 3
121	G&P 3755	Sel. Tamcot SP-37	
122	G&P 3774	Sel. Tamcot SP-37	
123	G&P 5479	Sel. Tamcot SP-37	
124	GSA 71	Complex, incl.: Nucala, AHA, Rowden, Roldo Rowden, Hopi, Stormproof 120. . .	See Fig. 17
125	GSA 74	Sel. HYC MDR-2	HYC MDR-2 Incl.: Stripper 31, Aub. M, AXTE, Breeding lines
126	GSA 75	Sel. GSA 71	
127	GSA 78	Sel. CA 614	CA 614 (Table 3)
128	GSC 20	Sel. CA 614	Table 3
129	GSC 25	Sel. Gro-Agri 177	
130	GSC 27	Sel. Gro-Agri 71033	
131	GSC 30	Stripper 31A/Gro-Agri 12644	12644=Vert. wilt resistant line from Steve Wilheim, Univ. So. CA
132	GSC 71¢	GSA 71/Gro-Agri 12644	12644=Vert. wilt resistant line from Steve Wilheim, Univ. So. CA
133	GSC 1093	PM 404/GSA 75	
134	GaCot 79	DP Smoothleaf (frego bract)/3*DP 16	DP Smoothleaf (frego bract)=Frego bract strain of DP Smoothleaf
135	Georgia King	Tifcot 56/McNair 235	
136	Germain's Acala GC-352	Sel. S-6689	S6689=AXTE 1-57/Tex E364//C6TE/NMB3080 (Parents in Table 3)
137	Germain's Acala GC-356	Sel. T-8687	T8687=C6TE/NMB3080 (Parents in Table 3)
138	Germain's Acala GC-362	Tex E364/12302-89//C6TE/NM7378	Parents in Table 3
139	Germain's Acala GC-363	S1603/T4845	T4845=C6TE/NMB3080 (Parents in Table 3); S1603=Sib. Acala SJ-2
140	Germain's Acala GC-410	T4852/S1391	T4852=C6TE/NMB3080; S1391=C6TE/NMB3080//12302; Parents in Table 3
141	Germain's Acala GC-445	S2694/S3468	S2694=12302-4//Tanguis/Acala 4-42; S3468=C6-5/Del Cerro 503; See Table 3
142	Germain's Acala GC-510	C6TE/NMB3080//NM7403/Acala 4-42-77	Sib of Acala SJC-1; Parents in Table 3
143	Germain's Acala GC-555	Sel. T8687	T8687=C6TE/NMB3080; Parents in Table 3
144	Green	Sel. Colored-lint Cotton, USDA, Shafter	
145	HS 23	Sel. McNair 235	
146	HS 46	AZ 7209/DP Acala 90	AZ 7209 (Table 3)
147	Hancock	M8/Empire Wilt	M8 (Table 3); Empire Wilt=Empire WR? (Table 3)
148	Highland 34	Acala 1517-70/Stripper 31	Stripper 31 (Table 3)
149	Highland 52	Sel. Rex Smoothleaf 66	Rex Smoothleaf 66=Sel. Rex Smoothleaf (Table 3)
150	Holland 1379	Sel. TX-Bonham	Bonham (Table 3)
151	Holland 4002	Sel. Holland 5677	Holland 5677=Sel. Bonham (Table 3)
152	Hurdt 570 Sel. CA614	CA614	Table 3
153	Hurdt 580	Selection in Hurdt breeding material	No additional info. given
154	Hurdt 590	Hurdt 570/PM101-A	PM101-A=Sel. PM 101 (Fig. 9)
155	Hurdt 700	Sel. Tamcot SP-21	
156	Hurdt 750	CA614/GSA 71	CA614 (Table 3)
157	Hurdt 850	Selection in breeding materials including Southeastern strains and Acala 308	Acala 3080=NMB 3080? (Table 3); no additional info. given
158	Hurdt 900	Selection in Hurdt's breeding material and Lankart 611	Lankart 611 (Table 3); no additional info. given

Table 2. Continued.

	Cultivar Name	Pedigree	Notes on Pedigree
159	KC 380	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/NMB3080; Pima S-4 (Table 3)
163	LA 887	DES 119/LA 434-RKR	LA434-RKR=DP 15/Clevewilt-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 M/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/HI-67	No information on on HI-67 at this printing; Other parents in Table 3
180	Lockett 77	Lockett 4789-A/SP12-67//Lockett 4789A/CA563	Lockett 4789, SP 12, and CA563 (Table 3)
181	Lockett BXL	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 1032	McNair 1032 (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	Stormaster (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//AC235/Dixie King	FTA, Altas, AC, Dixie King (Table 3)
194	PD-3	PD9363/PD9240	Parents in Table 3
195	PR 80	Tamcot SP-23/52o, BV65	52o, 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/DP5540//PM 101A/TAES B4	AZ 6024, PM 101, and DP5540 (Table 3); TAES B4=B4LK (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/Blightmaster/Empire KK/3/Shafter 011/4/PM 202/Empire GL	Blightmaster, 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...=Tamcot 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/PM111-A	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/Tamcot 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//Del 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, Nectariless 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/PD4398	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	Simwalt 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/STVX1834	STV 7 (Table 3); No info. available on STVX1834
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 18777N 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-8-76	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 GCNH	CAMD-21S-5-80/GN-8-76	Parents in Table 3
269	Tamcot HQ95	Tamcot CD3H/MAR-CABU'CS-2-1-83	MAR-CABU'CS-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, B.V.65/52o, B.V.65	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	CA803/AZ6024	Parents in Table 3
Pima Cottons			
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 pedigress of cotton cultivars released between 1970 and 1990.

Strain/cultivar name	Pedigree	Pedigree Notes	Source
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
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/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
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 2503/Coquett//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
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 Mencopi//?*Acala; i.e. unknown number of backcrosses to unkown 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 Stormaster	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	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	Nectariless/3 (or 4)*CA291A		D.F. Owen/PC
CA961	CA491/Del Cerro		D.F. Owen/PC
Clevewilt	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 Clevewilt)	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	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

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)/3/MVA/TH//AHA 6-1-4/MVA	Also Fig. 10	Staten, 1971
Deltapine 14	DP 11/DP 10	Also Fig. 8	K.R. Jone/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)	Earlistaple Tidewater Acala/Coker Wilds		Culp & Harrell, 1974
Early Fluff	Station C/Empire; Station C=Sel. Clevewilt		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		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
HYC74-283	Mass Cross w/: (Half & Half, Quapaw, Stripper 31, PM 18, MO59-1021) / (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
Lubbock 4	Not available at this printing		
M8	Doubled haploid of DP 14		W.M. Meredith/PC
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	
MO-Del	TH108/AHA 6-1-4//Cook/Empire/3/Tanguis/4/Pandora/Early Fluff/5/Early Fluff 310/6/Aub. 56	Fig. 15	Kerr, Unpublished
MO63-277	Exp. designation of Delcot 277 (see Table 2)	Also Fig. 15	CS12:126-127
MO63-277BR2A	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
Missdel	Sel. Foster	Fig. 7	Ramey, 1966
NM2302	Exp. designation of Acala 1517D (see Fig. 10)		Turner, 1974
NM49-2	Sel. Acala 49		Assumed
NM7403	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 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. Clevewilt; 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	Okla. . . =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 SJ-2 (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	SP31-66-2373; 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	Wilt tolerant G. barbadense from Peru		Turner, 1974
Tex E364	Strain from Escaleta 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		
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. Ctr., 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
B4LK	Lankart 57 background with B4 gene for bacterial blight resistance	Synonymous w/ B4 or TAES B4	TAES Bul. L-2240
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 S75C	Same as Tamcot SP21S (Table 2)		Thaxton/PC
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, nectariless 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
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
SPHI-4	Tri-species hybrid		Thaxton/PC
Tamcot 788A	CA398/P1874		D.F. Owen/PC
Germplasm from the Pee Dee Research Station, Florence, SC			
A (followed by number)	TH 171/Sealand 7//Earlistaple	Fig. 11	Culp & Harrell, 1974
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	F/J//A	Fig. 11	Culp & Harrell, 1974

Table 3. Continued.

Strain/cultivar name	Pedigree	Pedigree Notes	Source
FTA	F/T//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
PD9240	CKR 421/PD4398	Sib. SC-1 (Table 2)	CS25:201
PD9249	Sel. FJA		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
Pima germplasm			
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	Unkown 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	S1 10-8=Sel. Pima S-1?	CS16:604

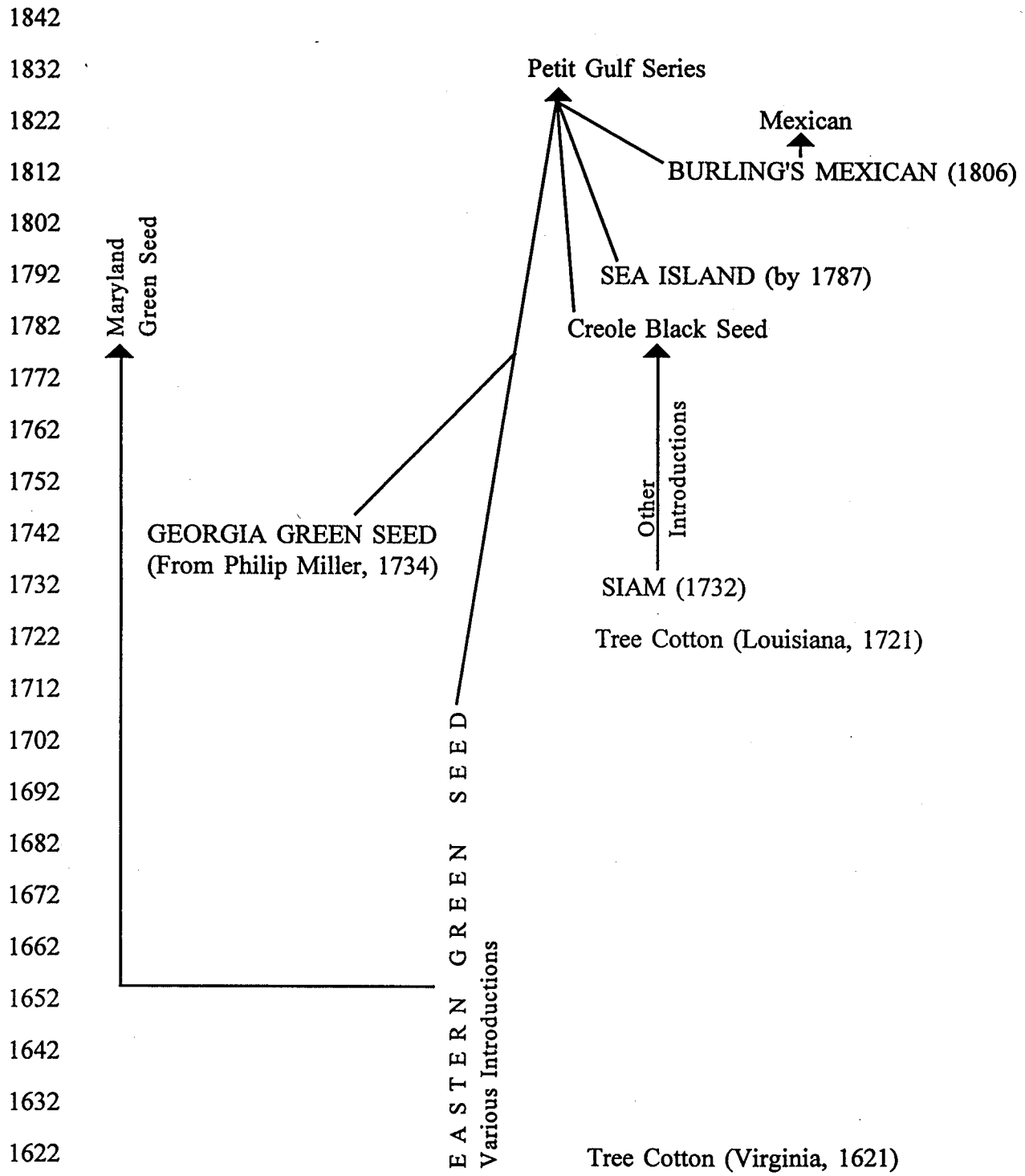


Figure 1. Primary sources of germplasm for American Upland cottons. Uppercase letters indicate introductions or original sources of germplasm. (Figure redrawn from Ramey, 1966.)

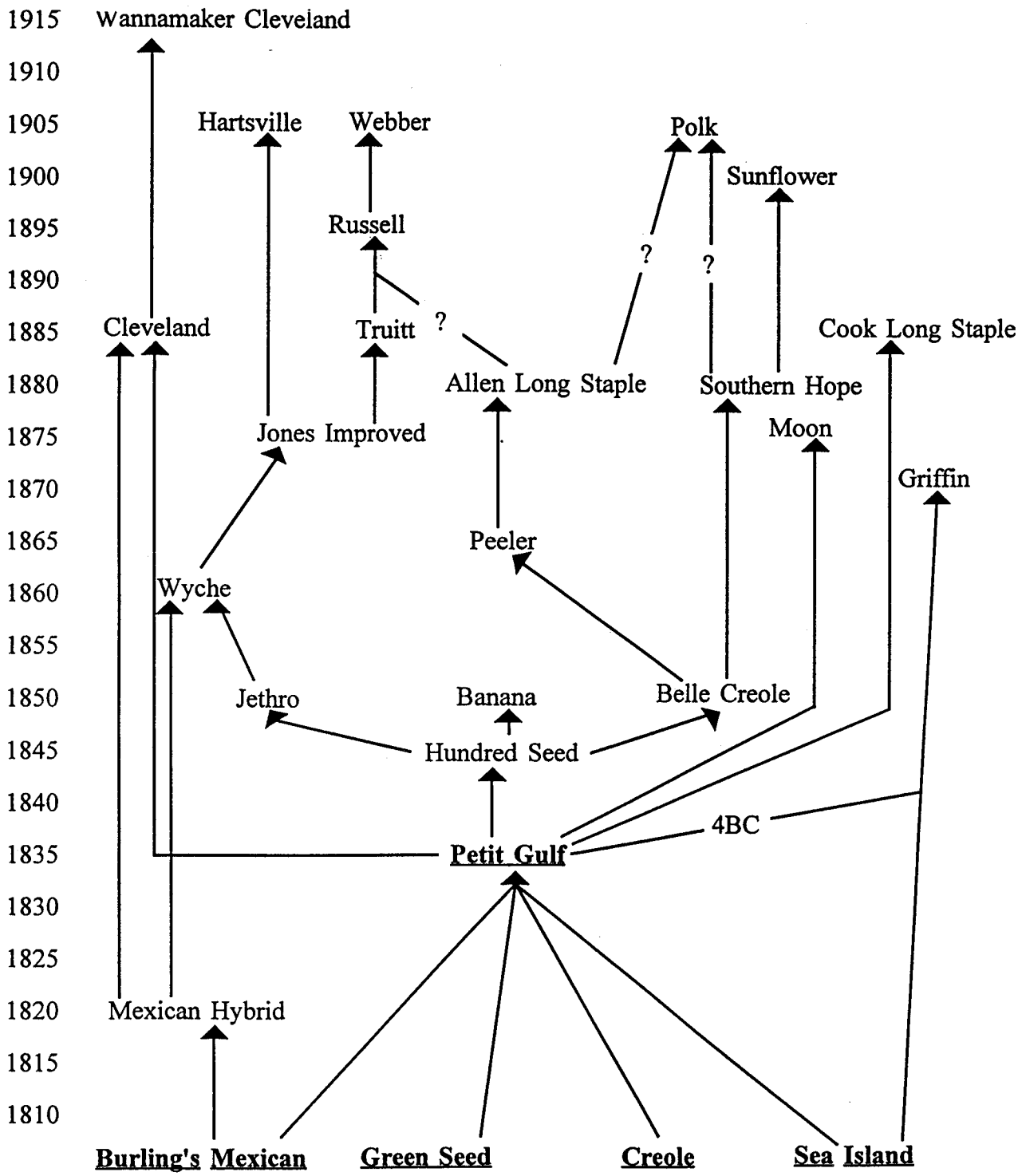


Figure 2. Development of Long Staple and Eastern Big Boll cottons. Underline and bold face type indicate germplasm sources that appear in previous figure (s). Question mark (?) indicates possible outcross parent. (Figure redrawn from Ramey, 1966.)

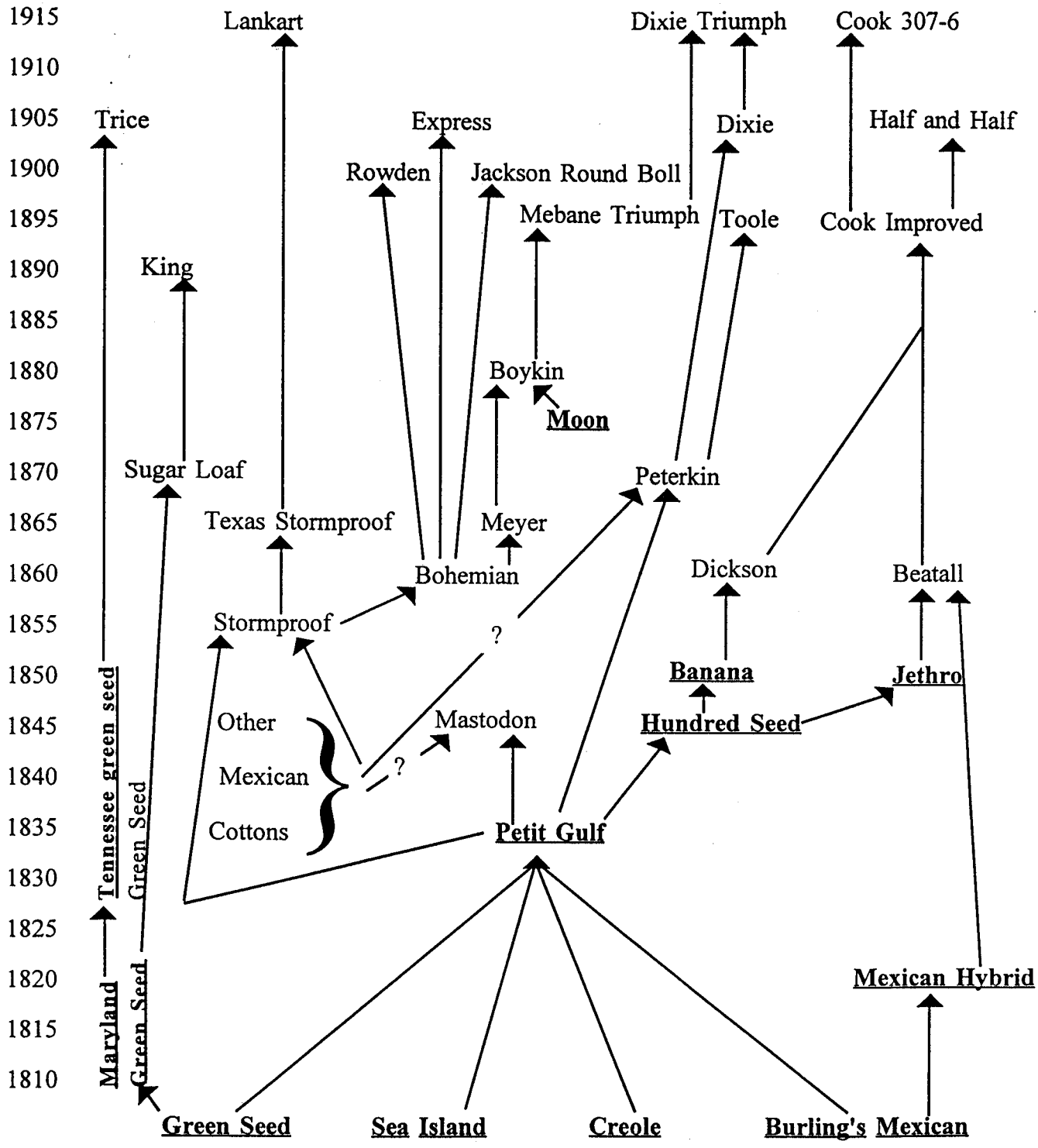


Figure 3. Development of Western Big Boll, Early, and Wilt Resistant cottons. Underline and boldface type indicate germplasm sources that appear in previous figure(s). Question mark (?) indicates possible outcross parent. (Figure redrawn from Ramey, 1966.)

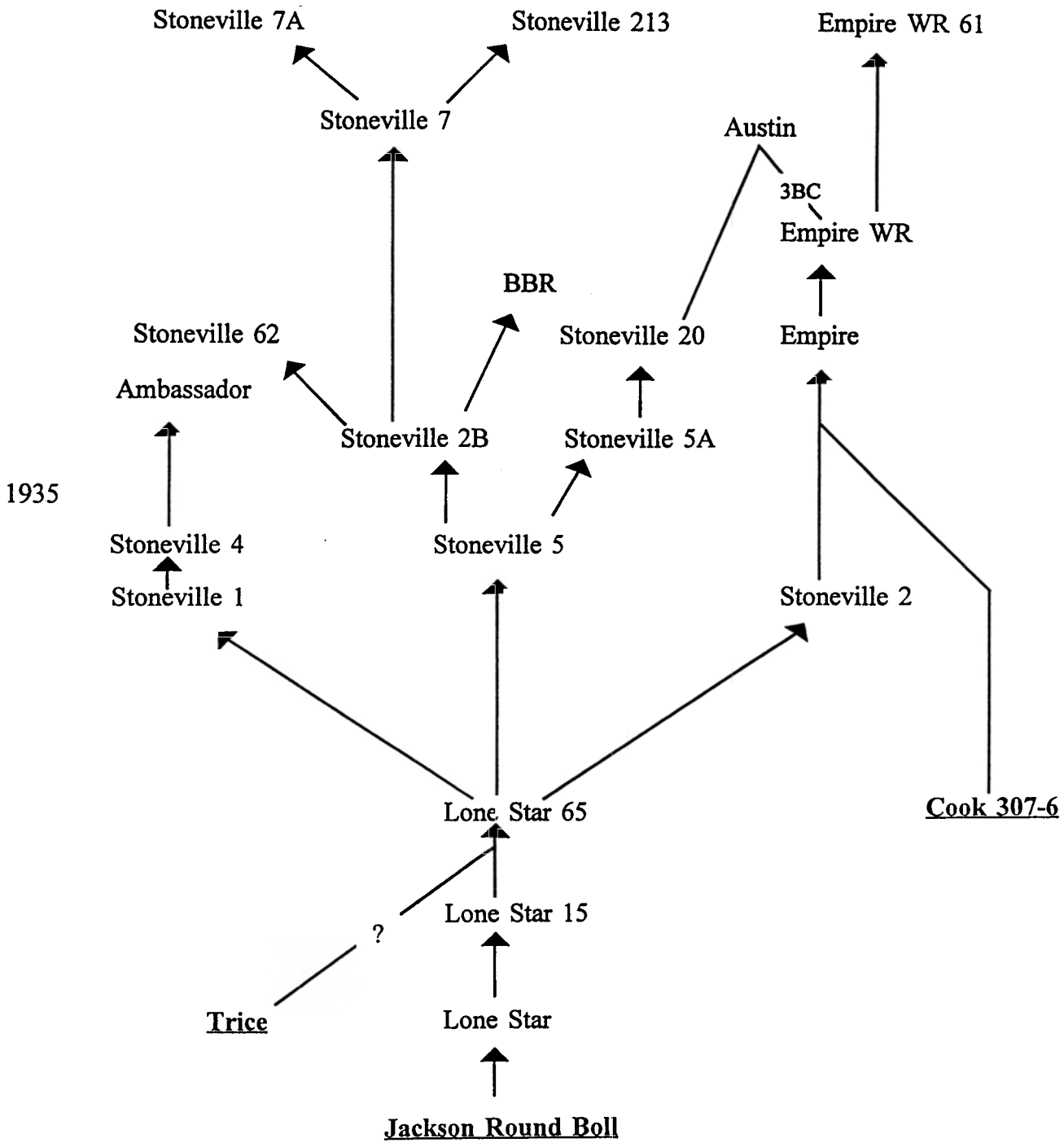


Figure 4. Development of Stoneville, Empire and Austin Cottons. Underline and boldface type indicate germplasm sources that appear in previous figure(s). Question mark (?) indicates possible outcross parent. (Figure redrawn from Ramey, 1966.)

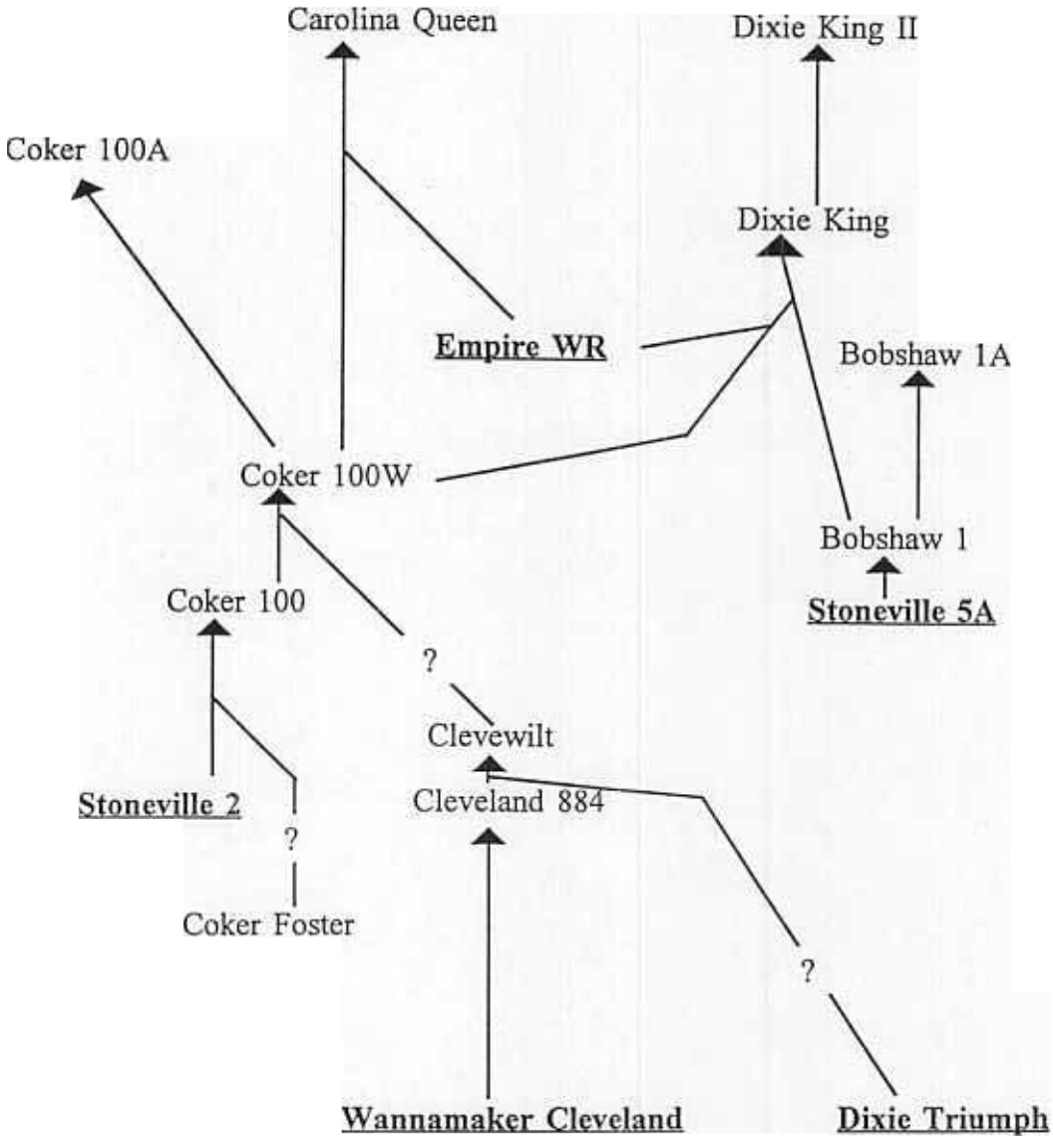


Figure 5. Development of Coker and Dixie King cottons. Underline and boldface type indicate germplasm sources that appear in previous figure(s). Question mark (?) indicates (possible outpocross parents. (Figure redrawn from Ramey, 1966.)

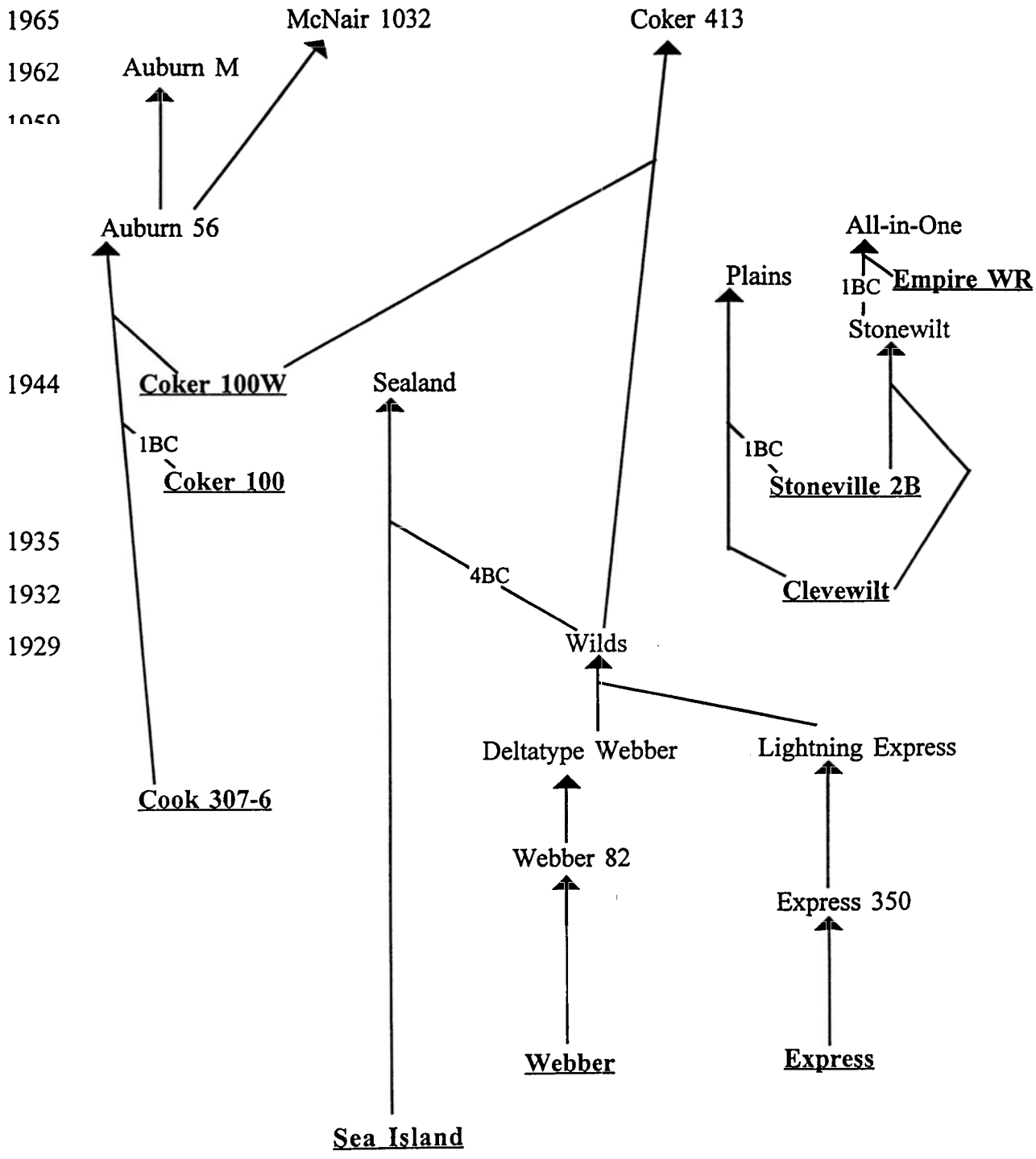


Figure 6. Development of Auburn 56 and Plains cottons. Underline and boldface type indicate germplasm sources that appear in previous figure(s). Question mark (?) indicates possible outcross parent. (Figure redrawn from Ramey, 1966.)

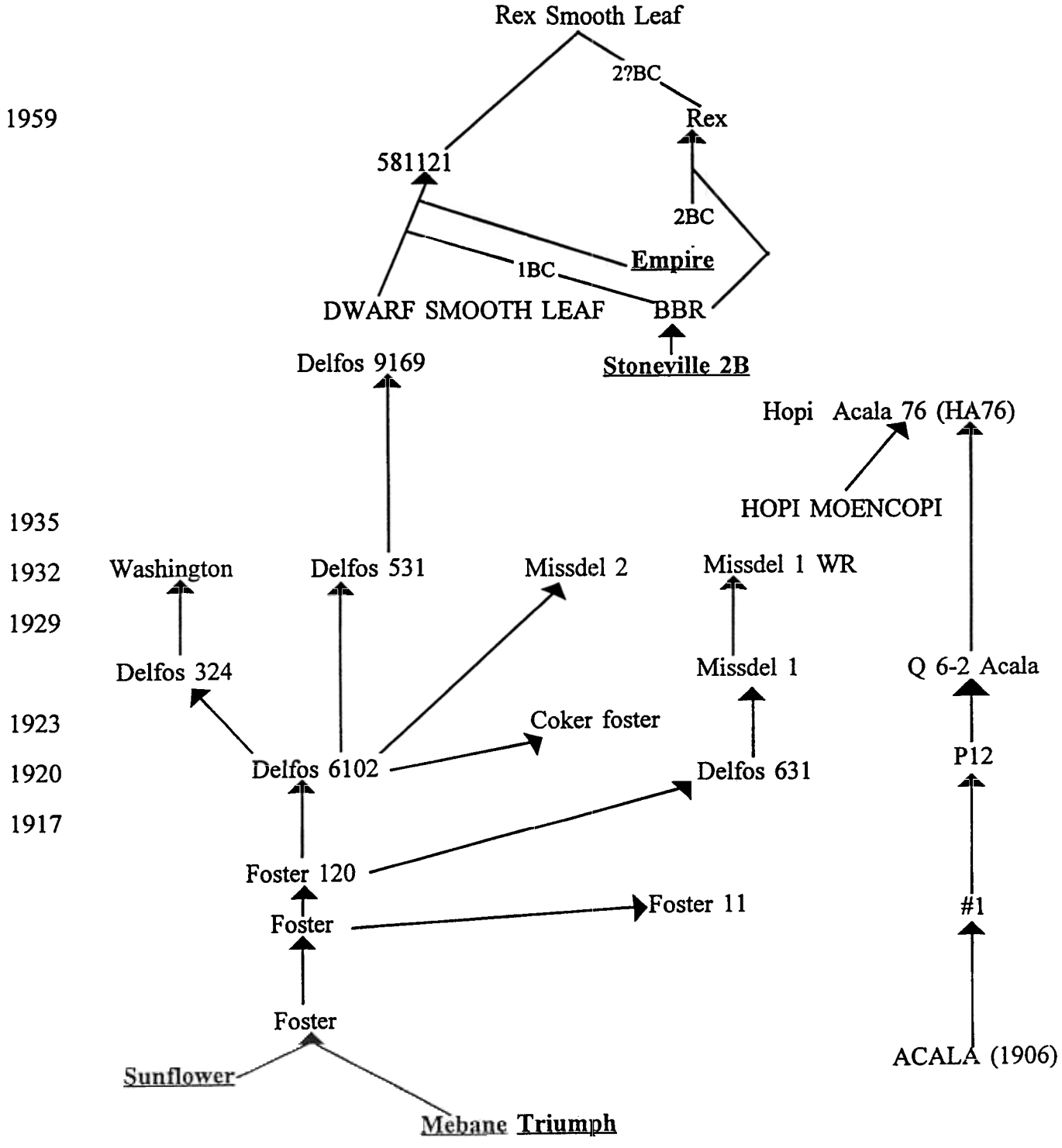


Figure 7. Development of Rex, Delfos, and Hopi Acala 76 cottons. All uppercase letters indicate original or new sources of germplasm. Underline and boldface type indicate germplasm sources that appear in previous figure(s). "BC" indicates number of backcrosses to recurrent parent. (Figure redrawn from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

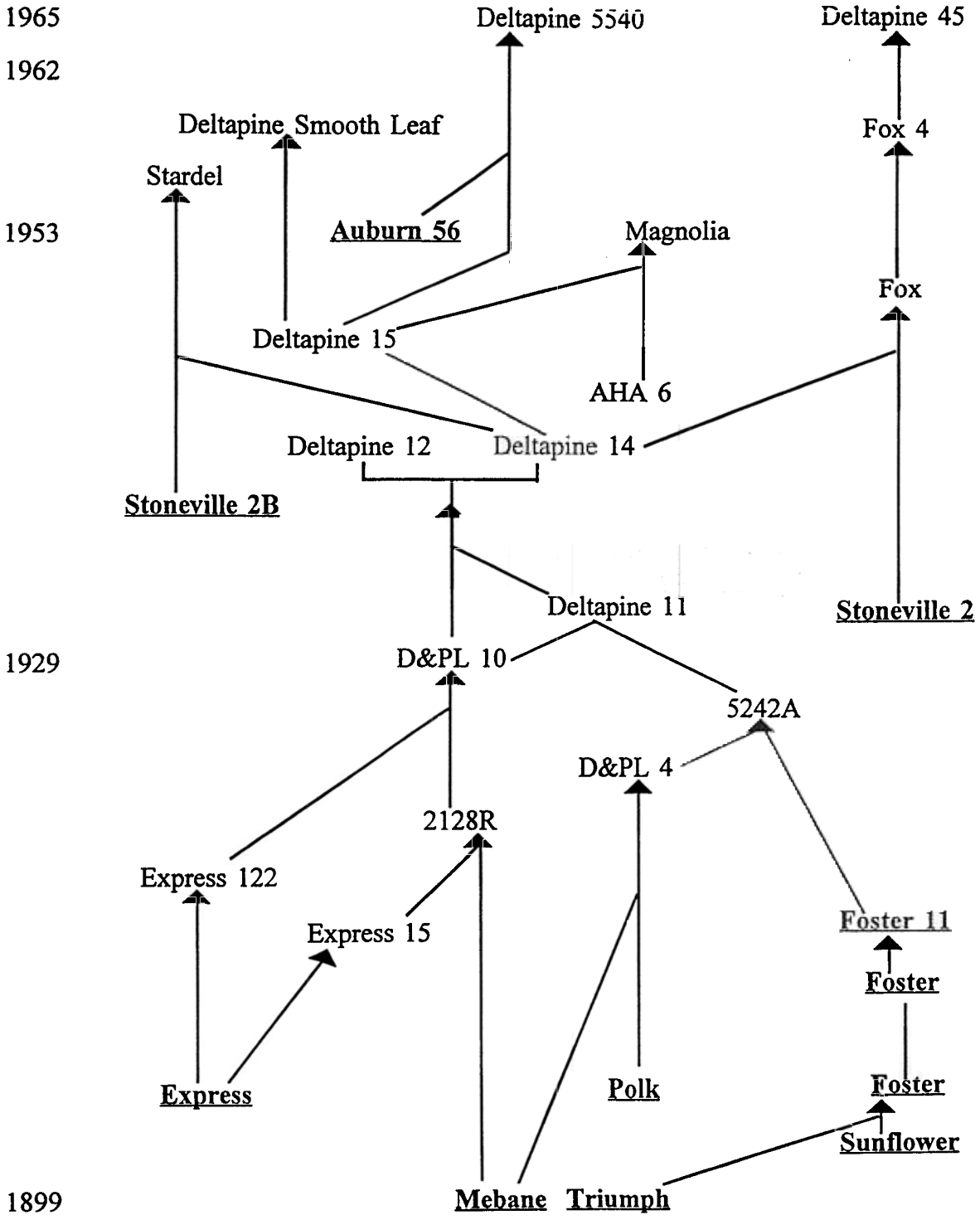


Figure 8. Development of Deltapine cottons. Underline and boldface type indicate germplasm sources that appear in previous figure(s). Development of AHA6 given in Figure 10. (Figure redrawn from Ramey, 1966.)

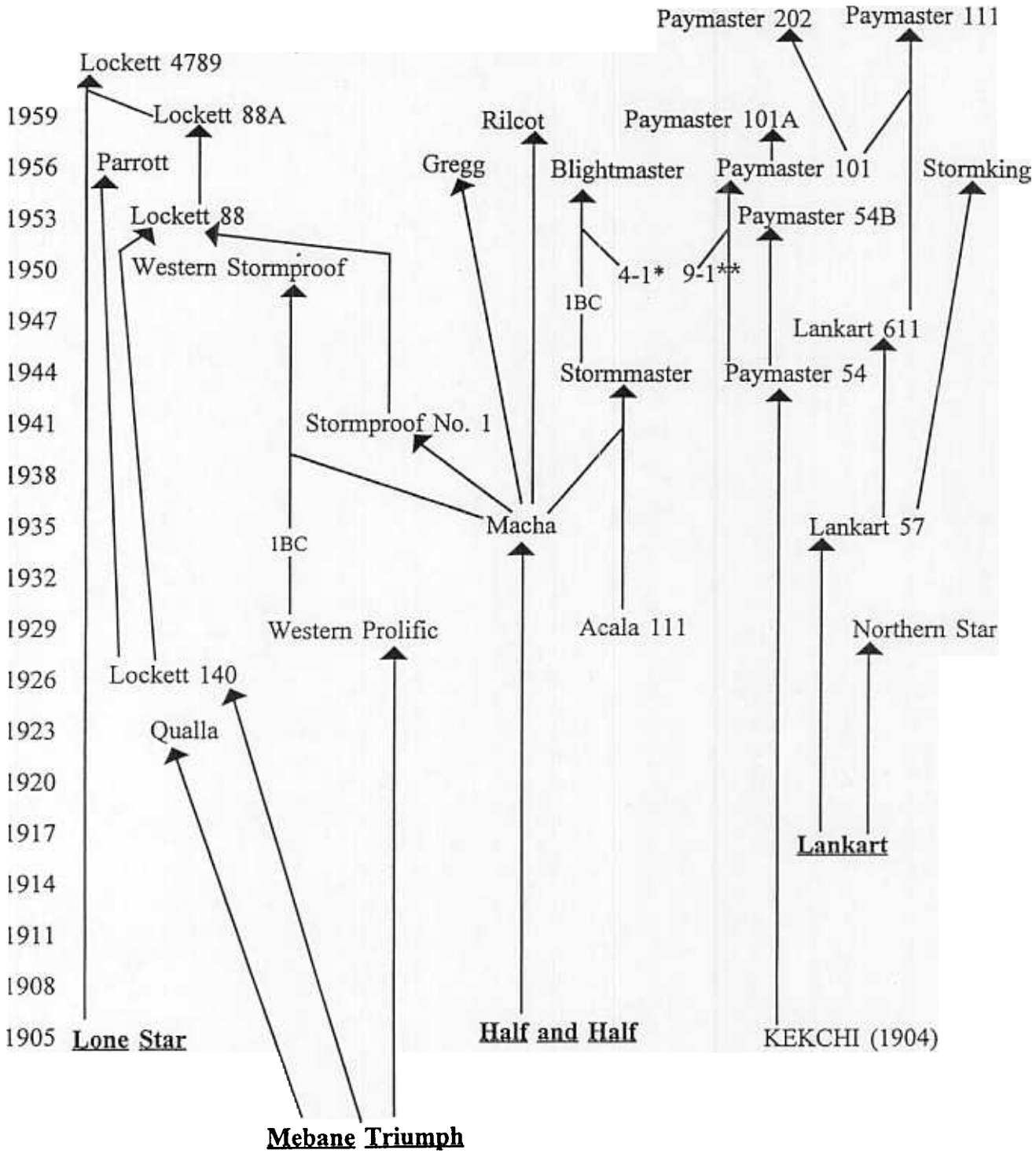


Figure 9. Development of Plains cotton. Underline and boldface type indicate germplasm sources that appear in previous figure(s). All uppercase letters indicate original or new sources of germplasm. Development of Acala 111 given in Figure 10. "BC" indicates number of backcrosses to recurrent parent.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

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

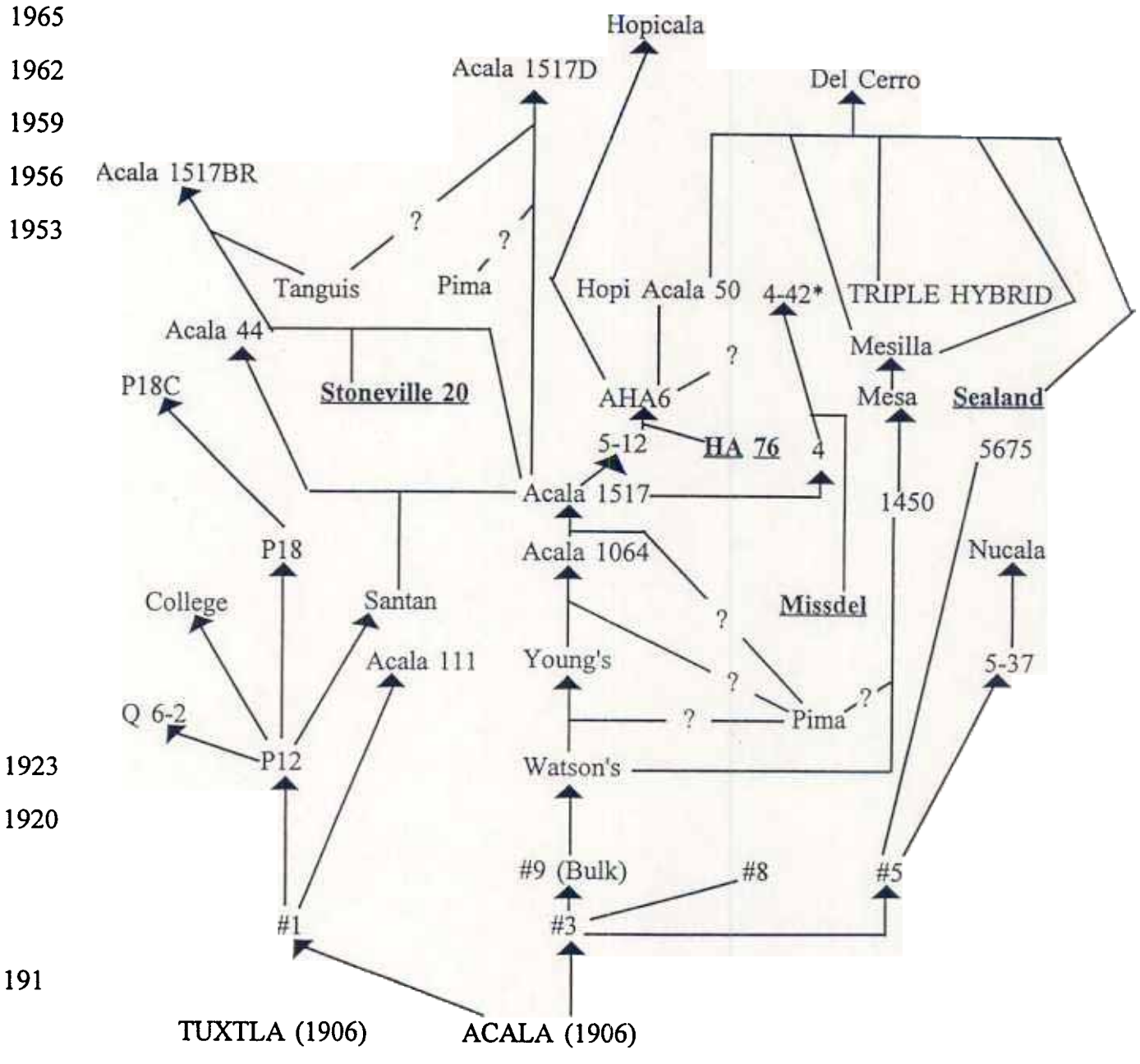


Figure 10. Development of Acala cottons. Introductions or new germplasm indicated by all uppercase letters; underline and boldface type indicate germplasm sources that appear in previous figure(s). Question mark (?) indicates possible outcross parent. **(Figure redrawn from Ramey, 1966.)**

*** Acala 4-42**

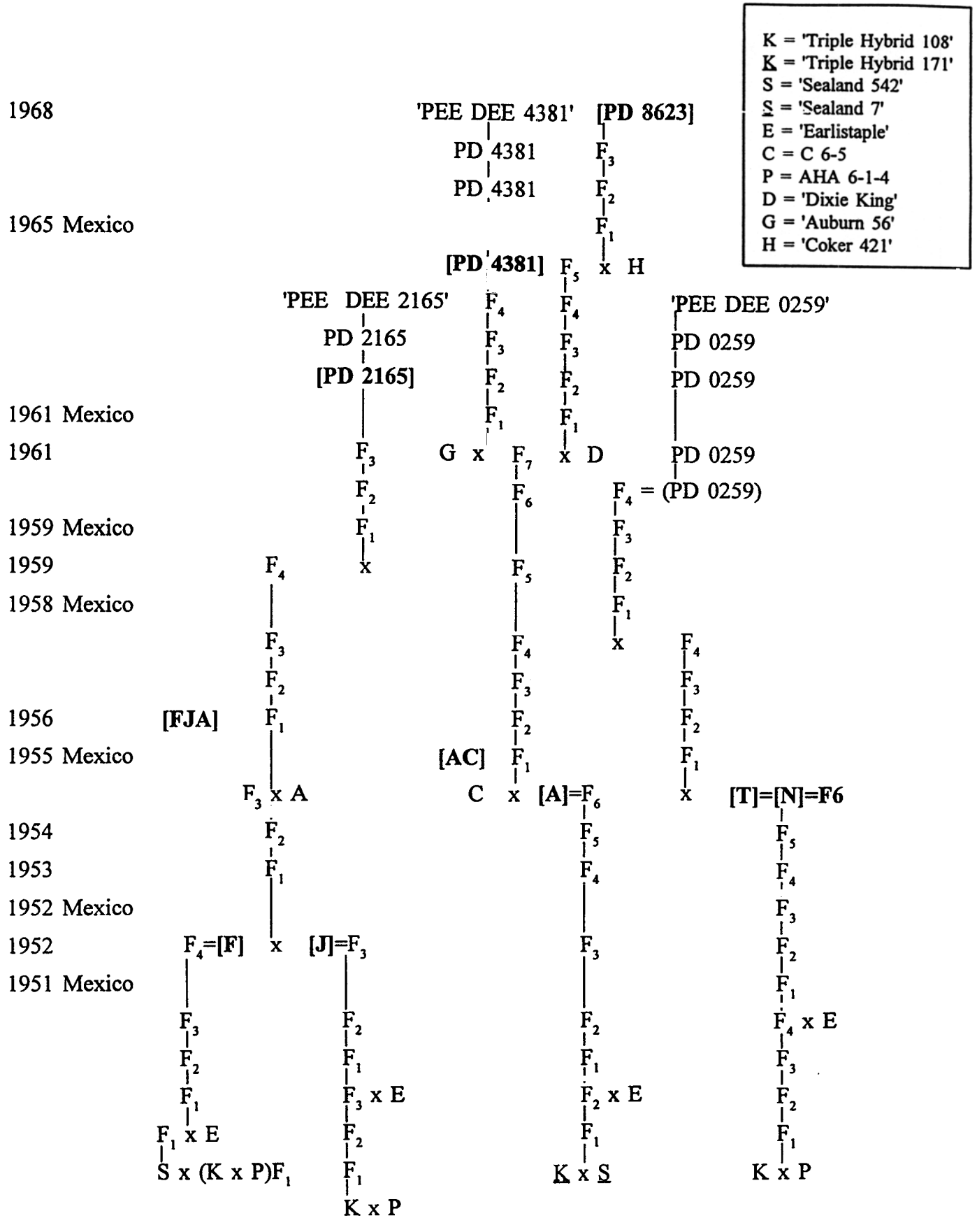


Figure 11. Development of PeeDee germplasm. Boldface letters in brackets indicate PD strains identified in preceding tables (Figure adapted from Culp and Harrell, 1974.)

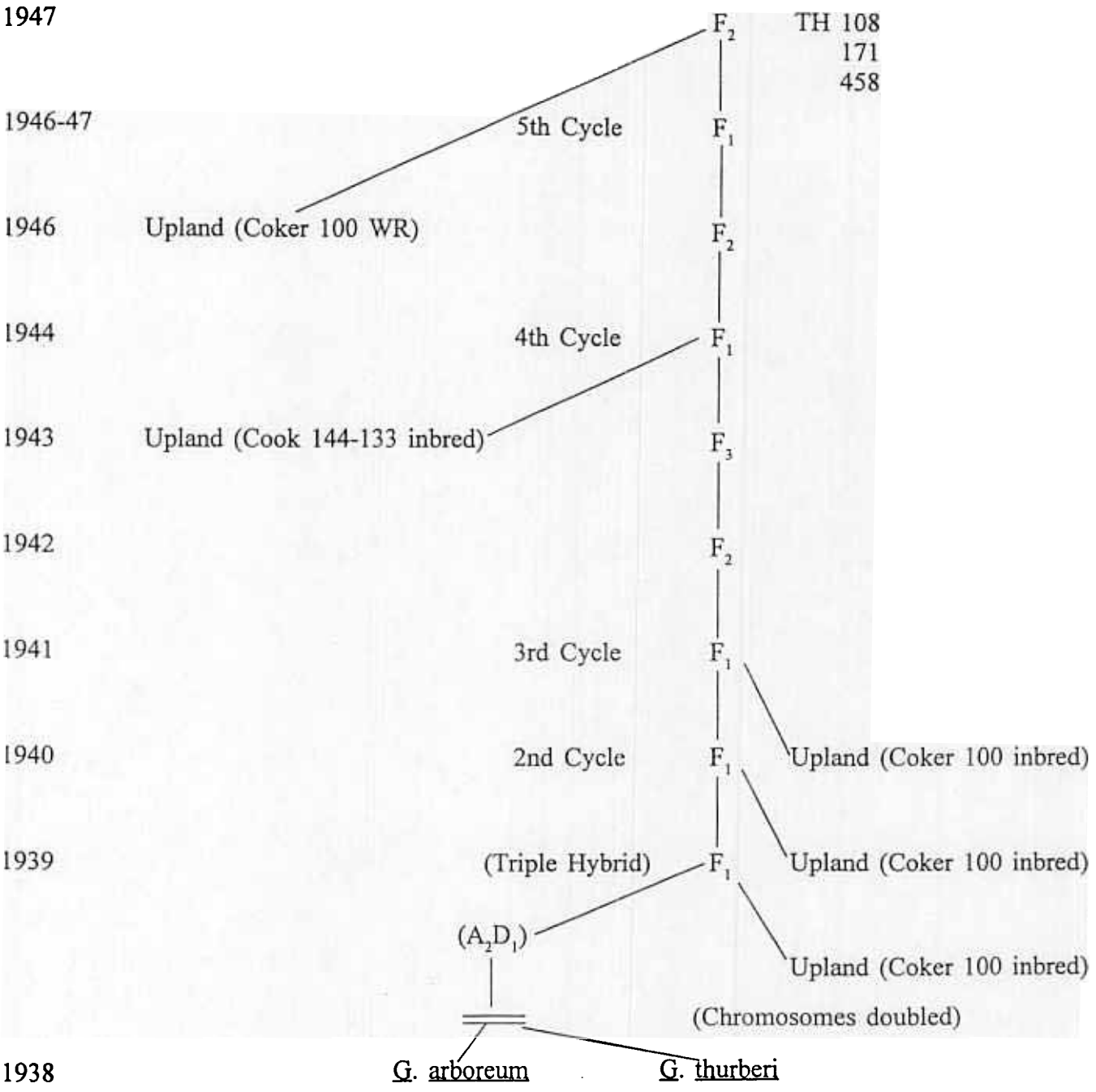


Figure 12. Development of Triple Hybrids 108, 171, and 458. (Figure adapted from an unpublished figure by Thomas Kerr, about 1969.)

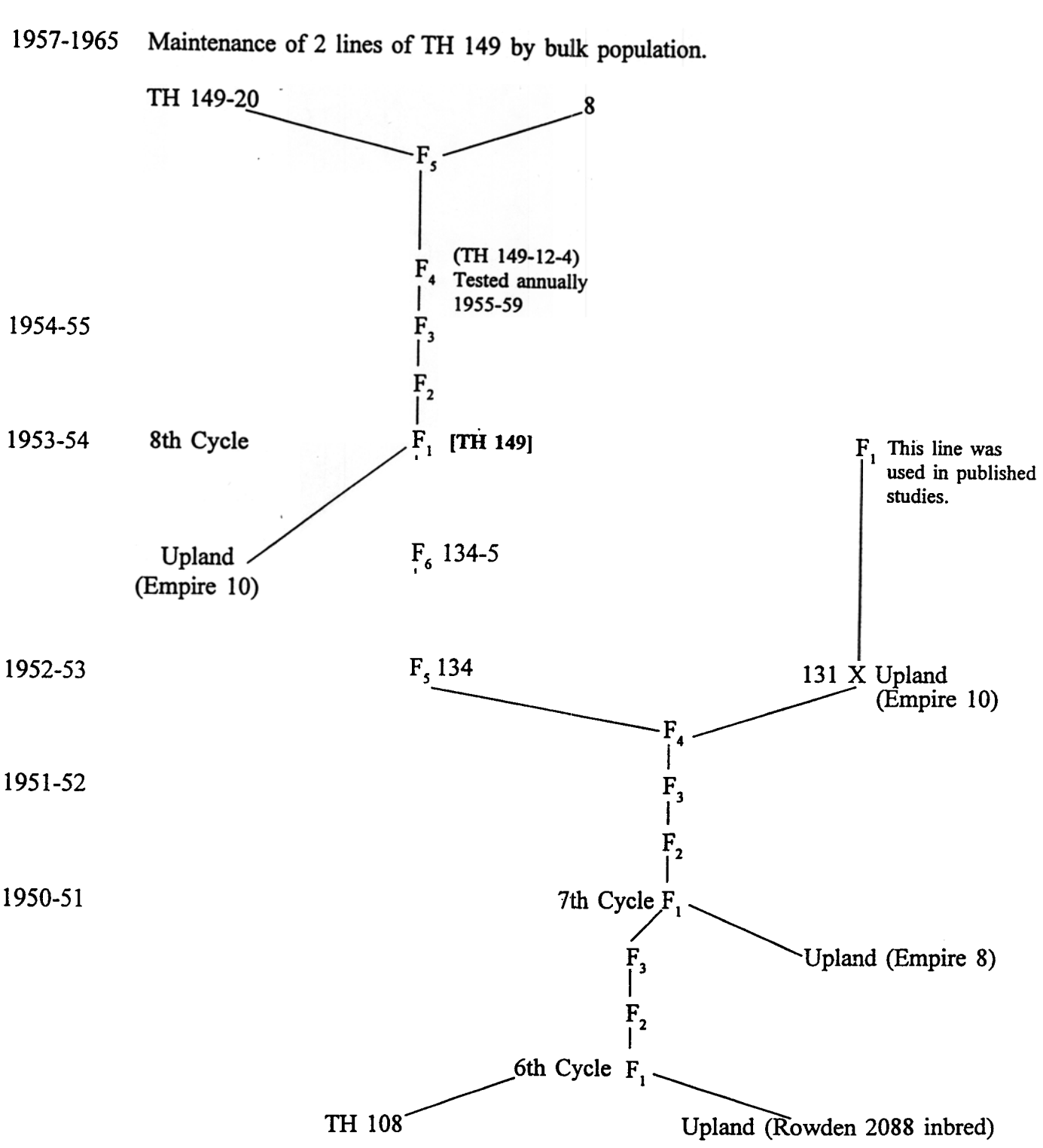


Figure 13. Development of Triple Hybrid 149. (Figure adapted from an unpublished figure by Thomas Kerr, about 1969.)

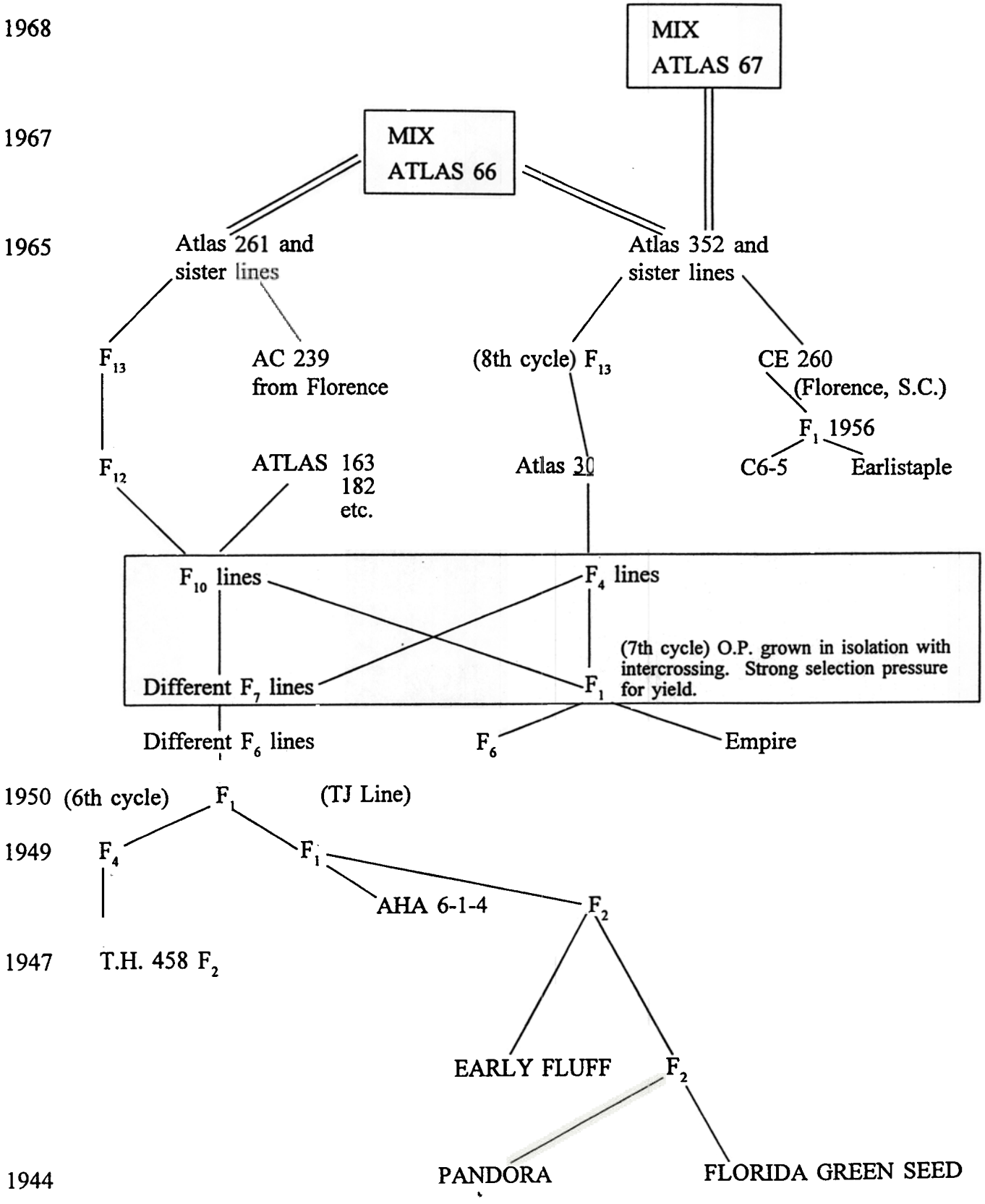


Figure 14. Development of Atlas lines. (Figure adapted from an unpublished figure by Thomas Kerr, about 1969.)

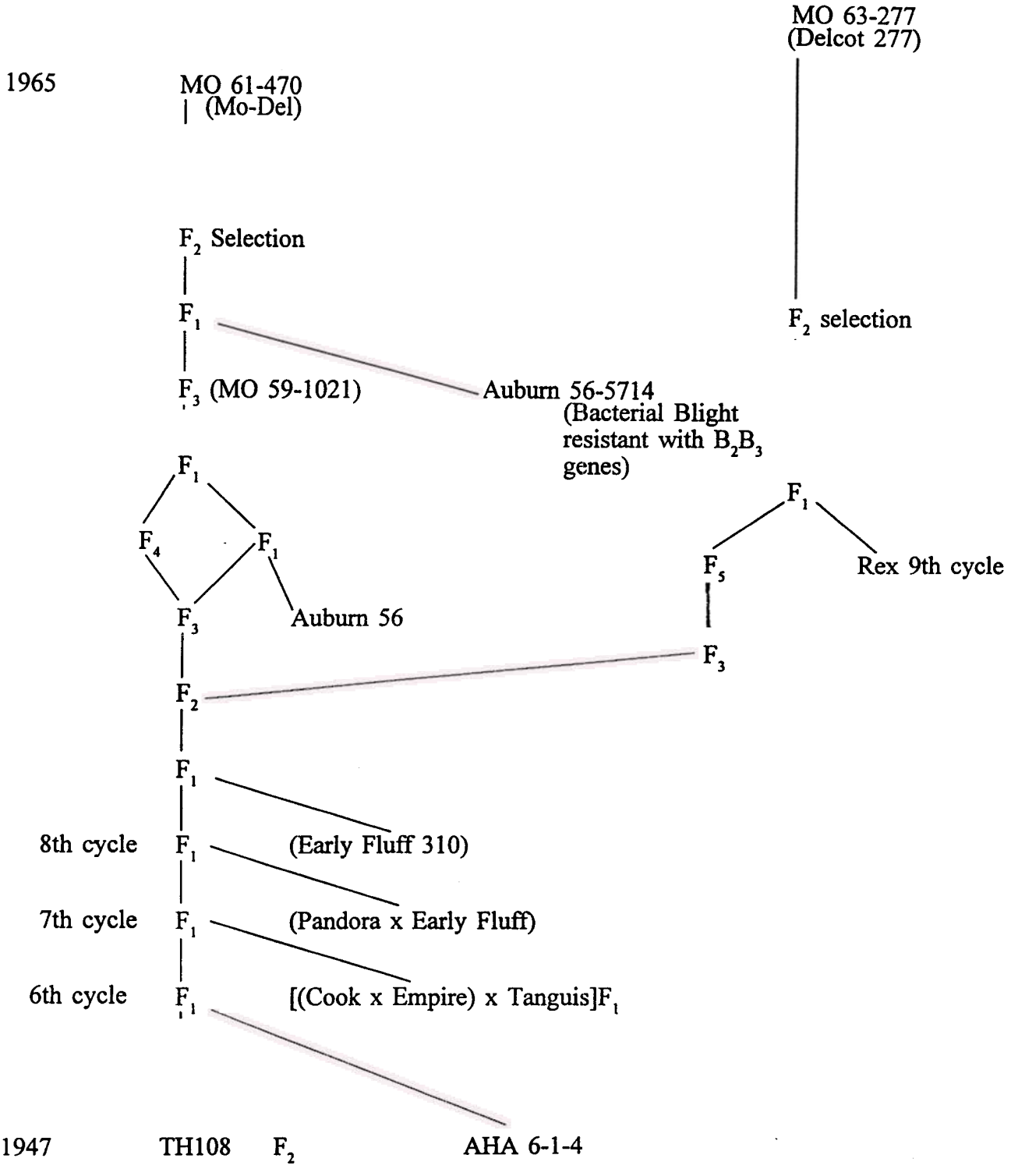


Figure 15. Development of Missouri lines and cultivars. (Figure adapted from an unpublished figure by Thomas Kerr, about 1969.)

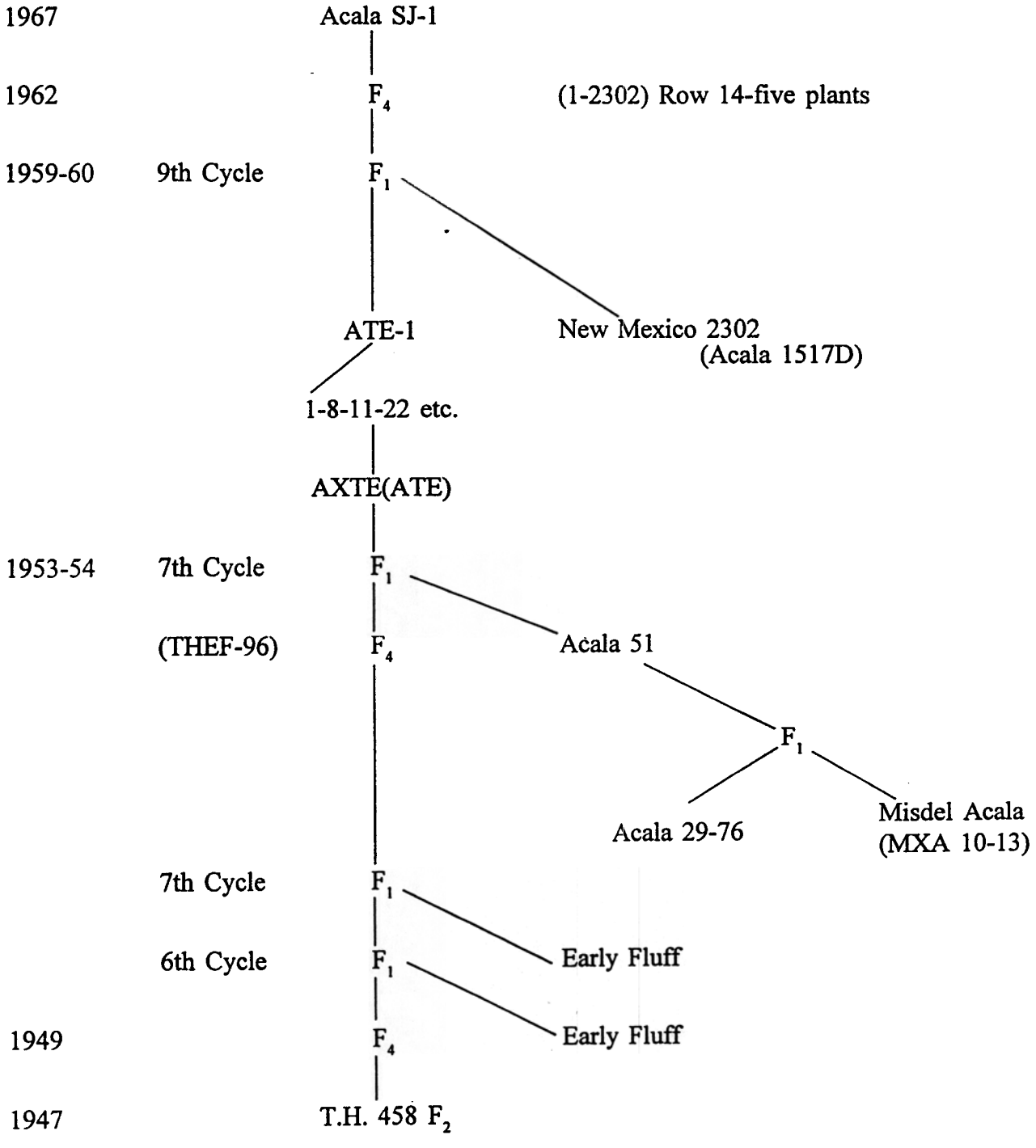
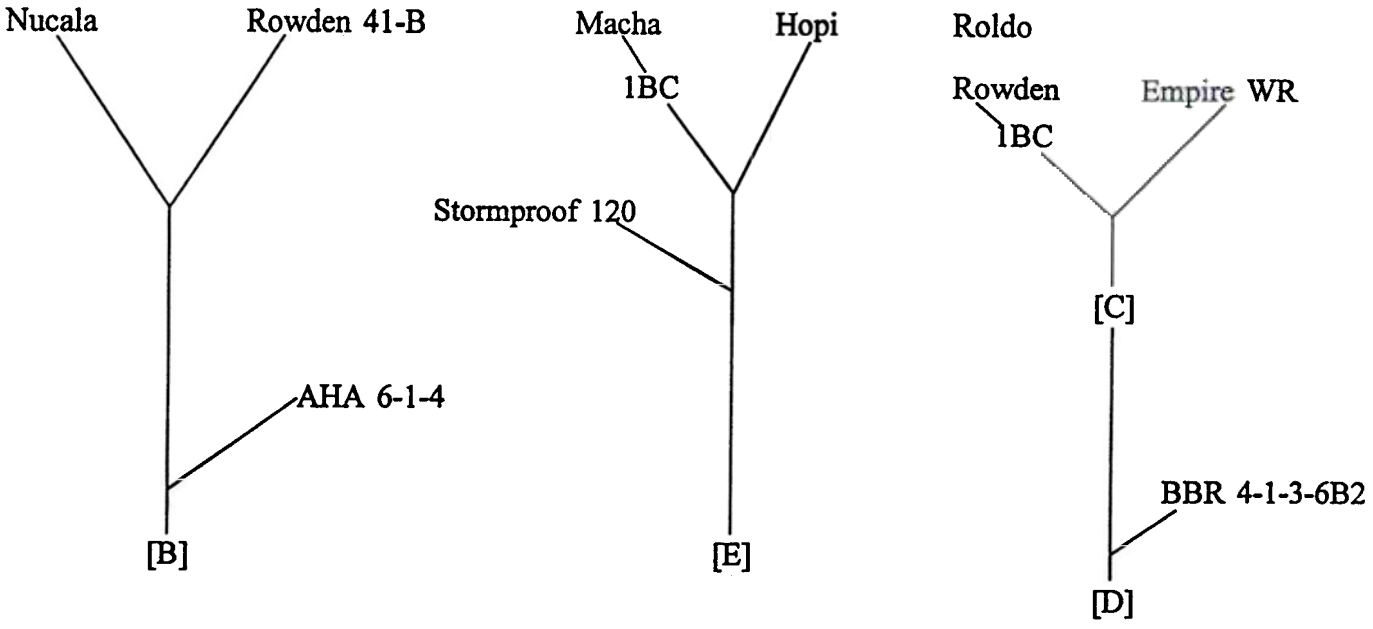


Figure 16. Development of Acala SJ-1. (Figure adapted from an unpublished figure by Thomas Kerr, about 1969.)



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 Metzer et al., 1984.)