

By C.R.Tutt and F.A. Loeffel Progress Report 166 January 1967 UNIVERSITY OF KENTUCKY

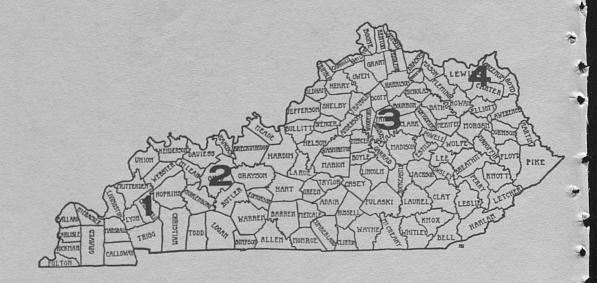
AGRICULTURAL EXPERIMENT STATION

DEPARTMENT OF AGRONOMY

Lexington

# TESTING LOCATIONS OF

# THE KENTUCKY HYBRID CORN PERFORMANCE TEST



Area	Location	Cooperator
Non-Virus	1. Princeton 2. Hartford	West Ky. Sub. Sta. J. C. Pirtle-Owner Walter & Earl Campbell-
		operators John M. Kavanaugh-Area Extension Agent
	3. Lexington	Ky. Agr. Exp. Sta.
Virus	4. Vanceburg	Alex Walters, Jr. Edward Strong-Area Extension Agent

Acknowledgment is made to Gary Hicks, Department of Agronomy, and to the University of Kentucky Computing Center for assistance in summarizing the results reported in this progress report.

### RESULTS OF THE KENTUCKY HYBRID CORN PERFORMANCE TEST IN 1966

C. R. Tutt and F. A. Loeffel

The objective of the Kentucky Hybrid Corn Performance Test is to provide an unbiased estimate of the relative performance of corn hybrids being sold in Kentucky. This information may be used by farmers, seedsmen, and research and extension personnel to determine which hybrid most nearly possesses the characteristics which are desired or required for a specific situation. The need for the University of Kentucky Agricultural Experiment Station to obtain this information is indicated by the change in hybrids being purchased by Kentucky farmers, the large number of hybrids which are available, and the economic importance of corn to Kentucky agriculture.

The average yield of corn in Kentucky in 1966 was 59 bushels per acre. This is 10 bushels below the record yield which was recorded in 1965. This yield should provide a production of 70.3 million bushels of corn for 1966 possessing an approximate value of 100 million dollars.

The 1966 corn crop in Kentucky was one of the latest on record. Corn planting was 2-3 weeks behind normal due to wet weather during April and May. Planting was delayed more in the major corn producing areas of the west than in other areas of the state. Statewide, only 10-12 percent of the corn crop was planted by the end of May. Corn that was planted early was seriously injured by poor stands and continued cool weather.

Early corn in the southern and western parts of the state also suffered considerably from the hot, dry weather during July which reduced pollination. Yield prospects rose sharply for late-planted corn as August rains relieved drought conditions existing in most parts of western Kentucky.

Because of the drought in July and the rains in August, late corn produced better than early corn this year. A cool wet autumn delayed maturity of the crop and by October 1 the crop was 4 weeks behind normal. By the first week of November, corn harvest was 60 percent complete.

#### EXPERIMENTAL METHODS

The performance test was conducted at four locations in the state this year. The locations together with the names of the cooperators are listed on page 2. The testing sites are grouped according to the presence or absence of the corn virus, Maize Dwarf Mosaic. The virus was present at Vanceburg but was not present at Princeton, Hartford or Lexington.

Fifty-six hybrids which are available to the farmers of Kentucky through commercial trade channels were compared. These hybrids, developed by state and federal research agencies and by private seed companies, are listed in Tables 1 and 2. Information is presented concerning the seed source of the hybrid, the kernel color and the type of cross. The type of hybrid is designated as follows: double cross, 4X; three-way cross, 3X; and a single cross, 2X. The following material was evaluated in 1966: 35 double crosses, 3 three-way crosses and 18 single crosses.

Rainfall data for the testing locations are presented in Table 3. Agronomic information pertaining to the testing locations is presented in Table 4. Results of the Kentucky Hybrid Corn Performance Test are summarized for periods of 3 years, 2 years, and one year under non-virus conditions and are presented in Tables 5-7 respectively. Results of the 2 years and one year test under virus conditions are presented in Tables 8 and 9. The hybrids in Tables 5-7 are grouped on the basis of kernel color. Within groups, the hybrids are listed in order of increasing moisture content. The hybrids in Tables 8 and 9 are arranged in order of decreasing M.D.M. virus

resistance. Yield results of the four different nitrogenplant population combinations are present in Table 10. Table 11 presents the treatment average of all hybrids for various attributes under different conditions.

Field Design.

Each hybrid was planted in eight plots at Princeton, Hartford and Lexington and in four plots at Vanceburg. Corn was hand planted, simulating hill dropping. All tests were planted at an increased rate, and the resulting plants thinned to the desired stand at each location. Each hybrid was planted at two levels of nitrogen fertility, 133 pounds and 200 pounds of actual nitrogen per acre, at Princeton and Hartford. Two plant populations, 17,424 and 23,232 plants per acre, were used at each nitrogen level.

Yield.

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The corn from each plot was harvested and weighed individually. The yields of the hybrids were determined and are reported as bushels of shelled corn per acre with a moisture content of 15.5 percent.

Moisture.

The moisture content at harvest is the best measure of relative maturity of hybrids which is available. A hybrid may be considered to be earlier than a second hybrid if its moisture content at harvest is consistently lower. Maturity thus determined is not absolute but is relative to the hybrid being compared.

Moisture samples were taken on an individual plot basis and moisture individually determined at each location.

Erect Plants.

The percentage of erect plants is considered to be an estimate of the resistance of a hybrid to the total insect and disease complex affecting standing ability. This value is obtained by counting plants with stalks broken between the ear-bearing node and the ground level and those which lean from the base at an angle of more than

30 degrees from the vertical. This sum is subtracted from the plants present and the difference divided by the total plants to give the percentage of erect plants.

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Ear Height.

Ear height, the distance from the base of the plant to the point of attachment of the upper ear, was measured visually using a scale with one-foot intervals. Visual ratings were taken on each plot of each hybrid at each location.

Disease.

Visual ratings of hybrid reaction to corn virus were taken at Augusta and Vanceburg in 1965 and at Vanceburg in 1966. Present indications are that the only virus present in Kentucky is Maize Dwarf Mosaic. All plots of each hybrid were rated shortly after silking on a 1-9 scale, with 1 being resistant and 9 being extremely susceptible.

## INTERPRETATION

It should be kept in mind that test plot yields will tend to exceed those of commercial plantings because test plots usually receive more careful culture than do commercial fields. Also desired stands were obtained by over-planting and thinning, and plots were picked by hand which reduced harvest losses.

The performance of a hybrid may vary considerably from year to year and between locations for a given year. Because of this variability, test results for a single year or for a single location are not as valuable in choosing a hybrid as the results for several years and for several locations.

Small differences in yield are usually of little importance. However, when a hybrid is consistently superior over several years of testing the chances are good that the differences are real and should be considered in choosing a hybrid. Factors other than yield should be considered in selecting a hybrid. Moisture

content, plant lodging and ear height should also be considered. The reader must form his own opinion as to how much weight to give each character other than yield, because it is seldom that one hybrid is distinctly superior to all others for each of the characteristics studied.

Only tentative conclusions can be drawn from the plant population-nitrogen combinations presented in Tables 10 and 11 since data are from only one year of testing. Because of drought conditions this year and a lack of uniformity of soil conditions within the plots, the high nitrogen-high plant population combination may have been at a disadvantage. Two or three years of data on these various combinations should prove quite useful in selecting hybrids to grow under specific management conditions.

The best hybrid to grow is the one which best suits the individual farm and farming operation. For this reason it is suggested that a new hybrid be grown frequently on a trial basis in comparison with the hybrid presently grown. New hybrids should be grown on a limited acreage for evaluation before being grown on large acreage. is important to keep in mind that two hybrids should be compared only when they are grown in the same field in the same year using identical management practices. good way to do this is to plant seed of the new hybrid beside currently used hybrids in a field being sure to mark them at planting time. It is important to observe the hybrids frequently during the growing season. At harvest, yield should be determined and other observational notes recorded. By doing this, a grower can come to a sound decision as to which hybrid best fulfills his needs.

#### MAIZE DWARF MOSAIC

Corn growers in areas where Maize Dwarf Mosaic (M.D.M.) virus has been identified should take special precautions in selecting hybrids. This disease severely reduced yield and stalk strength. It appears to be associated with Johnsongrass in which it is believed to overwinter. It is then transferred back to the corn plant in the spring by an insect vector, possibly an aphid. Where the disease is known or suspected to be present, only M.D.M. resistant hybrids should be planted.

Table 1. Hybrids Tested in 1966

Crib Filler 66 Y 2X Mitchell F	Ind.
88 Y 2X Windfall, 128 Y 4X 183W W 4X  Dekalb 805A Y 2X Dekalb Agr 872 Y 4X Association 999 W 4X Ill.  1006 Y 4X XL-65A Y 2X XL-342 Y 3X XL-362 Y 3X XL-385 Y 3X  Ken-Bred E20YA Y 4X Golden Acr E20YB Y 4X Taylor-Eva M20W W 4X Tulia, Tex SX20Y Y 2X T-E Cropmaster Y 3X  Ky 105 Y 4X University 6132W W 4X Station, 15 5921W 6132W W 4X Station, 15 6504	Ind.
88 Y 2X Windfall, 128 Y 4X 183W W 4X  Dekalb 805A Y 2X Dekalb Agr 872 Y 4X Association 999 W 4X Ill.  1006 Y 4X XL-65A Y 2X XL-342 Y 3X XL-362 Y 3X XL-385 Y 3X  Ken-Bred E20YA Y 4X Golden Acr E20YB Y 4X Taylor-Eva M20W W 4X Tulia, Tex SX20Y Y 2X T-E Cropmaster Y 3X  Ky 105 Y 4X University 5921W W 4X Agricultur 6132W W 4X Station, 1	Ind.
128 Y 4X 183W W 4X  Dekalb 805A Y 2X Dekalb Agr 872 Y 4X Association 999 W 4X Ill.  1006 Y 4X  XL-65A Y 2X  XL-342 Y 3X  XL-362 Y 3X  XL-385 Y 3X  Ken-Bred E20YA Y 4X Golden Acr E20YB Y 4X Taylor-Eva M20W W 4X Tulia, Tex SX20Y Y 2X  T-E Cropmaster Y 3X  Ky 105 Y 4X University 6132W W 4X Station, 1	
Dekalb 805A Y 2X Dekalb Agr 872 Y 4X Association 999 W 4X III. 1006 Y 4X XL-65A Y 2X XL-342 Y 3X XL-362 Y 3X XL-385 Y 3X  Ken-Bred E20YA Y 4X Golden Acr E20YB Y 4X Taylor-Eva M20W W 4X Tulia, Tex SX20Y Y 2X  T-E Cropmaster Y 3X  Ky 105 Y 4X University 5921W W 4X Agricultur 6132W W 4X Station, I	cicultural
872 Y 4X Association 999 W 4X III.  1006 Y 4X XL-65A Y 2X XL-342 Y 3X XL-362 Y 3X XL-385 Y 3X  Ken-Bred E20YA Y 4X Golden Acre E20YB Y 4X Taylor-Eva M20W W 4X Tulia, Tex SX20Y Y 2X T-E Cropmaster Y 3X  Ky 105 Y 4X University 6132W W 4X Agricultur 6132W W 4X Station, Tex 6504 Y 3X	icultural
872 Y 4X Association 999 W 4X III.  1006 Y 4X XL-65A Y 2X XL-342 Y 3X XL-362 Y 3X XL-385 Y 3X  Ken-Bred E20YA Y 4X Golden Acr E20YB Y 4X Taylor-Evo M20W W 4X Tulia, Tex SX20Y Y 2X T-E Cropmaster Y 3X  Ky 105 Y 4X University 6132W W 4X Agricultur 6132W W 4X Station, Tex 6504	
999 W 4X III.  1006 Y 4X  XL-65A Y 2X  XL-342 Y 3X  XL-362 Y 3X  XL-385 Y 3X  Ken-Bred E20YA Y 4X Golden Acr  E20YB Y 4X Taylor-Eva  M20W W 4X Tulia, Tex  SX20Y Y 2X  T-E Cropmaster Y 3X  Ky 105 Y 4X University  6132W W 4X Agricultur  6132W W 5X20Y Y 3X  Station, Tex  System of the state of	on, Dekalb,
1006 Y 4X XL-65A Y 2X XL-342 Y 3X XL-362 Y 3X XL-385 Y 3X  Ken-Bred E20YA Y 4X Golden Acr E20YB Y 4X Taylor-Eva M20W W 4X Tulia, Tex SX20Y Y 2X  T-E Cropmaster Y 3X  Ky 105 Y 4X University 6132W W 4X Agricultur 6132W W 4X Station, 1	
XL-65A Y 2X XL-342 Y 3X XL-362 Y 3X XL-385 Y 3X  Ken-Bred E20YA Y 4X Golden Acr E20YB Y 4X Taylor-Eve M20W W 4X Tulia, Tex SX20Y Y 2X T-E Cropmaster Y 3X  Ky 105 Y 4X University 6132W W 4X Agricultur 6132W W 4X Station, 1	
XL-342 Y 3X XL-362 Y 3X XL-385 Y 3X  Ken-Bred E20YA Y 4X Golden Acr E20YB Y 4X Taylor-Eva M20W W 4X Tulia, Tex SX20Y Y 2X  T-E Cropmaster Y 3X  Ky 105 Y 4X University 6132W W 4X Agricultur 6132W W 4X Station, 12 6504	
XL-362 Y 3X XL-385 Y 3X  Ken-Bred E20YA Y 4X Golden Acre E20YB Y 4X Taylor-Eve M20W W 4X Tulia, Tex SX20Y Y 2X  T-E Cropmaster Y 3X  Ky 105 Y 4X University 5921W W 4X Agricultur 6132W W 4X Station, 12 6504	
Ken-Bred E20YA Y 4X Golden Acre E20YB Y 4X Taylor-Eva M20W W 4X Tulia, Tex SX20Y Y 2X T-E Cropmaster Y 3X  Ky 105 Y 4X University Agricultus 6132W W 4X Station, 1 6504	
E20YB Y 4X Taylor-Evants	
E20YB Y 4X Taylor-Evants	
M20W W 4X Tulia, Text SX20Y Y 2X T-E Cropmaster Y 3X  Ky 105 Y 4X University 5921W W 4X Agricultur 6132W W 4X Station, 16504	ans Seed Co.
T-E Cropmaster Y 3X  Ky 105 Y 4X University 5921W W 4X Agricultur 6132W W 4X Station, 1 6504 Y 3X	cas
Ky 105       Y       4X       University         5921W       W       4X       Agriculture         6132W       W       4X       Station, 1         6504       Y       3X	
5921W W 4X Agricultum 6132W W 4X Station, 1 6504 Y 3X	
5921W W 4X Agricultum 6132W W 4X Station, 1 6504 Y 3X	y of Kentucky
6132W W 4X Station, 7 6504 Y 3X	ral Experiment
-	Lexington, Ky.
Meacham M-7 W 4X Meacham's Route 3, 1	Hybrids
1 .11.0 . 011.1	Morganfield, K
SX29 Y 2X Inc., Aur	Morganfield, K
SX59 Y 2X Franklin,	Morganfield, K
399 Y 3X	Morganfield, K ssociated Grow ora, Ill. and

Table 1. Continued.

Hybrid	Color	Cross	Source of Hybrids
Pioneer 509	W	4X	Pioneer Corn Company, Inc.
511	W	4X	Tipton, Ind.
3327	Y	2X	
3369	Y	2X	
3376	Y	2X	
X2786	Y	2X	
Princeton 8-A	Y	4X	Princeton Farms
81-A	Y	4X	Princeton, Ind.
790-AA	W	4X	
890-AA	Y	4X	
920-A	W	4X	
990-A	W	4X	
SX-803	Y	2X	
SX-804	Y	2X	
Schenk S-96W	W	4X	Charles H. Schenk
SX-75	Y	2X	and Son, Inc., Route 4 Vincennes, Ind.
Southern States			
820S	Y	2X	Southern States Coop.,
860	Y	4X	Inc., Division of Seed
866	Y	4X	and Farm Supply, Richmond,
909E	Y	4X	Va.
960W	W	4X	
979	Y	4X	
Matoaka	Y	4X	
Stull 101YS	Y	4X	Stull Brothers, Inc.
500WC	W	4X	Sebree, Ky.
800W	W	2X	
807YAA	Y	2X	
US 523W	W	4X	Experiment Station (U.S.D.

Table 2. Pedigrees of Experiment Station and U. S. Hybrids Tested in 1966

Hybrid	Color	Cross	Pedigree
AES 809 Ky 105 Ky 5921W *Ky 6132W *Ky 6504 *Ky 6507 US 523W	Y Y W W Y Y	4X 4X 4X 4X 3X 3X 3X 4X	(WF9 x P8) (Oh 43 x C103) (T8 x CI21E) (38-11 x Oh7B) (CI64 x 33-16) (Ky201 x CI66) (CI64 x 33-16) (Ky216 x Ky219) H49 (Oh7A x Oh7B) CI21E (Oh7A x Oh7B) (K55 x K64) (Ky27 x Ky49)

<sup>\*</sup> Seed not available for commercial planting

Table 3. Growing Season Rainfall

Test		In	ches of	Rainfall		
Location	May	June	July	Aug.	Sept.	Total
Princeton	5.89	2.29	1.46	3.87	2.53	16.04
Hartford	7.37	0.78	2.18	4.36	2.68	17.37
Lexington	3.46	0.66	4.97	4.92	3.44	17.45*
Vanceburg	2.74	2.03	4.81	3.58	3.66	16.82

Table 4. Agronomic Information Pertaining to Testing Locations in 1966

Location	Fertilizer Applied	Plants Per Acre	Date Planted	Date Harvested	Experiment Average Yield Bushel Moist	ment Yield Moisture
1. Princeton	170# K20 315# NH <sub>4</sub> NO <sub>3</sub>	17,424 23,232	May 30	Oct. 25	72.2	24.8
	170# K <sub>2</sub> 0 570# NH <sub>4</sub> NO <sub>3</sub>	17,424 23,232	May 27	Oct. 25	67.5	26.2
2. Hartford	200# K <sub>2</sub> 0 280#Superphosphate 345# NH <sub>4</sub> NO <sub>3</sub>	17,424 23,232	June 1	Oct. 31	87.7	22.3
	200# K20 280#Superphosphate 690# NH <sub>4</sub> NO <sub>3</sub>	17,424 23,232	June 1	Oct. 31	119.1 74.3	22.2
3. Lexington	600# NH4NO3	17,424 & 23,232	May 6	Oct. 14	91.9	20.7
4. Vanceburg	100# K20 400# NH4NO3 3 Ton Lime	14,119	May 21	Oct. 22	50.9	35.7

Table 5. Three-Year Summary of Hybrids Compared in 1964, 1965 and 1966

83.7 76.7 91.8 82.9 1 82.9 71.5 71.5 71.5 71.3 71.3 71.3 74.9 65.0 81.8 71.2 80.3 71.9 77.1 69.5 83.5 75.3 80.9 76.4	Eastern Moisture,% 92.4 16.7 104.2 16.9 93.9 17.0 89.7 17.9 88.4 18.0 96.0 18.3	Plants,% 91.9 83.0 82.0 83.5 90.9 79.8 75.5
83.7 76.7 91.8 82.9 81.2 71.5 79.3 71.3 78.9 69.7 74.9 65.0 81.8 71.2 80.3 71.9 77.1 69.5 83.5 76.4	16 16 17 17 17 18 18 18	91.9 83.0 83.5 90.9 79.8
83.7 76.7 81.8 82.9 1 81.2 71.5 71.5 71.3 78.9 69.7 74.9 65.0 81.8 71.2 80.3 71.9 77.1 69.5 88.5 76.4	16 16 17 17 17 18 18 18	83.0 83.0 83.5 90.9 75.5
91.8 82.9 1 81.2 71.5 79.3 71.3 78.9 69.7 74.9 65.0 81.8 71.2 80.3 71.9 77.1 69.5 80.9 76.4	16 17 17 17 18 18 18	83.0 82.0 83.5 90.9 75.5
NY 79.3 71.5 79.3 71.3 78.9 69.7 74.9 65.0 81.8 71.2 80.3 71.9 77.1 69.5 80.9 76.4	17 17 17 18 18 18	82.0 83.5 90.9 79.8 75.5
XY 79.3 71.3 79.3 71.3 78.9 69.7 74.9 65.0 81.8 71.2 A 80.3 71.9 56 83.5 75.3	17. 17. 18. 18. 18.	83.5 90.9 79.8 75.5
79.3 71.3 78.9 69.7 74.9 65.0 81.8 71.2 80.3 71.9 56 83.5 75.3	17. 17. 18. 18. 18.	79.8 75.5
A 78.9 69.7 74.9 65.0 81.8 71.2 80.3 71.9 69.5 83.5 75.3 80.9 76.4	17 18 18 18 18	79.8 75.5
74.9 65.0 81.8 71.2 80.3 71.9 77.1 69.5 83.5 75.3	18	79.8
81.8 80.3 71.2 80.3 77.1 69.5 83.5 80.9 76.4	18	75.5
IA 80.3 71.9 77.1 69.5 56 83.5 75.3	18	000
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56 83.5 75.3 80.9 76.4	07	04.1
4.97	18	80.1
00.3		0.98
	18	77.9
		27 1
	LY	1.70
vr -385 88.7 80.2	100.9	89.8
00 6 79 3	105.0 19.4	81.3
85.57 0.50 es.X	2 19	82.6
83.2	3.5	0 70
Dekalb 1006 83.4 74.8	95.6 21.4	•
Vol11 Average 82.4 74.2	93.8 18.5	83.3
	11	

\* F	3.4	3.4	3.5	3.4	3.4	3.5	3.5	3.6	3.7	3.5	3.5
4	84.1	75.9	81.5	82.2	81.4	78.9	88.1	77.5	7.77	80.8	82.4
4	18.0	18.5	19.1	19.2	19.4	19.5	20.1	20.6	21.6	19.6	18.9
*	82.0	81.1	93.3	89.5	95.1	83.8	83.8	86.8	93.6	7.78	91.7
•	60.7	67.8	77.1	73.9	75.7	72.8	74.0	78.5	73.6	72.7	73.6
等 等	69.4	73.0	83.8	80.3	83.4	77.5	77.8	82.4	81.6	78.8	81.2
* * * * *	WHITE Princeton 790-AA		Schenk S-96W	Kv 5921W	Crib Filler 183W	Pioneer 509	Princeton 990-A	Pioneer 511	Stull 800W	White Average	GRAND AVERAGE

Table 6. Two-Year Summary of Hybrids Compared in 1965 and 1966

	Average	ge Acre Yield,	d, Bu.	Maturity		Ear
Hybrid				Harvest Ear	Erect	Height
	State	Western	Eastern	Moisture, %	Plants.%	Ft.
YELLOW					1	
Pioneer 3369	89.2	91.4	5	17.4	4.98	2.9
P.A.G. SX29	9.46	100.4	89.7	17.5		
Dekalb XL-362	90.3	6.96	2	17.8	88.4	
S.S. 820S	4.68	98.6	7.67	17.9	76.2	
Ken-Bred SX20Y	86.5	95.6	76.4	18.1	82.1	
Princeton 8-A	79.5	83.9	0.97	18.2	90.2	
Princeton 81-A	81.8	85.2	78.1	18.4	87.8	2.9
S.S. Matoaka	85.9	90.2	81.7	8	70.0	3.3
AES 809	82.4	83.8	81.5	18.6	71.7	
T-E Cropmaster	79.9	84.8	74.8	18.6	69.1	
Ken-Bred E20YA	87.8	92.2	83.6	18.8	71.8	
Princeton SX804	88.2	91.3	85.6	18.8	78.2	3.4
S.S. 860	9.08	84.1	79.0	18.8	78.9	
S.S. 909E	8.98	91.2	82.8	19.0	85.1	4.0
Ky 105	83.5	9.68	78.3	19.4	77.4	
Crib Filler 66	92.5	. 9.66	4.78	19.5	71.0	3.1
Princeton 890-AA	0.98	89.1	82.6	19.5	70.8	
Dekalb XL385	89.1	7.06	89.7	19.6	86.1	
P.A.G. SX59	93.2	95.1	95.3	19.8	73.8	
S.S. 979	88.2	96.3	81.2	20.3		3.8
Dekalb 1006	83.2	86.5	81.5	22.1	7.67	3.8
;	(	1				
Yellow Average	9.98	91.3	82.5	18.9	78.4	3.3

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Princeton 790-AA	73.4	75.5	73.4	18.4	6.08	3.3
US 523W	77.8	79.2	78.9	18.6	72.9	3.3
Ken-Bred M20W	85.6	87.4	0.98	19.0	72.7	3.4
Ky 5921W	83.1	85.4	82.3	19.3	72.6	3.2
Schenk S-96W	82.1	87.8	77.77	19.4	74.9	3.2
Princeton 990-A	82.6	88.4	78.7	19.7	82.7	3.3
Princeton 920-A	81.7	9.98	78.5	19.8	80.9	3.1
Crib Filler 183W	82.6	83.4	85.2	19.9	72.5	3.1
Pioneer 509	81.8	88.9	74.9	20.0	76.7	3.3
Dekalb 999	78.8	82.8	76.3	20.4	71.9	3.3
Pioneer 511	80.3	0.68	7.69	20.7	0.69	3.4
Stull 800W	82.9	85.4	83.6	21.8	72.6	3.5
White Average	81.1	85.0	78.8	19.8	75.0	3.3
GRAND AVERAGE	84.6	0.68	81.2	19.2	77.2	3.3

Table 7. Annual Summary of Hybrids Evaluated Under Non-Virus Conditions in 1966

Western Eastern 91.0 82.2 79.3 71.6 85.4 80.7 93.3 98.7 90.6 83.4 83.0 80.3 77.8 81.4 78.4 89.2 93.6 92.6 80.2 73.7 106.1 105.7 87.9 88.7 74.1 73.5 74.1 88.1 74.8 89.0 88.6 88.1 79.2 76.9 92.1 101.2 88.4 89.1 76.8 89.0 81.6 86.6 102.1 99.6 89.8 99.2 78.7 93.6		Average	ze Acre Yield	d. Bu.	Maturity		Ear
State Western Eastern Moisture, % Plants, % Pl	Hybrid				田	- Erect	Height
88.1 91.0 82.2 20.5 88.7 3 71.6 20.5 90.4 83.8 85.4 80.7 20.8 90.1 88.2 85.4 80.7 20.8 90.1 88.2 90.6 83.4 20.9 90.0 79.0 77.8 81.4 20.9 90.0 79.0 77.8 81.4 21.3 90.0 79.1 77.8 80.2 21.4 89.3 78.0 80.2 73.7 21.5 88.2 106.0 106.1 105.7 21.5 88.2 106.0 106.1 105.7 21.5 88.2 73.9 74.1 73.5 21.9 89.7 79.6 78.5 81.9 22.0 88.2 73.9 74.1 73.5 21.9 89.7 79.6 88.4 88.6 88.1 22.2 89.0 78.4 88.6 88.1 22.2 89.0 88.4 88.6 88.1 22.2 89.0 88.6 89.0 22.0 89.7 88.6 88.7 89.0 22.0 89.7 88.6 89.0 22.0 89.7 88.7 89.0 22.0 89.7 88.6 89.0 22.0 89.7 88.7 89.0 22.0 89.7 88.6 89.0 22.0 89.7 88.7 89.0 89.8 89.0 22.0 88.7 88.6 89.0 22.0 88.7 88.6 89.0 22.0 88.7 88.6 89.0 22.0 88.7 88.6 89.0 22.0 88.7 88.7 89.0 22.0 88.8 89.0 89.0 22.0 88.7 89.0 89.0 89.2 88.7 88.7 89.0 89.7 88.7 89.2 22.9 89.7 88.7 78.7 93.6 22.9 88.7 78.7 93.6 22.9 88.7 78.7 89.8	22.00	State	Western	B	e,	Plants,%	Ft.
88.1       91.0       82.2       20.5       88.7         76.7       79.3       71.6       20.5       88.7         83.8       85.4       80.7       20.5       89.3         83.8       85.4       80.7       20.8       90.4       3         82.1       93.3       98.7       20.8       90.1       3         82.1       83.0       83.4       20.9       95.7       3         82.0       77.8       81.4       20.9       95.7       3         82.0       78.4       89.2       21.0       90.0       3         93.3       93.6       92.6       21.4       90.0       3         93.3       93.6       92.6       21.4       89.3       3         106.0       106.1       105.7       21.5       88.2       3         106.0       106.1       105.7       21.5       89.5       3         106.1       106.1       105.7       21.9       84.6       3         106.2       106.1       105.7       21.9       84.6       3         106.3       106.1       106.2       10.9       3       3         106.1	YELLOW						
76.7       79.3       71.6       20.5       90.4         83.8       85.4       80.7       20.5       89.3       3         95.1       93.3       98.7       20.5       89.3       3         88.2       90.6       83.4       20.9       95.7       3         88.2       90.6       83.4       20.9       95.7       3         82.0       73.8       80.3       21.0       90.0       3         78.0       78.4       89.2       21.4       90.0       3         93.3       93.6       92.6       21.4       89.3       3         106.0       106.1       105.7       21.5       78.8       3         106.0       106.1       105.7       21.5       78.8       3         106.0       106.1       105.7       21.5       78.8       3         88.2       87.1       88.7       21.5       89.5       3         76.8       87.9       88.7       21.9       84.6       3         88.4       88.6       88.1       22.2       89.0       3         88.4       88.6       88.4       89.1       22.4       89.0	Crib Filler 88	88.1	91.0	82.2		88.7	3.2
83.8       85.4       80.7       20.5       89.3         95.1       93.3       98.7       20.8       90.1       3         88.2       90.6       83.4       20.9       95.7       3         82.1       83.0       80.3       21.0       90.0       3         79.0       77.8       81.4       21.3       92.6       3         79.0       78.4       89.2       21.4       90.0       3         82.0       78.4       89.2       21.4       90.0       3         78.0       80.2       73.7       21.5       88.2       3         88.1       87.1       80.2       21.5       88.2       3         73.9       74.1       73.5       21.9       84.6       3         73.9       74.1       73.5       21.9       84.6       3         76.8       87.9       88.7       22.0       94.0       3         88.4       74.8       88.1       22.2       89.0       3         76.8       88.4       88.1       22.2       89.0       3         88.6       88.4       89.1       22.2       89.0       3	Dekalb 805-A	7.97	79.3	71.6		90.4	3.2
95.1 93.3 98.7 20.8 90.1 88.2 90.6 83.4 20.9 95.7 88.2 90.6 83.4 20.9 95.7 82.1 82.1 95.7 88.2 90.0 93.3 90.6 83.4 20.9 90.0 95.7 88.2 90.0 93.3 92.6 21.4 90.0 93.3 93.6 92.6 21.4 89.3 92.6 21.4 89.3 93.6 92.6 21.5 88.2 92.6 21.5 88.2 92.6 94.0 94.0 95.7 9.6 92.1 98.7 21.9 88.2 92.0 94.0 93.1 88.4 88.6 88.1 22.1 99.5 93.7 93.7 92.1 101.2 22.1 89.0 93.5 93.7 93.1 81.9 85.4 22.1 99.5 93.7 93.7 93.8 92.1 101.2 22.2 89.0 93.7 93.8 93.3 81.6 86.6 22.6 94.5 93.7 93.8 92.3 92.3 83.3 81.6 86.6 22.6 94.5 93.7 93.6 83.3 83.8 83.8 83.8 83.8 83.8 83.8 8	P.A.G. 399	83.8	85.4	80.7		89.3	3.1
88.2 90.6 83.4 20.9 95.7 82.1 83.0 80.3 21.0 90.0 3 22.1 80.0 93.0 95.7 82.1 80.0 95.7 82.1 80.0 95.7 82.0 90.0 95.7 82.0 90.0 95.2 93.6 92.6 92.6 93.3 92.6 92.6 92.6 92.6 93.3 92.6 92.6 92.6 92.6 92.6 92.6 92.6 92.6	P.A.G. SX29	95.1	93.3	7.86		90.1	3.2
82.1     83.0     80.3     21.0     90.0       79.0     77.8     81.4     21.3     92.6       82.0     78.4     89.2     21.4     90.0       93.3     93.6     92.6     21.4     89.3       78.0     80.2     73.7     21.5     88.2       106.0     106.1     105.7     21.5     88.2       84.8     87.1     88.7     21.9     84.6       88.2     87.9     88.7     21.9     84.6       73.9     74.1     73.5     21.9     84.6       73.9     74.1     73.5     22.0     88.2       76.8     74.8     80.9     22.0     94.0       88.4     88.6     88.1     22.2     89.0       88.4     88.6     88.1     22.2     93.5       95.1     92.1     101.2     22.2     93.7       88.6     88.4     89.0     22.2     94.5       88.6     88.4     89.0     22.6     94.5       80.9     76.8     89.0     22.6     94.5       80.9     76.8     89.0     22.6     94.5       89.2     89.0     22.6     94.5     3       89.2     84.2     <	Pioneer 3369	88.2	9.06	83.4		95.7	
79.0       77.8       81.4       21.3       92.6       3         82.0       78.4       89.2       21.4       90.0       3         93.3       93.6       92.6       21.4       89.3       3         106.0       106.1       105.7       21.5       88.2       3         106.0       106.1       105.7       21.5       88.2       3         106.0       106.1       105.7       21.5       88.2       3         84.8       87.1       80.2       21.9       89.5       3         88.2       87.9       88.7       21.9       84.6       3         79.6       74.1       73.5       21.9       84.6       3         79.6       74.8       80.9       22.0       94.0       3         88.4       88.6       88.1       22.2       89.0       3       3         88.6       88.4       89.1       22.2       89.0       3       3         80.9       76.8       89.0       22.5       89.0       3       3         80.9       88.4       89.0       22.5       89.7       3         80.9       88.4       89.0	S.S. 820S	82.1	83.0	80.3	21.0	0.06	
82.0 78.4 89.2 21.4 90.0 3 93.3 93.6 92.6 21.4 89.3 3 106.0 106.1 105.7 21.5 88.2 3 106.0 106.1 105.7 21.5 88.2 3 84.8 87.1 80.2 21.9 89.5 3 88.2 87.9 88.7 21.9 89.7 3 79.6 78.5 81.9 22.0 94.0 3 83.1 81.9 85.4 22.1 93.5 3 88.4 88.6 88.1 22.2 89.0 3 88.6 88.1 22.2 89.0 3 95.1 92.1 101.2 22.2 89.0 3 88.6 88.4 89.1 22.2 89.0 3 88.6 88.4 89.1 22.2 89.0 3 88.6 88.4 89.1 22.2 89.0 3 88.6 88.4 89.1 22.2 89.0 3 95.1 92.1 101.2 22.3 85.1 3 88.6 88.7 89.0 22.5 89.0 3 88.6 88.7 89.0 22.5 89.0 3 88.6 88.7 89.0 22.5 89.0 3 88.6 88.7 89.0 22.5 89.0 3 88.6 88.7 89.0 22.5 89.0 3 88.6 89.8 92.3 22.8 89.7 3 88.7 78.7 99.6 22.9 85.8 3 88.7 78.7 99.6 22.9 85.8 3 88.7 78.7 99.6 22.9 85.8 3 88.7 78.7 99.6 22.9 85.8 3	Dekalb XL-342	79.0	77.8	81.4	21.3	92.6	3.1
93.3       93.6       92.6       21.4       89.3       3         78.0       80.2       73.7       21.5       88.2       3         106.0       106.1       105.7       21.5       88.2       3         84.8       87.1       80.2       21.9       89.5       3         84.8       87.9       88.7       21.9       84.6       3         73.9       74.1       73.5       21.9       84.6       3         75.8       74.1       73.5       21.9       84.6       3         76.8       74.1       73.5       22.0       84.6       3         76.8       80.9       22.0       94.0       3         88.4       88.6       88.1       22.0       94.0       3         78.4       79.2       76.9       22.1       93.5       3         88.6       88.1       22.2       89.0       3       3         88.6       88.4       89.1       22.2       89.0       3         80.9       88.4       89.0       22.5       89.7       3         89.6       89.8       89.0       22.6       94.5       3	Crib Filler 128	82.0	78.4	89.2	21.4	0.06	3.5
78.0       80.2       73.7       21.5       88.2       3         106.0       106.1       105.7       21.5       78.8       3         84.8       87.1       80.2       21.9       89.5       3         88.2       87.9       88.7       21.9       84.6       3         73.9       74.1       73.5       21.9       84.6       3         79.6       74.1       73.5       21.9       84.6       3         76.8       74.1       73.5       21.9       84.6       3         76.8       74.1       73.5       22.0       94.0       3         83.1       81.9       85.4       22.0       94.0       3         88.4       88.6       88.1       22.2       89.0       3         78.4       79.2       76.9       22.2       89.0       3         88.6       88.4       89.1       22.2       89.0       3         88.0       90.6       22.5       89.7       3         89.1       86.6       22.0       94.5       3         89.2       84.2       89.7       89.7       3         89.2       84.2	Stull 807YAA	93.3	93.6	92.6	21.4	89.3	3.3
106.0       106.1       105.7       21.5       78.8       3         84.8       87.1       80.2       21.9       84.6       3         88.2       87.9       88.7       21.9       84.6       3         73.9       74.1       73.5       21.9       84.6       3         79.6       78.5       81.9       22.0       88.2       3         76.8       74.8       80.9       22.0       94.0       3         83.1       81.9       85.4       22.1       93.5       3         88.4       88.6       88.1       22.2       89.0       3         78.4       79.2       76.9       22.2       89.0       3         95.1       92.1       101.2       22.2       89.0       3         88.6       88.4       89.1       22.2       89.0       3         80.9       76.8       89.0       22.5       89.2       3         80.9       88.4       89.1       22.6       94.5       3         80.9       88.4       89.0       22.5       89.7       3         80.0       88.4       89.0       22.0       89.7       3	Ken-Bred SX20Y	78.0	80.2	73.7	21.5	88.2	
84.8     87.1     80.2     21.9     89.5       88.2     87.9     88.7     21.9     84.6       73.9     74.1     73.5     21.9     84.6       79.6     78.5     81.9     22.0     88.2       76.8     74.8     80.9     22.0     94.0       83.1     81.9     85.4     22.1     93.5       88.4     88.6     88.1     22.2     89.0       78.4     79.2     76.9     22.2     89.0       78.4     79.2     76.9     22.2     89.0       88.6     88.4     89.1     22.2     89.9       80.9     76.8     89.0     22.5     89.9       80.9     76.8     89.0     22.5     89.9       80.9     76.8     89.0     22.6     94.5       101.3     102.1     99.6     22.6     94.5       101.3     102.1     99.6     22.6     94.5       89.2     84.2     99.2     22.9     92.3       89.2     84.2     99.6     22.9     92.3       89.2     84.6     80.8     92.3     22.9     92.3       84.6     80.8     92.2     23.0     91.6       84.6	P.A.G. SX17	106.0	106.1	105.7	21.5	78.8	
88.2 87.9 88.7 21.9 84.6 3 73.9 74.1 73.5 21.9 84.6 3 79.6 78.5 81.9 22.0 88.2 76.8 74.8 80.9 22.0 94.0 3 83.1 81.9 85.4 22.1 93.5 3 88.4 88.6 88.1 22.2 89.0 3 78.4 79.2 76.9 22.2 89.0 3 78.4 89.1 101.2 22.2 89.0 3 88.6 88.4 89.1 22.4 89.9 3 80.9 76.8 89.0 22.5 89.2 3 83.3 81.6 86.6 22.6 94.5 3 101.3 102.1 99.6 22.7 89.7 3 89.2 84.2 99.2 22.9 85.8 3 83.7 78.7 93.6 22.9 85.8 3 84.6 80.8 92.3 22.9 85.8 3	Dekalb XL-362	84.8	87.1	80.2	21.9	89.5	
73.9       74.1       73.5       21.9       89.7       3.         79.6       78.5       81.9       22.0       88.2       3.         76.8       74.8       80.9       22.0       94.0       3.         83.1       81.9       85.4       22.0       94.0       3.         83.1       88.6       88.1       22.2       89.0       3.         78.4       79.2       76.9       22.2       89.0       3.         78.4       79.2       76.9       22.2       89.0       3.         88.6       88.4       89.1       22.3       85.1       3.         80.9       76.8       89.0       22.3       89.9       3.         80.9       81.6       86.6       22.6       94.5       3.         101.3       102.1       99.6       22.7       89.7       3.         89.2       84.2       99.2       22.9       85.3       3.         84.6       80.8       92.3       22.9       85.8       3.         84.6       80.8       92.2       22.9       85.8       3.         85.7       92.2       92.3       3.       3.	S.S. Matoaka	88.2	87.9	88.7	21.9	9.48	
79.6       78.5       81.9       22.0       88.2       3.         76.8       74.8       80.9       22.0       94.0       3.         83.1       81.9       85.4       22.1       94.0       3.         88.4       88.6       88.1       22.2       89.0       3.         78.4       79.2       76.9       22.2       89.0       3.         95.1       92.1       101.2       22.2       89.0       3.         88.6       88.4       89.1       22.4       89.9       3.         80.9       76.8       89.0       22.5       89.9       3.         83.3       81.6       86.6       22.5       89.2       3.         90.6       89.8       99.6       22.5       89.7       3.         89.2       84.2       99.6       22.7       89.7       3.         89.2       84.2       99.6       22.9       89.7       3.         89.2       84.2       99.2       22.9       89.7       3.         84.6       80.8       92.3       22.9       85.8       3.         84.6       80.8       92.2       23.0       91.6	T-E Cropmaster	73.9	74.1	73.5	21.9	89.7	
76.8       74.8       80.9       22.0       94.0       3.         83.1       81.9       85.4       22.1       93.5       3.         88.4       88.6       88.1       22.2       89.0       3.         78.4       79.2       76.9       22.2       89.0       3.         95.1       92.1       101.2       22.2       93.7       3.         88.6       88.4       89.1       22.4       89.9       3.         80.9       76.8       89.0       22.5       89.9       3.         83.3       81.6       86.6       22.5       89.2       3.         90.6       89.8       99.6       22.7       89.7       3.         89.2       84.2       99.6       22.7       89.7       3.         89.2       84.2       99.6       22.9       99.7       3.         89.2       84.2       99.2       22.9       89.7       3.         89.2       86.6       22.9       92.3       3.         89.2       89.7       89.7       3.         89.2       89.7       3.         89.2       89.7       3.         89	AES 809	9.62	78.5	81.9	22.0	88.2	
83.1     81.9     85.4     22.1     93.5     3.       88.4     88.1     22.2     89.0     3.       78.4     79.2     76.9     22.2     89.0     3.       95.1     92.1     101.2     22.2     93.7     3.       88.6     88.4     89.1     22.4     89.9     3.       80.9     76.8     89.0     22.5     89.9     3.       83.3     81.6     86.6     22.6     94.5     3.       101.3     102.1     99.6     22.7     89.7     3.       90.6     89.8     92.3     22.8     89.7     3.       89.2     84.2     99.2     22.9     92.3     3.       89.2     86.6     22.9     92.3     3.       89.2     84.2     99.2     22.9     89.7     3.       89.2     86.6     22.9     92.3     3.       89.2     86.6     22.9     85.8     3.       89.2     86.6     22.9     85.8     3.       84.6     80.8     92.2     22.9     85.8     3.       84.6     80.8     92.2     23.0     91.6     3.	Princeton 8-A	76.8	74.8	6.08	22.0	94.0	3.1
88.4       88.6       88.1       22.2       89.0       3.         78.4       79.2       76.9       22.2       89.0       3.         95.1       92.1       101.2       22.3       85.1       3.         88.6       88.4       89.1       22.3       89.9       3.         80.9       76.8       89.0       22.5       89.9       3.         83.3       81.6       86.6       22.6       94.5       3.         101.3       102.1       99.6       22.7       89.7       3.         89.2       84.2       99.6       22.7       89.7       3.         89.2       84.2       99.2       22.9       89.7       3.         89.2       84.2       99.2       22.9       92.3       3.         84.6       80.8       92.3       22.9       85.8       3.         84.6       80.8       92.2       22.9       85.8       3.         84.6       80.8       92.2       23.0       91.6       3.	Pioneer 3376	83.1	81.9	85.4	22.1	93.5	3.0
78.4       79.2       76.9       22.2       93.7       3.         95.1       92.1       101.2       22.3       85.1       3.         88.6       88.4       89.1       22.4       89.9       3.         80.9       76.8       89.0       22.5       89.2       3.         83.3       81.6       86.6       22.6       94.5       3.         101.3       102.1       99.6       22.7       89.7       3.         89.2       84.2       99.6       22.7       89.7       3.         89.2       84.2       99.2       22.9       92.3       3.         89.2       84.2       99.2       22.9       92.3       3.         89.2       86.6       22.9       92.3       3.         89.2       86.8       92.3       22.9       92.3       3.         84.6       80.8       92.2       22.9       92.3       3.         84.6       80.8       92.2       23.0       91.6       3.	Dekalb XL-65A	88.4	9.88	88.1	22.2	0.68	3,3
95.1 92.1 101.2 22.3 85.1 3. 88.6 88.6 89.9 89.9 3. 88.3 81.6 86.6 22.6 89.7 3. 89.2 101.3 102.1 99.6 22.7 89.7 3. 89.2 89.2 89.2 89.2 89.2 89.2 89.2 89.	Princeton 81-A	78.4	79.2	6.97	22.2	93.7	3.0
88.6 88.4 89.1 22.4 89.9 3. 80.9 76.8 89.0 22.5 89.2 3. 83.3 81.6 86.6 22.6 94.5 3. 101.3 102.1 99.6 22.7 89.7 3. 90.6 89.8 92.3 22.8 89.7 3. 89.2 84.2 99.2 22.9 92.3 3.8 83.7 78.7 93.6 22.9 85.8 3. 84.6 80.8 92.2 23.0 91.6	Pioneer 3327	95.1	92.1	101.2	22.3	85.1	3.0
80.9       76.8       89.0       22.5       89.2       3.         83.3       81.6       86.6       22.6       94.5       3.         101.3       102.1       99.6       22.7       89.7       3.         90.6       89.8       92.3       22.8       89.7       3.         89.2       84.2       99.2       22.9       92.3       3.         83.7       78.7       93.6       22.9       85.8       3.         84.6       80.8       92.2       23.0       91.6       3.	Ken-Bred E20YA	98.8	88.4	89.1	22.4	6.68	
DIN SX803       83.3       81.6       86.6       22.6       94.5         X2786       101.3       102.1       99.6       22.7       89.7         DIN SX804       90.6       89.8       92.3       22.8       89.7         DIN SX804       89.2       84.2       99.2       22.9       92.3         DIN SX804       89.2       84.2       99.2       22.9       85.8         DILEF 66       84.6       80.8       92.2       23.0       91.6	8.8.860	80.9	76.8	2000	22.5	89.2	
X2786 101.3 102.1 99.6 22.7 89.7 sn SX804 90.6 89.8 92.3 22.8 89.7 89.7 89.7 89.7 89.2 84.2 99.2 22.9 92.3 1 VR20Y 83.7 78.7 93.6 22.9 85.8 11er 66 84.6 80.8 92.2 23.0 91.6	Princeton SX803	83.3	81,6	9.98	22.6	94.5	3.0
on SX804 90.6 89.8 92.3 22.8 89.7 89.2 84.2 99.2 22.9 92.3 1 VR20Y 83.7 78.7 93.6 22.9 85.8 85.8 84.6 80.8 92.2 23.0 91.6	Pioneer X2786		102.1	9.66	22.7	7.68	3.3
89.2 84.2 99.2 22.9 92.3 1 VR2OY 83.7 78.7 93.6 22.9 85.8 11er 66 84.6 80.8 92.2 23.0 91.6	Princeton SX804	9.06	8.68	1000		89.7	3.5
VR20Y 83.7 78.7 93.6 22.9 85.8 ler 66 84.6 80.8 92.2 23.0 91.6		89.2	84.2	200	250	92.3	3.4
er 66 84.6 80.8 92.2 23.0 91.0	77	83.7	78.7	100		85.8	3.5
	Crib Filler 66	9.48	80.8			91.0	7.1

* * * * * * * * * * * * * * * * * * * *	· ·			*		*
Dekalb 872	7	+	3	3.	4.06	3.0
Dekalb XL-385	9	2.	5	3.		
S.S. 909E	88.9	88.3	90.1	23.4	Garage XI	-
Princeton 890-AA	4.	5	3	3.	SS3.48	700
Ky 6507	4.	6	3	3,	2000	200
S.S. 866	5.	5	0	3	2012	
Ky 105	2.	0	5	4.	WO 35	35 ·
P.A.G. SX59	3.	5.	6	4.	2000	
Schenk SX-75	3	8	3.	4.	SHEE	
S.S. 979	1.	6	5	4.		-
Stull 101YS	1.	5.	3	4.	P33334	
Dekalb 1006	4.	0	0	9		
Yellow Average	87.4	0.98	90.2	22.5	89.1	3.3
WHITE						
Princeton 790-AA	200		6	2.	5	
Ky 5921W			9	3.	8	
Stull 500WC	200	200	4.	3.	8	
US523W	81,4	76.4	91.3	23.3	9.08	3.3
Ken-Bred M20W		655 • 1	6	3.	6.	•
Schenk S-96W			5.	3	7	
Crib Filler 183W		2772. <b>4</b> .9	9	4.	7	200
Pioneer 509			9	4.	1.	25.9
S.S. 960W		100 P.S.	5.	4.	0	
Meacham M-7		20.00	0	4.	0	
Princeton 920-A		S	4.	4.	7	
0		250.00	1.	4.	-	
Dekalb 999		200	7	4.	5	
Ky 6132W	100	800 B	6	4.	5	
Pioneer 511		2000	3,	5	6.	229
Stull 800W	000			6.	8	
White Average	62.000		3.	4.	5	30.23
GRAND AVERAGE	87.2	85.3	91.1	22.9	88.1	3.3
					SECOND SE	

Two-Year Summary of Hybrids Evaluated Under Virus Conditions in 1965 and 1966 Table 8.

Hybrid	Yield	Virus Rating	Maturity Harvest Ear	Erect	Ear
	Bu/A	Grade	Moisture. %	76	T+
YELLOW			1	0/	
Ky 105	88.8	2.2	26.2	88.3	3
Dekalb 1006	62.4	3.7	26.1	71.8	
S.S. 979	68.0	6.9	25.3	80.3	3.7
Princeton SX-804	47.4	5.0	23.1	48.1	
Pioneer 3369	65.1	5.1	20.5	75.2	2.3
P.A.G. SX59	51.4	5.3	22.8	78.5	22235b
P.A.G. SX29	46.7	5.4	21.2	86.2	2.5
S.S. Matoaka	51.4	5.9	22.7	72.0	2.6
Princeton 890-AA	37.9	0.9	22.3	58.9	7 6
	51.1	0.9		79.7	2.5
S.S. 909E	52.2	0.9	24.2	64.1	2.7
Dekalb XL-385	45.9	6.4	21.5	73.8	2.5
AES 809	32.2	6.5	22.0	7.49	2.4
Princeton 8-A	35.2	8.9	23.7	4.64	2.7
T-E Cropmaster	27.0	7.0	22.7	45.5	2.7
Ken-Bred E20YA	28.3	7.1	23.7	49.1	2.3
Princeton 81-A	27.3	7.3	21.9	58.5	2.3
S.S. 820S	25.7	7.4	21.8		2.6
Crib Filler 66	17.7	7.9	22.9	35.4	
Ken-Bred SX20Y	24.0	8.0	20.7	41.0	1.0
Dekalb XL-362	20.2	8.1	22.1	32.5	•
Yellow Average	43.1	6 1	22.0		·
) 0 5	1.)	T • • • • • • • • • • • • • • • • • • •	6.77	01.0	7.6

2.7	68.4	23.5	5.5	50.7	GRAND AVERAGE	
2.8	80.5	24.5	4.5	63.9	White Average	
7.3	40.4	22.4	8,3	14.7	US 523W	
	0.4/	24.2	5.1	63.7	Ken-Bred M20W	
6.7	85.0	23.0	4.7	55.9	Pioneer 509	
6.70	75.8	24.9	4.5	9.47	Schenk S-96W	
7.7	86.5	23.9	4.5	61.9	Princeton 990-A	
7.7	4.9/	24.3	4.3	64.7	Crib Filler 183W	
2.5	86.5	23.0	4.1	60.3	Princeton 790-AA	
3.0	90.1	25.8	3.8	7.07	Stull 800W	
7.7	90.1	25.5	3.8	71.5	Dekalb 999	
3.0	85.7	25.4	3.7	7.97	Princeton 920-A	
7.7	80.9	24.4	3.7	73.0	Ky 5921W	
3.5	88.5	26.8	3.1	78.6	WHITE Pioneer 511	
<b>?</b>	*			4 4		

Table 9. Annual Summary of Hybrids Evaluated Under Virus Conditions in 1966

o v			Virus	Maturity	Erect	7.
OW         OF STATE (1)         OF STATE (1)         OF STATE (1)         OF STATE (1)         OF STATE (2)         OF STATE (2)	Hybrid	Yield Bu/A	Rating	)	Plants	Height
507       99.9       2.0       30.2       96.5         504       91.8       2.8       26.9       96.6         6. SX17       94.0       2.8       28.6       97.7         86       79.3       3.2       27.2       96.5         86       60.2       4.2       28.3       84.7         8red VR20Y       81.4       4.3       26.8       79.3         8red VR20Y       81.4       4.8       22.0       96.3         1b 872       51.4       4.8       25.7       79.3         G. SX29       50.9       5.0       23.4       79.5         G. SX29       47.6       5.0       23.4       94.9         1b XL-342       44.8       5.2       22.0       96.3         G. SX29       47.6       5.0       23.4       94.9         eer 3376       51.3       24.3       24.9       94.9         feer 3376       51.3       24.5       92.9         ger 3376       51.8       5.3       24.5       92.9         ger 3376       51.8       5.3       24.5       92.9         ger 4.8       5.8       5.3       24.5       92.9	YELLOW	11/20	2000	ני	0/	F.C.
504 504 6. SXI7 6. SXI7 94.0 2.8 2.8 2.8 2.8 2.9 5.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2	Ку 6507	6.66	2.0	100 m	96.5	2.8
G. SXI7 94.0 2.8 28.6 97.8 866 79.3 3.2 2.8 29.5 97.7 866 79.3 86.2 1b 1006 60.2 4.2 28.3 84.7 81.4 4.3 26.8 79.3 84.7 81.4 4.8 68.6 4.5 22.0 96.3 84.7 81.4 4.8 22.0 96.3 84.7 81.4 4.8 22.0 96.3 96.3 96.3 96.3 96.3 96.3 96.3 96.3	Ky 6504				9.96	2.8
92.2 2.8 29.5 97.7 866 60.2 4.2 28.3 84.7 Bred VR20X 81.4 4.3 26.8 79.3 84.7 84.7 81.4 4.3 26.8 79.3 84.7 88.2 81.4 4.8 22.0 96.3 1b 87.2 50.9 50.9 50.9 50.9 50.9 50.9 50.9 50.9		0.46		28.6	97.8	
866 79.3 866 70.2 1b 1006 60.2 4.2 88.3 84.7 88.7 88.7 88.7 88.7 88.7 88.7 88.7	Ky 105	92.2		29.5	97.7	
1b 1006 60.2 4.2 28.3 84.7 Bred VR20Y 81.4 4.3 26.8 79.3 eer 3369 68.6 4.5 22.0 96.3 1b 872 51.4 4.8 25.7 79.5 50.9 5.0 23.4 47.6 5.0 23.4 75.0 44.8 5.2 23.1 89.1 eer 337 51.3 5.3 24.3 92.9 69.0 5.3 24.5 92.6 69.0 5.3 24.5 92.6 69.0 5.3 27.3 94.6 eer 33.7 57.7 5.5 5.3 27.3 94.6 eer 33.7 57.7 5.3 5.3 24.5 92.9 97.9 69.0 5.3 27.3 94.6 eer 32.7 57.7 5.5 5.5 25.8 83.9 86.3 86.0 25.0 85.1 86.3 22.4 77.1 eer x2786 38.4 6.3 22.4 77.1 51.6 51.8 6.0 25.5 27.0 6.0 25.5 27.0 6.0 25.5 27.0 85.1 51.6 51.8 6.3 22.4 77.1 51.6 51.8 6.3 22.4 77.1 51.6 51.8 6.3 22.4 77.1 51.6 51.8 6.3 22.4 77.1 51.6 51.8 6.3 22.4 77.1 51.6 51.8 6.3 22.4 77.1 51.6 51.8 6.3 22.4 77.1 51.6 51.8 6.3 22.4 77.1 51.6 51.8 6.3 22.4 77.1 51.6 51.8 6.3 22.4 77.1 51.6 51.8 6.3 22.4 77.1 51.6 51.8 6.3 22.4 77.1 51.6 51.8 6.3 22.4 77.1 51.6 51.8 6.3 22.4 77.1 51.6 51.6 6.5 27.0 79.0 51.0 51.0 51.0 51.0 51.0 51.0 51.0 51	S.S. 866	79.3			96.2	
Bred VR20Y 81.4 4.3 26.8 79.3 eer 3369 68.6 4.5 22.0 96.3 1b 872 51.4 4.8 25.7 79.5 22.0 96.3 1b 872 50.9 5.0 23.4 75.0 5.0 23.8 75.0 1b XL-342 47.6 5.0 23.8 75.0 1b XL-342 44.8 5.2 23.1 89.1 eer 337 51.3 5.3 24.3 92.9 69.0 5.3 24.5 92.6 69.0 5.3 24.5 92.6 69.0 5.3 24.5 92.6 63.0 86.0 57.7 5.5 25.8 83.9 Filler 128 54.8 5.8 23.1 86.3 Matoaka 52.0 6.0 25.0 85.1 eer X2786 6.3 5.3 22.4 77.1 6.3 5.3 99.9 89.9 6.3 22.4 77.1 6.3 5.3 99.09E 48.6 6.5 27.0 6.5 23.9 99.09E	Dekalb 1006	60.2		28.3	84.7	335
eer 3369 68.6 4.5 22.0 96.3 1b 872 51.4 4.8 25.7 79.5 G. SX29 50.9 5.0 23.4 94.9 1b XL-342 44.8 5.2 23.8 75.0 1 807XAA 44.8 5.2 23.1 89.1 1 807XAA 51.3 5.3 24.3 92.9 6er 3376 6er 3376 5.3 24.3 92.9 69.0 5.3 24.5 92.6 69.0 5.3 24.5 92.6 69.0 5.3 24.5 92.6 69.0 5.3 24.5 92.6 69.0 5.3 24.5 92.6 69.0 5.3 24.5 92.6 69.0 5.3 24.5 92.6 69.0 5.3 24.5 92.6 69.0 5.3 24.5 92.6 69.0 5.3 22.4 77.1 69.0 890-AA 35.0 6.5 22.4 77.1 66.5 22.4 77.1 66.5 22.4 77.1 66.5 22.4 77.1 66.5 22.4 77.1 66.5 22.4 77.1 66.5 22.4 77.1 66.5 24.7 70.1	Ken-Bred VR20Y	81.4		26.8	79.3	955
1b 872 51.4 4.8 25.7 79.5 G. Sx29 50.9 5.0 23.4 94.9 1b XL-342 47.6 5.0 23.8 75.0 1l 807XAA 44.8 5.2 23.1 89.1 89.1 807XAA 51.3 5.3 24.3 92.9 89.1 80.3 24.5 92.6 69.0 5.3 24.5 92.6 69.0 5.3 24.5 92.6 69.0 5.3 24.5 92.6 69.0 5.3 24.5 92.6 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86	Pioneer 3369	9.89		22.0	96.3	
G. SX29 G. SX29 G. SX29 F. G. O F. O F. G. O F. G. O F. G. O F. G. O F. O F. O F. O F. O F. G. O F. O F	Dekalb 872	51.4	4.8	25.7	79.5	Section .
1b XL-342	P.A.G. SX29	50.9	5.0	23.4	6.46	2000000
1 807YAA 44.8 5.2 23.1 89.1 eer 3376 51.3 5.3 23.9 94.9 eer 3376 51.8 5.3 24.3 92.9 94.9 979 69.0 5.3 24.5 92.6 979 69.0 5.3 24.5 92.6 979 69.0 5.3 24.5 92.6 86.0 57.7 5.5 25.8 83.9 83.9 85.1 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3	Dekalb XL-342	47.6	5.0	23.8	75.0	7
eer 3376 51.3 5.3 23.9 94.9 eer 3327 51.8 5.3 24.3 92.9 G. SX59 49.3 5.3 24.5 92.9 G. SX59 69.0 5.3 24.5 92.6 979 69.0 5.3 24.5 92.6 860 57.7 5.5 25.8 83.9 Filler 128 54.8 5.8 23.1 86.3 Matoaka 52.0 6.0 25.0 85.1 eet x2786 35.8 6.3 22.4 77.1 lb XL-385 48.6 6.5 22.4 77.1 seton 890-AA 35.0 6.5 24.7 70.1	Stull 807YAA	44.8	5.2	23.1	89.1	
eer 3327 51.8 5.3 24.3 92.9 69.0 5.3 24.5 92.6 979 69.0 5.3 24.5 92.6 92.6 92.6 92.6 92.6 92.6 92.6 92.6	Pioneer 3376	51.3	5.3	23.9	6.46	00000
G. SX59 G. SX59 G. S.3 G. S.4 S.5 S.5 S.5 S.5 S.5 S.5 S.6 S.7 S.5 S.7 S.5 S.7 S.5 S.7 S.7 S.5 S.7	Pioneer 3327	51.8	5.3	24.3	92.9	
979 69.0 5.3 27.3 94.6 eeton SX804 48.4 5.5 25.3 63.0 86.0 86.0 57.7 5.8 83.9 83.9 Filler 128 54.8 5.8 23.1 86.3 86.3 Matoaka 52.0 6.0 25.0 85.1 eet X2786 38.4 6.3 22.4 77.1 53.4 48.6 6.5 22.0 79.0 eeton 890-AA 35.0 6.5 27.0 79.0 26.2 6.8 23.9 73.7	P.A.G. SX59	49.3	5.3	24.5	92.6	
ceton SX804 48.4 5.5 25.3 63.0 86.0 86.0 57.7 5.5 25.8 83.9 83.9 83.9 83.9 83.9 83.9 83.9 83	S.S. 979	0.69	5.3	27.3	94.6	
860 860 87.7 5.5 25.8 83.9 Filler 128 54.8 5.8 5.8 83.9 Filler 128 55.0 6.0 25.0 85.1 6.0 25.5 71.6 35.8 6.3 22.4 77.1 eer X2786 41.5 6.5 23.5 87.4 48.6 6.5 27.0 79.0 26.2 6.8 23.9	nceton	48.4	5.5	25.3	63.0	
Filler 128       54.8       5.8       23.1       86.3         Matoaka       52.0       6.0       25.0       85.1         ceton 8-A       36.3       6.0       25.5       71.6         3. 399       35.8       6.3       22.4       77.1         eer X2786       38.4       6.3       26.1       53.4         1b XL-385       41.5       6.5       23.5       87.4         909E       48.6       6.5       27.0       79.0         seton 890-AA       35.0       6.5       24.7       70.1         809       26.2       6.8       23.9       73.7		57.7	5.5	25.8	83.9	7 6
Matoaka 52.0 6.0 25.0 85.1 ceton 8-A 36.3 6.0 25.5 71.6 3.3 99 77.1 cet XZ786 38.4 6.3 22.4 77.1 53.4 41.5 6.5 22.5 77.0 8909E 48.6 6.5 27.0 79.0 ceton 890-AA 35.0 6.5 24.7 70.1 26.2 6.8 23.9 73.7	Crib Filler 128	54.8	5.8	23.1	86.3	2.4
ceton 8-A 36.3 6.0 25.5 71.6 35.8 6.3 22.4 77.1 eer X2786 38.4 6.3 26.1 53.4 77.1 59.09E 48.6 6.5 27.0 79.0 ceton 890-AA 35.0 6.5 24.7 70.1 26.2 6.8 23.9 73.7	Matoa	52.0	0.9	25.0	85.1	2.4
3. 399 35.8 6.3 22.4 77.1 26.1 53.4 1b XL-385 41.5 6.5 23.5 87.4 909E 48.6 6.5 27.0 79.0 26.2 6.8 23.9 73.7	rinceton	36.3		25.5	71.6	
eer X2786 38.4 6.3 26.1 53.4 1b XL-385 41.5 6.5 23.5 87.4 909E 48.6 6.5 27.0 79.0 ceton 890-AA 35.0 6.5 24.7 70.1 26.2 6.8 23.9 73.7	P.A.G. 399	35.8		22.4	77.1	1,46535
1b XL-385 41.5 6.5 23.5 87.4 909E 909E 79.0 79.0 6.5 24.7 70.1 26.2 6.8 23.9 73.7	Pioneer X2786	38.4		26.1	53.4	•
909E 48.6 6.5 27.0 79.0 seton 890-AA 35.0 6.5 24.7 70.1 26.2 6.8 23.9 73.7	Dekalb XL-385	41.5		23.5	87.4	•
aceton 890-AA 35.0 6.5 24.7 70.1 809 26.2 6.8 23.9 73.7			2955		79.0	<ul><li>50000</li></ul>
809 26.2 6.8 23.9 73.7			2000	. 2 76	70.1	
		9	9250	23.9	73.7	• 255

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*				
*	2.3 2.1 2.1 2.1 2.3 2.3 2.3 2.0 2.0 2.0	2.4	2.8 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	
* *	68.5 70.5 60.0 47.1 76.2 71.8 56.9 68.4 69.1 49.6 48.2 47.4	76.2	97.0 97.1 95.0 95.6 95.6 88.1 89.4 88.9 94.3 91.6 87.8 97.8 97.8 94.5 96.4 87.9 96.4 87.9	
<b>♥</b> C a	24.3 25.5 25.8 23.4 23.7 24.5 24.5 26.9 26.9 25.7 25.7 25.2 25.2	25.1	29.3 29.4 27.0 27.4 28.3 26.7 28.0 27.7 24.9 25.8 27.0 28.5 24.7 29.0 27.2 23.7 23.7	
	6.8 6.8 6.8 7.0 7.0 7.0 7.5 8.0 8.0	5.7	4.3 4.5 4.5 4.5 4.8 4.8 4.8 6.0 5.3 6.0 6.0 6.0	
4 9	29.5 29.2 26.2 24.6 27.0 24.1 24.1 34.0 26.7 11.6 21.1	46.7	74.8 72.0 73.2 72.7 61.1 65.4 77.4 57.7 52.2 64.2 57.2 66.1 56.6 60.0 60.0	
* * * * *	Stull 101YS Ken-Bred E20YA Crib Filler 88 S.S. 820S Princeton 81-A Schenk SX-75 T-E Cropmaster Princeton SX803 Dekalb XL-65A Ken-Bred SX20Y Crib Filler 66 Dekalb XL-362 Dekalb SE-362	Yellow Average	WHITE Ky 6132W Pioneer 511 Ky 5921W Princeton 920-A Meacham M-7 Crib Filler 183W Schenk S-96W Princeton 990-A Pioneer 509 S.S. 960W Stull 500WC Dekalb 999 Princeton 790-AA Stull 800W Ken-Bred M20W US523W White Average	

Annual Summary of Hybrids Evaluated Under Nitrogen and Plant Population Treatments Separately and in Combination Table 10.

				Average A	Acre Yield	in Bushels	ls		
•						133#	N/A	200#	N/A
Hybrid	Overall	133#	200非	17,424	23,232	17,424	23,232	17,424	23,232
	Average	N/A	N/A	P1/A	P1/A	P1/A	P1/A	P1/A	P1/A
YELLOW								133	
Crib Filler 88	300	9.98	95.5		9332.			O	01 1
Dekalb 805-A	79.3	81.6	77.0	10 E.			•	10	64.5
P.A.G. 399	85.4		83.2		7)5000 ·		97.7	1	85.0
P.A.G. SX29	93.3	88.9	97.8			87.7		107.1	88.5
Pioneer 3369	9.06		92.5			\$155 ·	9.46	. 5	79.9
S.S. 820S	83.0	81.5	9.48		83.2			3	75.5
Dekalb XL-342	77.8		77.9	83.0	72.7	79.2	76.2	86.7	69.1
Crib Filler 128	78.4	79.1	77.8	82.9	74.0		81.8	4.68	66.2
Stull 807YAA	93.6	92.7	94.5	97.5	9.68		94.46	104.1	84.8
Ken-Bred SX20Y	80.2	77.0	83.4	90.3	70.1	77.6	76.4	103.0	63.7
P.A.G. SX17	106.1		106.3	107.7	104.5	102.9	108.9	112.5	100.1
Dekalb XL-362	87.1	87.1	87.2	93.5	80.8	91.9	82.2	95.0	79.4
S.S. Matoaka	6.78		90.2	91.4	84.4		SEE.	0.66	80.6
T-E Cropmaster	74.1	0.07	78.3	81.6	-	74.0			
AES 809	78.5	76.5	80.4		72.2	75.8		93.6	67.2
Princeton 8-A	74.8	0.69	80.7	83.7	0.000	77.4	60.5	-	SHEET,
Pioneer 3376	81.9	77.0	8.98			75.5		96.2	77.3
Dekalb XL-65A	9.88	4.48	92.9	87.8	NO.	77.3		98.3	2200
Princeton 81-A	79.2	77.7	80.7	88.8	9.69	80.1	75.2	4.76	0.49
Pioneer 3327	92.1	89.3	7.46	94.2	0.06	79.0		109.4	80.4
Ken-Bred E20YA	88.4	100 000	6.98	7.06		82.7	000	98.7	2500. ·
8.8.860	76.8	72.5	81.1	77.7	75.9	72.1	0.000	83.2	78.9
Princeton SX803	81.6		9.98	88.0		9.77	75.5	98.4	74.8
Pioneer X2786	102.1	97.5	106.7	111.3	92.9	101.5		121.1	92.2
Princeton SX804	868	87.3	92.4		86.1	85.7		101.4	83,3
Ky 6504	84.2	79.8	88.7	87.5	81.0	0.47	10000	101.0	76.4
Ken-Bred VR20Y	78.7	74.7	82.7	82.0	75.4	9.07	2000	93.4	72.0
Crib Filler 66	80.8	79.8	81.9	4.68	72.3	80.7	78.8	98.1	65.7
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•	73.9	. 10		+	0	7	2	00	0	- 0	0,1	0		•	•	-	~:		+ .			84.3	/	+	0	4	4	00	6	3	85.2	
•	65.3	0			+	~	7	3	3	0	0	0					~;		~		~	70.2	m	0	1	4	1	4	6	00	80.2	
2	70.3	. ~	1 ~1	~	~	0	0	2	2	3	-	_		•	•			~:	~	0	10	74.2	0	0	5	5	5	0	1	00	81.0	
医牛	78.4		. ~	10	~	90	-	7	7	00	0	0				•		-	+	~		80.2	0	0	+	-	5	3	1	00	89.7	
	79.1		1 .		5	_	2	0	7	2	7	00		-:	~	-	0	7	0	oi.	0	77.1	0	+	0	3	6	00	5	9	87.9	
*	9.69		. ~		1 10	0	10	5	7	9	6	3																		80.9	82.7	
2 年	74.4	92.1	6.00	89.7	95.3	• 757	85.7	88.3	89.7	85.9	6.06	0.98		67.7	87.1	79.4	76.4	86.3	4,98	85.8	85.7	77.2	84.8	83.2	79.7	78.8	90.3	9 76	92.5	83,5	85.3	
* * * *	Dekalb 872	Dekalb XL-385		Frinceton 890-AA	6 8 866	3.3. 000	D A C SY59	Schenk SX-75	S. S. 979	Stull 101YS	Deka1b 1006	Yellow Average	WHITE	Princeton 790-AA	Kv 5921W	Stull 500WC	11S 523W	Ken-Bred M20W	Schenk S-96W	Crib Filler 183W	Pioneer 509	MO96 S S	Moscham M-7	Drinceton 920-A	Drinceton 990-A	-	v. 61324	ny olozw pisocow 511	Figures Jir	White Average	GRAND AVERAGE	

Table 11. Treatment Summary of Hybrid Groups

			7	Average Acre Yield in Bushels	re Yield	in Bushel	S		
Hybrid						133#	: N/A	200非	N/A
Combination	Overal1	133#	200#	17,424	23,232	17,424	23,232	17,424	23,232
Averages	Average	N/A	N/A	P1/A	P1/A	P1/A	PI/A	P1/A	P1/A
All Hybrid	85.3	82.7	87.9	7.68	81.0	80.2	85.2	99.2	76.7
Yellow Hybrids	0.98	83.4	88.7	90.3	81.8	80.9	0.98	7.66	77.6
White Hybrids	83.5	6.08	86.1	88,1	78.9	78.4	83.4	8.76	74.5
All Single Crosses	87.4	85.2	9.68	92.4	82.4	83.2	87.1	101.6	77.7
All Three-Way Crosses	88.3	83.9	92.9	92.3	84.5	81.8	85.8	102.7	83.1
All Four-Way Crosses	83.7	81.2	86.3	87.8	7.67	78.3	84.2	97.3	75.2
1 1 1									
17 Yellow Single Crosses	87.1	84.9	89.3	92.1	82.1	82.8	86.9	101.3	77.3
5 Yellow Three-Way Crosses 88.3	88.3	83.9	92.9	92.3	84.5	81.8	85.8	102.7	83.1
18 Yellow Four-Way Crosses 84.4	4.48	82.0	6.98	88.1	80.7	78.8	85.2	4.76	76.3
	1								
I White Single Cross	92.5	9.68	95.5	8.76	87.2	89,3	868.8	106.3	9.48
15 White Four-Way Crosses	82.9	80.3	85.5	47.78		7.77	82.9	97.2	73.8

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