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EXPERIMENTAL CORN HYBRIDS

1960

D. L. THOMPSON

DEPARTMENT OF FIELD CROPS

NORTH CAROLINA STATE COLLEGE

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C O N T E N T S

INTRODUCTION

The purpose of this report is to present information on experimental corn hybrids. This information is of value primarily to the producers of hybrid seed. Information presented herein includes all data obtained in 1960 on experimental hybrids having possible value to seed producers. Where possible summaries are presented combining 1959 and 1960 data. All data should be considered as preliminary information and should be used primarily as a guide to the selection of combinations which may prove usable in commercial production.

An experimental release policy is currently in force which makes possible the release of most experimental corn hybrid pedigrees for production under private brand designation. Interested parties should contact R. W. McMillen, Manager of the N. C. Foundation Seed Producers, for additional information. In most cases advance arrangements will have to be made for seed stocks.

ADVANCED DOUBLE CROSS TEST. Sixty-four hybrids were tested. Of these 38 were experimental hybrids tested previously in 1959, 17 were experimental hybrids tested for the first time in 1960 and 9 were check hybrids. Several summaries of results are presented and the experiments included in each summary are indicated on the headings of the tables. The individual experiment results obtained in 1960 are presented following the summaries. To determine the pedigrees of experimental hybrids it will be necessary to consult page 4, "Pedigrees - Advanced Double Crosses."

DUPLICATE DOUBLE CROSSES. Fifty hybrids were tested. Of these 48 were experimental double crosses and 2 were check hybrids. These tests were grown primarily to study the relative ear heights of 24 single crosses in crosses with a normal male and with a dwarf male. Since yield was given only minor consideration in choosing the entries for this test, only a few of the entries merit serious consideration by seed producers. Experiments included in the summaries are show in the table headings. Individual experiment results are presented following the summaries. Pedigrees are shown on page 5.

TOP CROSS TEST I. Fifty-six hybrids were tested. Of these 49 were new experimental double crosses and 7 were check hybrids. The 49 experimental double crosses had C3SA7 x HG4 as one parent. Experiments

included in the summary are shown on the table heading. Individual experiment results are presented following the summary.

TOP CROSS TEST II. Sixty-four hybrids were tested. Of these 54 were new experimental double crosses and 10 were check hybrids. The 54 experimental double crosses had NC222 x NC83 as the one parent. Experiments included in the summary are shown in the table heading. Individual experiment results are presented following the summary.

Tests were grown on N. C. Department of Agriculture Research Stations and on private farms as follows:

Station or Farm	Locality
Coastal Plain Research Station	Willard
Upper Coastal Plain Research Station	Rocky Mount
Tidewater Research Station	Plymouth
Peanut Belt Research Station	Lewiston
Piedmont Research Station	Salisbury
Watson Seed Farms	Whitakers
Speight Seed Farms	Greenville

Three replications of each entry were grown at each location. The Advanced Double Crosses and Top Cross Tests I and II were grown in lattice designs. The Duplicate Double Cross Test was grown in a split-plot design. Plots at each location were as follows:

Location	Plot size	Row width	Plants/hill	Distance between hills
Willard	2 rows x 7 hills	42 inches	2	24 inches
Rocky Mount	2 rows x 7 hills	36 inches	2	24 inches
Plymouth	2 rows x 7 hills	39 inches	2	24 inches
Lewiston	2 rows x 7 hills	36 inches	2	24 inches
Salisbury	2 rows x 7 hills	39 inches	2	24 inches
Whitakers	2 rows x 10 hills	40 inches	1	18 inches
Greenville	2 rows x 10 hills	42 inches	1	15 inches

Table Heading Abbreviations

Y = Yield, Bushels per Acre
E/P = Ears per Plant, Number
EW = Ear Weight, Pounds
RL = Root Lodged Plants, %
SL = Stalk Lodged Plants, %
EH = Ear Height, Feet
S = Total Stand, %
M = Moisture, %

Pedigrees - Advanced Double Crosses

NC No.	Pedigree	
NC 0008	C3SA7 x HG4	NC222 x NC83
NC 0011	UL14 x DP10,2U	CI.21 x GT112
NC 0012	G3D3 x L4D3	8HL6 x 8LP2
NC 0013	F6 x F44	G3D3 x L3D4
NC 0014	G2D2 x L2D2	UL14 x DP10,2U
NC 0015	G2D2 x L2D3	UL14 x DP10,2U
NC 0016	T3HB4 x UL14	DP10,2U x L4D2
NC 0017	G3D3 x L4D3	DP10,2U x UL14
NC 0019	G3D3 x L4D3	UL14 x DP10,2U
NC 0020	T3HB4 x 73HB10	G3D3 x L3D4
NC 0021	T3HB4 x 73HB10	CI.21 x GT112
NC 0022	T3HB4 x UL14	NC222 x DP10,2U
NC 0023	G3D3 x L4D3	NC222 x DP10,2U
NC 0024	G3D3 x L4D2	UL14 x DP10,2U
NC 0026	8HL6 x 8LP2	T3HB4 x 73L200
NC 9211	T3HB4 x 7HB28	G3D,LN x C3SA
NC 9203A	THB8 x 7HB28	C3SA 7 x HG4

Single Crosses listed under "Hybrid" in yield test listing are one-half of double cross pedigree. The first digit of the 5 digit number following the single cross indicates the other half of the pedigree as follows:

1 = 9N6 x UL14

2 = 8LP2 x 8HL6

4 = G2D2 x L2D2

6 = NC222 x NC83

8 = 8HL6 x US40

The other 4 digits following the single cross identify the seed source.

Pedigrees - Duplicate Double Crosses

NC No.	Pedigree	
9034	T,3HB4 x NC220	G,3D x C,2U
9035	T204 x NC220	GT112 x CI.21
9036	T204 x 6K83	G,3D x C,2U
9037	T204 x 6K83	GT112 x CI.21
9038	T204 x 6K27	G,3D x C,2U
9039	T204 x 6K27	GT112 x CI.21
9040	T204 x DP10	G,3D x C,2U
9041	T204 x DP10	GT112 x CI.21
9042	T204 x 4K7	G,3D x C,2U
9043	T204 x 4K7	GT112 x CI.21
9044	T204 x 9N3	G,3D x C,2U
9045	T204 x 9N3	GT112 x CI.21
9046	T204 x FU3	G,3D x C,2U
9047	T204 x FU3	GT112 x CI.21
9048	T204 x FU4	G,3D x C,2U
9049	T204 x FU4	GT112 x CI.21
9050	T204 x YT1	G,3D x C,2U
9051	T204 x YT1	GT112 x CI.21
9052	Mo.0225 x Mp 444	G,3D x C,2U
9053	Mo.0225 x Mp 444	GT112 x CI.21
9054	Mp 444 x Mo.3	G,3D x C,2U
9055	Mp 444 x Mo.3	GT112 x CI.21
9056	Mo.0225 x NC218	G,3D x C,2U
9057	Mo.0225 x NC218	GT112 x CI.21
9058	Mp 444 x NC218	G,3D x C,2U
9059	Mp 444 x NC218	GT112 x CI.21
9060	Mo.0225 x NC220	G,3D x C,2U
9061	Mo.0225 x NC220	GT112 x CI.21
9062	NC222 x Mo.0225	G,3D x C,2U
9063	NC222 x Mo.0225	GT112 x CI.21
9064	Mo.01930 x NC222	G,3D x C,2U
9065	Mo.01930x NC222	GT112 x CI.21
9066	Mp 444 x NC220	G,3D x C,2U
9067	Mp 444 x NC220	GT112 x CI.21
9068	NC218 x NC222	G,3D x C,2U
9069	NC218 x NC222	GT112 x CI.21
9070	NC218 x NC224	G,3D x C,2U
9071	NC218 x NC224	GT112 x CI.21
9076	8LP2 x K5Y6	G,3D x C,2U
9077	8LP2 x K5Y6	GT112 x CI.21
9078	NC224 x K5Y6	G,3D x C,2U
9079	NC224 x K5Y6	GT112 x CI.21
9084	NC222 x 8J2	G,3D x C,2U
9085	NC222 x 8J2	GT112 x CI.21
9086	NC220 x YT1	G,3D x C,2U
9087	NC220 x YT1	GT112 x CI.21
9088	L101 x NC83	G,3D x C,2U
9089	L101 x NC83	GT112 x CI.21

SUMMARY 88

A D V A N C E D D O U B L E C R O S S E S

WILLARD (1), ROCKY MOUNT (11), PLYMOUTH (30), LEWISTON (51), WHITAKERS (81), GREENVILLE (21)

	Entry	Hybrid		Y	E/P	EW	RL*	SL**	EH	S	
88	27	NC83 XT3HB4	45442	99.0	1.35	0.49	11.4	74.2	4.4	97.1	
88	58	N C 270		97.9	1.16	0.56	18.6	62.2	4.7	97.7	
88	62	DIXIE 29		97.8	1.37	0.47	05.4	77.1	4.2	98.0	
88	30	T3HB4XNC220	45486	97.3	1.34	0.48	15.4	71.4	4.5	97.8	
88	36	T3HB4X73L2	45470	96.7	1.37	0.47	08.4	69.2	4.0	96.9	
88	31	NC83 X73L2	45466	96.0	1.40	0.46	01.8	81.8	4.2	97.8	
88	16	8LP2 XNC224	45262	94.9	1.38	0.46	08.6	80.5	3.9	95.8	
88	33	T3HB4X7HB28	45458	94.6	1.31	0.49	07.3	74.3	4.1	95.4	
88	38	NC83 XNC222	85557	94.6	1.15	0.55	16.9	59.4	4.3	95.8	
88	59	N C 288		94.4	1.20	0.52	10.8	74.6	5.0	97.8	
88	18	THB8 X8HL6	65321	93.9	1.11	0.57	25.4	46.3	3.8	97.0	
88	46	NC0008		93.9	1.05	0.60	10.1	72.7	4.2	96.2	
88	49	NC0021		93.8	1.16	0.53	20.1	65.1	4.5	97.6	
88	29	NC220X7HB28	45494	93.7	1.34	0.46	03.8	85.5	4.2	97.8	
88	37	C2SA XNC220	45490	93.7	1.31	0.49	03.2	78.8	4.4	95.8	
88	56	PIONEER 3098		93.5	1.23	0.52	03.1	78.6	3.9	96.6	
88	35	T3HB4XUS18	45530	93.1	1.30	0.49	21.1	60.1	4.4	94.8	
88	1	7HB28XNC222	15084	92.6	1.03	0.60	20.9	58.0	3.9	98.3	8
88	28	NC83 X7HB28	45450	92.6	1.36	0.46	05.1	84.4	4.1	95.6	
88	57	COKER 811		92.4	1.41	0.44	20.5	40.1	4.7	96.9	
88	60	DIXIE 82		92.2	1.27	0.48	09.2	78.3	5.1	97.3	
88	22	8LP2 X8HL6	65289	91.9	1.11	0.55	26.2	44.8	3.9	97.0	
88	17	THB8 XNC224	45306	91.7	1.24	0.51	09.7	75.0	4.0	96.1	
88	19	THB8 XK5Y6	45342	91.7	1.19	0.51	04.8	64.2	4.3	97.6	
88	23	7HB28X8HL6	65301	91.2	1.11	0.55	24.6	59.8	3.8	96.4	
88	6	C2SA X7HB28	15048	91.1	1.05	0.59	20.3	69.1	4.0	95.8	
88	20	THB8 X7HB28	45314	90.9	1.25	0.49	09.3	62.8	4.1	96.6	
88	21	THB8 X7HB28	65317	90.9	1.05	0.57	23.2	58.4	3.8	97.8	
88	54	NC9211		90.8	1.15	0.52	16.9	79.4	3.9	98.6	
88	26	8HL6 XK5Y6	65341	90.5	1.16	0.52	12.6	67.5	3.7	98.8	
88	24	8LP2 XTHB8	45302	90.4	1.16	0.52	11.7	78.4	3.9	96.6	
88	11	C2SA X73L9	15020	90.1	1.08	0.56	24.6	65.1	4.0	96.2	
88	3	T3HB4X7HB28	15044	89.5	1.10	0.54	25.0	71.0	3.9	97.8	
88	48	NC0020		89.4	1.12	0.52	16.9	57.9	4.4	98.0	
88	13	NC222XHG4	15112	89.2	1.04	0.58	24.8	52.2	4.0	95.3	
88	50	NC0022		88.6	1.03	0.58	27.1	48.4	4.0	95.8	
88	7	HG4 X7HB28	15108	88.5	1.11	0.55	17.8	56.0	3.9	95.1	
88	32	C2SA XNC224	45594	88.4	1.28	0.45	13.2	76.1	4.0	98.0	
88		OVERALL GROUP MEAN		88.4	1.16	0.51	16.1	63.0	4.0	96.9	
88	25	8LP2 X7HB28	65273	88.2	1.09	0.54	13.3	68.3	3.7	97.6	
88	55	NC9203A		87.9	1.01	0.58	11.0	58.2	3.8	95.4	
88	39	NC0011		87.6	1.14	0.52	18.1	49.6	4.7	95.6	
88	51	NC0023		87.6	1.13	0.52	32.8	43.6	4.0	97.7	
88	4	C2SA XNC222	25069	87.2	0.98	0.60	30.2	45.2	3.9	96.8	
88	10	NC222XRS14	25141	87.1	1.04	0.56	37.2	43.8	3.7	97.6	

*Root Lodging data taken at Willard and Lewiston.

**Stalk " " " " " , Rocky Mount and Lewiston.

SUMMARY 88 continued

	Entry	Hybrid		Y	E/P	EW	RL*	SL**	EH	S
88	40	NC0012		86.8	1.10	0.53	22.7	40.8	4.2	96.8
88	41	NC0013		86.7	1.30	0.45	10.4	70.9	4.8	97.0
88	8	T3HB4X73L9	15012	86.6	1.11	0.52	16.7	75.2	3.6	99.0
88	9	NC224X7HB28	15060	86.6	1.13	0.51	14.3	71.8	3.7	98.0
88	61	DIXIE 18		86.5	1.32	0.45	25.3	56.2	5.5	94.6
88	64	N C 27		86.2	1.27	0.45	05.4	79.0	4.7	97.7
88	63	N C 42		85.8	1.26	0.48	12.2	79.8	5.0	91.0
88	34	NC224X7HB28	45598	85.7	1.35	0.43	01.8	68.8	3.7	97.8
88	5	C2SA XRS14	15120	85.4	1.04	0.55	19.3	68.9	4.0	98.2
88	14	T3HB4XRS14	25117	85.0	1.07	0.53	17.3	63.2	3.4	97.5
88	12	C2SA XRS14	25121	84.8	1.03	0.54	21.3	45.6	3.6	97.1
88	2	T3HB4XHG4	25089	83.8	1.01	0.55	26.2	49.2	3.6	98.2
88	53	NC0026		82.1	1.05	0.52	18.0	61.4	3.7	97.4
88	15	T3HB4XNC224	25029	79.8	1.09	0.48	26.2	62.4	3.6	97.6
88	44	NC0016		77.4	1.06	0.50	14.4	56.4	3.8	94.5
88	45	NC0017		72.4	1.02	0.46	13.4	42.9	3.0	98.0
88	47	NC0019		69.9	1.00	0.46	11.9	44.0	3.0	99.0
88	42	NC0014		67.3	1.13	0.41	16.9	49.4	3.2	96.5
88	43	NC0015		66.7	1.00	0.44	20.6	37.7	2.7	96.9
88	52	NC0024		63.9	0.92	0.46	18.2	40.6	3.0	96.2

L. S. D. (.05) = 7.85
(.01) = 10.34

C. V. - 14%

SUMMARY 84

A D V A N C E D D O U B L E C R O S S E S

WILLARD (1), ROCKY MOUNT (11), PLYMOUTH (30), LEWISTON (51), GREENVILLE (21)

	Entry	Hybrid		Y	E/P	EW	RL*	SL**	EH	S
84	58	N C 270		98.9	1.12	0.55	18.6	62.2	4.8	97.3
84	27	NC83 XT3HB4	45442	96.6	1.27	0.48	11.4	74.2	4.4	96.6
84	62	DIXIE 29		96.0	1.30	0.46	05.4	77.1	4.2	97.6
84	30	T3HB4XNC220	45486	95.8	1.31	0.46	15.4	71.4	4.5	97.4
84	59	N C 288		94.8	1.14	0.51	10.8	74.6	5.0	97.4
84	38	NC83 XNC222	85557	94.2	1.11	0.54	16.9	59.4	4.3	95.0
84	36	T3HB4X73L2	45470	94.1	1.30	0.46	08.4	69.2	4.0	96.9
84	18	THB8 X8HL6	65321	94.0	1.05	0.57	25.4	46.3	3.7	96.4
84	37	C2SA XNC220	45490	94.0	1.28	0.48	03.2	78.8	4.5	95.0
84	1	7HB28XNC222	15084	93.6	0.99	0.59	20.9	58.0	4.0	98.0
84	31	NC83 X73L2	45466	93.6	1.30	0.45	01.8	81.8	4.1	97.4
84	22	8LP2 X8HL6	65289	93.4	1.06	0.56	26.2	44.8	3.9	96.4
84	49	NC0021		93.3	1.11	0.52	20.1	65.1	4.5	97.1
84	23	7HB28X8HL6	65301	93.2	1.07	0.56	24.6	59.8	3.9	95.7
84	6	C2SA X7HB28	15048	93.1	1.02	0.59	20.3	69.1	4.0	95.6
84	35	T3HB4XUS18	45530	92.9	1.27	0.48	21.1	60.1	4.4	93.8
84	46	NC0008		92.6	1.01	0.58	10.1	72.7	4.2	95.4
84	21	THB8 X7HB28	65317	92.5	1.01	0.58	23.2	58.4	3.7	97.4
84	16	8LP2 XNC224	45262	92.1	1.29	0.46	08.6	80.5	4.0	95.0
84	29	NC220X7HB28	45494	92.0	1.27	0.45	03.8	85.5	4.2	97.4
84	13	NC222XHG4	15112	91.9	1.04	0.57	24.8	52.2	4.0	94.9
84	56	PIONEER 3098		91.9	1.16	0.51	03.1	78.6	3.9	96.0
84	55	NC9203A		91.9	1.02	0.58	11.0	58.2	3.8	94.5
84	60	DIXIE 82		91.7	1.21	0.48	09.2	78.3	5.0	96.8
84	33	T3HB4X7HB28	45458	91.6	1.23	0.48	07.3	74.3	4.2	94.8
84	54	NC9211		91.6	1.12	0.51	16.9	79.4	3.9	98.3
84	28	NC83 X7HB28	45450	91.4	1.29	0.46	05.1	84.4	4.1	94.7
84	17	THB8 XNC224	45306	91.1	1.18	0.50	09.7	75.0	4.0	95.6
84	11	C2SA X73L9	15020	90.5	1.06	0.54	24.6	65.1	4.0	95.5
84	24	8LP2 XTHB8	45302	90.5	1.10	0.52	11.7	78.4	3.9	95.9
84	57	COKER 811		90.2	1.31	0.44	20.5	40.1	4.7	96.3
84	39	NC0011		90.2	1.15	0.51	18.1	49.6	4.7	94.8
84	10	NC222XRS14	25141	90.1	1.02	0.56	37.2	43.8	3.7	97.1
84	40	NC0012		90.0	1.10	0.53	22.7	40.8	4.1	96.2
84	3	T3HB4X7HB28	15044	89.8	1.06	0.54	25.0	71.0	3.9	97.4
84	19	THB8 XK5Y6	45342	89.7	1.12	0.50	04.8	64.2	4.3	97.1
84	25	8LP2 X7HB28	65273	89.6	1.07	0.53	13.3	68.3	3.7	97.1
84	26	8HL6 XK5Y6	65341	89.6	1.08	0.51	12.6	67.5	3.8	98.6
84	7	HG4 X7HB28	15108	89.3	1.06	0.55	17.8	56.0	3.9	94.1
84	4	C2SA XNC222	25069	89.2	0.97	0.59	30.2	45.2	3.8	96.2
84	32	C2SA XNC224	45594	89.2	1.24	0.45	13.2	76.1	4.0	97.6
84	48	NC0020		89.2	1.09	0.51	16.9	57.9	4.4	97.6
84	51	NC0023		89.0	1.09	0.51	32.8	43.6	3.9	97.2
84		OVERALL GROUP MEAN		88.6	1.12	0.51	16.1	63.0	4.0	96.3
84	50	NC0022		88.4	1.00	0.57	27.1	48.4	4.0	95.0

*Root Lodging data taken at Willard and Lewiston.

**Stalk " " " " " , Rocky Mount and Lewiston.

SUMMARY 84 continued

	Entry	Hybrid		Y	E/P	EW	RL*	SL**	EH	S
84	61	DIXIE 18		88.2	1.30	0.44	25.3	56.2	5.6	93.6
84	20	TH88 X7HB28	45314	88.1	1.16	0.49	09.3	62.8	4.2	95.9
84	8	T3HB4X73L9	15012	87.9	1.09	0.50	16.7	75.2	3.6	98.8
84	5	C2SA XRS14	15120	87.6	1.02	0.54	19.3	68.9	4.1	97.8
84	9	NC224X7HB28	15060	87.2	1.06	0.51	14.3	71.8	3.7	97.6
84	2	T3HB4XHG4	25089	87.1	1.01	0.55	26.2	49.2	3.6	97.9
84	12	C2SA XRS14	25121	86.7	0.99	0.55	21.3	45.6	3.7	96.5
84	64	N C 27		86.7	1.24	0.44	05.4	79.0	4.8	97.3
84	41	NC0013		86.1	1.25	0.44	10.4	70.9	4.8	96.4
84	14	T3HB4XRS14	25117	85.9	1.03	0.53	17.3	63.2	3.4	97.0
84	63	N C 42		84.8	1.20	0.48	12.2	79.8	4.9	89.2
84	34	NC224X7HB28	45598	84.4	1.26	0.43	01.8	68.8	3.7	97.4
84	53	NC0026		83.6	1.03	0.51	18.0	61.4	3.6	96.9
84	15	T3HB4XNC224	25029	79.5	1.04	0.47	26.2	62.4	3.6	97.1
84	44	NC0016		78.7	1.07	0.48	14.4	56.4	3.7	93.4
84	45	NC0017		73.9	0.98	0.46	13.4	42.9	3.0	97.6
84	47	NC0019		70.3	0.96	0.45	11.9	44.0	3.0	98.8
84	42	NC0014		67.6	1.07	0.41	16.9	49.4	3.1	95.8
84	43	NC0015		64.8	0.94	0.43	20.6	37.7	2.7	96.2
84	52	NC0024		64.6	0.89	0.46	18.2	40.6	3.0	95.5

L. S. D. (.05) = 7.49

(.01) = 9.87

C. V. - 12%

SUMMARY 91

A D V A N C E D D O U B L E C R O S S E S

WILLARD (1), ROCKY MOUNT (11), PLYMOUTH (30), LEWISTON (51)

	Entry	Hybrid		Y	E/P	EW	RL*	SL**	EH	S
91	58	N C 270		102.0	1.07	0.55	18.6	62.2	4.8	97.0
91	59	N C 288		98.4	1.11	0.51	10.8	74.6	5.0	96.7
91	27	NC83 XT3HB4	45442	96.5	1.18	0.47	11.4	74.2	4.5	96.1
91	62	DIXIE 29		96.0	1.20	0.46	05.4	77.1	4.3	97.0
91	1	7HB28XNC222	15084	95.6	0.96	0.58	20.9	58.0	4.1	97.9
91	30	T3HB4XNC220	45486	94.9	1.23	0.45	15.4	71.4	4.6	96.7
91	6	C2SA X7HB28	15048	94.8	1.01	0.57	20.3	69.1	4.2	94.9
91	18	THB8 X8HL6	65321	94.7	0.99	0.57	25.4	46.3	3.8	95.5
91	23	7HB28X8HL6	65301	94.5	1.02	0.55	24.6	59.8	4.0	94.7
91	38	NC83 XNC222	85557	94.5	1.07	0.53	16.9	59.4	4.3	93.8
91	49	NC0021		94.5	1.06	0.51	20.1	65.1	4.5	96.4
91	21	THB8 X7HB28	65317	94.4	0.98	0.56	23.2	58.4	3.8	96.7
91	22	8LP2 X8HL6	65289	93.9	1.00	0.55	26.2	44.8	3.9	95.5
91	46	NC0008		93.9	0.97	0.57	10.1	72.7	4.3	94.7
91	37	C2SA XNC220	45490	93.6	1.22	0.46	03.2	78.8	4.5	93.8
91	33	T3HB4X7HB28	45458	93.5	1.18	0.48	07.3	74.3	4.3	94.4
91	60	DIXIE 82		93.5	1.15	0.47	09.2	78.3	5.1	96.4
91	35	T3HB4XUS18	45530	93.2	1.19	0.48	21.1	60.1	4.4	92.3
91	36	T3HB4X73L2	45470	92.7	1.22	0.45	08.4	69.2	4.1	96.1
91	13	NC222XHG4	15112	92.6	0.99	0.56	24.8	52.2	4.0	94.1
91	55	NC9203A		92.2	0.99	0.56	11.0	58.2	3.9	94.4
91	31	NC83 X73L2	45466	91.9	1.20	0.44	01.8	81.8	4.2	96.7
91	29	NC220X7HB28	45494	91.8	1.18	0.45	03.8	85.5	4.3	96.7
91	39	NC0011		91.7	1.07	0.52	18.1	49.6	4.7	93.5
91	17	THB8 XNC224	45306	91.4	1.09	0.50	09.7	75.0	4.2	95.0
91	28	NC83 X7HB28	45450	91.4	1.24	0.44	05.1	84.4	4.2	93.4
91	56	PIONEER 3098		91.4	1.07	0.51	03.1	78.6	3.9	95.0
91	24	8LP2 XTHB8	45302	91.3	1.08	0.50	11.7	78.4	4.0	94.9
91	19	THB8 XK5Y6	45342	90.9	1.07	0.50	04.8	64.2	4.4	96.4
91	25	8LP2 X7HB28	65273	90.8	1.03	0.52	13.3	68.3	3.8	96.4
91	16	8LP2 XNC224	45262	90.7	1.20	0.45	08.6	80.5	4.2	93.7
91	54	NC9211		90.5	1.04	0.50	16.9	79.4	4.0	97.9
91	26	8HL6 XK5Y6	65341	90.3	1.01	0.51	12.6	67.5	3.9	98.2
91	3	T3HB4X7HB28	15044	89.8	1.00	0.53	25.0	71.0	4.0	96.7
91	51	NC0023		89.5	1.03	0.51	32.8	43.6	4.1	97.3
91	61	DIXIE 18		89.5	1.24	0.44	25.3	56.2	5.6	92.0
91	20	THB8 X7HB28	45314	89.4	1.11	0.48	09.3	62.8	4.3	94.9
91	11	C2SA X73L9	15020	89.3	1.00	0.52	24.6	65.1	4.1	94.4
91	48	NC0020		89.3	1.04	0.49	16.9	57.9	4.5	97.0
91	7	HG4 X7HB28	15108	89.1	1.04	0.52	17.8	56.0	4.0	92.6
91		OVERALL GROUP MEAN		88.9	1.06	0.50	16.1	63.0	4.1	95.6
91	40	NC0012		88.8	1.03	0.52	22.7	40.8	4.2	95.3
91	64	N C 27		88.8	1.16	0.45	05.4	79.0	4.8	97.0
91	9	NC224X7HB28	15060	88.5	1.03	0.50	14.3	71.8	3.7	97.0
91	32	C2SA XNC224	45594	88.3	1.14	0.44	13.2	76.1	4.1	97.0

*Root Lodging data taken at Willard and Lewiston.

**Stalk " " " " " , Rocky Mount and Lewiston.

SUMMARY 91 continued

	Entry	Hybrid		Y	E/P	EW	RL*	SL**	EH	S
91	10	NC222XRS14	25141	88.1	0.95	0.54	37.2	43.8	3.8	96.4
91	4	C2SA XNC222	25069	88.0	0.91	0.58	30.2	45.2	4.0	95.3
91	50	NC0022		88.0	0.97	0.55	27.1	48.4	4.1	93.7
91	12	C2SA XRS14	25121	87.9	0.94	0.53	21.3	45.6	3.7	96.4
91	57	COKER 811		87.7	1.20	0.43	20.5	40.1	4.8	95.8
91	2	T3HB4XHG4	25089	87.5	0.97	0.53	26.2	49.2	3.7	97.3
91	5	C2SA XRS14	15120	87.4	0.99	0.52	19.3	68.9	4.1	97.3
91	8	T3HB4X73L9	15012	86.3	1.03	0.49	16.7	75.2	3.6	98.5
91	34	NC224X7HB28	45598	85.1	1.17	0.43	01.8	68.8	3.8	96.7
91	41	NC0013		85.0	1.14	0.44	10.4	70.9	4.8	95.6
91	63	N C 42		84.8	1.15	0.48	12.2	79.8	4.9	86.9
91	14	T3HB4XRS14	25117	83.9	0.96	0.51	17.3	63.2	3.5	97.0
91	53	NC0026		82.7	1.00	0.48	18.0	61.4	3.7	96.1
91	44	NC0016		78.7	1.04	0.46	14.4	56.4	3.8	93.5
91	15	T3HB4XNC224	25029	77.6	0.99	0.45	26.2	62.4	3.6	96.4
91	45	NC0017		75.5	0.94	0.46	13.4	42.9	3.1	97.0
91	47	NC0019		71.8	0.93	0.44	11.9	44.0	3.1	98.5
91	42	NC0014		66.4	1.01	0.39	16.9	49.4	3.1	95.2
91	52	NC0024		66.2	0.84	0.47	18.2	40.6	3.1	94.3
91	43	NC0015		64.3	0.88	0.42	20.6	37.7	2.7	96.1

L. S. D. (.05) = 8.46

(.01) = 11.16

C. V. - 12%

SUMMARY 85

A D V A N C E D D O U B L E C R O S S E S

SUMMARY 37 (1959) and SUMMARY 84 (1960)

	Entry	Hybrid		Y	E/P	EW	RL	SL	EH	S
85	60	DIXIE 82		98.0	1.26	0.49	09.2	53.2	4.8	94.4
85	1	7HB28XNC222	15084	97.9	0.95	0.62	20.9	29.9	3.7	98.6
85	57	COKER 811		96.6	1.32	0.44	20.5	23.7	4.5	98.2
85	59	N C 288		96.5	1.13	0.52	10.8	53.4	4.8	94.7
85	3	T3HB4X7HB28	15044	94.3	1.01	0.57	25.0	38.2	3.7	98.7
85	61	DIXIE 18		94.3	1.34	0.45	25.3	33.0	5.4	92.4
85	2	T3HB4XHG4	25089	93.3	0.98	0.59	26.2	26.1	3.5	97.2
85	6	C2SA X7HB28	15048	93.1	1.00	0.58	20.3	38.4	3.8	95.2
85	56	PION 309B		92.9	1.09	0.53	03.1	46.8	3.7	95.8
85	4	C2SA XNC222	25069	92.0	0.93	0.60	30.2	25.8	3.5	97.2
85		OVERALL GROUP MEAN		92.0	1.05	0.55	20.6	34.9	3.9	96.2
85	13	NC222XHG4	15112	91.3	0.97	0.58	24.8	28.0	3.7	96.1
85	7	7HB28XHG4	15108	91.1	1.04	0.56	17.8	29.5	3.8	93.5
85	11	C2SA X73L9	15020	91.1	0.99	0.56	24.6	36.3	3.7	96.4
85	10	NC222XRS14	25141	91.0	0.95	0.60	37.2	25.2	3.5	95.9
85	5	C2SA XRS14	15120	90.5	1.00	0.56	19.3	39.0	3.9	95.8
85	8	T3HB4X73L9	15012	90.2	1.04	0.53	16.7	39.5	3.5	98.1
85	9	NC224X7HB28	15060	89.6	1.02	0.54	14.3	37.3	3.5	97.0
85	12	C2SA XRS14	25121	88.9	0.94	0.58	21.3	27.1	3.5	95.6
85	14	T3HB4XRS14	25117	88.0	0.96	0.57	17.3	32.1	3.3	96.3
85	15	T3HB4XNC224	25029	80.2	0.98	0.49	26.2	34.9	3.4	97.7

SUMMARY 86

A D V A N C E D D O U B L E C R O S S E S

SUMMARY 38 (1959) and SUMMARY 84 (1960)

	Entry	Hybrid		Y	E/P	EW	RL	SL	EH	S
86	16	8LP2 XNC224	45262	101.4	1.25	0.51	08.6	46.0	4.1	94.9
86	17	NC224XTHB8	45306	98.6	1.09	0.55	09.7	40.2	4.1	97.8
86	18	8HL6 XTHB8	65321	98.4	1.00	0.59	25.4	25.9	3.8	98.2
86	59	N C 288		97.9	1.09	0.54	10.8	45.5	4.9	97.8
86	23	7HB28X8HL6	65301	96.7	1.02	0.57	24.6	35.3	3.8	97.4
86	60	DIXIE 82		96.0	1.17	0.51	09.2	50.9	4.9	96.2
86	19	THB8 XK5Y6	45342	95.9	1.06	0.55	04.8	36.7	4.2	97.2
86		OVERALL GROUP MEAN		95.4	1.09	0.54	14.9	36.5	4.2	96.9
86	21	7HB28XTHB8	65317	95.1	0.94	0.62	23.2	30.2	3.7	97.8
86	22	8LP2 X8HL6	65289	95.1	1.02	0.58	26.2	23.8	3.9	96.4
86	56	PION 309B		94.7	1.12	0.53	03.1	43.3	3.8	94.5
86	20	7HB28XTHB8	45314	93.4	1.08	0.54	09.3	31.9	4.2	96.6
86	24	8LP2 XTHB8	45302	93.2	1.02	0.56	11.7	42.0	3.9	97.5
86	25	8LP2 X7HB28	65273	92.6	1.00	0.56	13.3	36.9	3.6	98.6
86	61	DIXIE 18		92.6	1.26	0.45	25.3	35.4	5.5	95.9
86	26	8HL6 XK5Y6	65341	92.3	1.01	0.55	12.6	37.4	3.8	97.5
86	57	COKER 811		92.3	1.27	0.45	20.5	21.9	4.5	96.8

SUMMARY 87

A D V A N C E D D O U B L E C R O S S E S

SUMMARY 39 (1959) and SUMMARY 84 (1960)

	Entry	Hybrid		Y	E/P	EW	RL	SL	EH	S
87	27	NC83 XT3HB4	45442	104.5	1.20	0.52	11.4	39.8	4.6	98.3
87	30	T3HB4XNC220	45486	101.4	1.21	0.51	15.4	39.5	4.3	97.4
87	28	NC83 X7HB28	45450	101.0	1.19	0.52	05.1	44.5	4.2	97.4
87	59	N C 288		100.3	1.14	0.53	10.8	42.5	5.1	96.1
87	29	7HB28XNC220	45494	100.2	1.20	0.50	03.8	47.7	4.2	98.7
87	31	NC83 X73L2	45466	100.2	1.21	0.50	01.8	44.1	4.1	98.7
87	60	DIXIE 82		99.5	1.24	0.49	09.2	52.6	4.9	96.7
87	36	T3HB4X73L2	45470	98.1	1.17	0.52	08.4	37.9	3.8	97.6
87	35	T3HB4X'JS18	45530	98.0	1.15	0.54	21.1	31.9	4.4	94.7
87		OVERALL GROUP MEAN		98.0	1.18	0.51	10.5	39.9	4.4	97.2
87	33	T3HB4X7HB28	45458	97.9	1.13	0.53	07.3	41.2	4.1	97.4
87	37	C2SA XNC220	45490	97.4	1.17	0.51	03.2	43.9	4.6	97.1
87	38	NC83 XNC222	85557	97.4	1.03	0.58	16.9	33.8	4.0	96.2
87	32	C2SA XNC224	45594	96.8	1.19	0.49	13.2	41.3	4.2	98.4
87	57	COKER 811		96.2	1.33	0.44	20.5	21.4	4.6	97.7
87	34	7HB28XNC224	45598	94.2	1.20	0.48	01.8	37.6	3.7	98.7
87	56	PION 309B		91.9	1.04	0.55	03.1	42.1	3.8	97.1
87	61	DIXIE 18		91.4	1.23	0.46	25.3	36.2	5.6	94.2

ADVANCED DOUBLE CROSSES

C - 1 WILLARD

	Entry	Hybrid		Y	E/P	EW	RL	SL	EH	S
1	59	N C 288		101.3	1.19	0.49	19.0	69.0	5.0	100.0
1	58	N C 270		96.5	1.02	0.55	27.4	61.9	5.2	100.0
1	31	NC83 X73L2	45466	94.8	1.37	0.39	02.4	96.4	4.7	100.0
1	39	NC0011		93.3	1.13	0.49	16.7	45.2	4.7	100.0
1	29	NC220X7HB28	45494	93.1	1.31	0.41	04.8	91.7	4.5	100.0
1	37	C2SA XNC220	45490	92.7	1.30	0.44	03.7	92.7	5.0	97.6
1	27	NC83 XT3HB4	45442	91.9	1.27	0.42	20.2	78.6	4.5	100.0
1	62	DIXIE 29		91.9	1.25	0.43	10.8	72.3	4.3	98.8
1	16	8LP2 XNC224	45262	91.2	1.27	0.41	14.3	78.6	4.3	100.0
1	28	NC83 X7HB28	45450	91.1	1.44	0.38	07.3	90.2	4.3	97.6
1	33	T3HB4X7HB28	45458	90.8	1.30	0.42	11.9	83.3	4.7	100.0
1	21	THB8 X7HB28	65317	90.6	0.96	0.54	44.0	48.8	3.8	100.0
1	35	T3HB4XUS18	45530	90.2	1.26	0.45	25.9	65.4	4.8	96.4
1	38	NC83 XNC222	85557	90.0	1.15	0.48	25.6	57.3	4.7	97.6
1	26	8HL6 XK5Y6	65341	89.7	1.00	0.52	20.2	70.2	4.2	100.0
1	34	NC224X7HB28	45598	89.7	1.38	0.39	03.6	82.1	4.2	100.0
1	64	N C 27		89.7	1.19	0.44	10.7	57.1	5.5	100.0
1	17	THB8 XNC224	45306	89.1	1.25	0.41	19.3	66.3	4.7	98.8
1	30	T3HB4XNC220	45486	89.1	1.35	0.39	19.3	78.3	4.8	98.8
1	60	DIXIE 82		88.4	1.23	0.42	15.9	68.3	5.5	97.6
1	3	T3HB4X7HB28	15044	88.1	1.01	0.52	50.0	41.7	4.2	100.0
1	54	NC9211		87.4	1.05	0.50	27.4	69.0	4.0	100.0
1	18	THB8 X8HL6	65321	87.0	0.94	0.53	34.5	39.3	3.8	100.0
1	19	THB8 XK5Y6	45342	86.8	1.02	0.49	08.3	76.2	4.8	100.0
1	22	8LP2 X8HL6	65289	86.8	0.96	0.51	34.5	45.2	3.8	100.0
1	13	NC222XHG4	15112	86.7	0.98	0.51	37.8	42.7	4.0	97.6
1	36	T3HB4X73L2	45470	86.3	1.23	0.42	15.5	71.4	4.7	100.0
1	46	NC0008		85.7	0.93	0.55	20.2	59.5	4.3	100.0
1	9	NC224X7HB28	15060	85.6	1.07	0.47	26.2	65.5	3.8	100.0
1	55	NC9203A		85.6	0.93	0.55	19.3	44.6	3.8	98.8
1	1	7HB28XNC222	15084	85.3	0.92	0.55	39.3	39.3	4.3	100.0
1	56	PIONEER 309B		85.3	1.08	0.46	04.8	94.0	3.7	100.0
1	61	DIXIE 18		85.3	1.28	0.40	36.6	48.8	6.0	97.6
1	24	8LP2 XTHB8	45302	84.8	1.02	0.47	17.9	76.2	4.2	100.0
1	57	COKER 811		84.6	1.25	0.38	31.0	46.4	5.2	100.0
1	41	NC0013		84.4	1.27	0.39	14.3	77.4	5.0	100.0
1	6	C2SA X7HB28	15048	83.8	0.90	0.55	40.5	51.2	4.2	100.0
1		EXPERIMENT MEAN		83.1	1.07	0.46	26.2	58.7	4.3	99.1
1	5	C2SA XRS14	15120	83.0	0.95	0.53	34.9	53.0	4.2	98.8
1	50	NC0022		82.7	0.90	0.55	50.0	34.5	4.7	100.0
1	8	T3HB4X73L9	15012	81.7	1.00	0.48	31.0	67.9	3.8	100.0
1	25	8LP2 X7HB28	65273	81.5	0.95	0.50	26.5	55.4	4.0	98.8
1	48	NC0020		81.5	1.00	0.47	27.4	58.3	4.8	100.0
1	11	C2SA X73L9	15020	81.4	0.95	0.48	32.1	48.8	4.2	100.0
1	63	N C 42		80.2	1.09	0.46	24.4	69.2	5.3	92.9

C-1 Willard continued

	Entry	Hybrid		Y	E/P	EW	RL	SL	EH	S
1	12	C2SA XRS14	25121	80.0	0.87	0.52	20.8	45.2	4.0	100.0
1	7	HG4 X7HB28	15108	79.7	0.98	0.48	31.7	48.8	4.3	97.6
1	32	C2SA XNC224	45594	79.5	1.07	0.41	25.0	65.5	4.5	100.0
1	10	NC222XRS14	25141	78.9	0.94	0.49	54.8	31.0	3.8	100.0
1	49	NC0021		78.9	0.95	0.48	32.5	48.2	4.8	98.8
1	23	7HB28X8HL6	65301	78.8	0.95	0.49	45.1	32.9	4.2	97.6
1	53	NC0026		78.2	0.96	0.47	32.1	59.5	3.7	100.0
1	20	THB8 X7HB28	45314	78.1	1.26	0.41	13.7	71.2	4.5	86.9
1	40	NC0012		77.7	0.98	0.49	27.4	45.2	4.3	100.0
1	4	C2SA XNC222	25069	75.8	0.87	0.52	48.8	34.5	4.2	100.0
1	2	T3HB4XHG4	25089	75.3	0.90	0.51	35.7	44.0	4.2	100.0
1	15	T3HB4XNC224	25029	74.8	0.95	0.46	52.4	31.7	3.8	97.6
1	14	T3HB4XRS14	25117	74.7	0.86	0.50	38.3	57.1	4.0	100.0
1	44	NC0016		74.0	0.99	0.45	21.4	57.1	4.0	100.0
1	51	NC0023		70.6	0.96	0.45	44.0	46.4	4.7	100.0
1	42	NC0014		62.5	1.08	0.37	38.8	42.5	3.3	95.2
1	47	NC0019		59.8	0.92	0.39	22.6	45.2	3.0	100.0
1	45	NC0017		59.7	0.90	0.38	20.5	48.2	3.0	98.8
1	52	NC0024		58.4	0.80	0.43	32.1	38.1	3.0	100.0
1	43	NC0015		53.2	0.79	0.39	31.0	32.1	3.0	100.0

L. S. D. (.05) = 13.54

(.01) = 17.90

C. V. - 10%

ADVANCED DOUBLE CROSSES

C - 11 ROCKY MOUNT

	Entry	Hybrid		Y	E/P	EW	SL	EH	S
11	62	DIXIE 29		104.1	1.24	0.46	78.0	4.7	97.6
11	36	T3HB4X73L2	45470	100.2	1.34	0.42	86.3	4.3	95.2
11	35	T3HB4XUS18	45530	99.3	1.24	0.49	71.6	4.7	88.1
11	38	NC83 XNC222	85557	99.3	1.09	0.54	80.5	4.7	91.7
11	18	THB8 X8HL6	65321	98.1	0.99	0.55	67.1	4.2	97.6
11	56	PIONEER 309B		98.0	1.13	0.52	73.7	4.3	90.5
11	21	THB8 X7HB28	65317	97.7	1.01	0.56	51.9	4.3	94.0
11	1	7HB28XNC222	15084	97.0	0.99	0.56	76.3	4.5	95.2
11	24	8LP2 XTHB8	45302	96.2	1.09	0.50	88.8	4.3	95.2
11	59	N C 288		96.0	1.10	0.48	90.1	5.0	96.4
11	27	NC83 XT3HB4	45442	95.1	1.17	0.44	72.8	4.3	96.4
11	33	T3HB4X7HB28	45458	94.9	1.19	0.50	79.2	4.8	85.7
11	49	NC0021		94.8	1.04	0.51	90.0	4.3	95.2
11	58	N C 270		94.6	1.11	0.48	78.5	4.7	94.0
11	60	DIXIE 82		93.9	1.11	0.47	85.2	5.2	96.4
11	30	T3HB4XNC220	45486	93.5	1.19	0.44	77.8	4.7	96.4
11	20	THB8 X7HB28	45314	93.2	1.09	0.48	75.3	4.7	96.4
11	23	7HB28X8HL6	65301	93.0	0.96	0.57	69.2	4.2	92.9
11	17	THB8 XNC224	45306	92.9	1.03	0.53	85.9	4.3	92.9
11	19	THB8 XK5Y6	45342	92.3	1.05	0.50	67.5	4.3	95.2
11	22	8LP2 X8HL6	65289	92.2	0.99	0.54	72.5	4.2	95.2
11	13	NC222XHG4	15112	91.9	0.95	0.53	78.3	4.3	98.8
11	32	C2SA XNC224	45594	91.6	1.11	0.44	86.9	4.2	100.0
11	37	C2SA XNC220	45490	91.6	1.16	0.45	79.7	4.3	94.0
11	6	C2SA X7HB28	15048	91.4	1.10	0.53	84.9	4.7	86.9
11	16	8LP2 XNC224	45262	90.6	1.16	0.44	92.4	4.7	94.0
11	25	8LP2 X7HB28	65273	90.2	0.99	0.50	77.1	4.2	98.8
11	2	T3HB4XHG4	25089	89.8	0.93	0.55	69.1	4.0	96.4
11	3	T3HB4X7HB28	15044	89.4	1.04	0.49	92.4	4.3	94.0
11	39	NC0011		89.1	1.11	0.51	76.4	4.7	85.7
11	48	NC0020		89.1	1.01	0.49	69.1	4.7	96.4
11	50	NC0022		88.8	0.96	0.51	74.1	4.3	96.4
11	7	HG4 X7HB28	15108	88.6	0.96	0.53	71.8	4.5	92.9
11	46	NC0008		88.5	0.96	0.55	84.2	4.5	90.5
11		EXPERIMENT MEAN		87.9	1.05	0.48	78.1	4.3	94.5
11	53	NC0026		87.7	1.14	0.44	85.9	3.8	92.9
11	5	C2SA XRS14	15120	87.5	1.05	0.47	87.5	4.3	95.2
11	57	COKER 811		87.1	1.20	0.41	63.8	5.0	95.2
11	31	NC83 X73L2	45466	86.8	1.19	0.42	78.5	4.0	94.0
11	26	8HL6 XK5Y6	65341	86.5	1.00	0.49	71.3	4.2	95.2
11	11	C2SA X73L9	15020	86.2	1.00	0.49	86.1	4.0	94.0
11	63	N C 42		85.4	1.19	0.47	88.4	5.0	82.1
11	14	T3HB4XRS14	25117	85.3	0.96	0.49	83.1	3.8	98.8
11	9	NC224X7HB28	15060	85.2	0.96	0.49	87.7	4.0	96.4
11	8	T3HB4X73L9	15012	85.1	1.04	0.46	88.9	4.0	96.4

C-11 Rocky Mount continued

	Entry	Hybrid		Y	E/P	EW	SL	EH	S
11	34	NC224X7HB28	45598	84.7	1.12	0.44	74.4	4.0	92.9
11	40	NC0012		84.5	0.98	0.49	60.5	4.5	96.4
11	55	NC9203A		84.5	1.00	0.51	85.1	4.3	88.1
11	54	NC9211		84.3	1.00	0.46	92.8	4.3	98.8
11	51	NC0023		84.0	1.00	0.46	71.6	3.8	96.4
11	64	N C 27		83.8	1.06	0.44	96.3	4.8	96.4
11	41	NC0013		83.5	1.14	0.43	84.6	5.3	92.9
11	28	NC83 X7HB28	45450	83.1	1.10	0.42	92.5	4.5	95.2
11	10	NC222XRS14	25141	82.5	0.91	0.49	74.4	4.2	97.6
11	4	C2SA XNC222	25069	82.0	0.90	0.54	77.9	4.5	91.7
11	29	NC220X7HB28	45494	81.3	1.04	0.42	91.6	4.5	98.8
11	12	C2SA XRS14	25121	80.5	0.94	0.48	65.0	3.7	95.2
11	44	NC0016		80.5	0.98	0.47	65.0	4.3	95.2
11	15	T3HB4XNC224	25029	79.9	1.01	0.44	81.7	4.0	97.6
11	61	DIXIE 18		79.8	1.22	0.40	76.7	5.5	86.9
11	47	NC0019		70.6	0.87	0.44	54.8	3.5	100.0
11	45	NC0017		69.4	0.93	0.41	66.7	3.7	96.4
11	52	NC0024		67.5	0.83	0.46	62.5	3.3	95.2
11	42	NC0014		65.9	0.93	0.40	84.0	3.7	96.4
11	43	NC0015		63.7	0.87	0.42	67.1	2.8	94.0

L. S. D. (.05) = 10.84
(.01) = 14.33
C. V. - 8%

ADVANCED DOUBLE CROSSES

C - 30 PLYMOUTH

	Entry	Hybrid		Y	E/P	EW	EH	S
30	46	NC0008		121.6	1.07	0.66	4.5	100.0
30	58	N C 270		121.0	1.15	0.64	5.0	96.4
30	16	8LP2 XNC224	45262	115.2	1.35	0.52	4.3	96.4
30	37	C2SA XNC220	45490	115.0	1.36	0.55	5.2	90.5
30	40	NC0012		114.8	1.14	0.64	4.2	91.7
30	49	NC0021		114.6	1.24	0.55	5.0	97.6
30	29	NC220X7HB28	45494	114.3	1.27	0.53	4.5	98.8
30	23	7HB28X8HL6	65301	113.5	1.08	0.62	4.0	98.8
30	30	T3HB4XNC220	45486	113.3	1.34	0.50	4.7	97.6
30	33	T3HB4X7HB28	45458	113.3	1.22	0.55	4.3	98.8
30	51	NC0023		112.8	1.12	0.59	3.7	98.8
30	38	NC83 XNC222	85557	112.3	1.11	0.60	4.3	97.6
30	28	NC83 X7HB28	45450	112.2	1.30	0.52	4.3	96.4
30	39	NC0011		110.6	1.12	0.59	5.3	96.4
30	4	C2SA XNC222	25069	110.2	0.91	0.73	3.7	96.4
30	54	NC9211		110.0	1.09	0.60	4.3	97.6
30	61	DIXIE 18		109.9	1.24	0.53	5.5	97.6
30	10	NC222XRS14	25141	109.6	0.96	0.69	3.7	96.4
30	55	NC9203A		108.8	1.00	0.65	3.7	97.6
30	60	DIXIE 82		108.8	1.25	0.53	5.2	96.4
30	19	THB8 XK5Y6	45342	108.7	1.20	0.55	4.5	95.2
30	35	T3HB4XUS18	45530	108.6	1.25	0.52	4.7	96.4
30	6	C2SA X7HB28	15048	108.4	0.98	0.66	4.0	97.6
30	18	THB8 X8HL6	65321	108.4	0.96	0.69	3.8	96.4
30	27	NC83 XT3HB4	45442	108.1	1.23	0.55	4.8	92.9
30	59	N C 288		108.1	1.15	0.57	5.2	96.4
30	20	THB8 X7HB28	45314	108.0	1.07	0.59	4.3	100.0
30	1	7HB28XNC222	15084	107.3	0.99	0.66	4.3	96.4
30	24	8LP2 XTHB8	45302	107.3	1.12	0.58	4.0	96.4
30	12	C2SA XRS14	25121	107.2	1.04	0.63	3.8	96.4
30	36	T3HB4X73L2	45470	106.8	1.26	0.51	4.0	96.4
30	32	C2SA XNC224	45594	106.4	1.27	0.53	4.5	94.0
30	26	8HL6 XK5Y6	65341	106.0	1.02	0.61	3.7	100.0
30	64	N C 27		105.8	1.38	0.46	5.0	97.6
30	25	8LP2 X7HB28	65273	105.3	1.09	0.58	3.8	97.6
30	8	T3HB4X73L9	15012	105.1	1.10	0.57	3.7	98.8
30	48	NC0020		105.0	1.11	0.56	4.7	98.8
30	11	C2SA X73L9	15020	104.9	1.05	0.63	4.7	92.9
30		EXPERIMENT MEAN		104.7	1.12	0.57	4.2	96.5
30	62	DIXIE 29		104.3	1.30	0.47	4.5	97.6
30	22	8LP2 X8HL6	65289	104.2	1.04	0.62	4.0	94.0
30	56	PIONEER 309B		104.0	1.07	0.57	4.3	100.0
30	31	NC83 X73L2	45466	103.4	1.21	0.52	4.5	96.4
30	50	NC0022		103.3	0.95	0.67	4.2	94.0
30	41	NC0013		103.1	1.18	0.52	5.2	97.6

C-30 Plymouth continued

	Entry	Hybrid		Y	E/P	EW	EH	S
30	14	T3HB4XRS14	25117	103.0	1.00	0.60	3.3	100.0
30	17	THB8 XNC224	45306	102.4	1.02	0.60	4.0	96.4
30	63	N C 42		101.8	1.29	0.53	5.2	86.9
30	13	NC222XHG4	15112	100.9	0.92	0.72	4.2	89.3
30	2	T3HB4XHG4	25089	100.4	1.07	0.55	3.8	100.0
30	3	T3HB4X7HB28	15044	100.4	0.98	0.61	4.0	97.6
30	21	THB8 X7HB28	65317	99.8	0.96	0.64	3.8	95.2
30	57	COKER 811		98.7	1.35	0.46	4.8	92.9
30	5	C2SA XRS14	15120	97.6	0.96	0.62	4.3	96.4
30	34	NC224X7HB28	45598	96.1	1.19	0.48	3.8	98.8
30	53	NC0026		95.8	0.95	0.61	3.8	96.4
30	7	HG4 X7HB28	15108	95.2	1.16	0.54	4.0	89.3
30	9	NC224X7HB28	15060	94.1	1.06	0.55	3.8	94.0
30	44	NC0016		92.4	1.07	0.52	4.0	97.6
30	15	T3HB4XNC224	25029	91.7	1.06	0.50	3.5	100.0
30	47	NC0019		88.4	1.00	0.53	3.5	97.6
30	45	NC0017		85.6	1.01	0.50	2.8	98.8
30	43	NC0015		83.7	1.02	0.50	2.8	96.4
30	52	NC0024		82.2	0.91	0.54	3.3	97.6
30	42	NC0014		78.0	1.06	0.45	3.2	96.4

L. S. D. (.05) = 15.75
(.01) = 20.81
C. V. - 9%

ADVANCED DOUBLE CROSSES

C - 51 LEWISTON

	Entry	Hybrid		Y	E/P	EW	RL	SL	EH	S
51	58	N C 270		95.9	0.98	0.53	09.8	46.3	4.3	97.6
51	6	C2SA X7HB28	15048	95.6	1.04	0.53		71.3	3.8	95.2
51	7	HG4 X7HB28	15108	92.9	1.05	0.54	03.9	47.4	3.0	90.5
51	1	7HB28XNC222	15084	92.7	0.93	0.55	02.4	58.3	3.3	100.0
51	23	7HB28X8HL6	65301	92.6	1.09	0.53	04.0	77.3	3.7	89.3
51	22	8LP2 X8HL6	65289	92.3	1.01	0.52	17.9	16.7	3.7	92.9
51	13	NC222XHG4	15112	91.0	1.09	0.48	11.8	35.5	3.5	90.5
51	27	NC83 XT3HB4	45442	91.0	1.06	0.48	02.5	71.3	4.2	95.2
51	51	NC0023		90.7	1.03	0.52	21.5	12.7	4.0	94.0
51	55	NC9203A		89.9	1.01	0.52	02.6	44.9	3.7	92.9
51	49	NC0021		89.6	1.00	0.51	07.6	57.0	3.8	94.0
51	21	THB8 X7HB28	65317	89.5	0.99	0.51	02.4	74.4	3.3	97.6
51	9	NC224X7HB28	15060	89.0	1.01	0.49	02.4	62.2	3.3	97.6
51	59	N C 288		88.0	1.00	0.50	02.5	64.6	4.7	94.0
51	45	NC0017		87.2	0.92	0.53	06.3	13.9	2.7	94.0
51	25	8LP2 X7HB28	65273	86.2	1.08	0.48		72.4	3.2	90.5
51	18	THB8 X8HL6	65321	85.1	1.07	0.49	16.2	32.4	3.3	88.1
51	11	C2SA X73L9	15020	84.7	1.01	0.49	17.1	60.5	3.3	90.5
51	2	T3HB4XHG4	25089	84.3	0.97	0.52	16.7	34.6	2.8	92.9
51	4	C2SA XNC222	25069	84.1	0.95	0.52	11.5	23.1	3.5	92.9
51	12	C2SA XRS14	25121	83.7	0.92	0.50	12.7	26.6	3.3	94.0
51	62	DIXIE 29		83.6	1.01	0.46		81.0	3.5	94.0
51	30	T3HB4XNC220	45486	83.5	1.05	0.46	11.4	58.2	4.0	94.0
51	60	DIXIE 82		82.9	1.00	0.46	02.5	81.3	4.5	95.2
51	61	DIXIE 18		82.8	1.22	0.43	13.9	43.1	5.3	85.7
51	31	NC83 X73L2	45466	82.6	1.04	0.44	01.2	70.4	3.7	96.4
51	48	NC0020		81.5	1.03	0.45	06.4	46.2	3.8	92.9
51	5	C2SA XRS14	15120	81.4	0.99	0.46	03.6	66.3	3.7	98.8
51	10	NC222XRS14	25141	81.2	0.97	0.49	19.5	26.0	3.3	91.7
51	3	T3HB4X7HB28	15044	81.1	0.98	0.48		78.8	3.5	95.2
51	17	THB8 XNC224	45306	81.0	1.04	0.46		72.7	3.7	91.7
51	57	COKER 811		80.5	0.98	0.46	10.0	10.0	4.0	95.2
51	54	NC9211		80.1	1.03	0.44	06.3	76.3	3.3	95.2
51	46	NC0008		79.9	0.93	0.51		74.3	4.0	88.1
51		EXPERIMENT MEAN		79.8	1.00	0.46	06.0	52.2	3.5	92.4
51	28	NC83 X7HB28	45450	79.0	1.11	0.45	02.8	70.4	3.7	84.5
51	26	8HL6 XK5Y6	65341	78.8	1.02	0.42	04.9	61.0	3.5	97.6
51	29	NC220X7HB28	45494	78.6	1.09	0.42	02.7	73.3	3.7	89.3
51	40	NC0012		78.3	1.01	0.47	17.9	16.7	3.7	92.9
51	56	PIONEER 309B		78.2	0.99	0.49	01.3	68.0	3.3	89.3
51	20	THB8 X7HB28	45314	78.1	1.01	0.43	04.9	42.0	3.5	96.4
51	36	T3HB4X73L2	45470	77.5	1.03	0.43	01.3	50.0	3.3	92.9
51	50	NC0022		77.2	1.06	0.45	04.2	36.6	3.0	84.5
51	24	8LP2 XTHB8	45302	76.8	1.07	0.45	05.4	70.3	3.3	88.1
51	38	NC83 XNC222	85557	76.4	0.92	0.50	08.1	40.5	3.5	88.1

C-51 Lewiston continued

	Entry	Hybrid		Y	E/P	EW	RL	SL	EH	S
51	19	THB8 XK5Y6	45342	75.8	1.01	0.44	01.3	48.8	4.0	95.2
51	32	C2SA XNC224	45594	75.8	1.11	0.39	01.3	75.9	3.0	94.0
51	64	N C 27		75.7	0.99	0.45		83.5	4.0	94.0
51	33	T3HB4X7HB28	45458	75.1	1.01	0.43	02.6	60.3	3.3	92.9
51	37	C2SA XNC220	45490	74.9	1.06	0.41	02.6	64.1	3.5	92.9
51	35	T3HB4XUS18	45530	74.6	1.01	0.46	16.2	43.2	3.5	88.1
51	39	NC0011		73.6	0.90	0.48	19.5	27.3	4.2	91.7
51	8	T3HB4X73L9	15012	73.2	0.96	0.43	02.4	68.7	3.0	98.8
51	14	T3HB4XRS14	25117	72.4	1.00	0.43	01.3	49.3	2.7	89.3
51	63	N C 42		71.7	1.01	0.44		81.9	4.2	85.7
51	34	NC224X7HB28	45598	69.7	0.98	0.40		50.0	3.2	95.2
51	41	NC0013		69.1	0.96	0.41	06.5	50.6	3.7	91.7
51	53	NC0026		68.9	0.94	0.41	03.8	38.8	3.3	95.2
51	47	NC0019		68.4	0.91	0.41	01.2	32.1	2.5	96.4
51	44	NC0016		67.7	1.10	0.41	07.4	47.1	2.8	81.0
51	16	8LP2 XNC224	45262	65.6	1.00	0.42	02.8	70.4	3.3	84.5
51	15	T3HB4XNC224	25029	63.8	0.95	0.38		73.7	3.2	90.5
51	42	NC0014		59.0	0.95	0.35		21.8	2.3	92.9
51	52	NC0024		56.8	0.82	0.43	04.2	21.1	2.7	84.5
51	43	NC0015		56.5	0.82	0.38	10.1	13.9	2.3	94.0

L. S. D. (.05) = 17.08
(.01) = 22.58
C. V. - 13%

ADVANCED DOUBLE CROSSES

C - 81 WHITAKERS

	Entry	Hybrid		Y	E/P	EW	EH	S
81	27	NC83 XT3HB4	45442	111.4	1.75	0.53	4.3	100.0
81	33	T3HB4X7HB28	45458	109.8	1.68	0.56	4.0	98.3
81	36	T3HB4X73L2	45470	109.8	1.76	0.54	4.0	96.7
81	16	8LP2 XNC224	45262	108.7	1.82	0.50	3.5	100.0
81	31	NC83 X73L2	45466	108.2	1.92	0.47	4.2	100.0
81	62	DIXIE 29		106.6	1.73	0.52	4.2	100.0
81	20	THB8 X7HB28	45314	104.7	1.72	0.51	3.5	100.0
81	30	T3HB4XNC220	45486	104.7	1.48	0.59	4.2	100.0
81	57	COKER 811		103.3	1.88	0.46	4.7	100.0
81	29	NC220X7HB28	45494	102.3	1.72	0.50	3.8	100.0
81	56	PIONEER 3098		101.8	1.55	0.55	4.0	100.0
81	19	THB8 XK5Y6	45342	101.5	1.55	0.55	4.2	100.0
81	46	NC0008		100.5	1.22	0.69	4.2	100.0
81	28	NC83 X7HB28	45450	98.9	1.75	0.47	3.8	100.0
81	38	NC83 XNC222	85557	96.9	1.35	0.60	4.2	100.0
81	49	NC0021		95.9	1.45	0.55	4.7	100.0
81	26	8HL6 XK5Y6	65341	94.7	1.53	0.52	3.3	100.0
81	17	THB8 XNC224	45306	94.5	1.53	0.53	3.8	98.3
81	60	DIXIE 82		94.5	1.57	0.51	5.5	100.0
81	35	T3HB4XUS18	45530	94.1	1.47	0.54	4.5	100.0
81	18	THB8 X8HL6	65321	93.5	1.43	0.55	4.0	100.0
81	58	N C 270		92.7	1.37	0.57	4.3	100.0
81	37	C2SA XNC220	45490	92.3	1.45	0.53	4.0	100.0
81	59	N C 288		92.3	1.47	0.53	5.0	100.0
81	34	NC224X7HB28	45598	91.7	1.78	0.43	3.5	100.0
81	48	NC0020		90.5	1.30	0.58	4.5	100.0
81	63	N C 42		90.5	1.53	0.49	5.2	100.0
81	24	8LP2 XTHB8	45302	90.1	1.45	0.52	3.8	100.0
81	41	NC0013		89.9	1.55	0.49	4.8	100.0
81	50	NC0022		89.3	1.13	0.66	3.8	100.0
81	11	C2SA X73L9	15020	88.5	1.17	0.64	3.8	100.0
81	3	T3HB4X7HB28	15044	88.1	1.30	0.57	3.8	100.0
81	1	7HB28XNC222	15084	87.9	1.22	0.61	3.5	100.0
81		EXPERIMENT MEAN		87.3	1.38	0.53	3.9	99.8
81	54	NC9211		86.6	1.28	0.56	4.0	100.0
81	32	C2SA XNC224	45594	84.5	1.48	0.48	3.8	100.0
81	7	HG4 X7HB28	15108	84.4	1.33	0.53	3.7	100.0
81	22	8LP2 X8HL6	65289	83.9	1.37	0.51	3.7	100.0
81	64	N C 27		83.6	1.42	0.49	4.3	100.0
81	9	NC224X7HB28	15060	83.3	1.45	0.48	3.5	100.0
81	21	THB8 X7HB28	65317	82.6	1.23	0.56	3.8	100.0
81	15	T3HB4XNC224	25029	81.4	1.32	0.52	3.5	100.0
81	25	8LP2 X7HB28	65273	81.4	1.20	0.57	3.5	100.0
81	23	7HB28X8HL6	65301	81.2	1.32	0.52	3.3	100.0
81	6	C2SA X7HB28	15048	81.0	1.22	0.57	3.8	96.7

C-81 Whitakers continued

	Entry	Hybrid		Y	E/P	EW	EH	S
81	14	T3HB4XRS14	25117	80.6	1.27	0.53	3.5	100.0
81	51	NC0023		80.6	1.30	0.52	4.0	100.0
81	8	T3HB4X73L9	15012	79.8	1.17	0.57	3.5	100.0
81	61	DIXIE 18		78.0	1.43	0.46	5.0	100.0
81	4	C2SA XNC222	25069	76.8	1.05	0.61	4.3	100.0
81	13	NC222XHG4	15112	75.8	1.03	0.61	3.7	100.0
81	43	NC0015		75.8	1.27	0.50	2.8	100.0
81	12	C2SA XRS14	25121	75.0	1.27	0.50	3.5	100.0
81	53	NC0026		74.8	1.15	0.54	4.3	100.0
81	5	C2SA XRS14	15120	74.6	1.12	0.56	3.8	100.0
81	39	NC0011		74.4	1.12	0.56	4.3	100.0
81	10	NC222XRS14	25141	71.8	1.10	0.55	3.8	100.0
81	40	NC0012		71.0	1.13	0.53	4.2	100.0
81	44	NC0016		70.8	0.98	0.60	4.0	100.0
81	55	NC9203A		68.1	0.98	0.58	4.0	100.0
81	2	T3HB4XHG4	25089	67.6	1.02	0.56	3.5	100.0
81	47	NC0019		67.5	1.17	0.48	3.0	100.0
81	42	NC0014		66.0	1.43	0.39	3.3	100.0
81	45	NC0017		64.7	1.22	0.45	3.0	100.0
81	52	NC0024		59.9	1.08	0.46	2.8	100.0

L. S. D. (.05) = 16.24

(.01) = 21.47

C. V. - 12%

ADVANCED DOUBLE CROSSES

C - 21 GREENVILLE

	Entry	Hybrid		Y	E/P	EW	EH	S
21	31	NC83 X73L2	45466	100.3	1.68	0.50	3.8	100.0
21	57	COKER 811		99.9	1.78	0.48	4.3	98.3
21	30	T3HB4XNC220	45486	99.7	1.62	0.52	4.3	100.0
21	36	T3HB4X73L2	45470	99.5	1.62	0.52	3.5	100.0
21	10	NC222XRS14	25141	98.3	1.33	0.62	3.5	100.0
21	16	8LP2 XNC224	45262	97.9	1.67	0.49	3.5	100.0
21	27	NC83 XT3HB4	45442	96.7	1.64	0.50	4.0	98.3
21	62	DIXIE 29		96.3	1.70	0.47	4.0	100.0
21	54	NC9211		96.1	1.42	0.57	3.5	100.0
21	37	C2SA XNC220	45490	95.7	1.50	0.53	4.3	100.0
21	11	C2SA X73L9	15020	95.1	1.27	0.63	3.7	100.0
21	8	T3HB4X73L9	15012	94.5	1.37	0.58	3.5	100.0
21	40	NC0012		94.5	1.38	0.57	4.0	100.0
21	4	C2SA XNC222	25069	94.1	1.22	0.65	3.3	100.0
21	14	T3HB4XRS14	25117	93.9	1.33	0.61	3.3	96.7
21	56	PIONEER 3093		93.9	1.55	0.51	3.8	100.0
21	38	NC83 XNC222	85557	92.9	1.30	0.60	4.2	100.0
21	29	NC220X7HB28	45494	92.7	1.63	0.48	4.0	100.0
21	32	C2SA XNC224	45594	92.5	1.65	0.47	4.0	100.0
21	35	T3HB4XUS18	45530	91.9	1.57	0.49	4.3	100.0
21	22	8LP2 X8HL6	65289	91.7	1.28	0.60	3.7	100.0
21	28	NC83 X7HB28	45450	91.5	1.48	0.52	3.7	100.0
21	18	TH88 X8HL6	65321	91.3	1.28	0.60	3.5	100.0
21	55	NC9203A		90.7	1.16	0.69	3.5	95.0
21	17	TH88 XNC224	45306	90.3	1.54	0.50	3.5	98.3
21	41	NC0013		90.3	1.72	0.44	4.8	100.0
21	7	HG4 X7HB28	15108	90.1	1.15	0.66	3.8	100.0
21	50	NC0022		90.1	1.15	0.66	3.7	100.0
21	3	T3HB4X7HB28	15044	89.9	1.30	0.58	3.5	100.0
21	13	NC222XHG4	15112	89.1	1.24	0.61	4.0	98.3
21	48	NC0020		89.0	1.28	0.58	4.0	100.0
21	49	NC0021		88.7	1.30	0.57	4.5	100.0
21	5	C2SA XRS14	15120	88.5	1.17	0.64	3.8	100.0
21	23	7HB28X8HL6	65301	87.9	1.27	0.58	3.5	100.0
21		EXPERIMENT MEAN		87.7	1.36	0.55	3.8	99.2
21	53	NC0026		87.3	1.18	0.62	3.3	100.0
21	15	T3HB4XNC224	25029	87.2	1.23	0.59	3.5	100.0
21	24	8LP2 XTH38	45302	87.2	1.22	0.60	3.5	100.0
21	26	8HL6 XK5Y6	65341	87.2	1.38	0.53	3.5	100.0
21	46	NC0008		87.2	1.17	0.63	3.7	98.3
21	51	NC0023		86.9	1.36	0.55	3.5	96.7
21	58	N C 270		86.6	1.32	0.56	4.7	98.3
21	6	C2SA X7HB28	15048	86.1	1.08	0.68	3.5	98.3
21	1	7HB28XNC222	15084	85.6	1.12	0.65	3.7	98.3
21	2	T3HB4XHG4	25089	85.6	1.18	0.61	3.3	100.0

C-21 Greenville continued

	Entry	Hybrid		Y	E/P	EW	EH	S
21	21	THB8 X7HB28	65317	85.0	1.13	0.63	3.5	100.0
21	63	N C 42		85.0	1.42	0.51	4.8	98.3
21	19	THB8 XK5Y6	45342	84.8	1.32	0.54	3.7	100.0
21	25	8LP2 X7HB28	65273	84.8	1.23	0.58	3.2	100.0
21	39	NC0011		84.4	1.47	0.48	4.7	100.0
21	60	DIXIE 82		84.4	1.44	0.50	4.8	98.3
21	33	T3HB4X7HB28	45458	83.8	1.45	0.50	3.7	96.7
21	20	THB8 X7HB28	45314	83.3	1.35	0.52	3.8	100.0
21	61	DIXIE 18		83.2	1.53	0.45	5.5	100.0
21	9	NC224X7HB28	15060	82.1	1.20	0.57	3.5	100.0
21	12	C2SA XRS14	25121	82.1	1.16	0.62	3.5	96.7
21	34	NC224X7HB28	45598	82.0	1.62	0.42	3.5	100.0
21	59	N C 288		80.8	1.28	0.53	5.0	100.0
21	44	NC0016		78.8	1.23	0.57	3.5	93.3
21	64	N C 27		78.6	1.56	0.43	4.5	98.3
21	42	NC0014		72.6	1.32	0.47	3.2	98.3
21	45	NC0017		67.6	1.13	0.50	2.8	100.0
21	43	NC0015		67.0	1.22	0.47	2.7	96.7
21	47	NC0019		64.5	1.10	0.49	2.7	100.0
21	52	NC0024		58.3	1.08	0.45	2.8	100.0

L. S. D. (.05) = 13.16
(.01) = 17.40
C. V. - 9%

ADVANCED DOUBLE CROSSES

C - 61 SALISBURY

	Entry	Hybrid		Y	E/P	EW	M	EH	S
61	21	NC83 X73L2	45466	154.9	1.73	0.56	16.2	4.8	94.0
61	62	DIXIE 29		146.4	1.76	0.61	20.1	5.3	85.7
61	59	N C 288		143.3	1.62	0.64	19.5	5.7	86.9
61	28	NC83 X7HB28	45450	134.5	1.68	0.55	19.6	4.8	90.5
61	46	NC0008		133.1	1.18	0.78	17.8	4.8	88.1
61	34	NC224X7HB28	45598	131.6	1.68	0.53	18.8	4.2	90.5
61	32	C2SA XNC224	45594	130.3	1.58	0.54	17.3	5.0	91.7
61	54	NC9211		128.7	1.44	0.64	19.4	4.7	86.9
61	30	T3HB4XNC220	45486	128.3	1.55	0.57	18.1	5.3	88.1
61	17	THB8 XNC224	45306	128.0	1.65	0.61	19.2	4.5	78.6
61	58	N C 270		127.2	1.24	0.79	20.8	5.7	83.3
61	51	NC0023		126.8	1.33	0.70	22.6	4.7	90.5
61	27	NC83 XT3HB4	45442	126.4	1.56	0.61	20.1	5.2	83.3
61	16	8LP2 XNC224	45262	124.5	1.60	0.57	18.5	4.8	83.3
61	48	NC0020		124.4	1.31	0.71	20.8	5.5	85.7
61	14	T3HB4XRS14	25117	122.0	1.15	0.74	19.5	4.0	89.3
61	57	COKER 811		119.8	1.78	0.59	22.2	5.2	75.0
61	26	8HL6 XK5Y6	65241	119.5	1.40	0.65	22.0	4.5	85.7
61	64	N C 27		117.4	1.75	0.58	17.4	5.7	70.2
61	20	THB8 X7HB28	45214	116.1	1.31	0.58	19.6	5.2	96.4
61	23	7HB28X8HL6	65301	115.9	1.23	0.71	20.5	4.5	84.5
61	8	T3HB4X73L9	15012	115.2	1.38	0.63	19.2	4.3	82.1
61	25	8LP2 X7HB28	65273	114.8	1.17	0.71	21.4	4.2	89.3
61	4	C2SA XNC222	25069	114.7	1.00	0.81	20.8	4.3	90.5
61	9	NC224X7HB28	15060	114.4	1.15	0.66	19.8	4.2	95.2
61	22	8LP2 X8HL6	65289	114.1	1.26	0.71	21.4	4.2	82.1
61	60	DIXIE 82		113.5	1.77	0.63	19.4	5.8	63.1
61	56	PIONEER 309B		112.0	1.38	0.72	20.2	4.5	71.4
61	35	T3HB4XUS18	45530	110.9	1.78	0.59	18.5	5.2	65.5
61	21	THB8 X7HB28	45317	110.2	1.07	0.80	22.2	4.7	84.5
61		EXPERIMENT MEAN		110.2	1.35	0.66	19.8	4.6	79.0
61	37	C2SA XNC220	45490	109.9	1.48	0.59	18.0	5.2	77.4
61	55	NC9203A		109.4	1.17	0.76	19.4	4.2	76.2
61	11	C2SA X73L9	15020	108.1	1.38	0.74	19.6	4.0	66.7
61	1	7HB28XNC222	15084	107.9	1.05	0.75	20.8	4.2	86.9
61	10	NC222XRS14	25141	107.5	1.13	0.83	20.8	4.0	73.8
61	19	THB8 XK5Y6	45242	107.3	1.35	0.60	18.8	4.8	82.1
61	29	NC220X7HB28	45494	104.4	1.59	0.54	18.5	4.8	75.0
61	38	NC83 XNC222	85557	104.3	1.67	0.67	18.1	5.2	57.1
61	39	NC0011		104.3	1.18	0.73	20.8	5.7	77.4
61	61	DIXIE 18		104.3	1.73	0.61	19.4	6.2	61.9
61	3	T3HB4X7HB28	15044	104.1	1.14	0.76	18.8	4.3	75.0
61	49	NC0021		103.0	1.21	0.70	21.4	5.7	78.6
61	15	T3HB4XNC224	25029	101.0	1.23	0.66	18.3	3.7	76.2
61	6	C2SA X7HB28	15048	100.5	1.03	0.70	20.0	4.5	88.1

C-61 Salisbury continued

	Entry	Hybrid		Y	E/P	EW	M	EH	S
61	12	C2SA XRS14	25121	100.1	1.31	0.74	19.5	3.8	64.3
61	47	NC0019		99.3	1.12	0.64	20.8	3.2	88.1
61	41	NC0013		98.7	1.52	0.52	18.5	5.5	76.2
61	7	HG4 X7HB28	15108	98.3	1.06	0.69	19.4	4.0	84.5
61	18	THB8 X8HL6	65321	98.2	1.15	0.76	22.2	4.0	73.8
61	40	NC0012		97.8	1.30	0.66	19.6	4.7	71.4
61	33	T3HB4X7HB28	45458	97.3	1.72	0.54	19.0	4.5	64.3
61	63	N C 42		97.1	1.53	0.68	19 8	5.7	58.3
61	36	T3HB4X73L2	45470	95.8	1.46	0.59	17.8	5.0	67.9
61	43	NC0015		93.5	1.21	0.66	20.3	3.0	73.8
61	44	NC0016		91.7	0.97	0.72	18.8	4.3	81.0
61	24	8LP2 X7HB8	45202	91.1	1.35	0.66	20.2	4.2	65.5
61	50	NC0022		90.5	1.03	0.79	22.2	4.5	72.6
61	42	NC0014		90.0	1.29	0.58	21.7	3.3	78.6
61	53	NC0026		89.0	1.11	0.65	19.1	3.8	76.2
61	2	T3HB4XHG4	25089	88.4	1.00	0.69	20.5	4.3	82.1
61	13	NC222XHG4	15112	88.0	1.20	0.78	20.3	4.2	59.5
61	45	NC0017		87.7	1.01	0.63	19.4	3.5	85.7
61	5	C2SA XRS14	15120	85.7	1.15	0.77	20.8	4.3	61.9
61	52	NC0024		80.0	0.99	0.63	21.7	3.3	83.3

L. S. D. (.05) = 37.01

(.01) = 48.02

C. V. - 21%

SUMMARY 93

DUPLICATE DOUBLE CROSSES

WILLARD (3), ROCKY MOUNT (13), PLYMOUTH (33), LEWISTON (53)

	Entry	Hybrid		Y	E/P	EW	RL*	SL**	EH	S
93	16	NC9049	20008	92.5	1.05	0.52	18.7	62.4	4.6	96.4
93	40	NC9077	20020	92.0	1.05	0.51	24.9	63.6	4.3	96.1
93	91	GT112XCI21		90.7	1.10	0.49	06.1	57.1	4.8	97.0
93	29	NC9062	10015	90.1	0.99	0.52	35.2	39.6	3.9	97.9
93	48	NC9089	20024	89.6	0.99	0.53	22.9	47.3	4.6	96.1
93	50	N C 288		89.6	1.06	0.50	18.6	77.1	4.8	96.5
93	2	NC9035	20001	89.5	1.01	0.51	22.9	51.5	4.6	97.3
93	15	NC9048	10008	89.5	1.03	0.50	29.4	51.4	4.1	96.7
93	38	NC9071	20019	88.3	1.07	0.48	21.8	73.5	4.3	96.7
93	42	NC9079	20021	87.1	1.03	0.51	22.0	60.2	3.9	93.7
93	1	NC9034	10001	86.7	1.05	0.48	30.5	57.4	4.0	96.4
93	25	NC9058	10013	86.4	1.05	0.47	23.3	67.2	4.4	97.9
93	30	NC9063	20015	86.2	0.97	0.56	33.5	42.3	4.3	90.5
93	49	DIXIE 82		85.7	1.10	0.46	16.3	76.3	4.8	95.8
93	5	NC9038	10003	85.5	1.02	0.48	30.7	50.3	3.9	96.7
93	31	NC9064	10016	85.5	0.98	0.51	23.2	62.1	3.8	96.4
93	8	NC9041	20004	85.1	0.95	0.53	35.3	43.6	4.9	94.7
93	46	NC9087	20023	84.9	1.02	0.48	27.9	47.0	4.4	96.7
93	35	NC9068	10018	84.6	1.00	0.52	27.6	55.6	4.2	92.6
93	44	NC9085	20022	84.4	0.99	0.52	32.0	50.7	4.5	91.7
93	34	NC9067	20017	83.8	0.99	0.51	22.9	54.9	4.5	93.7
93	43	NC9084	10022	83.4	0.98	0.53	21.2	57.2	4.1	92.0
93	10	NC9043	20005	83.3	1.03	0.54	28.8	51.2	4.6	85.1
93	19	NC9052	10010	83.2	1.03	0.48	18.2	61.4	4.2	94.9
93	21	NC9054	10011	83.2	1.02	0.48	13.1	79.2	4.5	95.5
93		OVERALL GROUP MEAN		83.0	1.01	0.50	24.4	55.1	4.3	93.9
93	27	NC9060	10014	83.0	1.03	0.47	32.4	50.1	3.8	96.4
93	3	NC9036	10002	82.9	1.00	0.49	22.7	53.0	4.4	95.3
93	36	NC9069	20018	82.9	0.94	0.51	27.0	56.4	4.6	96.7
93	47	NC9088	10024	82.9	1.00	0.49	26.9	60.4	4.1	94.9
93	7	NC9040	10004	82.8	1.01	0.49	35.0	48.9	4.6	94.9
93	17	NC9050	10009	82.7	1.03	0.47	25.1	42.5	4.6	96.1
93	26	NC9059	20013	82.7	1.06	0.49	14.6	64.9	4.8	90.5
93	13	NC9046	10007	82.6	1.01	0.50	27.6	60.4	4.1	92.6
93	39	NC9076	10020	82.5	0.97	0.50	29.2	51.5	3.6	95.9
93	32	NC9065	20016	82.4	1.02	0.49	19.7	66.7	4.3	93.2
93	23	NC9056	10012	82.2	1.00	0.48	25.2	53.9	4.1	97.0
93	4	NC9037	20002	81.6	0.97	0.53	23.7	41.9	4.6	89.0
93	28	NC9061	20014	81.3	1.01	0.52	28.3	41.5	4.3	87.5
93	45	NC9086	10023	81.2	1.06	0.44	25.4	59.2	4.1	96.4
93	9	NC9042	10005	80.4	1.00	0.49	25.1	54.5	4.0	93.5
93	11	NC9044	10006	80.4	1.00	0.48	22.5	43.9	4.0	94.7
93	6	NC9039	20003	79.5	0.96	0.54	28.9	46.1	4.3	86.9
93	37	NC9070	10019	79.3	0.99	0.46	25.6	64.0	3.9	97.9
93	24	NC9057	20012	79.1	0.99	0.50	35.8	42.4	4.4	90.5
93	22	NC9055	20011	78.9	1.01	0.49	20.3	63.6	4.6	89.9
93	33	NC9066	10017	78.7	0.93	0.50	28.8	47.9	4.2	95.9
93	14	NC9047	20007	78.5	0.96	0.52	23.2	53.6	4.4	88.4
93	18	NC9051	20009	77.8	0.95	0.51	22.9	40.5	4.9	90.5
93	41	NC9078	10021	75.3	1.00	0.44	25.4	62.9	3.7	97.0
93	20	NC9053	20010	74.1	0.91	0.54	21.1	47.7	4.3	86.3
93	90	G3D3 XC2U		69.1	0.98	0.42	06.9	35.7	2.1	97.0
93	12	NC9045	20006	60.7	0.96	0.44	14.0	73.4	3.7	81.6

L. S. D. (.05) = 9.41
(.01) = 12.42
C. V. = 14%

*RL data taken at Willard & Lewiston.

**SL data taken at Willard, Rocky Mount & Lewiston.

SUMMARY 83

D U P L I C A T E D O U B L E C R O S S E S

SUMMARY 34 (1959) and SUMMARY 93 (1960)

	Entry	Hybrid		Y	E/P	EW	RL	SL	EH	S
83	40	NC9077	20020	95.6	0.99	0.51	12.5	35.4	4.0	97.3
83	50	N C 288	20025	95.1	1.08	0.50	09.3	47.2	4.8	96.7
83	16	NC9049	20008	94.8	1.08	0.52	09.4	32.5	4.6	96.4
83	49	DIXIE 82	20029	94.0	1.15	0.46	08.2	48.2	4.6	96.1
83	42	NC9079	20021	92.3	1.02	0.51	11.0	32.8	3.8	95.3
83	38	NC9071	20019	91.6	1.07	0.48	10.9	43.1	4.1	96.8
83	7	NC9040	10004	91.3	1.04	0.49	17.5	32.8	4.5	95.1
83	36	NC9069	20018	91.2	0.96	0.51	13.5	32.2	4.4	97.6
83	8	NC9041	20004	91.0	0.98	0.53	17.7	30.5	4.9	94.2
83	46	NC9087	20023	90.8	1.05	0.48	14.0	29.4	4.2	97.2
83	34	NC9067	20017	90.7	1.03	0.51	11.5	32.2	4.4	92.9
83	29	NC9062	10015	90.0	0.94	0.52	17.6	20.8	3.6	97.6
83	3	NC9036	10002	89.6	1.01	0.49	11.4	28.6	4.2	96.3
83	25	NC9058	10013	89.3	1.03	0.47	11.7	40.7	4.1	97.0
83	35	NC9068	10018	89.1	0.97	0.52	13.8	33.1	4.0	94.9
83	48	NC9089	20024	88.7	0.98	0.53	11.5	30.4	4.3	96.5
83	1	NC9034	10001	88.3	1.04	0.48	15.3	35.5	3.8	96.4
83	30	NC9063	20015	88.3	0.94	0.56	16.8	22.0	3.9	91.7
83	32	NC9065	20016	88.3	1.03	0.49	09.9	37.4	4.1	92.3
83	21	NC9054	10011	88.1	1.00	0.48	06.6	48.7	4.3	95.6
83	44	NC9085	20022	87.9	0.99	0.52	16.0	29.1	4.4	93.3
83	26	NC9059	20013	87.7	1.07	0.49	07.3	39.7	4.5	90.7
83	15	NC9048	10008	87.1	1.01	0.50	14.7	29.6	3.9	97.0
83	10	NC9043	20005	86.6	1.02	0.54	14.4	29.2	4.5	87.2
83	43	NC9084	10022	86.5	0.97	0.53	10.6	35.3	3.9	95.0
83	45	NC9086	10023	86.5	1.04	0.44	12.7	33.3	3.9	97.6
83		OVERALL GROUP MEAN		86.0	1.00	0.50	12.6	32.7	4.1	94.3
83	4	NC9037	20002	85.6	0.98	0.53	11.9	24.5	4.6	89.6
83	13	NC9046	10007	85.6	1.02	0.50	13.8	35.0	4.0	94.3
83	5	NC9038	10003	84.8	1.03	0.48	15.4	30.0	3.8	96.0
83	24	NC9057	20012	84.7	0.99	0.50	17.9	25.0	4.2	93.1
83	14	NC9047	20007	84.4	1.03	0.52	11.6	30.6	4.4	88.3
83	19	NC9052	10010	84.4	0.99	0.48	09.1	35.1	3.9	96.3
83	22	NC9055	20011	84.3	0.98	0.49	10.2	38.7	4.5	91.4
83	28	NC9061	20014	84.3	1.00	0.52	14.2	22.6	4.0	88.2
83	17	NC9050	10009	83.8	1.03	0.47	12.6	24.0	4.3	95.5
83	31	NC9064	10016	83.7	0.97	0.51	11.6	35.9	3.6	97.4
83	27	NC9060	10014	83.6	0.99	0.47	16.2	27.9	3.7	97.4
83	23	NC9056	10012	83.5	0.98	0.48	12.6	29.2	4.0	98.1
83	37	NC9070	10019	82.4	0.98	0.46	12.8	38.0	3.7	97.6
83	18	NC9051	20009	82.3	1.01	0.51	11.5	22.1	4.8	90.7
83	39	NC9076	10020	82.3	0.93	0.50	14.6	29.8	3.4	97.4
83	9	NC9042	10005	82.1	0.98	0.49	12.6	29.5	3.7	96.0
83	47	NC9088	10024	81.0	0.97	0.49	13.5	35.0	3.9	96.3
83	33	NC9066	10017	80.2	0.90	0.50	14.4	28.4	4.0	97.4
83	11	NC9044	10006	79.8	0.97	0.48	11.3	24.1	3.8	95.4
83	20	NC9053	20010	79.7	0.95	0.54	10.6	26.6	4.1	87.2
83	41	NC9078	10021	79.7	1.00	0.44	12.7	34.8	3.5	97.3
83	6	NC9039	20003	79.0	0.98	0.54	14.5	26.7	4.1	87.7
83	2	NC9035	20001	76.7	0.92	0.51	11.5	40.8	3.8	93.1
83	12	NC9045	20006	59.6	0.92	0.44	07.0	49.5	3.5	80.3

DUPLICATE DOUBLE CROSSES

C - 3 WILLARD

	Entry	Hybrid		Y	E/P	EW	RL	SL	EH	S
3	91	GT112XCI21		106.7	1.48	0.43	02.4	71.1	4.8	98.8
3	40	NC9077	20020	88.1	1.05	0.49	39.3	56.0	4.5	100.0
3	42	NC9079	20021	86.7	1.01	0.51	41.5	41.5	4.3	97.6
3	50	N C 288		86.3	1.15	0.44	34.5	58.3	5.2	100.0
3	48	NC9089	20024	83.4	0.96	0.50	36.9	48.8	4.8	100.0
3	32	NC9065	20016	80.4	1.04	0.46	34.1	58.5	4.5	97.6
3	10	NC9043	20005	77.5	1.06	0.46	54.5	35.1	4.8	91.7
3	16	NC9049	20008	77.3	1.12	0.41	36.1	55.4	4.3	98.8
3	28	NC9061	20014	77.3	1.03	0.47	47.4	28.2	4.3	92.9
3	47	NC9088	10024	77.3	1.01	0.46	47.6	47.6	4.5	97.6
3	49	DIXIE 82		77.1	1.11	0.41	32.5	60.2	5.0	98.8
3	38	NC9071	20019	76.9	1.10	0.41	41.0	53.0	4.3	98.8
3	11	NC9044	10006	76.3	1.02	0.44	41.0	43.4	4.3	98.8
3	46	NC9087	20023	76.1	1.00	0.45	50.6	43.4	4.7	98.8
3	15	NC9048	10008	74.7	1.01	0.43	52.4	42.9	4.5	100.0
3	2	NC9035	20001	74.1	1.01	0.43	45.8	44.6	4.5	98.8
3	26	NC9059	20013	73.8	1.12	0.43	25.0	61.8	5.2	90.5
3	39	NC9076	10020	73.0	0.93	0.46	57.1	38.1	4.2	100.0
3	27	NC9060	10014	72.8	1.00	0.43	45.2	38.1	4.3	100.0
3	31	NC9064	10016	72.8	0.95	0.46	40.2	56.1	4.0	97.6
3	8	NC9041	20004	72.6	0.98	0.43	67.9	25.0	4.8	100.0
3	21	NC9054	10011	72.4	0.96	0.44	26.2	70.2	4.2	100.0
3	17	NC9050	10009	71.8	1.02	0.41	47.6	27.4	4.7	100.0
3		EXPERIMENT MEAN		71.7	0.99	0.43	43.4	45.0	4.5	97.8
3	25	NC9058	10013	71.2	1.06	0.39	41.7	57.1	4.7	100.0
3	36	NC9069	20018	71.2	0.94	0.44	48.8	45.2	4.7	100.0
3	3	NC9036	10002	70.6	0.95	0.43	42.9	35.7	4.3	100.0
3	22	NC9055	20011	70.4	0.94	0.44	40.5	58.3	4.7	100.0
3	4	NC9037	20002	70.0	0.92	0.48	42.9	33.8	4.7	91.7
3	43	NC9084	10022	70.0	0.93	0.44	35.7	57.1	4.3	100.0
3	5	NC9038	10003	69.2	1.00	0.43	59.0	30.8	4.2	92.9
3	34	NC9067	20017	69.2	0.90	0.46	41.5	53.7	4.7	97.6
3	18	NC9051	20009	68.5	0.89	0.45	45.8	34.9	5.0	98.8
3	19	NC9052	10010	68.3	0.95	0.42	34.9	51.8	4.8	98.8
3	1	NC9034	10001	67.7	0.99	0.40	48.2	48.2	4.3	98.8
3	13	NC9046	10007	67.7	0.95	0.42	51.2	46.4	4.5	100.0
3	37	NC9070	10019	67.5	0.95	0.41	48.8	34.5	4.3	100.0
3	35	NC9068	10018	67.1	0.98	0.41	42.2	55.4	4.2	98.8
3	9	NC9042	10005	66.9	0.96	0.42	46.3	34.1	4.3	97.6
3	29	NC9062	10015	66.7	0.90	0.43	61.9	26.2	4.2	100.0
3	24	NC9057	20012	66.5	1.01	0.40	63.0	29.6	4.5	96.4
3	44	NC9085	20022	66.1	0.88	0.46	53.1	39.5	4.8	96.4
3	45	NC9086	10023	65.9	1.00	0.38	42.9	47.6	4.3	100.0
3	33	NC9066	10017	64.9	0.86	0.44	53.6	38.1	4.3	100.0
3	23	NC9056	10012	64.6	0.98	0.39	40.5	51.2	4.2	100.0
3	30	NC9063	20015	64.6	0.90	0.43	61.0	28.0	4.7	97.6
3	20	NC9053	20010	64.0	0.85	0.45	37.8	41.5	4.5	97.6
3	6	NC9039	20003	63.6	0.92	0.45	54.7	30.7	4.5	89.3
3	7	NC9040	10004	63.6	0.93	0.40	58.3	33.3	4.5	100.0
3	41	NC9078	10021	63.2	0.88	0.42	48.2	38.6	4.2	98.8
3	14	NC9047	20007	63.0	0.96	0.42	38.2	47.4	4.7	90.5
3	90	G3D3 XC2U		59.1	1.10	0.32	06.0	30.1	2.5	98.8
3	12	NC9045	20006	53.9	0.79	0.44	21.1	75.0	4.0	90.5

L. S. D. (.05) = 14.78
(.01) = 19.56
C. V. - 13%

DUPLICATE DOUBLE CROSSES

C - 13 ROCKY MOUNT

	Entry	Hybrid		Y	E/P	EW	SL	EH	S
13	22	NC9055	20011	90.7	1.04	0.51	92.2	4.7	91.7
13	16	NC9049	20008	90.5	0.99	0.52	89.9	4.8	94.0
13	44	NC9085	20022	90.5	0.97	0.54	91.0	4.5	92.9
13	2	NC9035	20001	89.4	0.95	0.51	90.4	4.5	98.8
13	26	NC9059	20013	89.2	1.05	0.49	82.1	4.8	92.9
13	29	NC9062	10015	89.2	1.03	0.50	69.6	4.0	94.0
13	34	NC9067	20017	89.0	1.01	0.48	84.3	4.3	98.8
13	35	NC9068	10018	88.7	1.01	0.52	75.0	4.2	90.5
13	21	NC9054	10011	88.5	1.01	0.49	87.5	4.5	95.2
13	1	NC9034	10001	88.3	1.04	0.49	82.1	3.8	92.9
13	13	NC9046	10007	88.3	1.01	0.52	84.2	4.0	90.5
13	19	NC9052	10010	88.3	1.05	0.46	92.7	4.0	97.6
13	31	NC9064	10016	88.0	1.05	0.49	83.3	3.8	92.9
13	8	NC9041	20004	87.6	0.88	0.60	86.7	5.0	89.3
13	38	NC9071	20019	87.6	0.99	0.49	86.6	4.0	97.6
13	43	NC9084	10022	87.6	0.99	0.53	76.3	4.0	90.5
13	7	NC9040	10004	87.0	1.05	0.47	89.9	4.7	94.0
13	10	NC9043	20005	87.0	0.91	0.55	81.0	4.7	94.0
13	37	NC9070	10019	87.0	1.04	0.47	80.2	4.0	96.4
13	46	NC9087	20023	87.0	0.95	0.50	78.3	4.3	98.8
13	5	NC9038	10003	86.7	1.04	0.48	79.7	3.7	94.0
13	9	NC9042	10005	86.7	1.08	0.47	76.9	3.5	92.9
13	27	NC9060	10014	86.5	1.06	0.47	78.5	3.5	94.0
13	48	NC9089	20024	86.1	0.96	0.52	76.9	4.8	92.9
13	15	NC9048	10008	85.4	1.00	0.49	75.9	3.8	94.0
13	36	NC9069	20018	85.4	0.95	0.51	86.1	4.8	94.0
13	50	N C 288		85.4	1.03	0.48	83.3	5.0	92.9
13	32	NC9065	20016	85.2	1.05	0.48	88.3	4.3	91.7
13	23	NC9056	10012	85.0	1.03	0.47	78.5	4.0	94.0
13	6	NC9039	20003	84.7	1.03	0.51	84.9	4.2	86.9
13	42	NC9079	20021	84.7	1.03	0.51	82.2	3.7	86.9
13		EXPERIMENT MEAN		84.4	1.00	0.49	82.3	4.2	92.8
13	17	NC9050	10009	84.3	1.07	0.44	72.8	4.8	96.4
13	25	NC9058	10013	83.9	1.05	0.46	82.3	4.3	94.0
13	28	NC9061	20014	83.9	0.96	0.51	78.2	4.2	92.9
13	3	NC9036	10002	83.4	0.99	0.49	83.3	4.5	92.9
13	30	NC9063	20015	83.4	0.97	0.50	88.5	4.2	92.9
13	47	NC9088	10024	83.2	1.01	0.49	84.2	4.0	90.5
13	45	NC9086	10023	83.0	1.05	0.44	85.4	4.2	97.6
13	91	GT112XCI21		83.0	0.93	0.48	85.7	5.0	100.0
13	40	NC9077	20020	82.7	0.90	0.52	87.5	4.3	95.2
13	49	DIXIE 82		82.7	1.02	0.45	90.2	4.7	97.6
13	11	NC9044	10006	82.5	1.03	0.47	53.2	4.0	91.7
13	18	NC9051	20009	82.3	1.00	0.50	77.0	5.0	88.1
13	4	NC9037	20002	81.7	0.90	0.51	80.0	4.7	95.2
13	14	NC9047	20007	81.2	0.99	0.52	85.9	4.2	84.5
13	33	NC9066	10017	79.9	0.95	0.49	82.1	4.2	92.9
13	24	NC9057	20012	79.2	0.92	0.53	83.6	4.2	86.9
13	39	NC9076	10020	77.4	1.00	0.45	81.8	3.2	91.7
13	41	NC9078	10021	76.1	1.00	0.44	82.1	3.2	92.9
13	20	NC9053	20010	74.8	1.00	0.49	89.9	4.3	82.1
13	90	G3D3 XC2U		67.5	0.85	0.44	64.2	2.2	96.4
13	12	NC9045	20006	64.8	1.03	0.44	87.7	3.5	77.4

L. S. D. (.05) = 10.02
(.01) = 13.26
C. V. - %

DUPLICATE DOUBLE CROSSES

C - 33 PLYMOUTH

	Entry	Hybrid		Y	E/P	EW	EH	S
33	2	NC9035	20001	112.2	1.06	0.62	5.3	100.0
33	29	NC9062	10015	108.9	1.01	0.64	4.3	98.8
33	25	NC9058	10013	108.3	1.05	0.60	4.7	100.0
33	46	NC9087	20023	107.3	1.19	0.55	5.2	96.4
33	15	NC9048	10008	106.7	1.12	0.56	4.5	98.8
33	49	DIXIE 82		106.2	1.17	0.54	5.3	98.8
33	21	NC9054	10011	105.9	1.18	0.57	5.2	91.7
33	1	NC9034	10001	104.7	1.17	0.52	4.7	100.0
33	7	NC9040	10004	103.6	1.01	0.64	5.2	94.0
33	31	NC9064	10016	103.4	0.96	0.63	4.3	98.8
33	50	N C 288		103.2	1.04	0.58	4.8	100.0
33	40	NC9077	20020	102.6	1.20	0.50	4.7	98.8
33	38	NC9071	20019	102.2	1.14	0.54	5.0	96.4
33	34	NC9067	20017	102.0	1.08	0.59	4.8	94.0
33	8	NC9041	20004	101.8	1.00	0.62	5.3	96.4
33	16	NC9049	20008	101.8	1.05	0.59	5.0	96.4
33	45	NC9086	10023	101.3	1.18	0.51	4.8	97.6
33	44	NC9085	20022	101.2	1.20	0.55	4.8	89.3
33	35	NC9068	10018	100.4	1.03	0.64	4.5	89.3
33	30	NC9063	20015	99.5	0.95	0.67	4.5	91.7
33	36	NC9069	20018	99.1	0.94	0.62	5.0	98.8
33	19	NC9052	10010	98.1	1.06	0.56	4.5	96.4
33	39	NC9076	10020	98.1	0.93	0.62	4.2	98.8
33	24	NC9057	20012	97.9	1.04	0.59	5.0	94.0
33	5	NC9038	10003	97.7	1.06	0.54	4.5	100.0
33	27	NC9060	10014	96.9	1.01	0.56	4.5	100.0
33		EXPERIMENT MEAN		95.9	1.05	0.57	4.7	94.4
33	42	NC9079	20021	95.7	1.10	0.53	4.5	96.4
33	13	NC9046	10007	94.9	1.12	0.56	4.5	88.1
33	4	NC9037	20002	94.6	1.07	0.58	5.0	89.3
33	26	NC9059	20013	94.6	1.05	0.57	5.0	91.7
33	17	NC9050	10009	94.2	1.06	0.54	5.2	96.4
33	14	NC9047	20007	94.0	1.01	0.59	4.8	91.7
33	41	NC9078	10021	93.4	1.10	0.50	4.5	100.0
33	23	NC9056	10012	93.2	0.96	0.58	4.7	97.6
33	33	NC9066	10017	93.2	0.89	0.62	4.7	98.8
33	3	NC9036	10002	93.0	1.05	0.56	5.0	92.9
33	22	NC9055	20011	93.0	1.05	0.58	4.8	88.1
33	48	NC9089	20024	92.0	1.01	0.55	4.8	96.4
33	47	NC9088	10024	91.8	1.03	0.55	4.7	95.2
33	28	NC9061	20014	90.9	1.07	0.58	4.8	85.7
33	32	NC9065	20016	90.8	1.04	0.56	4.7	91.7
33	9	NC9042	10005	90.1	1.03	0.57	4.5	90.5
33	10	NC9043	20005	90.1	1.14	0.59	5.0	78.6
33	18	NC9051	20009	90.1	1.05	0.57	5.2	88.1
33	37	NC9070	10019	89.4	1.01	0.54	4.3	95.2
33	43	NC9084	10022	89.4	0.97	0.62	4.7	86.9
33	6	NC9039	20003	88.1	0.91	0.61	4.8	92.9
33	11	NC9044	10006	87.7	0.96	0.55	4.7	96.4
33	20	NC9053	20010	83.0	0.97	0.60	4.5	83.3
33	91	GT112XCI21		79.3	1.01	0.50	5.2	91.7
33	90	G3D3 XC2U		75.3	0.96	0.46	2.2	100.0
33	12	NC9045	20006	58.3	0.97	0.40	4.0	88.1

L. S. D. (.05) = 18.85
(.01) = 24.95
C. V. - 12%

DUPLICATE DOUBLE CROSSES

C - 53 LEWISTON

	Entry	Hybrid		Y	E/P	EW	RL	SL	EH	S
53	16	NC9049	20008	100.5	1.04	0.54	01.2	42.0	4.2	96.4
53	30	NC9063	20015	97.1	1.04	0.63	06.0	10.4	3.7	79.8
53	48	NC9089	20024	96.7	1.01	0.54	08.8	16.3	4.0	95.2
53	29	NC9062	10015	95.6	1.00	0.52	08.4	22.9	3.2	98.8
53	40	NC9077	20020	94.7	1.04	0.54	10.5	47.4	3.7	90.5
53	91	GT112XCI21		93.8	0.98	0.53	09.9	14.6	4.3	97.6
53	15	NC9048	10008	91.0	0.99	0.53	06.3	35.4	3.5	94.0
53	5	NC9038	10003	88.3	0.99	0.48	02.4	40.5	3.3	100.0
53	43	NC9084	10022	86.7	1.01	0.51	06.6	38.2	3.3	90.5
53	38	NC9071	20019	86.5	1.03	0.48	02.5	81.0	3.8	94.0
53	1	NC9034	10001	86.1	1.01	0.49	12.7	41.8	3.2	94.0
53	23	NC9056	10012	86.1	1.02	0.47	09.9	32.1	3.3	96.4
53	3	NC9036	10002	84.5	1.01	0.47	02.5	40.0	3.7	95.2
53	50	N C 288		83.4	1.01	0.48	02.6	89.7	4.3	92.9
53	25	NC9058	10013	82.3	1.02	0.44	04.9	62.2	3.8	97.6
53	2	NC9035	20001	82.1	1.03	0.47		19.5	4.0	91.7
53	35	NC9068	10018	82.1	0.97	0.49	13.0	36.4	3.7	91.7
53	6	NC9039	20003	81.4	0.98	0.57	03.0	22.7	3.8	78.6
53	39	NC9076	10020	81.4	1.00	0.47	01.3	34.6	2.7	92.9
53	42	NC9079	20021	81.4	0.99	0.47	02.5	57.0	3.2	94.0
53	17	NC9050	10009	80.3	0.97	0.48	02.6	27.3	3.8	91.7
53	4	NC9037	20002	79.9	1.00	0.54	04.5	11.9	3.8	79.8
53	44	NC9085	20022	79.9	0.91	0.54	10.8	21.6	3.7	88.1
53		EXPERIMENT MEAN		79.7	0.99	0.48	05.4	38.2	3.6	90.5
53	13	NC9046	10007	79.4	0.97	0.48	03.9	50.6	3.5	91.7
53	47	NC9088	10024	79.4	0.95	0.47	06.2	49.4	3.3	96.4
53	8	NC9041	20004	78.4	0.94	0.48	02.6	19.2	4.5	92.9
53	10	NC9043	20005	78.4	1.02	0.54	03.1	37.5	4.0	76.2
53	9	NC9042	10005	77.9	0.92	0.49	03.8	52.6	3.7	92.9
53	19	NC9052	10010	77.9	1.04	0.46	01.4	39.7	3.5	86.9
53	31	NC9064	10016	77.7	0.96	0.45	06.2	46.9	3.0	96.4
53	7	NC9040	10004	76.8	1.05	0.43	11.7	23.4	3.8	91.7
53	33	NC9066	10017	76.8	1.01	0.44	03.9	23.4	3.5	91.7
53	49	DIXIE 82		76.8	1.08	0.43		78.4	4.3	88.1
53	27	NC9060	10014	75.9	1.03	0.43	19.5	33.8	3.0	91.7
53	14	NC9047	20007	75.7	0.88	0.53	08.2	27.4	3.8	86.9
53	36	NC9069	20018	75.7	0.94	0.46	05.1	38.0	4.0	94.0
53	11	NC9044	10006	75.0	1.00	0.44	03.9	35.1	3.0	91.7
53	34	NC9067	20017	75.0	0.97	0.49	04.2	26.8	4.3	84.5
53	20	NC9053	20010	74.6	0.81	0.60	04.3	11.6	3.8	82.1
53	45	NC9086	10023	74.6	1.01	0.44	07.9	44.7	3.0	90.5
53	90	G3D3 XC2U		74.6	0.99	0.44	07.7	12.8	1.5	92.9
53	26	NC9059	20013	73.2	1.00	0.45	04.1	50.7	4.0	86.9
53	32	NC9065	20016	73.2	0.95	0.45	05.2	53.2	3.5	91.7
53	37	NC9070	10019	73.2	0.94	0.42	02.4	77.4	3.0	100.0
53	28	NC9061	20014	73.0	0.97	0.52	09.1	18.2	3.7	78.6
53	24	NC9057	20012	72.8	1.00	0.46	08.5	14.1	3.7	84.5
53	18	NC9051	20009	70.4	0.86	0.50		9.6	4.2	86.9
53	46	NC9087	20023	69.3	0.94	0.43	05.1	19.2	3.5	92.9
53	41	NC9078	10021	68.6	1.01	0.38	02.5	67.9	2.7	96.4
53	21	NC9054	10011	65.9	0.91	0.41		80.0	4.2	95.2
53	12	NC9045	20006	65.7	1.05	0.48	06.8	57.6	3.2	70.2
53	22	NC9055	20011	61.3	1.00	0.41		40.3	4.3	79.8

L. S. D. (.05) = 15.53
(.01) = 20.56
C. V. - 12%

SUMMARY 95

TOP CROSS TEST I

ROCKY MOUNT (26), PLYMOUTH (37)

	Entry	Pedigree*			Y	E/P	EW	SL**	EH	S
95	54	DIXIE 82			99.9	1.26	0.47	78.5	4.8	94.0
95	31	T204XN83	9	55	98.6	1.05	0.55	90.2	5.0	95.3
95	5	T3HB4X73HB4	9	14	98.0	0.99	0.58	82.5	4.8	97.0
95	48	NC222XNC83	9	510	97.7	0.98	0.59	80.7	4.4	96.4
95	14	T3HB4X833W	9	30	97.1	1.00	0.57	84.0	4.6	96.4
95	43	NC218XNC220	9	93	97.1	1.00	0.56	88.0	4.7	98.8
95	53	P 309B			96.8	1.10	0.51	90.4	4.6	97.0
95	29	NC222XRC12N	9	49	96.6	0.95	0.60	93.9	4.9	95.8
95	11	T3HB4X73D	9	22	95.4	1.00	0.58	76.0	4.8	92.9
95	25	DP102NXUL14	9	42	95.1	0.88	0.68	83.8	4.9	90.5
95	45	L101XNC83	9	107	93.9	0.97	0.55	73.2	4.8	97.6
95	17	T3HB4XMO 32D	9	33	93.7	1.01	0.57	79.2	4.6	92.3
95	33	T3HB4XL?D6	9	61	92.5	0.95	0.57	81.0	4.8	95.2
95	55	N C 288			92.5	1.06	0.50	86.3	4.9	97.6
95	30	T204XNC7	9	54	92.3	1.06	0.51	84.8	4.7	95.8
95	51	T3HB4XNC220	9	301	91.7	1.01	0.55	90.4	4.9	92.3
95	46	K5Y6XMT4	9	109	91.5	0.95	0.57	71.3	4.5	95.8
95	20	T3HB4XUL7	9	37	91.3	1.02	0.54	79.2	4.5	92.9
95	32	NC7XT3HB4	9	57	91.2	1.06	0.53	73.4	4.6	92.9
95	49	NC270		449	90.7	1.02	0.51	89.0	4.8	98.2
95	3	T3HB4X72HB6	9	7	90.6	0.98	0.55	79.2	4.8	95.3
95	8	T3HB4X73HB10	9	18	90.5	0.93	0.59	84.8	4.6	94.0
95	18	T3HB4XRC12N	9	34	89.3	0.92	0.58	84.1	4.9	94.7
95	13	T3HB4X813N	9	25	89.1	1.05	0.53	81.3	4.6	90.5
95	40	T2HB4XMT4	9	73	89.0	0.96	0.54	84.0	4.8	98.2
95	9	T3HB4X73HB10	9	19	88.8	0.98	0.57	77.6	4.3	89.3
95	15	T3HB4XDP102N	9	31	88.6	0.85	0.60	93.8	4.5	97.6
95	41	K5Y6XMT4	9	74	88.2	0.86	0.59	73.8	4.9	100.0
95	44	8J4XNC222	9	99	88.1	0.87	0.58	92.6	4.6	98.2
95		OVERALL GROUP MEAN			88.0	0.94	0.57	81.4	4.7	93.8
95	7	T3HB4X73HB8	9	17	88.0	1.00	0.56	79.5	4.2	89.9
95	56	CI21XGT112			87.8	1.00	0.52	81.3	5.1	95.8
95	28	H29751XDP10	9	46	87.2	0.84	0.61	87.7	4.9	97.0
95	42	T2HB2X8LP2	9	75	87.1	0.87	0.60	90.7	4.5	94.7
95	16	T3HB4XDP102U	9	32	85.7	0.86	0.63	82.4	4.4	89.9
95	4	T3HB4X72HB8	9	9	85.1	0.94	0.57	85.1	4.7	90.5
95	36	T3HB4XL2D9	9	66	85.1	0.91	0.55	80.0	4.8	97.0
95	23	T3HB4XF62J	9	40	84.6	0.97	0.55	60.0	5.0	89.9
95	52	COKER 811			84.5	1.19	0.43	83.3	5.0	95.3
95	37	UL12XL3D1	9	68	83.7	0.90	0.58	82.4	5.0	90.5
95	26	H29751XDP102U	9	44	83.6	0.81	0.64	92.4	4.9	92.9
95	34	T3HB4XL3D16	9	64	83.2	0.87	0.56	74.4	4.7	96.5
95	39	T2HB4X8LP2	9	72	83.2	0.89	0.55	86.3	4.6	96.4
95	6	T3HB4X73HB6	9	16	83.0	0.87	0.61	73.9	4.7	89.3
95	19	T3HB4XFULP	9	35	82.5	0.90	0.56	76.6	4.8	92.3

*Entries are double crosses of indicated single crosses with the common male C3SA7 x HG4.

**Stalk Lodging data taken at Rocky Mount only.

SUMMARY 95 continued

	Entry	Pedigree*			Y	E/P	EW	SL**	EH	S
95	47	C3SA7XHG4 Tester			82.4	0.82	0.59	79.5	4.8	95.3
95	1	T3HB4X7HB22	9	1	82.1	0.95	0.55	77.5	4.8	88.1
95	50	T3HB4X72HB10	9	277	81.7	0.88	0.57	80.8	4.6	92.3
95	2	T3HB4X7HB26	9	2	81.0	0.95	0.57	79.7	4.9	84.6
95	35	T3HB4XL3D9	9	65	80.9	0.86	0.58	85.9	4.6	90.5
95	22	T3HB4XUL14	9	39	80.7	0.89	0.58	73.1	4.5	89.9
95	10	T3HB4X73HB12	9	20	80.2	0.86	0.54	80.0	4.3	97.6
95	38	T2HB4XK5Y6	9	71	78.7	0.76	0.59	80.7	4.8	98.2
95	27	H29751XDP102N	9	45	78.5	0.83	0.58	81.5	4.8	91.7
95	21	T3HB4XUL13	9	38	78.4	0.90	0.56	59.1	4.5	88.1
95	24	DP10XUL14	9	41	77.0	0.73	0.65	68.8	5.0	92.3
95	12	T3HB4X813N	9	24	75.2	0.84	0.59	87.9	4.3	85.8

L. S. D. (.05) = 11.62
(.01) = 15.46
C. V. - 11%

TOP CROSS TEST I

C - 26 ROCKY MOUNT

	Entry	Pedigree*			Y	E/P	EW	SL	EH	S
26	43	NC218XNC220	9	93	99.3	1.06	0.51	88.0	4.5	98.8
26	31	T204XN83	9	55	96.1	0.95	0.55	90.2	4.7	97.6
26	53	P 309B			93.6	1.04	0.49	90.4	4.0	98.8
26	49	NC270		449	92.8	1.02	0.50	89.0	4.7	97.6
26	48	NC222XNC83	9	510	92.4	0.92	0.55	80.7	4.5	98.8
26	17	T3HB4XMO 32D	9	33	92.1	1.00	0.54	79.2	4.0	91.7
26	45	L101XNC83	9	107	92.0	0.99	0.50	73.2	4.5	97.6
26	5	T3HB4X73HB4	9	14	91.8	1.04	0.49	82.5	4.0	95.2
26	55	N C 288			90.9	1.06	0.48	86.3	4.5	95.2
26	14	T3HB4X833W	9	30	90.6	0.98	0.52	84.0	4.3	96.4
26	54	DIXIE 82			88.9	1.11	0.45	78.5	4.7	94.0
26	8	T3HB4X73HB10	9	18	88.0	0.96	0.53	84.8	4.2	94.0
26	25	DP102NXUL14	9	42	87.4	0.78	0.64	83.8	4.5	95.2
26	16	T3HB4XDP102U	9	32	86.9	0.94	0.62	82.4	4.2	81.0
26	40	T2HB4XMT4	9	73	86.7	1.02	0.48	84.0	4.3	96.4
26	32	NC7XT3HB4	9	57	86.5	1.03	0.49	73.4	4.5	94.0
26	33	T3HB4XL2D6	9	61	86.5	0.92	0.53	81.0	4.3	94.0
26	6	T3HB4X73HB6	9	16	86.4	0.94	0.61	73.9	4.2	82.1
26	30	T204XNC7	9	54	86.3	0.96	0.51	84.8	4.3	94.0
26	28	H29751XDP10	9	46	86.1	0.90	0.54	87.7	4.5	96.4
26	7	T3HB4X73HB8	9	17	85.7	1.00	0.54	79.5	3.8	86.9
26	15	T3HB4XDP102N	9	31	85.7	0.86	0.55	93.8	4.3	96.4
26	29	NC222XRC12N	9	49	85.5	0.94	0.50	93.9	4.5	97.6
26	56	CI21XGT112			85.5	0.94	0.51	81.3	5.0	95.2
26	51	T3HB4XNC220	9	301	85.1	1.01	0.52	90.4	4.5	86.9
26	3	T3HB4X72HB6	9	7	85.0	0.99	0.50	79.2	4.3	91.7
26	2	T3HB4X7HB26	9	2	84.8	0.99	0.53	79.7	4.2	88.1
26	42	T2HB2X8LP2	9	75	84.2	0.91	0.56	90.7	4.0	89.3
26	18	T3HB4XRC12N	9	34	84.1	0.89	0.52	84.1	4.5	97.6
26	11	T3HB4X73D	9	22	83.9	0.99	0.51	76.0	4.5	89.3
26	9	T3HB4X73HB10	9	19	83.1	0.93	0.53	77.6	4.3	90.5
26	19	T3HB4XFULP	9	35	83.1	0.97	0.50	76.6	4.3	91.7
26		EXPERIMENT MEAN			82.8	0.93	0.52	81.4	4.3	92.5
26	46	K5Y6XMT4	9	109	82.5	0.91	0.51	71.3	4.0	95.2
26	4	T3HB4X72HB8	9	9	82.3	0.96	0.53	85.1	4.2	88.1
26	13	T3HB4X813N	9	25	82.3	0.99	0.47	81.3	4.3	95.2
26	20	T3HB4XUL7	9	37	81.8	0.97	0.52	79.2	4.0	85.7
26	44	8J4XNC222	9	99	81.7	0.86	0.52	92.6	4.3	96.4
26	23	T3HB4XF62J	9	40	81.6	0.90	0.51	60.0	4.2	95.2
26	52	COKER 811			79.9	1.08	0.44	83.3	4.7	92.9
26	36	T3HB4XL2D9	9	66	79.5	0.89	0.51	80.0	4.3	95.2
26	47	C3SA7XHG4	Tester		78.4	0.86	0.52	79.5	4.2	92.9
26	34	T3HB4XL3D16	9	64	77.8	0.90	0.50	74.4	4.2	92.9
26	41	K5Y6XMT4	9	74	76.4	0.79	0.53	73.8	4.3	100.0
26	37	UL12XL3D1	9	68	75.7	0.88	0.52	82.4	4.5	88.1

*Entries are double crosses of indicated single crosses with the common male C3SA7 x HG4.

C-26 Rocky Mount continued

	Entry	Pedigree*			Y	E/P	EW	SL	EH	S
26	50	T3HB4X72HB10	9	277	75.0	0.82	0.53	80.8	4.0	92.9
26	22	T3HB4XUL14	9	39	74.2	0.93	0.55	73.1	4.2	79.8
26	24	DP10XUL14	9	41	74.0	0.73	0.61	68.8	4.7	91.7
26	26	H29751XDP102U	9	44	73.8	0.81	0.53	92.4	4.5	94.0
26	10	T3HB4X73HB12	9	20	73.2	0.86	0.48	80.0	3.8	95.2
26	12	T3HB4X813N	9	24	70.6	0.91	0.52	87.9	4.0	78.6
26	27	H29751XDP102N	9	45	70.5	0.75	0.52	81.5	4.3	96.4
26	39	T2HB4X8LP2	9	72	70.5	0.84	0.47	86.3	4.2	95.2
26	35	T3HB4XL3D9	9	65	70.4	0.87	0.51	85.9	4.2	84.5
26	21	T3HB4XUL13	9	38	70.1	0.89	0.55	59.1	4.2	78.6
26	38	T2HB4XK5Y6	9	71	69.9	0.72	0.53	80.7	4.3	98.8
26	1	T3HB4X7HB22	9	1	69.2	0.93	0.47	77.5	4.0	84.5

L. S. D. (.05) = 13.50

(.01) = 17.87

C. V. - 10%

TOP CROSS TEST I

C - 37 PLYMOUTH

	Entry	Pedigree*			Y	E/P	EW	EH	S
37	54	DIXIE 82			110.8	1.41	0.49	4.8	94.0
37	29	NC222XRC12N	9	49	107.7	0.95	0.70	5.2	94.0
37	11	T3HB4X73D	9	22	106.9	1.01	0.64	5.0	96.4
37	5	T3HB4X73HB4	9	14	104.2	0.93	0.66	5.5	98.8
37	14	T3HB4X833W	9	30	103.6	1.01	0.62	4.8	96.4
37	48	NC222XNC83	9	510	103.0	1.04	0.62	4.3	94.0
37	25	DP102NX'JL14	9	42	102.8	0.97	0.72	5.3	85.7
37	31	T204XN83	9	55	101.0	1.15	0.55	5.3	92.9
37	20	T3HB4XUL7	9	37	100.7	1.06	0.56	5.0	100.0
37	46	K5Y6XMT4	9	109	100.4	0.98	0.62	5.0	96.4
37	41	K5Y6XMT4	9	74	99.9	0.92	0.64	5.5	100.0
37	53	P 309B			99.9	1.15	0.53	5.2	95.2
37	33	T3HB4XL2D6	9	61	98.5	0.98	0.61	5.2	96.4
37	30	T204XNC7	9	54	98.3	1.16	0.51	5.0	97.6
37	51	T3HB4XNC220	9	301	98.3	1.01	0.58	5.2	97.6
37	3	T3HB4X72HB6	9	7	96.1	0.96	0.59	5.3	98.8
37	13	T3HB4X813N	9	25	95.8	1.10	0.59	4.8	85.7
37	32	NC7XT3HB4	9	57	95.8	1.08	0.57	4.7	91.7
37	39	T2HB4X8LP2	9	72	95.8	0.93	0.62	5.0	97.6
37	45	L101XNC83	9	107	95.7	0.95	0.60	5.0	97.6
37	17	T3HB4XMO 32D	9	33	95.2	1.01	0.59	5.2	92.9
37	1	T3HB4X7HB22	9	1	94.9	0.97	0.62	5.5	91.7
37	43	NC218XNC220	9	93	94.9	0.93	0.60	4.8	98.8
37	9	T3HB4X73HB10	9	19	94.4	1.03	0.61	4.3	88.1
37	18	T3HB4XRC12N	9	34	94.4	0.95	0.63	5.3	91.7
37	44	8J4XNC222	9	99	94.4	0.88	0.63	4.8	100.0
37	55	N C 288			94.0	1.06	0.52	5.2	100.0
37	26	H29751XDP102U	9	44	93.4	0.81	0.74	5.2	91.7
37		EXPERIMENT MEAN			93.1	0.95	0.61	5.1	95.2
37	8	T3HB4X73HB10	9	18	93.0	0.90	0.64	5.0	94.0
37	37	UL12XL3D1	9	68	91.6	0.91	0.63	5.5	92.9
37	15	T3HB4XDP102N	9	31	91.4	0.84	0.64	4.7	98.8
37	35	T3HB4XL3D9	9	65	91.4	0.85	0.65	5.0	96.4
37	40	T2HB4XMT4	9	73	91.2	0.90	0.59	5.3	100.0
37	36	T3HB4XL2D9	9	66	90.6	0.92	0.58	5.3	98.8
37	7	T3HB4X73HB8	9	17	90.3	0.99	0.58	4.5	92.9
37	56	CI21XGT112			90.1	1.05	0.52	5.2	96.4
37	42	T2HB2X8LP2	9	75	90.0	0.83	0.63	5.0	100.0
37	52	COKER 811			89.1	1.30	0.41	5.3	97.6
37	34	T3HB4XL3D16	9	64	88.5	0.83	0.62	5.2	100.0
37	49	NC270		449	88.5	1.02	0.51	4.8	98.8
37	28	H29751XDP10	9	46	88.3	0.78	0.68	5.2	97.6
37	50	T3HB4X72HB10	9	277	88.3	0.94	0.60	5.2	91.7
37	4	T3HB4X72HB8	9	9	87.9	0.92	0.60	5.2	92.9
37	23	T3HB4XF62J	9	40	87.5	1.03	0.59	5.7	84.5

*Entries are double crosses of indicated single crosses with the common male C3SA7 x HG4.

C-37 Plymouth continued

	Entry	Pedigree*			Y	E/P	EW	EH	S
37	38	T2HB4XK5Y6	9	71	87.5	0.80	0.65	5.3	97.6
37	10	T3HB4X73HB12	9	20	87.1	0.85	0.60	4.7	100.0
37	22	T3HB4XUL14	9	39	87.1	0.85	0.60	4.8	100.0
37	21	T3HB4XUL13	9	38	86.7	0.91	0.57	4.8	97.6
37	27	H29751XDP102N	9	45	86.5	0.90	0.64	5.3	86.9
37	47	C3SA7XHG4	Tester		86.3	0.78	0.66	5.3	97.6
37	16	T3HB4XDP102U	9	32	84.5	0.78	0.64	4.5	98.8
37	19	T3HB4XFULP	9	35	81.8	0.83	0.62	5.2	92.9
37	24	DP10XUL14	9	41	79.9	0.73	0.69	5.3	92.9
37	12	T3HB4X813N	9	24	79.7	0.76	0.66	4.5	92.9
37	6	T3HB4X73HB6	9	16	79.6	0.80	0.60	5.2	96.4
37	2	T3HB4X7HB26	9	2	77.1	0.91	0.61	5.5	81.0

L. S. D. (.05) = 14.87
(.01) = 19.69
C. V. = 10%

SUMMARY 96

T O P C R O S S T E S T II

R O C K Y M O U N T (27), P L Y M O U T H (38)

	Entry	Pedigree*		Y	E/P	EW	SL**	EH	S
96	59	P 309B		94.7	1.06	0.51	86.6	4.3	98.8
96	61	DIXIE 82		92.7	1.13	0.48	87.3	5.3	97.0
96	58	DIXIE 82		92.4	1.16	0.46	88.1	5.3	98.8
96	16	G3D3XC2D	6 420	92.0	1.05	0.52	75.0	4.7	95.8
96	56	N C 288		91.9	1.06	0.49	90.2	5.4	97.6
96	40	G3D3XC2SA4	6 476	91.8	0.97	0.54	83.3	4.9	98.2
96	18	G3D3XC3SA4	6 423	91.7	1.00	0.53	80.5	4.6	97.0
96	4	T3HB18XC3SA7	6 406	91.6	0.97	0.53	90.2	4.8	98.8
96	50	842HBXL2D	6 503	91.6	0.99	0.56	87.7	5.0	94.1
96	36	DP102NXT3HB4	6 470	91.5	0.99	0.52	85.5	4.5	99.4
96	63	T3HB4XNC83		91.4	1.01	0.52	86.6	4.8	98.2
96	19	GLDXC2D	6 425	91.2	0.97	0.54	91.5	4.9	97.6
96	13	T3HB4XL3D9	6 417	90.9	0.95	0.55	84.3	4.7	99.4
96	64	N C 288		90.9	1.03	0.50	90.4	5.3	99.4
96	31	T204XCI21	6 452	90.8	0.92	0.57	92.8	4.9	98.8
96	41	T3HB4XNC220	6 490	90.8	1.02	0.53	89.9	4.7	94.6
96	1	T3HB4XC)3	6 403	90.7	1.02	0.53	68.8	4.9	96.4
96	49	T3HB4X73HB8	6 499	90.3	1.01	0.52	86.3	4.8	95.8
96	7	T3HB4XGLD6	6 409	90.2	0.96	0.54	78.8	4.4	97.6
96	8	T3HB4XGLD	6 410	89.8	1.00	0.53	72.5	4.8	96.4
96	9	T3HB4XGLD	6 413	89.8	1.02	0.53	70.9	4.8	95.2
96	45	G3D3XL2D3	6 495	89.4	1.05	0.47	94.0	4.8	98.8
96	3	T3HB4XCI21	6 405	89.3	1.01	0.53	95.2	4.8	95.3
96	62	T204XNC83		89.3	1.09	0.47	96.4	5.1	100.0
96	47	G3D3XL4D	6 497	89.2	0.96	0.54	84.5	4.9	98.2
96	15	T3HB4XL3D16	6 419	89.1	0.95	0.55	84.6	4.7	96.5
96	37	RC12NXT3HB4	6 472	89.0	0.95	0.53	81.9	4.9	98.8
96	27	L3D4XG3D3	6 447	88.9	1.01	0.52	76.9	4.7	96.5
96	6	T3HB4XC3SA4	6 408	87.9	1.00	0.52	85.0	4.4	97.0
96	30	GT112XL578	6 450	87.3	1.04	0.48	79.8	5.2	100.0
96	22	L3D1XG3D1	6 434	87.2	0.93	0.56	81.5	4.8	97.6
96	25	NC224XT3HB20	6 440	86.6	1.00	0.49	79.8	4.7	98.8
96	44	133DX73HB8	6 494	86.2	1.05	0.47	85.7	4.7	100.0
96		OVERALL GROUP MEAN		86.0	0.98	0.51	84.0	4.8	97.2
96	33	DP102NXUL14	6 465	85.9	0.92	0.57	81.3	4.9	92.9
96	28	G2D2XL2D2	6 448	85.8	1.08	0.44	74.7	4.9	98.8
96	42	C2SAXNC220	6 492	85.4	0.96	0.52	82.7	4.5	97.0
96	55	C3SA7XHG4	6 510	85.4	0.90	0.54	88.1	4.7	99.4
96	24	L3D1XUL12	6 437	85.3	0.95	0.51	69.5	4.9	98.2
96	11	T3HB4XL2D9	6 415	85.1	0.94	0.53	73.8	4.9	96.4
96	12	T3HB4XL2D6	6 416	85.0	1.01	0.49	68.8	4.9	97.6
96	35	DP102NXRC12N	6 468	84.9	0.98	0.50	88.8	4.8	96.4
96	14	T3HB4XL3D16	6 418	84.7	0.99	0.53	80.7	4.7	92.3
96	46	G3D3XL3D1	6 496	84.7	0.94	0.53	89.0	4.9	97.6
96	17	G3D3XC2U	6 422	84.6	1.00	0.49	84.5	4.8	98.2

*Entries are double crosses of indicated single crosses with the common male NC222 x NC83.

**Stalk Lodging data taken at Rocky Mount only.

SUMMARY 96 continued

	Entry	Pedigree*		Y	E/P	EW	SL**	EH	S
96	39	UL6XT2HB6	6 475	84.5	0.88	0.55	92.9	4.6	98.8
96	21	C3SAXKY52D	6 429	84.3	0.98	0.49	96.3	4.7	98.8
96	2	T3HB4XC2D	6 404	83.4	0.97	0.51	91.3	4.6	95.8
96	10	T3HB4XGLD	6 414	82.5	0.94	0.50	89.3	4.6	100.0
96	29	GT112XCI21	6 449	82.5	0.97	0.48	91.5	5.1	98.2
96	48	GLD2XT3HB4	6 498	82.3	0.96	0.51	96.4	4.7	95.9
96	43	133NX73HB8	6 493	82.2	1.04	0.47	94.0	4.5	96.5
96	57	COKER 811		82.2	1.20	0.40	75.0	5.2	98.8
96	53	T3HB6XK5Y6	6 507	82.0	0.94	0.52	77.2	4.8	94.6
96	23	L3D7XUL14	6 436	80.7	0.83	0.59	70.5	4.5	94.7
96	26	NC224XT3N	6 443	80.2	1.01	0.46	85.5	4.8	96.4
96	54	NC224XT3N	6 509	79.5	1.00	0.47	88.0	5.0	97.6
96	20	C3SA5X73HB8	6 427	78.4	0.90	0.50	92.7	4.5	98.8
96	34	DP10XUL14	6 467	78.4	0.85	0.61	76.4	5.0	86.9
96	5	T3HB4XC2SA3	6 407	78.0	0.92	0.50	86.3	4.8	97.6
96	51	8HL6X8LP2	6 504	76.8	0.85	0.53	66.7	4.3	97.0
96	32	DP10XH29751	6 461	75.7	0.84	0.52	88.9	4.5	95.8
96	52	G2D2X8LP2	6 506	74.2	0.84	0.53	75.6	4.4	94.1
96	60	NC?22XNC83	Tester	72.1	0.91	0.46	89.9	4.8	97.0
96	38	UL6XT2HB4	6 474	72.0	0.81	0.50	79.8	4.9	100.0

L. S. D. (.05) = 12.19
(.01) = 16.22
C. V. - 12%

TOP CROSS TEST II

C - 27 ROCKY MOUNT

	Entry	Pedigree*		Y	E/P	EW	SL	EH	S
27	49	T3HB4X73HB8	6 499	95.2	1.06	0.49	86.3	4.2	95.2
27	36	DP102NXT3HB4	6 470	92.4	1.04	0.48	85.5	4.2	98.8
27	13	T3HB4XL3D9	6 417	91.0	0.96	0.52	84.3	4.3	98.8
27	62	T204XNC83		91.0	1.08	0.46	96.4	4.7	100.0
27	63	T3HB4XNC83		90.7	1.01	0.49	86.6	4.3	97.6
27	18	G3D3XC3SA4	6 423	90.1	0.99	0.50	80.5	4.3	97.6
27	59	P 3098		89.0	1.01	0.48	86.6	3.8	97.6
27	1	T3HB4XCD3	6 403	88.5	1.04	0.48	68.8	4.2	95.2
27	31	T204XCI21	6 452	88.0	0.95	0.52	92.8	4.5	98.8
27	26	NC224XT3N	6 443	87.8	1.07	0.44	85.5	4.3	98.8
27	19	GLDXC2D	6 425	87.6	0.96	0.50	91.5	4.5	97.6
27	15	T3HB4XL3D16	6 419	87.2	0.97	0.52	84.6	4.2	92.9
27	42	C2SAXNC220	6 492	87.2	0.95	0.51	82.7	4.3	96.4
27	25	NC224XT3HB20	6 440	87.0	1.04	0.44	79.8	4.3	100.0
27	6	T3HB4XC3SA4	6 408	86.9	1.03	0.48	85.0	4.0	95.2
27	40	G3D3XC2SA4	6 476	86.9	0.98	0.48	83.3	4.5	100.0
27	9	T3HB4XGLD	6 413	86.7	0.99	0.51	70.9	4.5	94.0
27	14	T3HB4XL3D16	6 418	86.6	1.01	0.46	80.7	4.2	98.8
27	16	G3D3XC2D	6 420	86.4	1.01	0.49	75.0	4.3	95.2
27	64	N C 288		86.0	1.00	0.46	90.4	5.0	98.8
27	8	T3HB4XGLD	6 410	85.9	1.01	0.49	72.5	4.3	95.2
27	4	T3HB18XC3SA7	6 406	85.7	0.95	0.49	90.2	4.3	97.6
27	50	842HBXL2D	6 503	85.4	0.94	0.51	87.7	4.7	96.4
27	37	RC12NXT3HB4	6 472	85.1	0.95	0.48	81.9	4.5	98.8
27	58	DIXIE 82		85.0	1.02	0.45	88.1	5.0	100.0
27	56	N C 288		84.7	1.02	0.44	90.2	5.0	97.6
27	3	T3HB4XCI21	6 405	84.0	0.98	0.47	95.2	4.5	98.8
27	39	UL6XT2HB6	6 475	84.0	0.94	0.47	92.9	4.3	100.0
27	41	T3HB4XNC220	6 490	83.1	0.99	0.47	89.9	4.3	94.0
27	44	133DX73HB8	6 494	83.1	1.04	0.44	85.7	4.2	100.0
27	54	NC224XT3N	6 509	83.1	1.00	0.46	88.0	4.2	98.8
27	12	T3HB4XL2D6	6 416	83.0	1.06	0.44	68.8	4.3	95.2
27	29	GT112XCI21	6 449	83.0	0.95	0.48	91.5	4.8	97.6
27	33	DP102NXUL14	6 465	82.7	0.93	0.53	81.3	4.7	89.3
27		EXPERIMENT MEAN		82.5	0.97	0.47	84.0	4.4	97.0
27	21	C3SAXKY32D	6 429	82.5	1.01	0.44	96.3	4.5	97.6
27	27	L3D4XG3D3	6 447	82.3	1.06	0.46	76.9	4.7	92.9
27	48	GLD2XT3HB4	6 498	82.0	1.04	0.43	96.4	4.3	98.8
27	53	T3HB6XK5Y6	6 507	81.8	0.94	0.49	77.2	4.3	94.0
27	11	T3HB4XL2D9	6 415	81.7	0.94	0.49	73.8	4.5	95.2
27	46	G3D3XL3D1	6 496	81.5	0.95	0.48	89.0	4.5	97.6
27	2	T3HB4XC2D	6 404	81.3	0.99	0.47	91.3	4.5	95.2
27	55	C3SA7XHG4	6 510	81.3	0.94	0.46	88.1	4.3	100.0
27	61	DIXIE 82		80.9	1.06	0.44	87.3	5.0	94.0
27	7	T3HB4XGLD6	6 409	80.8	0.91	0.49	78.8	4.0	95.2

*Entries are double crosses of indicated single crosses with the common male NC222 x NC83.

C-27 Rocky Mount continued

	Entry	Pedigree*			Y	E/P	EW	SL	EH	S
27	47	G3D3XL4D	6	497	80.5	0.94	0.47	84.5	4.5	100.0
27	10	T3HB4XGLD	6	414	80.4	0.95	0.46	89.3	4.2	100.0
27	22	L3D1XG3D1	6	434	80.1	0.96	0.48	81.5	4.5	96.4
27	30	GT112XL578	6	450	79.3	1.01	0.44	79.8	5.0	100.0
27	60	NC222XNC83 Tester			78.4	0.99	0.45	89.9	4.3	94.0
27	43	133NX73HB8	6	493	78.0	0.94	0.46	94.0	4.5	100.0
27	35	DP102NXRC12N	6	468	77.8	0.96	0.45	88.8	4.3	95.2
27	28	G2D2XL2D2	6	448	76.5	0.96	0.43	74.7	4.5	98.8
27	17	G3D3XC2U	6	422	76.4	0.88	0.47	84.5	4.3	100.0
27	51	8HL6X8LP2	6	504	76.2	0.88	0.49	66.7	4.0	96.4
27	24	L3D1XUL12	6	437	75.5	0.91	0.45	69.5	4.5	97.6
27	57	COKER 811			75.4	1.13	0.37	75.0	4.8	100.0
27	20	C3SA5X73HB8	6	427	74.4	0.90	0.46	92.7	4.2	97.6
27	45	G3D3XL2D3	6	495	74.4	0.93	0.42	94.0	4.3	98.8
27	32	DP10XH29751	6	461	73.6	0.88	0.46	88.9	4.3	96.4
27	5	T3HB4XC2SA3	6	407	73.0	0.96	0.43	86.3	4.3	95.2
27	38	UL6XT2H34	6	474	72.5	0.89	0.43	79.8	4.3	100.0
27	23	L3D7XUL14	6	436	71.7	0.79	0.54	70.5	4.5	92.9
27	52	G2D2X8LP2	6	506	69.5	0.79	0.52	75.6	4.2	92.9
27	34	DP10XUL14	6	467	68.9	0.82	0.54	76.4	4.3	85.7

L. S. D. (.05) = 11.17

(.01) = 14.76

C. V. - 8%

T O P C R O S S T E S T II

C - 38 P L Y M O U T H

	Entry	Pedigree*		Y	E/P	EW	EH	S
38	61	DIXIE 82		104.5	1.19	0.51	5.5	100.0
38	45	G3D3XL2D3	6 495	104.3	1.17	0.52	5.2	98.8
38	59	P 309B		100.3	1.11	0.53	4.7	100.0
38	58	DIXIE 82		99.7	1.29	0.47	5.5	97.6
38	7	T3HB4XGLD6	6 409	99.5	1.00	0.58	4.7	100.0
38	56	N C 288		99.1	1.10	0.54	5.7	97.6
38	41	T3HB4XNC220	6 490	98.5	1.05	0.58	5.0	95.2
38	47	G3D3XL4D	6 497	97.9	0.98	0.61	5.3	96.4
38	50	842HBXL2D	6 503	97.7	1.04	0.60	5.2	91.7
38	16	G3D3XC2D	6 420	97.6	1.09	0.55	5.0	96.4
38	4	T3HB18XC3SA7	6 406	97.4	0.99	0.57	5.2	100.0
38	40	G3D3XC2SA4	6 476	96.6	0.96	0.60	5.2	96.4
38	64	N C 288		95.8	1.05	0.53	5.5	100.0
38	27	L3D4XG3D3	6 447	95.5	0.95	0.58	4.7	100.0
38	30	GT112XL578	6 450	95.3	1.06	0.52	5.3	100.0
38	28	G2D2XL2D2	6 448	95.1	1.19	0.45	5.2	98.8
38	24	L3D1XUL12	6 437	95.0	0.99	0.57	5.2	98.8
38	19	GLDXC2D	6 425	94.7	0.98	0.58	5.2	97.6
38	3	T3HB4XCI21	6 405	94.6	1.04	0.58	5.0	91.7
38	22	L3D1XG3D1	6 434	94.2	0.89	0.63	5.0	98.8
38	8	T3HB4XGLD	6 410	93.7	0.99	0.57	5.3	97.6
38	31	T204XCI21	6 452	93.5	0.89	0.61	5.2	98.8
38	18	G3D3XC3SA4	6 423	93.2	1.01	0.56	4.8	96.4
38	37	RC12NXT3HB4	6 472	92.9	0.94	0.58	5.3	98.8
38	1	T3HB4XCD3	6 403	92.8	0.99	0.57	5.5	97.6
38	9	T3HB4XGLD	6 413	92.8	1.05	0.54	5.0	96.4
38	17	G3D3XC2U	6 422	92.8	1.11	0.51	5.3	96.4
38	35	DP102NXRC12N	6 468	92.0	1.00	0.55	5.2	97.6
38	63	T3HB4XNC83		92.0	1.00	0.55	5.2	98.8
38	15	T3HB4XL3D16	6 419	90.9	0.92	0.58	5.2	100.0
38	13	T3HB4XL3D9	6 417	90.7	0.93	0.58	5.0	100.0
38	36	DP102NXT3HB4	6 470	90.5	0.93	0.55	4.8	100.0
38	23	L3D7XUL14	6 436	89.7	0.86	0.63	4.5	96.4
38		EXPERIMENT MEAN		89.6	0.98	0.55	5.1	97.4
38	55	C3SA7XHG4	6 510	89.4	0.86	0.62	5.0	98.8
38	44	133DX73HB8	6 494	89.2	1.05	0.49	5.2	100.0
38	33	DP102NXUL14	6 465	89.1	0.90	0.61	5.0	96.4
38	6	T3HB4XC3SA4	6 408	88.9	0.96	0.56	4.8	98.8
38	57	COKER 811		88.9	1.26	0.43	5.5	97.6
38	11	T3HB4XL2D9	6 415	88.5	0.93	0.57	5.2	97.6
38	34	DP10XUL14	6 467	87.8	0.88	0.67	5.7	88.1
38	46	G3D3XL3D1	6 496	87.8	0.93	0.57	5.2	97.6
38	62	T204XNC83		87.5	1.10	0.47	5.5	100.0
38	12	T3HB4XL2D6	6 416	87.0	0.95	0.54	5.5	100.0
38	43	133NX73HB8	6 493	86.4	1.13	0.48	4.5	92.9

*Entries are double crosses of indicated single crosses with the common male NC222 x NC83.

C-38 Plymouth continued

	Entry	Pedigree*			Y	E/P	EW	EH	S
38	25	NC224XT3HB20	6	440	86.2	0.95	0.53	5.0	97.6
38	21	C3SAXKY52D	6	429	86.1	0.94	0.54	4.8	100.0
38	2	T3HB4XC2D	6	404	85.5	0.95	0.55	4.7	96.4
38	49	T3HB4X73HB8	6	499	85.3	0.96	0.54	5.3	96.4
38	39	UL6XT2HB6	6	475	84.9	0.82	0.62	4.8	97.6
38	10	T3HB4XGLD	6	414	84.6	0.93	0.54	5.0	100.0
38	42	C2SAXNC220	6	492	83.6	0.96	0.52	4.6	97.6
38	5	T3HB4XC2SA3	6	407	82.9	0.87	0.57	5.2	100.0
38	14	T3HB4XL3D16	6	418	82.7	0.97	0.59	5.2	85.7
38	48	GLD2XT3HB4	6	498	82.6	0.87	0.59	5.0	92.9
38	20	C3SA5X73HB8	6	427	82.4	0.90	0.53	4.8	100.0
38	53	T3HB6XK5Y6	6	507	82.1	0.94	0.55	5.2	95.2
38	29	GT112XCI21	6	449	81.9	0.99	0.47	5.3	98.8
38	52	G2D2X8LP2	6	506	78.9	0.89	0.54	4.5	95.2
38	32	DP10XH29751	6	461	77.8	0.79	0.58	4.7	95.2
38	51	8HL6X8LP2	6	504	77.4	0.82	0.57	4.5	97.6
38	54	NC224XT3N	6	509	75.9	0.99	0.48	5.7	96.4
38	26	NC224XT3N	6	443	72.5	0.95	0.47	5.3	94.0
38	38	UL6XT2HB4	6	474	71.5	0.73	0.57	5.5	100.0
38	60	NC222XNC83	Tester		65.8	0.82	0.46	5.2	100.0

L. S. D. (.05) = 15.08
(.01) = 19.93

C. V. - 10%

AGRICULTURAL EXPERIMENT STATION

NORTH CAROLINA STATE COLLEGE

RALEIGH, NORTH CAROLINA

R. L. Lovvorn, Director of Research

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