WHAT ABOUT PLANTING RATES?

Frequently farm operators make decisions based on short term experience which can be costly. Due to rather general drought conditions in Kentucky in 1964, corn yields were reduced. Some producers believe that their losses would have been smaller if they had used a reduced planting rate.

Research results obtained at the University of Kentucky during conditions of drought and under more normal conditions are helpful in evaluating this point.

Yield Comparison in Bushels per Acre

*	**************************************	TOTAL DESCRIPTION OF THE PROPERTY OF THE PROPE	***************************************
85.0	82 .4	68,4	Normal Ave. 7 Trials
56.6	56.6	51.0	Drought-Lex. 57
Plts/A	Plts/A	Plts/A	Conditions
16,000	12,000	8,000	Weather
ng	Rate of Planting	Rat	

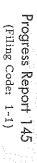
Results indicate that yield is generally reduced by conditions of drought. Increasing the rate of planting from 8,000 to 12,000 plants increased yield under drought conditions. Yield was not reduced by increasing planting rate to 16,000 plants per acre during an unfavorable year. Large increases in yield may be expected in favorable years when planting rate is increased from 8,000 plants per acre to 12,000 or 16,000 plants per acre. A planting rate of 16,000 plants per acre is not an excessive population for efficient corn production if accompanied by an adequate fertilizer program, timely planting, an effective weed control program and a high potential producing hybrid.

Since weather conditions tend toward the average rather than the extreme, prolonged summer droughts are not expected annually in Kentucky. Farm operators must plan their operations on a long-term basis utilizing proven profitable practices. No single practice in corn production is as profitable as increasing the rate of planting to insure a harvest stand of 14,000 to 16,000 plants per acre.

10M--2-65

Results of the KENTUCKY HYBRID CORN PERFORMANCE TEST—1964

F. A. Loeffel
D. E. Thorndale
and
J. F. Shane



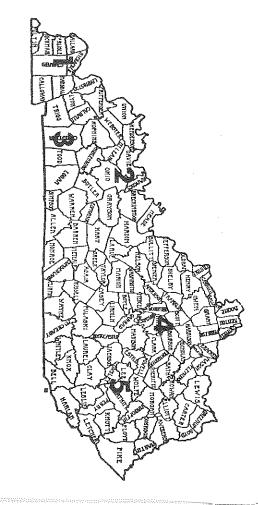
February 1965

AGRICULTURAL EXPERIMENT STATION

LEXINGTON

TESTING LOCATIONS OF

THE KENTUCKY HYBRID CORN PERFORMANCE TEST



5. Quicksand	Lexington	2. Owensporo beverly σ 3. Hopkinsville Graham Du			Area Location Co
Robinson Agr. Exp. Substation, Charles	Ky. Agr. Exp. Sta.	Graham Duncan	James Witson	T 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Cooperator

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 1964

F. A. Loeffel, D. E. Thorndale and J. F. Shane

ducers in the state to improve their efficiency of production. This is a part of a continuing search by corn proof single-cross hybrids is being planted in Kentucky. Kentucky farmers. indicated by the continuing shift to hybrids by or required for a specific situation. The need periment Station to obtain this information is for the University of Kentucky Agricultural Expossesses the characteristics which are desired personnel to determine which hybrid most nearly by farmers, seedsmen, and research and extension sold in Kentucky. This information may be used of the relative performance of corn hybrids being Performance Test is to provide an unbiased estimate The objective of the Kentucky Hybrid Corn In recent years, much more seed

since 1955, however, is not encouraging to a sound by 113 percent. of corn has more than doubled, having increased duction in the state in terms of bushels per acre were obtained. The achievement of farm operators 1960-64 with that of 1940-44 shows that the yield is encouraging. The rate of increasing the efficiency of corn proutilize improved products and cultural practices. duction under the adverse weather conditions of 1964 when record yields of 58 and 66 bushels per acre state was 57 bushels per acre. This yield level record for corn production for the first time since Points out the remarkable progress being made to in Kentucky to maintain the efficiency of corn prohas been exceeded in Kentucky only in 1962 and 1963 Kentucky failed to establish a new efficiency This year the average yield per acre for the The reduced corn acreage in Kentucky A comparison of the five-year period

expansion of livestock feeding and breeding operations so necessary for agricultural progress.

The estimated corn production for Kentucky in 1964 is 62.3 million bushels. This is 12.1 million bushels less than the 1963 production and the third lowest production since 1955. A reduction of 3 percent in acres harvested and a marked cut in yield from the 1963 record yield of 66 bushels per acre accounted for the decline in production.

parts of the growing season, the yield of corn turned out as well as or better than average. There were very few general rains over the state during the growing season. Most of the precipitation resulted from local showers which were very spotty. Yield was reduced by drought conditions which developed over the state in areas not obtaining showers regularly. Cool weather continuing into June also retarded plant development. However, the hot, dry weather the first week of August was the most damaging of the season.

Rainfall was about normal through April but corn was needing moisture before the late May rains. These rains brought some record-breaking low temperatures with them in early June. Unseasonal low temperatures also occurred in early July. July rainfall was extremely spotty, with most areas getting dry by the end of the month. The extremely high temperatures with no precipitation during early August then seriously reduced corn prospects. The drought conditions matured early corn faster than normal, permitting early harvesting. A dry fall also permitted rapid harvesting of the corn crop.

Corn planting was getting started over the state during the week ending April 28. Nearly half of the crop was reported planted in some of the southern counties. Sixty percent of the corn crop was planted

with only 10 percent still in the milk stage. Over counties. Harvesting throughout the state was more with 7 percent of it harvested primarily in western of the crop was reported to be mature or in dent stage being salvaged as silage. By August 25, 60 percent by May 19, which is later than the last couple of harvested by November 3. uniform than normal, with 81 percent of the crop 65 percent of the corn was mature by September 22, in southern counties, severely damaged by drought, crop was tasselling, with some early planted corn cool weather. On July 21, nearly 60 percent of the some areas during the week ending June 9 owing to years but ahead of normal. percent completed by June 2. Corn planting was 90 Yellowing occurred in

The average yield for all hybrids grown at five locations in 1964 was 4,179 pounds of shelled corn per acre or 74.6 bushels. The highest test average was 5,908 pounds per acre (105.5 bu) at Quicksand. The lowest test average was 2,895 pounds per acre (51.7 bu) at one western location.

EXPERIMENTAL METHODS

The performance test was conducted at five locations which represent corn-producing areas typical of the state. These locations together with the name of the cooperator are listed on the inside of the front cover. These testing sites were grouped by geographical location into western and eastern areas for convenience in presenting the results. Yields from Wickliffe, Owensboro, and Hopkinsville were averaged for the western area. Similarly, the yields from Lexington and Quicksand were averaged for the eastern Kentucky area.

Seventy-two 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 Table 1. Information concerning the seed source of the hybrid, the kernel color and the type of cross is presented. The type of hybrid is designated as follows: double cross, 4X; three-way cross, 3X; single cross, 2X; and a multiple cross, MX. Seed of a single cross hybrid sells at a premium owing to increased costs of producing seed. The following material was evaluated in 1964: 49 double crosses, 2 three-way crosses, 20 single crosses and a multiple cross.

The pedigrees of hybrids developed by state and federal agencies are listed in Table 2. Agronomic information pertaining to the testing locations is presented in Table 3. Results of the Kentucky Hybrid Corn Performance Test are summarized for periods of 3 years, 2 years and 1 year and are presented in Tables 4-6 respectively. The hybrids are grouped in the tables on the basis of kernel color. Within groups the hybrids are listed in order of increasing moisture content. The reaction of the hybrids to northern and southern corn leaf blight are summarized in Table 7. The hybrids in Table 7 are listed in alphabetical order.

Field Design.

Each hybrid was planted in four plots at each of the five locations with individual plots being two hills wide and the equivalent of five hills long in 1962 and 1963. In 1964, each hybrid was planted in three plots per location. Corn was hand planted simulating hill dropping. These plots were located in different parts of the testing field to minimize cultural and soil differences. All tests were planted at an increased rate and the resulting plants thinned to comparable stands at each location.

Yield.

The corn from each plot was harvested and weighed individually. The yield of the hybrids was determined and is reported on the basis of pounds of shelled

corn per acre and bushels of shelled corn per acre with a moisture content of 15.5 percent. Adjustments were made for missing hills but not for other variation in stand. Therefore, the yields at each location reported in this progress report constitute an average yield of 3 or 4 plots after all adjustments were made.

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 hybrids being compared.

In 1962 and 1963, two moisture samples were taken at each location for each hybrid by taking a composite sample from replication 1 and 2 and from replication 3 and 4. The moisture content in the grain was determined at harvest by removing 2 rows of kernels from each of 10 ears selected at random from each of 2 replications. The grain from the 20 ears was thoroughly mixed and the moisture content of a 100-gram sample was determined with a Steinlite moisture meter. In 1964, moisture samples were taken on an individual plot basis at each of the five locations and moisture individually determined.

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 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 present to give the percentage of erect plants.

Ear Height.

Ear height, 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 four plots of each hybrid at each location.

Disease.

Visual ratings of hybrid reaction to northern and southern corn leaf blight disease were taken on an artifically inoculated planting of the hybrids at Lexington. Each hybrid was planted in a 1 x 5 hill plot replicated three times. A five class rating scale was used: excellent, very good, good, fair and poor.

INTERPRETATION

The performance of hybrids varies with weather conditions which change from season to season and from testing location to testing location in the same season. Since the weather conditions cannot be predicted at the time of planting, a farmer should plant a hybrid which has been a good performer in an "average" season. The best estimate of hybrid performance for an "average" season is obtained by combining the results obtained from a large number of experiments grown in different years at a number of locations.

The information presented in Table 4 is the average of 15 individual experiments conducted in 1962, 1963 and 1964. In Table 5 are summarized the results obtained from 10 experiments in 1963 and 1964. Table 6 contains information obtained from five experiments in 1964 at different locations in the state. For this reason, the information contained in Table 4 is the best estimate available for comparing the performance of corn hybrids for average growing conditions in Kentucky.

MAKE YOUR CHOICE BASED ON YOUR OWN NEEDS

be avoided. Frequently a farmer changes his entire with the hybrid or hybrids presently grown. If this grown frequently on a trial basis in comparison mine if they will produce well on his farm. For being made. An efficient corn producer will want county agent for procedure. other observational notes recorded. season. At harvest, yield should be determined and observe the hybrids frequently during the growing mark them at planting time. It is important to currently used hybrids in a field, being sure to using identical management practices. A good way were not grown under similar conditions. Hybrids This is not a valid comparison since the hybrids corn acreage to a different hybrid and then compares suggestion is followed, a commonly made error can this reason, it is suggested that new hybrids be to keep informed on these improvements and to deterhybrids which more nearly fit his production pracis followed, a corn grower will be able to select to do this is to plant seed of the new hybrid beside being compared should be grown in the same field, the performance of the new hybrid with the old hybrid tices and personal preferences. Improvements in corn hybrids are constantly If this suggestion Consult your

The number of corn plants per acre in Kentucky is generally too low for top production. It would be well worth the time and effort to change the setting on the drill and compare yields at different rates of planting. It should be kept in mind, however, that plant population and fertility level must be kept in balance for efficient production. Consideration should also be given to the use of chemical weed killers, soil insecticides and some method of minimum tillage for preparation of land.

Table 1. Hybrids Tested in 1964

Table 1. Continued

	Meacham M-5 M-33YB MX-30Y MX-50W	Ky 105 Ky 5901W Ky 5921W Ky 6001	Kamp 910B 913BRK Ken-Bred E-20YA F-20W SX-20Y	Hagan H-2 H-9 Hilligoss 9X3L 84M	805 824 1006 XL-65 XL-385 XL-390 Dixie's 99Y	Crib Filler 55 66 78 123 123 183W Dekalb 633	AES 809	
	द्रस्य	प्टर्स	ধহদ হয	संस सह	к хиккик	кн хнкик	A	a.
	4X 4X 2X 2X	4X 4X 4X 4X	4X 4X 4X 4X 2X	4X 4X 4X 2X 4X	4X 4	2 X 2 X 3 X 4 X X 4 X X X 4 X X X X X X X X X	4X	
	Meacham's Hybrids Route 3, Morganfield, Ky.	University of Kentucky Agricultural Experiment Station, Lexington	Kamp's Farm Seed, Route 2, Evansville, Ind. George Patmor, Marion; Clyde Jackson, Danville; Louisville Seed Co., Louisville, Ky Distributors	R. M. Hagan, Route 4 Owensboro, Ky. Hilligoss Corp., Route 1 McCordsville, Ind.	Til. Dixie Stock Farm Sonora, Ky.	Mitchell Farms Windfall, Ind. Dekalb Agricultural Association, Dekalb,	Agricultural Experiment Station (North Central)	,
	· · · ·							
us 523W	A7708 W008 W008 W708	Matoaka Munsee Stull 100YB 101YB	Southern States 775 8208 860 909E 979	8-X 8X-800 Schenk S-73 8-73A S-96W	511 X2280 3304 3790-AA 790-AA 840-A 888-A 890-AA 990-A	SX63 437 Pioneer 309A 312A 310 321 509	P.A.G. SX19 SX29 SX59	
W	*****	ধৰ ধৰ	4 K K K K K	ঘদদ দদ	מ תמת	хкккк кк	A A A COTOL)
4X	2 X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	7 4 4 X X X X X X X X X X X X X X X X X	2X 4X 4X 4X	4 4 4 4 X X X X X X X X X X X X X X X X	2x 4x 4x 4x 4x	2X 2X 2X	3
	5	Stull Brothers, Sebree, Ky.	Southern States Coop., Inc., Division of Seed and Farm Supply, Richmond 20, Va.	Charles H. Schenk and Son, Inc., Ro Vincennes, Ind.	Princeton Farms Princeton, Ind.	Pioneer Corn Company, Tipton, Ind.	Pfister Associated Inc., Aurora, Ill. Franklin. Kv.	

Table 2. Pedigrees of Experiment Station and U.S. Hybrids Tested in 1964

Hybrid Pedigree

AES 809 (WF9 x P8) (Oh 43 x C103)

Ky 105 (T8 x C121E) (38-11 x Oh 7B)

Ky 5901W (Ky 211 tms x 33-16) (K55 x C164)

Ky 5921W (C164 x 33-16) (C166 x Ky 201)

Ky 6001 (WF9 x Ky 36-11) (C103 x B14)

Table 3. Agronomic Information Pertaining to Testing Locations in 1964

US 523W

 $(K55 \times K64) (Ky 27 \times Ky 49)$

		Fertilizer	Plants per	Date	Date	Exper Avera	iment ge Yield	
Loc	ation	Applied	Acre	Planted	Harvested	Lb	Bu	Moisture
1.	Wickliffe	300# 15-15-15 100# Anhydrous NH ₃	16,400	Мау 5	Oct. 14	3660	65.3	13.6
2.	Owensboro	800# 5-20-20 136# 45% Urea	15,900	May ll	Oct. 5	2895	51.7	2 2.1
3.	Hopkinsville	120# Anhydrous NH ₃ pre-plant 200# 18-46-0 in rows	14,600	April 17	Oct. 1	3071	54.8	14.3
4.	Lexington	400# Am. Nitrate 150# K ₂ 0	19,300	May 5	Oct. 19	5362	95.7	14.8
5.	Quicksand	300# 0-30-30 100# Am. Nitrate 125# Am. Nitrate (Side dressed)	18,650	May 8	Oct. 24	5908	105.5	20.5

Table 5. Two-Year Summary of Hybrids Grown in 1963 and 1964

			re Yield Western	Eastern	Maturity Harvest Ear	Erect	Ear
brid	Sta	te Bu	Western Bu	Bu	Moisture,%	Plants,%	Height, Ft
	Lb	bu	Du .	Ди	1102.000.00		
LLOW	6149	109.8	96.3	129.9	14.5	85.0	3.8
M.G. DAL		99.7	81.5	126.9	15.2	91.5	3.8
.10u z b b	5583		84.1	122.3	15.2	79.3	3.4
Mar ID 000	5566	99.4				86.7	3.7
A.G. SX29	6138	109.6	95.8	130.2	15.3		
lligoss 84M	5594	99.9	86.1	120.7	15.4	86.1	3.8
	6356	113.5	101.3	131.7	15.4	84.3	3.8
			77.5	108.3	15.4	84.8	3.2
"THEODOM TI	5029	89.8		117.0	15.5	90.7	3.8
, 000×	5410	96.6	83.0			90.0	3.5
inceton 8-A	5393	96.3	80.7	119.8	15.8		
agan H-9	5544	99.0	88.1	115.4	15.9	79.7	4.0
. 2206	5281	94.3	82.1	112.6	15.9	83.0	3.5
LOHOOT SO.			76.4	113.8	16.1	84.9	3.3
	5113	91.3			16.1	82.1	3.7
	5622	100.4	84.4	124.5			4.0
eacham M-33YB	5684	101.5	90.0	118.8	16.1	82.7	
chenk 5-73	5370	95.9	77.9	122.7	16.1	84.6	3.9
	5488	98.0	83.4	119.9	16.2	85.7	3.6
COTT = ===	5572	99.5	85.2	121.0	16.3	85.8	3.6
EH-Dien B-701V	5404	96.5	79.9	121.3	16.3	78.5	3.7
. D . 1100 D		103.3	93.4	118.1	16.5	85.9	4.4
y <u>1</u> 00	5785 5869	103.3	91.0	125.4	16.6	80.1	3.8
LID III				118.2	16.6	78.6	4.4
.S. 909E	5701	101.8	90.9 77.7	113.0	16.6	80.5	3.4
0 D 4 LL	5141	91.8				82.6	3.6
eka1b 824	5544	99.0	83.4	122.4	16.7	91.0	3.8
ioneer 310	5841	104.3	94.4	119.0	16.7		
	5482	97.9	83.0	120.3	16.8	78.3	3.7
rinceton 890-AA						*	
rinceton 890-AA						ur.	
		102.5	87.3	125.4	16.8	80.2	3.7
Stull 807Y	5740	102.5					
Stull 807Y Crib Filler 78	5740 5578	102.5 99.6	85.6	120.6	16.9	77.3	3.8
Stull 807Y Crib Filler 78 Dixie's 99Y	5740 5578 5858	102.5 99.6 104.6	85.6 90.5	120.6 125.7	16.9 16.9	77.3 80.7	3.8 4.1
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba	5740 5578 5858 5365	102.5 99.6 104.6 95.8	85.6 90.5 83.6	120.6 125.7 114.3	16.9 16.9 17.2	77.3 80.7 74.9	3.8 4.1 3.8
Stull 807Y Crib Filler 78 Dixie's 99Y	5740 5578 5858	102.5 99.6 104.6	85.6 90.5	120.6 125.7	16.9 16.9	77.3 80.7	3.8 4.1
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba P.A.G. SX59	5740 5578 5858 5365	102.5 99.6 104.6 95.8	85.6 90.5 83.6	120.6 125.7 114.3	16.9 16.9 17.2	77.3 80.7 74.9	3.8 4.1 3.8
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba	5740 5578 5858 5365 6216	102.5 99.6 104.6 95.8 111.0	85.6 90.5 83.6 97.3	120.6 125.7 114.3 131.6	16.9 16.9 17.2 17.7	77.3 80.7 74.9 85.1	3.8 4.1 3.8 3.9
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba P.A.G. SX59 Pioneer 309A Dekalb 1006	5740 5578 5858 5365 6216 5634 5757	102.5 99.6 104.6 95.8 111.0	85.6 90.5 83.6 97.3 85.6 90.5	120.6 125.7 114.3 131.6	16.9 16.9 17.2 17.7	77.3 80.7 74.9 85.1	3.8 4.1 3.8 3.9
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba P.A.G. SX59 Pioneer 309A Dekalb 1006 Yellow Average	5740 5578 5858 5365 6216 5634 5757	102.5 99.6 104.6 95.8 111.0 100.6 102.8	85.6 90.5 83.6 97.3 85.6 90.5	120.6 125.7 114.3 131.6 123.3 121.2	16.9 16.9 17.2 17.7 18.5	77.3 80.7 74.9 85.1 89.5 82.0	3.8 4.1 3.8 3.9 4.2 4.4
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba P.A.G. SX59 Pioneer 309A Dekalb 1006 Yellow Average WHITE	5740 5578 5858 5365 6216 5634 5757 5619	102.5 99.6 104.6 95.8 111.0 100.6 102.8	85.6 90.5 83.6 97.3 85.6 90.5	120.6 125.7 114.3 131.6 123.3 121.2	16.9 16.9 17.2 17.7 18.5 18.7	77.3 80.7 74.9 85.1 89.5 82.0	3.8 4.1 3.8 3.9 4.2 4.4
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba P.A.G. SX59 Pioneer 309A Dekalb 1006 Yellow Average WHITE Ky 5901W	5740 5578 5858 5365 6216 5634 5757 5619	102.5 99.6 104.6 95.8 111.0 100.6 102.8 100.3	85.6 90.5 83.6 97.3 85.6 90.5 86.5	120.6 125.7 114.3 131.6 123.3 121.2 121.1	16.9 16.9 17.2 17.7 18.5 18.7 16.3	77.3 80.7 74.9 85.1 89.5 82.0 83.5	3.8 4.1 3.8 3.9 4.2 4.4 3.8
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba P.A.G. SX59 Pioneer 309A Dekalb 1006 Yellow Average WHITE Ky 5901W US 523W	5740 5578 5858 5365 6216 5634 5757 5619 5482 5303	102.5 99.6 104.6 95.8 111.0 100.6 102.8 100.3	85.6 90.5 83.6 97.3 85.6 90.5 86.5	120.6 125.7 114.3 131.6 123.3 121.2 121.1	16.9 16.9 17.2 17.7 18.5 18.7 16.3	77.3 80.7 74.9 85.1 89.5 82.0 83.5	3.8 4.1 3.8 3.9 4.2 4.4 3.8
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba P.A.G. SX59 Pioneer 309A Dekalb 1006 Yellow Average WHITE KY 5901W US 523W Schenk S-96W	5740 5578 5858 5365 6216 5634 5757 5619 5482 5303 5774	102.5 99.6 104.6 95.8 111.0 100.6 102.8 100.3	85.6 90.5 83.6 97.3 85.6 90.5 86.5 83.9 88.2 90.7	120.6 125.7 114.3 131.6 123.3 121.2 121.1	16.9 16.9 17.2 17.7 18.5 18.7 16.3	77.3 80.7 74.9 85.1 89.5 82.0 83.5	3.8 4.1 3.8 3.9 4.2 4.4 3.8 3.7 3.8 3.9
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba P.A.G. SX59 Pioneer 309A Dekalb 1006 Yellow Average WHITE KY 5901W US 523W Schenk S-96W Meacham M-5	5740 5578 5858 5365 6216 5634 5757 5619 5482 5303 5774 5197	102.5 99.6 104.6 95.8 111.0 100.6 102.8 100.3	85.6 90.5 83.6 97.3 85.6 90.5 86.5 83.9 88.2 90.7 86.2	120.6 125.7 114.3 131.6 123.3 121.2 121.1 118.9 104.4 121.6 102.7	16.9 16.9 17.2 17.7 18.5 18.7 16.3 16.3 16.5 16.8 17.0	77.3 80.7 74.9 85.1 89.5 82.0 83.5	3.8 4.1 3.8 3.9 4.2 4.4 3.8 3.7 3.8 3.9 4.0
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba P.A.G. SX59 Pioneer 309A Dekalb 1006 Yellow Average WHITE KY 5901W US 523W Schenk S-96W	5740 5578 5858 5365 6216 5634 5757 5619 5482 5303 5774 5197	102.5 99.6 104.6 95.8 111.0 100.6 102.8 100.3	85.6 90.5 83.6 97.3 85.6 90.5 86.5 83.9 88.2 90.7 86.2	120.6 125.7 114.3 131.6 123.3 121.2 121.1	16.9 16.9 17.2 17.7 18.5 18.7 16.3	77.3 80.7 74.9 85.1 89.5 82.0 83.5	3.8 4.1 3.8 3.9 4.2 4.4 3.8 3.7 3.8 3.9
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba F.A.G. SX59 Pioneer 309A Dekalb 1006 Yellow Average WHITE Ky 5901W US 523W Schenk S-96W Meacham M-5 Crib Filler 183W	5740 5578 5858 5365 6216 5634 5757 5619 5482 5303 5774 5197 75751	102.5 99.6 104.6 95.8 111.0 100.6 102.8 100.3	85.6 90.5 83.6 97.3 85.6 90.5 86.5 83.9 88.2 90.7 86.2 91.2	120.6 125.7 114.3 131.6 123.3 121.2 121.1 118.9 104.4 121.6 102.7 119.9	16.9 16.9 17.2 17.7 18.5 18.7 16.3 16.3 16.5 16.8 17.0	77.3 80.7 74.9 85.1 89.5 82.0 83.5	3.8 4.1 3.8 3.9 4.2 4.4 3.8 3.7 3.8 3.9 4.0 3.8
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba F.A.G. SX59 Pioneer 309A Dekalb 1006 Yellow Average WHITE Ky 5901W US 523W Schenk S-96W Meacham M-5 Crib Filler 183W	5740 5578 5858 5365 6216 5634 5757 5619 5482 5303 5774 5197 75751	102.5 99.6 104.6 95.8 111.0 100.6 102.8 100.3	85.6 90.5 83.6 97.3 85.6 90.5 86.5 83.9 88.2 90.7 86.2 91.2	120.6 125.7 114.3 131.6 123.3 121.2 121.1 118.9 104.4 121.6 102.7 119.9	16.9 16.9 17.2 17.7 18.5 18.7 16.3 16.3 16.5 16.8 17.0 17.1	77.3 80.7 74.9 85.1 89.5 82.0 83.5 79.0 75.1 83.1 79.2 84.6	3.8 4.1 3.8 3.9 4.2 4.4 3.8 3.7 3.8 3.9 4.0 3.8
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba F.A.G. SX59 Pioneer 309A Dekalb 1006 Yellow Average WHITE Ky 5901W US 523W Schenk S-96W Meacham M-5 Crib Filler 183W Ky 5921W Stull 400W	5740 5578 5858 5365 6216 5634 5757 5619 5482 5303 5774 5197 \$7551 5650 5449	102.5 99.6 104.6 95.8 111.0 100.6 102.8 100.3 97.9 94.7 103.1 92.8 102.7	85.6 90.5 83.6 97.3 85.6 90.5 86.5 83.9 88.2 90.7 86.2 91.2	120.6 125.7 114.3 131.6 123.3 121.2 121.1 118.9 104.4 121.6 102.7 119.9	16.9 16.9 17.2 17.7 18.5 18.7 16.3 16.3 16.5 16.8 17.0 17.1	77.3 80.7 74.9 85.1 89.5 82.0 83.5 79.0 75.1 83.1 79.2 84.6	3.8 4.1 3.8 3.9 4.2 4.4 3.8 3.7 3.8 3.9 4.0 3.8 3.8
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba P.A.G. SX59 Pioneer 309A Dekalb 1006 Yellow Average WHITE Ky 5901W US 523W Schenk S-96W Meacham M-5 Crib Filler 183W Ky 5921W Stull 400W Pioneer 509W	5740 5578 5858 5365 6216 5634 5757 5619 5482 5303 5774 5197 7751 5650 5449 5723	102.5 99.6 104.6 95.8 111.0 100.6 102.8 100.3 97.9 94.7 103.1 92.8 102.7	85.6 90.5 83.6 97.3 85.6 90.5 86.5 83.9 88.2 90.7 86.2 91.2 90.3 88.3 90.4	120.6 125.7 114.3 131.6 123.3 121.2 121.1 118.9 104.4 121.6 102.7 119.9 116.8 110.9 119.8	16.9 16.9 17.2 17.7 18.5 18.7 16.3 16.3 16.5 16.8 17.0 17.1	77.3 80.7 74.9 85.1 89.5 82.0 83.5 79.0 75.1 83.1 79.2 84.6 83.4 86.3 81.0	3.8 4.1 3.8 3.9 4.2 4.4 3.8 3.7 3.8 3.9 4.0 3.8 3.8 4.0
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba P.A.G. SX59 Pioneer 309A Dekalb 1006 Yellow Average WHITE Ky 5901W US 523W Schenk S-96W Meacham M-5 Crib Filler 183W Ky 5921W Stull 400W Pioneer 509W Kamp 910B	5740 5578 5858 5365 6216 5634 5757 5619 5482 5303 5774 5197 7751 5650 5449 5723 5348	102.5 99.6 104.6 95.8 111.0 100.6 102.8 100.3 97.9 94.7 103.1 92.8 102.7 100.9 97.3 102.2 95.5	85.6 90.5 83.6 97.3 85.6 90.5 86.5 83.9 88.2 90.7 86.2 91.2 90.3 88.3 90.4 89.9	120.6 125.7 114.3 131.6 123.3 121.2 121.1 118.9 104.4 121.6 102.7 119.9 116.8 110.9 119.8 103.9	16.9 16.9 17.2 17.7 18.5 18.7 16.3 16.3 16.5 16.8 17.0 17.1	77.3 80.7 74.9 85.1 89.5 82.0 83.5 79.0 75.1 83.1 79.2 84.6 83.4 86.3 81.0 81.6	3.8 4.1 3.8 3.9 4.2 4.4 3.8 3.7 3.8 3.9 4.0 3.8 3.8 4.0 4.0
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba P.A.G. SX59 Pioneer 309A Dekalb 1006 Yellow Average WHITE Ky 5901W US 523W Schenk S-96W Meacham M-5 Crib Filler 183W Ky 5921W Stull 400W Pioneer 509W Kamp 910B	5740 5578 5858 5365 6216 5634 5757 5619 5482 5303 5774 5197 7751 5650 5449 5723 5348	102.5 99.6 104.6 95.8 111.0 100.6 102.8 100.3 97.9 94.7 103.1 92.8 102.7	85.6 90.5 83.6 97.3 85.6 90.5 86.5 83.9 88.2 90.7 86.2 91.2 90.3 88.3 90.4	120.6 125.7 114.3 131.6 123.3 121.2 121.1 118.9 104.4 121.6 102.7 119.9 116.8 110.9 119.8	16.9 16.9 17.2 17.7 18.5 18.7 16.3 16.3 16.5 16.8 17.0 17.1	77.3 80.7 74.9 85.1 89.5 82.0 83.5 79.0 75.1 83.1 79.2 84.6 83.4 86.3 81.0	3.8 4.1 3.8 3.9 4.2 4.4 3.8 3.7 3.8 3.9 4.0 3.8 3.8 4.0
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba P.A.G. SX59 Pioneer 309A Dekalb 1006 Yellow Average WHITE Ky 5901W US 523W Schenk S-96W Meacham M-5 Crib Filler 183W Ky 5921W Stull 400W Pioneer 509W Kamp 910B Princeton 990-A	5740 5578 5858 5365 6216 5634 5757 5619 5482 5303 5774 5197 5751 5650 5449 5723 5348 5566	102.5 99.6 104.6 95.8 111.0 100.6 102.8 100.3 97.9 94.7 103.1 92.8 102.7 100.9 97.9	85.6 90.5 83.6 97.3 85.6 90.5 86.5 83.9 88.2 90.7 86.2 91.2 90.3 88.3 90.4 89.9 90.4	120.6 125.7 114.3 131.6 123.3 121.2 121.1 118.9 104.4 121.6 102.7 119.9 116.8 110.9 119.8 103.9 112.9	16.9 16.9 17.2 17.7 18.5 18.7 16.3 16.3 16.5 16.8 17.0 17.1 17.4 17.4 17.5 17.7 18.0	77.3 80.7 74.9 85.1 89.5 82.0 83.5 79.0 75.1 83.1 79.2 84.6 83.4 86.3 81.0 81.6 87.5	3.8 4.1 3.8 3.9 4.2 4.4 3.8 3.7 3.8 3.9 4.0 3.8 3.8 4.0 4.0 3.8
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba P.A.G. SX59 Pioneer 309A Dekalb 1006 Yellow Average WHITE Ky 5901W US 523W Schenk S-96W Meacham M-5 Crib Filler 183W Ky 5921W Stull 400W Pioneer 509W Kamp 910B Princeton 990-A Kamp 913 BRK	5740 5578 5858 5365 6216 5634 5757 5619 5482 5303 5774 5197 75751 5650 5449 5723 5348 5566 5331	102.5 99.6 104.6 95.8 111.0 100.6 102.8 100.3 97.9 94.7 103.1 92.8 102.7 100.9 97.3 102.2 95.5 99.4	85.6 90.5 83.6 97.3 85.6 90.5 86.5 83.9 88.2 90.7 86.2 91.2 90.3 88.3 90.4 89.9 90.4	120.6 125.7 114.3 131.6 123.3 121.2 121.1 118.9 104.4 121.6 102.7 119.9 116.8 110.9 119.8 103.9 112.9	16.9 16.9 17.2 17.7 18.5 18.7 16.3 16.3 16.5 16.8 17.0 17.1 17.4 17.5 17.7 18.0	77.3 80.7 74.9 85.1 89.5 82.0 83.5 79.0 75.1 83.1 79.2 84.6 83.4 86.3 81.0 81.6 87.5	3.8 4.1 3.8 3.9 4.2 4.4 3.8 3.7 3.8 3.9 4.0 3.8 3.8 4.0 4.0 3.8 3.9
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba P.A.G. SX59 Pioneer 309A Dekalb 1006 Yellow Average WHITE Ky 5901W US 523W Schenk S-96W Meacham M-5 Crib Filler 183V Ky 5921W Stull 400W Pioneer 509W Kamp 910B Princeton 990-A Kamp 913 BRK Hagan H-2	5740 5578 5858 5365 6216 5634 5757 5619 5482 5303 5774 5197 77551 5650 5449 5723 5348 5566 5331 5242	102.5 99.6 104.6 95.8 111.0 100.6 102.8 100.3 97.9 94.7 103.1 92.8 102.7 100.9 97.3 102.2 95.5 99.4 95.2 93.6	85.6 90.5 83.6 97.3 85.6 90.5 86.5 83.9 88.2 90.7 86.2 91.2 90.3 88.3 90.4 89.9 90.4 89.9	120.6 125.7 114.3 131.6 123.3 121.2 121.1 118.9 104.4 121.6 102.7 119.9 116.8 110.9 119.8 103.9 112.9	16.9 16.9 17.2 17.7 18.5 18.7 16.3 16.3 16.5 16.8 17.0 17.1 17.4 17.4 17.5 17.7 18.0	77.3 80.7 74.9 85.1 89.5 82.0 83.5 79.0 75.1 83.1 79.2 84.6 83.4 86.3 81.0 81.6 87.5	3.8 4.1 3.8 3.9 4.2 4.4 3.8 3.7 3.8 3.9 4.0 3.8 3.8 4.0 4.0 3.8 3.9 4.0 3.8
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba P.A.G. SX59 Pioneer 309A Dekalb 1006 Yellow Average WHITE Ky 5901W US 523W Schenk S-96W Meacham M-5 Crib Filler 183W Ky 5921W Stull 400W Pioneer 509W Kamp 910B Princeton 990-A Kamp 913 BRK	5740 5578 5858 5365 6216 5634 5757 5619 5482 5303 5774 5197 75751 5650 5449 5723 5348 5566 5331	102.5 99.6 104.6 95.8 111.0 100.6 102.8 100.3 97.9 94.7 103.1 92.8 102.7 100.9 97.3 102.2 95.5 99.4	85.6 90.5 83.6 97.3 85.6 90.5 86.5 83.9 88.2 90.7 86.2 91.2 90.3 88.3 90.4 89.9 90.4	120.6 125.7 114.3 131.6 123.3 121.2 121.1 118.9 104.4 121.6 102.7 119.9 116.8 110.9 119.8 103.9 112.9	16.9 16.9 17.2 17.7 18.5 18.7 16.3 16.3 16.5 16.8 17.0 17.1 17.4 17.5 17.7 18.0	77.3 80.7 74.9 85.1 89.5 82.0 83.5 79.0 75.1 83.1 79.2 84.6 83.4 86.3 81.0 81.6 87.5	3.8 4.1 3.8 3.9 4.2 4.4 3.8 3.7 3.8 3.9 4.0 3.8 3.8 4.0 4.0 3.8 3.9
Stull 807Y Crib Filler 78 Dixie's 99Y S.S. Catawba P.A.G. SX59 Pioneer 309A Dekalb 1006 Yellow Average WHITE Ky 5901W US 523W Schenk S-96W Meacham M-5 Crib Filler 183V Ky 5921W Stull 400W Pioneer 509W Kamp 910B Princeton 990-A Kamp 913 BRK Hagan H-2	5740 5578 5858 5365 6216 5634 5757 5619 5482 5303 5774 5197 77551 5650 5449 5723 5348 5566 5331 5242	102.5 99.6 104.6 95.8 111.0 100.6 102.8 100.3 97.9 94.7 103.1 92.8 102.7 100.9 97.3 102.2 95.5 99.4 95.2 93.6	85.6 90.5 83.6 97.3 85.6 90.5 86.5 83.9 88.2 90.7 86.2 91.2 90.3 88.3 90.4 89.9 90.4 89.9	120.6 125.7 114.3 131.6 123.3 121.2 121.1 118.9 104.4 121.6 102.7 119.9 116.8 110.9 119.8 103.9 112.9	16.9 16.9 17.2 17.7 18.5 18.7 16.3 16.3 16.5 16.8 17.0 17.1 17.4 17.4 17.5 17.7 18.0	77.3 80.7 74.9 85.1 89.5 82.0 83.5 79.0 75.1 83.1 79.2 84.6 83.4 86.3 81.0 81.6 87.5	3.8 4.1 3.8 3.9 4.2 4.4 3.8 3.7 3.8 3.9 4.0 3.8 3.8 4.0 4.0 3.8 3.9 4.0 3.8 3.9 4.0 3.8

(19)

Table 6. Annual Summary of Hybrids Grown in 1964

			e Acre Yiel	Eastern	<u>Maturity</u> Harvest Ear	Erect	Ear
Hybrid	<u>Sta</u>		<u>Western</u> Bu	Bu	Moisture,%	Plants,%	Height,Ft
	Lb	Bu	<u>nu</u>		1111111111111		
TELLOW SW10	4975	88.8	66,2	122.7	15.0	82.1	3.6
A.G. SX19	4357	77.8	62.3	101.1	15.0	95.4	3.5
Pioneer X2280		74.1	49.5	111.0	15.1	84.6	3.3
s.s. 820S	4151		67.7	119.9	15.2	88.7	3.4
P.A.G. SX29	4963	88.6	50.5	86.0	15.2	90.4	3.2
Princeton SX-800	3626	64.7		111.1	15.5	92.9	3.6
ekalb 640	4374	78.1	56.0	7 7 7 ° 7	13.3	J = 1 J	
Dekalb XL-65	3808	67.9	49.8	95.3	15.7	88.6	3.0
oekalb 805	4052	72.3	53.4	100.7	15.7	84.5	3.3
en-Bred SX-20Y	4149	74.0	52.1	107.0	15.7	83.1	3.5
.A.G. 437	4272	76.2	60.1	100.6	15.7	80.2	3.4
rinceton 840-A	3680	65.7	51.8	86.4	15.7	88.3	3.0
.s. 755	3967	70.8	50.7	101.0	15.7	84.6	3.0
	4176	74.5	53.8	105.7	15.8	87.1	3.4
eacham MX-30Y		71.4	52.5	99.8	15.9	84.0	3.6
illigoss 84M	4003		46.4	101.4	15.9	88.6	3.7
y 6001	3833	68.4	53.9	106.9	16.0	84.2	3.4
ekalb 633	4206	75.1		112.9	16.0	82.1	3.6
.A.G. SX63	5025	89.7	74.2	96.5	16.0	81.1	3.5
Loneer 3304	3923	70.0	52.3	90.3	10.0	L	J.J
tull 101YB	4251	75.9	52.6	110.8	16.0	88.4	3.4
ioneer 321	4429	79.1	61.4	105.6	16.2	85.1	3.8
rinceton 8-X	4056	72.4	53.6	100.5	16.2	85.5	3.4
Tinceron o-v	4531	80.8	61.0	110.7	16.4	80.8	4.0
agan H-9	4061	72.5	52.3	102.8	16.4	87.6	3.4
tull 100YB	3790	67.6	48.1	97.0	16.5	84.1	3.2
ES 809	3/90	07.0	-1012				
Milyers				gergerenning vir vinning.		**	
			ing the second s				
Princeton 8-A	4439	79.2	58.6	110.1	16.5	90.8	3.4
Schenk S-73A	4272	76.2	54.7	108.4	16.5	85.9	3.8
rib Filler 123	4171	74.4	53.9	105.2	16.6	85.9	3.4
eka1b 824	3926	70.0	49.2	101.3	16.6	80.2	3.4
chenk S-73	3760	67.1	44.3	101.2	16.6	84.1	3.4
tull 807YA	4034	72.0	45.8	111.2	16.6	88.2	3.4
rib Filler 66	4255	75.9	57.2	104.0	16.7	84.5	3.6
en-Bred E-20YA	4020	71.7	53.0	99.9	16.7	84.6	3.5
					16.7	77.6	3.8
.S. Matoaka	4296	76.7	53.0 45.4	112.2	16.7	77.2	3.4
.S. Munsee	3801	67.8	45.4	101.5	16.8	85.0	3.6
leacham M-33YB	4497	80.2	62.1	107.4			
rinceton 890-AA	4193	74.8	53.9	106.2	17.0	81.2	3.4
.S. 909E	4131	73.7	62.6	90.5	17.0	86.0	4.4
rib Filler 55	3998	71.3	47.7	106.9	17.1	85.7	3.4
rinceton 888-A	4083	72.8	51.2	105.3	17.1	81.9	3.4
.S. 860	4099	73.1	57.4	96.8	17.1	88.5	3.8
rib Filler 78	4063	72.5	51.5	104.0	17.2	78.6	3.6
illigoss 9X3L	4203	75.0	57.2	101.7	17.2	86.6	3.4
⊶ 10¢	4400	70 £	£1. 1	100.2	17,2	84.8	4.2
y 105	4402	78.6	64.1		17.2	88.8	3.6
ioneer 310	4347	77.6	64.7	96.9			
tull 807Y	4120	73.5	54.3	102.4	17.2	80.9	3.6
ekalb XL-385	4819	86.0	69.3	111.1	17.6	93.5	3.6
.A.G. SX59	4775	85.2	66.7	113.1	17.8	85.1	3.7
ioneer 312A	4414	78.8	64.9	99.6	17.8	85.9	3.6
ixie's 99Y	4412	78.8	57.6	110.5	18.0	77.3	3.8
.S. 979	4288	76.5	60.0	101.3	18.2	84.4	4.1
.S. Catawba	4059	72.4	56.1	97.0	18.3	78.5	3.6
ioneer 309A	3953	70.5	54.3	95.0	19.0	88.6	4.0
ekalb 1006	4500	80.3	61.6	108.4	19.4	86.8	4.3
	-1200	00,0	01.0	100.4	W - 1 T		

Yellow Average 4207 75.1 55.9 103.8 16.6 85.1

3.5

Table 6. Continued

		Averag	e Acre Y1e	1d	Maturity		
Hybrid	Sta	te	Western	Eastern	Harvest Ear	Erect	Ear
	Lb	Bu	Bu	Bu	Moisture,%	Plants,%	Height,Ft
WHITE							
Princeton 790-AA	3670	65.5	48.4	91.1	16.3	86.5	3.6
Ky 5901W	3740	66.7	46.2	97.6	16.6	81.7	3.4
บร์ 523พิ	3739	66.7	57.3	80.8	17.0	77.2	3.5
Meacham M-5	3611	64.4	55.6	77.7	17.2	76.4	3.8
Schenk 5-96W	4677	83.5	66.9	108.4	17.5	85.4	3.8
Crib Filler 183W	4547	81.2	67.1	102.3	17.7	87.1	3.6
Pioneer 509W	4007	71.5	57.8	92.1	17.7	79.9	3.7
Ky 5921W	4210	75.1	61.8	95.1	17.8	88.0	3.6
Kamp 910B	3862	68.9	60.5	81.5	18.2	84.5	3.8
Stull 400W	3798	67.8	60.5	78.8	18.2	91.9	3.7
Ken-Bred F-20W	4296	76.7	64.2	95.5	18.6	89.7	3.7
Hagan H-2	4051	72.3	58.9	92.3	19.1	89.2	3.8
Kamp 913 BRK	3722	66.4	58.4	78.4	19.1	87.7	3.8
Pioneer 511	4560	81.4	65.9	104.6	19.2	84.8	3.8
Princeton 990-A	4057	72.4	62.6	87.1	19.2	91.4	3.8
Meacham MX-50W	4538	81.0	74.7	90.4	19.7	81.1	3.8
Dekalb XL-390	4525	80.8	71.8	94.1	19.9	77.1	3.5
Stull 800W	4218	75.3	59.5	99.1	20.0	79.0	3.8
Stull 444W	4092	73.0	59.2	93.7	20.1	78.5	3.4
White Average	4101	73.2	60.9	91.6	18.4	84.1	3.7
GRAND AVERAGE	4179	74.6	57.3	100.6	17.1	84.8	3.6

Table 7. Reaction of Hybrids to Leaf Blight Diseases $\underline{1}/$

	Leaf Blight Re	sistance-1964	Leaf Blight Resistance 1962-		
Hybrids	Southern	Northern	Southern	Northern	
WHITE					
Crib Filler 183W	Good	Very Good	Fair	Very Good	
Dekalb XL-390	${\tt Excellent}$	Very Good			
Hagan H-2	Good	Good	Good	Very Good	
Kamp 910B	Very Good	Excellent			
Kamp 913 BRK	Very Good	Very Good	Good	Excellent	
Ken-Bred F-20W	Very Good	Very Good			
Ky 5901W	Good	Very Good	Good	Good	
Ky 5921W	Very Good	Very Good	Fair	Very Good	
Meacham M-5	Very Good	Very Good	Good	Excellent	
Meacham MX-50W	Excellent	Very Good			
Pioneer 509W	Good	Very Good	Fair	Good	
Pioneer 511	Very Good	Very Good			
Princeton 790-AA	Good	Very Good			
Princeton 990-A	Good	Very Good	Good	Very Good	
Schenk S-96W	Good	Very Good			
Stull 400W	Very Good	Very Good			
Stull 444W	Excellent	Excellent			
Stull 800W	Excellent	Excellent			
US 523W	Good	Fair	Poor	Good	

Northern Good Excellent Good
Excellent
Excellent
Good
Good
Excellent
Excellent
Good
Very Good
•
Fair
Fair
Good

P.A.G. SX63	Excellent	Good		
P.A.G. 437	Very Good	Good		
Pioneer 309A	Very Good	Very Good	Very Good	Good
Pioneer 312A	Very Good	Very Good		
Pioneer 310	Good	Very Good		
Pioneer 321	Fair	Very Good		
Pioneer X2280	Very Good	Very Good		
Pioneer 3304	Fair	Good		
Princeton 8-A	Very Good	Poor	Poor	Good
Princeton 840-A	Good	Good	Poor	Good
Princeton 888-A	Poor	Fair		
Princeton 890-AA	Good	Good		
Princeton 8-X	Good	Good		
Princeton SX-800	Fair	Fair		
Schenk S-73	Good	Good		
Schenk S-73-A	Good	Very Good		
s.s. 755	Good	Fair		•
S.S. 820S	Very Good	Very Good		
B, B. 3-1-	•			
S.S. 860	Very Good	Good		
S.S. 909E	Good	Good	Fair	Poor
S.S. 979	Very Good	Very Good		
S.S. Catawba	Very Good	Poor	Very Good	Poor
S.S. Matoaka	Good	Good	Fair	Fair
S.S. Munsee	Very Good	Very Good	Good	Good
2				
Stull 100YB	Good	Very Good		
Stull 101YB	Very Good	Good		
Stull 807Y	Good	Very Good		
Stull 807YA	Very Good	Very Good		
pedia	-			

 $[\]underline{1}/$ Resistance rating scale, excellent, very good, good, fair and poor.