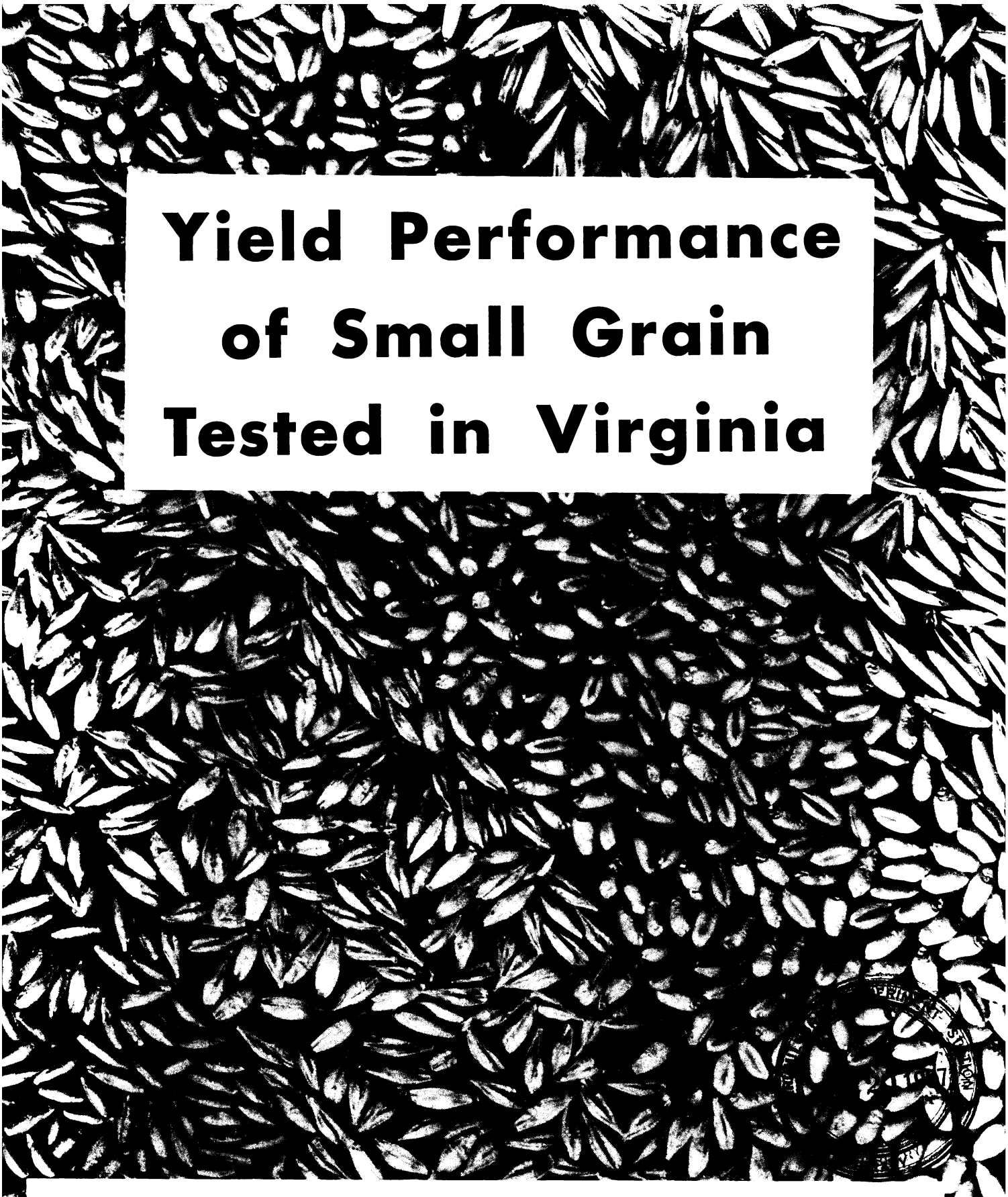

Yield Performance of Small Grain Tested in Virginia

Research Report No. 4

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Agronomy Department, Virginia Agricultural Experiment Station

Virginia Polytechnic Institute • Blacksburg, Virginia

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YIELD PERFORMANCE OF SMALL GRAIN VARIETIES TESTED IN VIRGINIA, 1945 TO 1955

by

T. M. Starling, J. L. Tramel, and Edward Shulkcum[1]

Small grain varietal tests have been conducted at various locations in Virginia for many years to provide information for determining the varieties to be recommended in the various regions of the state. In 1945 these tests were organized on a uniform basis for seed source, the same varieties were included in all tests for a given region of the state, and the tests were designed so that the results could be statistically analyzed. Information has been collected on such characteristics as winter hardiness, relative maturity, plant height, straw stiffness, reaction to diseases, grain yield, and bushel test weight.

Many varieties have been included in these tests since they were first initiated. When a variety gave a poor average performance in comparison with other varieties, it was dropped from the tests after one or more years of testing. Varieties appearing to give satisfactory or good performance were continued in the tests until their performance in comparison with varieties of known performance could be established. Varieties currently being recommended have been included in the tests to give a basis for deciding whether new varieties should be added to the list or old ones dropped from the list.

The tests have been conducted at the locations shown on the map on page 3. The individuals who have cooperated in growing the tests at the various locations are listed on page 4. The cooperation of these individuals is gratefully acknowledged and appreciated.

The varieties have been tested in three-row plots, the rows being twenty feet long and one foot apart, and the plots were replicated six times at most locations. Yield data was based on a rod section taken from the center row of each plot.

The results from these tests have been made available to professional agricultural workers at various intervals. However, no publication to date has presented a complete summary of the performance of the varieties at the various locations. The data

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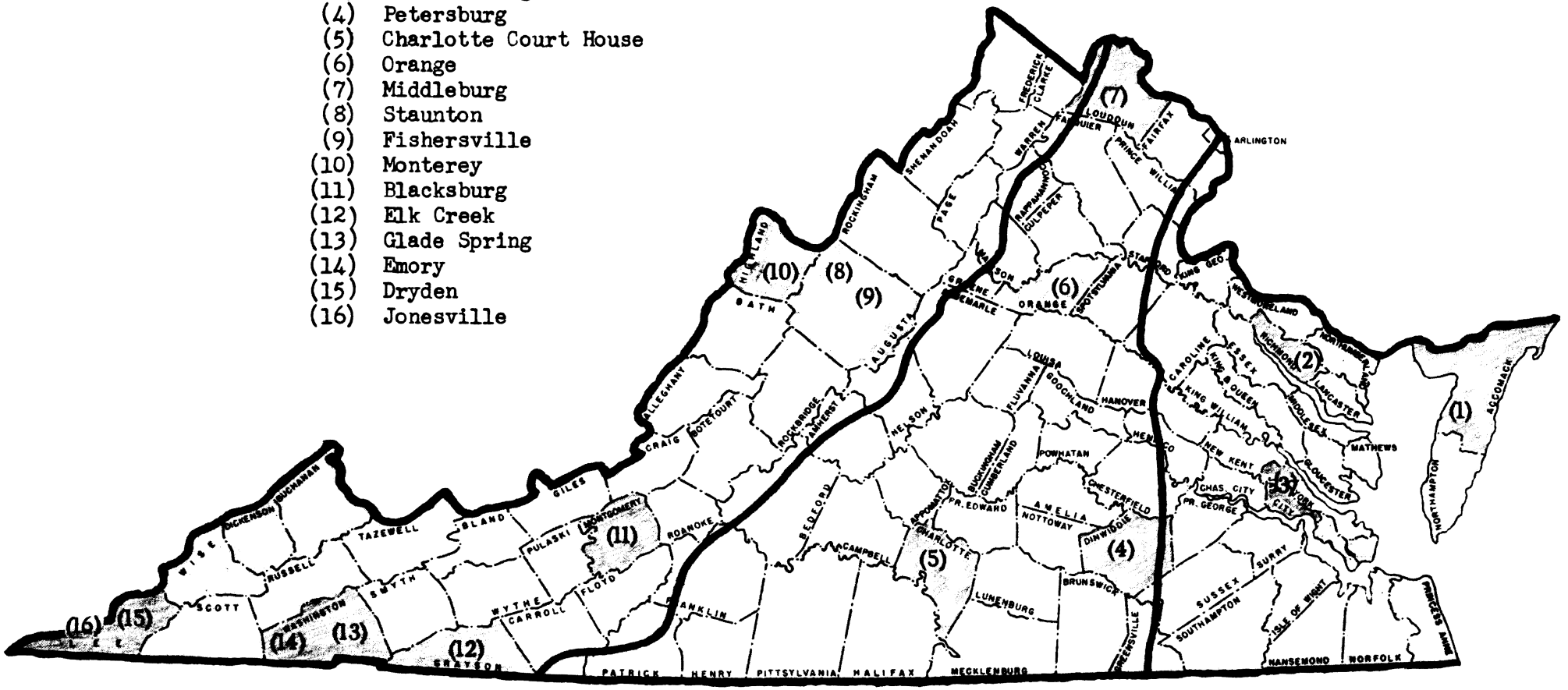
(1) Associate Agronomist, Assistant Agronomist, and Assistant Agronomist, respectively, Virginia Agricultural Experiment Station.

included herein give the yield performance for each year and average yield for various intervals for those varieties which are still of some commercial interest in the state, and of certain varieties or selections which have not been tested sufficiently to determine their performance.

The yields as given should not be considered as absolute, but rather as comparative yield performance of the various varieties. Unless two varieties differed in yield by an amount as great or greater than the least significant difference given at the bottom of the column of data, they should not be considered as having yielded differently from each other. In comparing yield performances, those comparisons made on long time averages are more valid than those made on short time averages.

It did not seem advisable to summarize the data collected on characters other than yield. Instead, the data collected on these characters were used to prepare a brief comparative description of each variety. These descriptions are presented in table form at the end of the yield summary section for each crop.

(1) Accomac
(2) Warsaw
(3) Williamsburg
(4) Petersburg
(5) Charlotte Court House
(6) Orange
(7) Middleburg
(8) Staunton
(9) Fishersville
(10) Monterey
(11) Blacksburg
(12) Elk Creek
(13) Glade Spring
(14) Emory
(15) Dryden
(16) Jonesville



Location of tests and adaptation areas.

Test locations and cooperating individuals

Eastern Virginia

Accomac - J. G. Rogers, L. T. Chandler

Petersburg - M. T. Carter

Warsaw - H. M. Camper

Williamsburg - R. P. Cocke[1], H. M. Camper

Piedmont Virginia

Charlotte Court House - R. D. Sears

Middleburg - W. H. Skrdla, W. L. Griffeth, H. T. Bryant

Orange - G. D. Jones

West of Blue Ridge

Blacksburg - M. H. McVicker, Paul Echols, M. P. Lacy, J. L. Tramel

Dryden - J. P. Lyle

Emory - F. S. McClaugherty

Elk Creek - P. C. Conner

Fishersville - P. T. Gish

Glade Spring - W. R. Perkins, Curtis Buckles

Jonesville - J. P. Lyle

Monterey - E. B. Jones, Jr.

Staunton - P. T. Gish

(1) Deceased

Table 1. Yield performance of fall-sown oat varieties tested at Blacksburg, 1945 to 1955.

Variety	Yield in bushels per acre															
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55	1948	1947	1946	1945	Avg. 1945-48	Avg. 1945-55
Forkedeer	67.0	90.4	94.5	84.0	50.8	47.3	49.5	83.3	57.7	69.0	56.4	70.8	67.5	70.1	66.2	68.0
Lee	64.5	84.3	97.2	82.0	49.7	44.9	49.5	71.0	53.8	65.9	58.4	51.0	58.2	62.9	57.6	62.9
V.P.I.#1			89.8		34.0	70.7	51.1	87.5	60.8		67.7	62.8	68.7	63.9	61.7	
Letoria					41.2		49.5	43.7			62.5	51.3	60.2	67.5	60.4	
Stanton Str.1					42.2		44.5	49.5			52.2	57.4		60.3		
Stanton Str.2													62.0	66.7		
Lelina												35.8	50.9	57.8		
Desoto													62.4	47.2		
Winter Turf													50.7	43.9		
Tennex													64.9	74.8		
Fulwin													55.8	61.8		
Fulgrain													25.3			
Fulghum												0	46.0			
Traveler								47.9			67.5	52.0	40.9			
Fultex													50.2			
Lemont								67.7			48.7	62.6	73.3			
Pioneer											46.2	60.5				
Victorgrain								40.4			36.5	0				
Wintok						45.4	49.5	70.1			63.0	64.1				
Arlington	47.0	100.0	116.3	87.8	31.5	44.9	57.7	84.2	54.6	68.8	54.8					
Atlantic		77.5	112.9		38.1	39.6	50.3	67.7	48.9		66.0					
LeConte						34.0	53.6	71.8								
Bronco (C.I.6571)	65.3	93.2	95.9	84.8												
Lemont Cross	38.4	76.2														
Dubois	53.4	75.5	82.3	70.4												
Cimarron	64.8	83.0														
Fulwood			108.8		22.9											
Least significant difference (.05)	14.1	(a) N.S.D.	16.4	-	2.8	17.7	8.5	11.8	-	-	16.1	11.9	12.7	13.0	-	-

(a) No significant difference

Table 2. Yield performance of fall-sown oat varieties tested at Glade Spring and vicinity, 1945 to 1955 (a)

Variety	Yield in bushels per acre														
	1955	1954	Avg. 1954-55	1952	1950	1949	Three yr.avg.	Five yr.avg.	1948	1947	1946	1945	Avg. 1945-48	Nine yr.avg.
Forkedeer	63.0	93.8	78.4	53.9	56.4	57.8	56.0	65.0	101.3	103.0	100.6	64.5	92.4	77.2
Lee	65.7	121.7	93.7	47.0	53.7	77.6	59.4	73.1	100.5	89.3	91.1	68.5	87.4	79.5
V.P.I.#1				30.3	51.0	63.5	48.3		104.1	88.2	105.5	69.2	91.8	
Letoria				39.9	46.2	73.4	53.2		99.7	84.0	90.6	69.6	86.0	
Stanton Str.1				30.3	55.1	65.2	50.2		101.3	87.7		68.5		
Stanton Str.2											96.2	77.8		
Lelina										0	108.4	70.4		
Desoto											102.0	87.2		
Winter Turf											72.6	65.6		
Tennex											105.5	47.9		
Fulwin											92.6	54.9		
Fulgrain						49.5			101.3	0				
Fulghum										0	70.2			
Traveler						61.1			77.6	84.0	99.8			
Fultex											122.2			
Lemont						75.1			91.3	95.3	85.1			
Pioneer									80.7	102.0				
Victorgrain						50.3			86.5	0				
Wintok					51.7	59.4			91.3	91.2				
Arlington	86.2	106.1	96.2	50.1	50.3	72.6	57.7	73.1						
Atlantic		100.6		48.5	50.3	61.9	53.6							
LeConte					46.9	72.6								
Bronco (C.I.6571)	89.1	104.0	96.6											
Lemont Cross	69.5	79.6	74.6											
Dubois	78.2	85.7	82.0											
Cimarron	61.4	85.0	73.2											
Fulwood				42.9										
Least sign. dif.(.05)	14.1	22.3	-	7.5	9.6	11.7	-	-	20.1	13.9	19.9	22.2	-	-

(a) Tested at Glade Spring, 1945-1948; Jonesville, 1949-50; Dryden, 1952; and Emory 1954-55.

Table 3. Yield performance of fall-sown oat varieties tested at several locations west of Blue Ridge, 1949 to 1952.

	Yield in bushels per acre									
	Monterey				Fishersville			Elk Creek		
Variety	1949	1950	1952	Three yr.avg.	1949	1950	Avg. 1949-50	1949	1950	Avg. 1949-50
Forkedeer	46.5	40.2	37.5	41.4	104.6	54.2	79.4	66.8	74.1	70.5
Lee	50.5	28.9	32.1	37.1	102.4	46.0	74.2	65.2	77.5	71.4
V.P.I.#1	58.1	48.2	31.5	45.9	87.4	49.0	68.2	75.1	83.6	79.4
Letoria	42.0				81.8	43.8	62.8	47.0		
Stanton Str.1	38.9				64.0	37.5	50.8	46.2		
Fulgrain	31.9				81.8					
Traveler	35.8				76.4			55.3		
Lemont	47.4				104.6			56.9		
Victorgrain	45.7				64.6			17.3		
Wintok	51.6	26.2			95.3	47.9	71.6	71.8	61.9	66.8
Arlington	33.8	28.5	29.3	30.5	97.6	57.3	77.5	56.1	72.8	64.5
Atlantic	42.0	44.2	32.1	39.4	99.3	59.9	79.6	44.6	60.5	52.6
LeConte	47.7	27.5			104.3	50.4	77.4	56.9		
Fulwood			37.5 (a)							
L.s.d. (.05)	13.2	5.2	N.S.D.	-	14.5	6.6	-	9.6	11.8	-

(a) No significant difference

Table 4. Yield performance of fall-sown oat varieties tested at Staunton, 1948 to 1955.

Variety	Yield in bushels per acre								
	1955	1953	1952	Three yr.avg.	1950	1949	1948	Avg. 1948-50	Six yr.avg.
Forkedeer	96.7	85.5	73.9	85.4	61.8	73.6	46.0	60.5	72.9
Lee	109.8	80.3	70.6	86.9	46.4	70.5	41.8	52.9	69.9
V.P.I.#1		93.2	53.5		56.1	75.9	40.3	57.4	
Letoria			68.2		34.6	44.3	41.7	40.2	
Stanton Str.1			57.5		36.9	36.9	41.3	38.4	
Fulgrain						39.5	32.7		
Traveler						50.5	37.3		
Lemont						80.9	46.7		
Pioneer							44.0		
Victorgrain						35.5	40.2		
Wintok					43.7	50.8	39.8	44.8	
Arlington	76.2	99.0	75.7	83.6	61.5	79.0			
Atlantic		89.6	72.7		59.9	68.0			
LeConte					43.3	51.9			
Bronco (C.I.6571)	112.7	96.2							
Lemont Cross	50.6								
Dubois	90.6	68.7							
Cimarron	85.8								
Fulwood		81.8	65.5						
L.s.d. (.05)	12.3	11.1	N.S.D. (a)	-	8.5	10.8	7.8	-	-

(a) No significant difference

Table 5. Average yield performance of fall-sown oat varieties tested west of Blue Ridge, 1945 to 1955.

Variety	Yield in bushels per acre based on the indicated number of locations.															
	1955 (3)	1954 (2)	1953 (2)	Avg. 1953-55	1952 (4)	1951 (1)	1950 (6)	1949 (6)	Avg. 1949-52	Avg. 1949-55	1948 (3)	1947 (2)	1946 (2)	1945 (2)	Avg. 1945-48	Avg. 1945-55
Forkedeer	75.6	92.1	90.0	85.9	54.1	47.3	56.0	72.1	57.4	69.6	67.9	86.9	84.0	67.3	76.5	72.1
Lee	80.0	103.0	88.8	90.6	49.9	44.9	50.3	72.9	54.5	70.1	66.9	70.1	74.7	65.7	69.3	69.7
V.P.I.#1			91.5		37.3	70.7	56.5	74.6	59.8		70.7	75.5	87.1	66.5	75.0	
Letoria								55.4			68.0	67.7	75.4	68.5	69.9	
Stanton Str.1								50.1			64.9	72.6	79.1	64.4	70.2	
Stanton Str.2													79.6	72.3		
Lelina												17.9	82.2	64.1		
Desoto													61.7	67.2		
Winter Turf													85.2	54.7		
Tennex													74.2	61.4		
Fulwin														58.4		
Fulgrain													58.1			
Fulghum												0	70.3			
Traveler								54.5			54.5	68.0	86.2			
Fultex													79.2			
Lemont								72.1			72.1	78.9				
Pioneer												81.3				
Victorgrain								42.3			42.3	0				
Wintok							45.4	66.5			66.5	77.6		46.8		
Arlington	69.8	103.1	107.7	93.5	46.7		44.9	70.6			70.6			54.7		
Atlantic		89.1	101.3		47.8		39.6	63.9			63.9			54.1		
LeConte							34.0	67.5			67.5					
Bronco (C.I.6571)	89.0	98.6	96.1	94.6												
Lemont Cross	52.8	77.9														
Dubois	74.1	80.6	75.5	76.7												
Cimarron	70.7	84.0														
Fulwood			95.3		42.2											

Table 6. Yield performance of fall-sown oat varieties tested at Charlotte Court House, 1945 to 1955.

Variety	Yield in bushels per acre															
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55	1948	1947	1946	1945	Avg. 1945-48	Avg. 1945-52
Forkedeer			71.0		44.9	49.5	14.0	29.3	34.4		96.5	41.6	16.6	42.0	49.2	41.8
Lee	77.1	95.7	75.9	82.9	53.1	53.9	21.4	44.0	43.1	60.2	98.2	39.3	14.2	43.3	48.8	46.0
V.P.I.#1			55.3		24.8	47.6	17.3	41.9	32.9		84.3	34.3	15.5	41.8	44.0	38.5
Letoria					49.0	49.3	16.5	23.9	34.7		89.1	31.4	15.3	44.3	45.0	39.9
Stanton Str.1					47.6	55.0	10.7	21.2	33.6		91.6	35.6		47.3		
Stanton Str.2													15.1			
Lelina												27.7	16.0	38.2		
Desoto													14.0	37.5		
Winter Turf													10.0			
Tennex													11.5	43.7		
Fulwin													11.6	46.0		
Fulgrain	67.2	104.8	67.7	79.9			18.1	22.2			71.0	30.4				
Fulghum												20.8	8.2			
Traveler								24.9			85.0	32.3	12.4	51.4	45.3	
Fultex													15.1			
Lemont								32.9			82.5	37.0	16.4			
Pioneer											114.1	40.9		45.9		
Victorgrain	70.5	111.4	74.3	85.4			14.0	17.7								
Wintok						31.9	11.5	26.0			82.5	34.7		42.1		
Arlington	79.5	89.9	78.4	82.6	55.8	67.7	21.4	40.2	46.3	61.9						
Atlantic		90.8	74.3		50.4	59.4	17.3	35.3	40.6							
Coy								26.0								
LeConte					48.2	47.0	20.6	34.1	37.5							
Bronco (C.I.6571)	80.1	88.3	60.2	76.2												
Lemont Cross	65.9	103.1														
Dubois	57.9	98.2	52.0	69.4												
Cimarron	37.5															
Fulwood	53.6	103.1	72.6	76.4												
C.I.6719 (a)	79.0															
54-31-10 (b)	68.1															
54-31-12 (b)	64.1															
L.s.d. (.05)	15.1	26.0	12.7	-	11.7	11.6	4.4	5.8	-	-	28.1	12.6	4.5	11.0	-	-

(a) (Victoria x Hajira-Banner) (Fulghum - Victoria)
(b) C.I.4658 x (Clinton^2 - Santa Fe)

Table 7. Yield performance of fall-sown oat varieties tested at Middleburg, 1950 to 1955.

Variety	Yield in bushels per acre							
	1955	1954	Avg. 1954-55	1952	1951	1950	Three yr.avg.	Five yr.avg.
Forkedeer	90.5	66.0	78.3	25.3	72.3	49.8	49.1	60.8
Lee	101.2	88.3	94.8	28.3	52.5	39.3	40.2	62.0
V.P.I. #1				44.7	45.9	43.2	44.6	
Letoria				28.3	34.7	41.9	35.0	
Stanton Str. 1				15.4	46.7	38.3	33.5	
Fulgrain						42.7		
Victorgrain						41.1		
Wintok					55.6	34.1		
Arlington	100.7	76.7	88.7	21.1	63.6	58.9	47.9	64.2
Atlantic		56.9		19.3	87.2	58.6	55.0	
LeConte				20.8	55.7	41.0	39.2	
Bronco (C.I.6571)	85.0	74.3	79.7					
Lemont Cross	90.8	39.6	65.2					
Dubois	85.5	60.2	72.9					
Cimarron	99.0	94.1	96.6					
L.s.d. (.05)	(a) N.S.D.	17.5	-	9.6	21.0	5.3	-	-

(a) No significant difference

Table 8. Yield performance of fall-sown oat varieties tested at Orange, 1945 to 1955.

Variety	Yield in bushels per acre															
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55	1948	1947	1946	1945	Avg. 1945-48	Avg. 1945-55
Forkedeer	73.7	92.7	106.4	90.7	106.4	65.5	57.5	75.1	76.1	82.4	95.7	59.9	71.3	83.1	77.5	80.6
Lee	67.4	110.0	88.3	88.6	86.4	66.6	63.0	86.6	75.7	81.2	96.4	68.6	73.8	79.8	79.7	80.7
V.P.I.#1			85.0		70.2	54.5	72.9	76.7	68.6		104.3	50.7	73.1	83.2	77.8	
Letoria					71.5	54.2	59.4	58.6	60.9		89.5	64.4	80.6	83.1	79.4	
Stanton Str.1					57.3	58.1	60.2	57.8	58.4		97.4	57.3		76.9		
Stanton Str.2													63.8			
Lelina												50.2	68.6	82.0		
Desoto													67.3	75.7		
Winter Turf													63.8			
Tennex													71.1	86.8		
Fulwin													65.8	82.4		
Fulgrain							46.2	66.0			71.0	41.9				
Fulghum												35.5	44.0			
Traveler								63.5			101.0	65.5	77.8	78.7	80.8	
Fultex													50.4			
Lemont								92.4			99.7	68.6	78.9			
Pioneer											71.0	63.4		97.3		
Victorgrain							48.7	52.0			90.8	44.4				
Wintok						57.2	59.7	62.7			102.3	66.5		76.9		
Arlington	50.9	95.7	110.6	85.7	70.1	64.9	86.9	94.1	79.0	81.8						
Atlantic		83.4	95.7		80.6	64.9	76.7	84.2	76.6							
Coy								71.0								
LeConte					77.6	44.9	72.9	77.6	68.3							
Bronco (C.I.6571)	67.0	94.3	83.3	81.5												
Lemont Cross	32.8	70.7														
Dubois	60.2	114.2	80.9	85.1												
Cimarron	51.8	103.4														
Fulwood			87.5		74.6											
L.s.d. (.05)	14.6	17.9	17.0	-	22.9	6.9	8.7	7.3	-	-	18.6	18.7	15.4	14.0	-	-

Table 9. Average yield performance of fall-sown oat varieties tested in Piedmont section of Virginia, 1945 to 1955.

Variety	Yield in bushels per acre based on the indicated number of locations.															
	1955 (3)	1954 (3)	1953 (2)	Avg. 1953-55	1952 (3)	1951 (3)	1950 (3)	1949 (2)	Avg. 1949-52	Avg. 1949-55	1948 (2)	1947 (2)	1946 (2)	1945 (2)	Avg. 1945-48	Avg. 1945-55
Forkedeer			88.7		58.9	62.4	40.4	52.2	53.5		96.1	50.8	44.0	62.6	63.4	
Lee	81.9	98.6	54.7	78.4	56.1	57.7	41.2	65.3	55.1	65.1	97.3	54.0	44.0	61.6	64.2	64.7
V.P.I.#1			70.2		46.6	49.3	44.4	59.3	50.0		94.3	42.5	44.3	62.5	60.9	
Letoria					49.6	46.1	39.3	41.3	44.1		89.3	47.9	47.9	63.7	62.2	
Stanton Str.1					40.1	53.3	36.4	39.5	42.3		94.5	46.5		62.1		
Stanton Str.2													39.5			
Lelina												39.0	42.3	60.1		
Desoto													40.7	56.6		
Winter Turf													36.9			
Tennex													41.3	65.3		
Fulwin													38.7	64.2		
Fulgrain							35.7	44.1			71.0	36.2				
Fulghum												28.2				
Traveler								44.2			93.0	48.9	45.1	65.1		
Fultex													32.8			
Lemont								62.7			91.1	52.8	47.7			
Pioneer											92.6	52.2		47.3		
Victorgrain							34.6	34.9								
Wintok						48.3	35.1	44.4			92.4	50.6		59.5		
Arlington	77.0	87.4	94.5	86.3	49.0	65.4	55.7	67.2	59.3							
Atlantic		77.0	85.0			70.5	50.9	59.8								
Coy								48.5								
LeConte					49.2	49.2	44.8	55.9	49.8							
Bronco (C.I.6571)	77.4	85.6	71.8	78.3												
Lemont Cross	63.2	71.1														
Dubois	67.9	90.9	66.5	75.1												
Cimarron	67.8															
Fulwood			80.1													

Table 10. Yield performance of fall-sown oat varieties tested at Accomac, 1949 to 1955

Variety	Yield in bushels per acre									
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55
Forkedeer			49.6		61.1	50.1	34.0	50.8	49.0	
Lee	60.4	67.3	30.6	52.8	68.4	76.2	23.9	48.5	54.3	53.7
V.P.I.#1			37.4		31.7	75.0		36.9		
Letoria					54.3	57.8	19.3	56.2	46.9	
Stanton Str.1					50.3	56.9	15.9	58.1	45.2	
Traveler								25.8		
Lemont								56.2		
Victorgrain	103.7	76.8	68.7	83.1			36.3	60.7		
Wintok						59.8	14.8	37.2		
Arlington	94.4	79.6	93.2	89.1	50.2	79.4	42.0	72.6	61.1	73.1
Atlantic		68.0	63.2		54.3	62.7	34.0	57.9	52.2	
LeConte					51.0	49.1	38.6	52.2	47.7	
Bronco (C.I.6571)	72.0	68.7	59.2	66.6						
Lemont Cross	89.0	69.4								
Dubois	75.9	50.3	24.5	50.2						
Cimarron	87.1									
Fulwood	111.8	64.6	63.2	79.9	61.5					
54-31-10 (a)	87.5									
54-31-12 (a)	95.8									
L.s.d. (.05)	16.2	18.9	6.6	-	11.6	12.2	11.0	10.7	-	-

(a) C.I.4658 x (Clinton^2 - Santa Fe)

Table 11. Yield performance of fall-sown oat varieties tested at Petersburg, 1949 to 1955

Variety	Yield in bushels per acre									
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55
Forkedeer			65.2		35.5	54.9	64.4	52.0	56.2	
Lee	90.5	71.6	71.0	77.7	59.3	57.4	65.3	47.0	57.3	66.0
V.P.I.#1			59.4		31.1	60.0	58.9	42.1	48.0	
Letoria					35.5	35.2	55.3	31.4	39.4	
Stanton Str.1					32.6	43.3	45.6	27.2	37.2	
Fulgrain	96.3	101.9	103.0	100.4			53.6	45.4		
Traveler								35.5		
Lemont								56.9		
Victorgrain	98.4	102.4	89.9	96.9			54.6	42.1		
Wintok						53.4	57.5	37.1		
Arlington	99.8	99.4	85.0	94.7	67.9	77.7	80.6	58.6	71.2	81.3
Atlantic		84.2	80.0		66.6	79.5	76.7	47.0	67.5	
LeConte					49.8	52.8	63.7	48.7	53.8	
Bronco (C.I.6571)	87.3	97.7	68.5	84.5						
Lemont Cross	96.2	85.5								
Dubois	89.5	72.8	47.0	69.8						
Cimarron	91.3									
Fulwood	89.8	114.2	90.8	98.3	61.5					
C.I.6719 (a)	95.2									
54-31-10 (b)	103.5									
54-31-12 (b)	101.7									
L.s.d. (.05)	10.5	17.5	12.7	-	8.8	10.2	9.4	7.9	-	-

(a) (Victoria x Hajira-Banner) x (Fulghum-Victoria)
(b) C.I.4658 x (Clinton^2 - Santa Fe)

Table 12. Yield performance of fall-sown oat varieties tested at Williamsburg and Warsaw, 1945 to 1955.

Variety	Yield in bushels per acre															
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55	1948	1947	1946	1945	Avg. 1945-48	Avg. 1945-52
Forkedeer			83.3		67.2	90.0	61.9	54.5	68.4		80.0	36.2	45.8	43.7	51.4	59.9
Lee	97.6	124.6	70.1	97.4	69.4	85.9	67.7	47.9	67.7	80.4	74.8	51.4	53.7	45.5	56.4	71.7
V.P.I.#1			68.5		44.3	84.8	63.5	47.8	60.1		73.1	30.6	50.2	36.9	47.7	53.9
Letoria					74.0	67.0	61.9	42.1	61.3		73.3	43.8	61.7	52.9	57.9	59.6
Stanton Str.1					54.3	68.7	55.3	38.0	54.1		75.6	41.8		46.3		
Stanton Str.2													60.8			
Lelina												26.5	51.5	35.4		
Desoto													43.8	32.3		
Winter Turf													38.7			
Tennex													40.7	27.4		
Fulwin													40.6	30.5		
Fulgrain	71.8	113.9	121.3	102.3			56.9	42.9			65.7	15.7				
Fulghum												12.3	41.3			
Traveler								45.4			76.2	33.8	57.1	33.9	50.3	
Fultex													56.6			
Lemont								55.3			76.6	45.9	63.8			
Pioneer											74.1	34.4		47.4		
Victorgrain	96.5	108.9	134.5	113.3			57.8	42.9			80.4	18.8				
Wintok						73.1	51.2	45.4			71.0	28.0		36.4		
Arlington	112.6	115.5	121.3	116.5	70.8	105.9	65.2	69.3	77.8	94.4						
Atlantic		102.3	101.5		65.0	90.0	61.1	61.9	69.5							
LeConte					56.4	64.9	63.5	48.7	58.4							
Broncc (C.I.6571)	111.1	108.1	101.5	106.9												
Lemont Cross	104.3	80.9														
Dubois	96.6		96.5													
Cimarron	97.6															
Fulwood	90.4	118.0	99.8	102.7	60.7											
C.I.6719 (a)	104.9															
54-31-10 (b)	95.8															
54-31-12 (b)	95.2															
L.s.d. (.05)	17.1	11.4	14.0	-	6.9	9.1	7.3	7.9	-	-	12.1	9.4	11.1	12.6	-	-

(a) (Victoria x Hajira-Banner) x (Fulghum-Victoria)
(b) C.I. 4658 x (Clinton^2- Santa Fe)

Table 13. Average yield performance of fall-sown oat varieties tested in Coastal Plains section of Virginia, 1945 to 1955.

Variety	Yield in bushels per acre based on indicated number of locations															
	1955 (3)	1954 (3)	1953 (3)	Avg. 1953-55	1952 (3)	1951 (3)	1950 (3)	1949 (3)	Avg. 1949-52	Avg. 1949-55	1948 (1)	1947 (1)	1946 (1)	1945 (1)	Avg. 1945-48	Avg. 1945-55
Forkedeer			66.0		60.6	65.0	53.4	52.4	57.9		80.0	36.2	45.8	43.7	51.4	
Lee	82.8	87.8	57.2	75.9	65.7	73.2	52.3	47.8	59.8	66.7	74.8	51.4	53.7	45.5	56.4	63.0
V.P.I.#1			55.1		35.7	73.3		43.3			73.1	30.6	50.2	36.9	47.7	
Letoria					54.6	53.3	45.5	43.2	49.6		73.3	43.8	61.7	52.9	57.9	
Stanton Str.1					45.7	56.3	38.9	41.1	45.5		75.6	41.8		46.3		
Stanton Str.2													60.8			
Lelina												26.5	51.5	35.4		
Desoto													43.8	32.3		
Winter Turf													38.7			
Tennex													40.7	27.4		
Fulwin													40.6	30.5		
Fulgrain											65.7	15.7				
Fulghum												12.3	41.3			
Traveler								35.6			76.2	33.8	57.1	33.9	50.3	
Fultex													56.6			
Lemont								56.1			76.6	45.9	63.8			
Pioneer											74.1	34.4		47.4		
Victorgrain	99.5	96.0	97.7	97.7			49.6	48.6			80.4	18.8				
Wintok						62.1	41.2	39.9			71.0	28.0		36.4		
Arlington	102.2	98.2	99.8	100.0	63.6	87.7	62.6	66.8	70.2	83.0						
Atlantic			81.6		62.0	77.4	57.3	55.6	63.1							
LeConte					52.4	55.6	55.3	49.9	53.3							
Bronco (C.I.6571)	90.1	84.8	76.4	71.6												
Lemont Cross	96.5	78.6														
Dubois	87.3		56.0													
Cimarron	92.0															
Fulwood	97.3	98.9	84.6	93.6	61.2											
54-31-10 (a)	95.6															
54-31-12 (a)	97.6															

(a) C.I. 4658 x (Clinton^2- Santa Fe)

Table 14. Characteristics of fall-sown oat varieties tested in Virginia, 1945 to 1955

Variety or selection	Height	Maturity	Winter-hardiness	Lodging resistance	Bushel test weight	Disease reactions[c] Victoria blight	Crown rust
Forkedeer	Tall	Medium	Good	Med.-poor	Good	R	S
Lee	Mid-tall	Medium	Medium	Good	Good	R	S
V.P.I. #1	Tall	Medium	Good	Medium	-	R	S
Letoria	Medium	Medium	Medium	Medium	-	S	R
Stanton Str. 1	Medium	Medium	Medium	Medium	-	S	R
Stanton Str. 2	Medium	Medium	Medium	Medium	-	S	R
Lelina	Medium	Medium	Med.-poor	Medium	-	S	R
Desoto	Short	Medium	Med.-poor	Good	-	S	R
Winter Turf	Tall	Late	Good	Poor	-	R	S
Tennex	Tall	Medium	Good	Poor	-	R	S
Fulwin	Tall	Medium	Good	Poor	-	R	S
Fulgrain	Short	Early	Poor	Good	Good	S	R
Fulghum	Medium	Mid-early	Poor	Medium	-	R	S
Traveler	Medium	Medium	Medium	Med.-poor	-	-	-
Fultex	Mid-short	Early	Medium	Good	-	S	R
Lemont	Tall	Medium	Good	Poor	-	R	S
Pioneer	Tall	Late	Good	Poor	-	R	S
Victorgrain	Mid-short	Mid-early	Poor	Good	Good	S	R
Wintok	Medium	Medium	Good	Poor	-	R	S
Arlington	Tall	Medium	Medium	Good	Good	S	R
Atlantic	Tall	Medium	Medium	Good	Good	S	R
LeConte	Mid-tall	Medium	Medium	Good	-	R	S
Bronco	Mid-tall	Medium	Good	Medium	Good	S	R
Lemont Cross	Tall	Medium	Med.-poor	Good	Good	-	-
Dubois	Mid-short	Medium	Good	Good	Good	R	S
Cimarron	Short	Early	Good	Good	Fair	R	S
Fulwood	Short	Early	Poor	Good	Good	S	R
C.I.6719 (a)	Short	Medium	Poor	Good	Good	-	-
54-31-10 (b)	Tall	Medium	Med.-poor	Poor	Good	-	-
54-31-12 (b)	Tall	Medium	Med.-poor	Poor	Good	-	-

(a) Victoria x Hajira-Banner)x(Fulghum-Victoria) $_2$
(b) Selections from the cross C.I.4658 x (Clinton - Santa Fe)
(c) R = Resistant; S = Susceptible

Table 15. Average performance of oat varieties planted in mid-winter in Eastern Virginia

	Yield in bushels per acre										
	Warsaw			Petersburg			Charlotte C.H.	Accomac	Regional Average		
Variety	1955	1954	Avg.	1955	1954	Avg.	1955	1954	Avg. 1955	Avg. 1954	Avg. 1954-55
Arlington	68.1	66.8	67.5	51.9	61.5	56.7	40.5	22.8	53.5	50.4	51.9
Victorgrain	76.8	74.2	75.5	58.5	60.5	59.5	43.5	25.3	59.6	53.3	56.5
Fulwood	62.0	66.0	64.0	53.4	59.4	56.4	28.4	17.5	48.0	57.6	52.8
Andrew	71.3	66.0	68.7	55.0	57.1	56.1	39.9	23.3	55.4	48.8	52.1
Lee	79.9	59.4	69.6	54.8	56.5	55.7	48.1	20.3	61.0	45.4	53.2
Fulgrain	66.4	64.4	65.4	49.2	54.6	51.9	37.7	20.6	51.1	46.5	48.8
Mo.0-205	77.6	66.0	71.8	58.6	52.7	55.7	45.1	22.1	60.4	46.9	53.7
Coker's 54-29	82.8			53.4			47.3		61.2		
Coker's 53-29	79.9			55.3			45.4		60.2		
Woodgrain	69.4			56.8			34.4		53.5		
Atlantic		59.4			50.6			20.1		43.4	
L.s.d. (.05)	9.8	6.6	-	(a) N.S.D.	(a) N.S.D.	-	8.1	4.5	-	-	-

Average height, lodging, date 1/3 headed, and bushel test weight for varieties planted in mid-winter

	Height in inches			Percent lodging			Date 1/3 headed			Pounds per bushel		
Variety	1955	1954	Avg.	1955	1954	Avg.	1955	1954	Avg.	1955	1954	Avg.
Arlington	38	37	37	24	32	28	5/12	5/8	5/10	33.5	34.9	34.2
Victorgrain	33	33	33	19	21	20	5/11	5/7	5/9	32.3	34.1	33.2
Fulwood	28	28	28	19	7	13	5/11	5/7	5/9	32.5	35.9	34.2
Andrew	37	38	38	20	15	18	5/11	5/6	5/8	32.5	33.2	32.8
Lee	35	37	36	7	17	12	5/20	5/16	5/18	31.9	33.5	32.7
Fulgrain	31	31	31	10	15	12	5/12	5/8	5/10	31.7	33.6	32.6
Mo.0-205	37	33	35	19	10	14	5/11	5/8	5/10	33.7	33.6	33.6
Coker's 54-29	29			8			5/10			32.5		
Coker's 53-29	29			4			5/11			32.1		
Woodgrain	28			18			5/12			30.9		
Atlantic		37			26			5/10			33.2	

(a) No significant difference

Table 16. Yield performance of spring oat varieties tested at Blacksburg, 1945 to 1955

Variety	Yield in bushels per acre															
	1955	1954	1953	Avg 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55	1948	1947	1946	1945	Avg. 1945-48	Avg. 1945-55
Clinton	40.4	50.3	34.0	41.6	59.9	50.9	39.5	28.9	44.8	43.4	29.0	29.3	34.0	67.2	39.9	42.1
Columbia	46.3	51.0	43.5	46.9	47.7	43.8	36.8	29.7	39.5	42.7	29.0	26.9	36.4	54.7	36.8	40.6
Benton						43.5	42.0	31.4			27.7	28.7	31.8	61.5	37.4	
Marion							38.8	36.3			26.8	31.5	25.3	65.9	37.4	
Fulghum								23.9			25.0	26.2	46.9	73.2	42.8	
Ventura											15.8	17.1	30.4	69.0	33.1	
Neosho											11.8	17.6	24.2	73.6	31.8	
Osage												9.3	26.4	71.7		
Vicland												10.0	27.8	58.8		
Kanota												25.5	43.8	81.9		
Zephyr						53.4	44.3	29.7			42.6					
Johnson							33.4	35.5			48.6					
Cherokee								28.1			20.7					
Mohawk											27.8	27.5				
Goldwin												30.2	35.6			
Andrew	50.9	65.3	40.1	52.1	61.9	47.3	41.5	38.8	47.4	49.4						
Shelby			41.5		48.4	54.6	42.9	29.7	43.9							
Mo.0-200			46.2		51.9	44.9	38.8									
Colo					51.2	46.8	40.2	33.0	42.8							
Nemaha							34.7	28.9								
Mo.0-205	47.8	63.9	51.0	54.2	51.7	48.4	32.0									
Craig		56.0														
Beaver		61.9														
Mo.0-4275		54.4														
Southland	48.6	53.0	44.5	48.7												
Clintland	36.6	51.0	36.7	41.4												
Clintafe	31.5	40.8	36.7	36.3												
C.I.6639 (a)	48.8	56.4	50.3	51.8												
C.I.6620 (a)	50.0	61.2														
C.I.6621 (a)	52.1															
C.I.6623 (a)	56.3	68.7														
C.I.6632 (a)	49.8	60.5														
C.I.6638 (a)	47.6	53.7														
L.s.d. (.05)	7.4	8.3	7.7	-	7.1	6.8	(a) N.S.D.	3.2	-	-	5.2	10.1	7.1	10.9	-	-

(a) Andrew x Landhafer selections.

Table 17. Yield performance of spring oat varieties tested at Glade Spring and vicinity, 1945 to 1955 (a)

Variety	Yield in bushels per acre													
	1955	1954	1953	Avg. 1953-55	1951	1949	Two yr.avg.	Five yr.avg.	1948	1947	1946	1945	Avg. 1945-48	Nine yr.avg.
Clinton	18.3	49.0	15.0	27.4	60.3	41.3	50.8	36.7	34.2	61.9	72.0	51.9	55.0	44.9
Columbia	39.1	58.5	20.4	39.3	60.3	46.2	53.3	44.9	41.5	55.3	64.2	51.1	53.0	48.5
Benton					59.2	37.1	48.2		35.7	60.2	65.8	53.9	54.4	
Marion						53.6			38.3	58.6	69.1	47.8	53.5	
Fulghum						52.9			49.5	66.8	67.3	58.1	60.4	
Ventura									49.3	63.5	65.8	46.3	56.2	
Neosho									32.1	50.3	59.3	49.9	47.9	
Osage										52.0	56.4	51.4		
Vicland										52.8	68.9	52.9		
Kanota										61.9	70.4	60.4		
Zephyr					68.5	51.2	59.8		40.0					
Johnson						47.0			47.5					
Cherokee						45.4			33.1					
Mohawk									31.8	64.4				
Goldwin										56.1	64.0			
Andrew	43.9	70.0	23.8	45.9	67.4	58.6	63.0		44.2					
Shelby			24.5		61.3	44.6	52.9							
Mo.0-200			24.5		64.4									
Colo					69.6	48.7	59.2							
Nemaha						45.4								
Mo.0-205	37.4	63.9	29.9	43.7	65.5									
Craig		67.3												
Mo.0-4275		58.5												
Southland	55.1	55.8	26.5	45.8										
Clintland	9.6	54.4	29.9	31.3										
Clintafe		45.6	22.4											
C.I.6639 (b)	31.2													
C.I.6620 (b)	18.6													
C.I.6621 (b)	36.2													
C.I.6632 (b)	13.7													
L.s.d. (.05)	-	8.5	8.2	-	(c) N.S.D.	5.9	-	-	7.6	(c) N.S.D.	(c) N.S.D.	10.5	-	-

(a) Tested at Glade Spring 1945 to 1948; Jonesville 1949 and 1951; Dryden 1953; and Emory 1954 and 1955.
(b) Andrew x Landhafer selections.
(c) No significant difference.

Table 18. Yield performance of spring oat varieties tested at several locations west of Blue Ridge, 1949-52.

Variety	Elk Creek	Monterey					Fishersville			
	1949	1949	1950	1952	1953	Avg. 1949-53	1949	1950	1951	Avg. 1949-51
Clinton	43.7	39.2	48.2	24.8	26.0	34.6	40.9	38.8	60.8	46.8
Columbia	46.2	40.9	51.7	29.0	27.0	37.2	41.7	43.1	63.5	49.4
Benton	37.1	41.5	49.9				32.7	34.2	62.0	43.0
Marion	53.6						46.0	41.3		
Fulghum	38.0						48.2			
Zephyr	44.6	42.6	49.0				46.0	34.9	58.4	46.4
Johnson	52.8						47.1	37.5		
Cherokee	42.9						45.4			
Andrew	56.9	42.6	53.1	23.1	27.6	36.6	53.9	51.1	65.9	57.0
Shelby	47.9	35.5	47.9	29.2	24.2	34.2	42.6	43.1	58.7	48.1
Mo.0-200			51.9	27.9	29.6			53.1	62.6	
Colo	52.8	41.2	51.9	22.6			41.7	41.5	65.8	49.7
Nemaha	45.4						39.2	32.9		
Mo.0-205			48.2	29.5	28.7			40.4	57.9	
Southland					29.4					
Clintland					29.3					
Clintafe					29.0					
C.I.6638 (a)					27.5					
L.s.d. (.05)	5.0	(b) N.S.D.	(b) N.S.D.	6.5	(b) N.S.D.	-	7.3	5.9	(b) N.S.D.	-

(a) Andrew x Landhafer selections
(b) No significant difference

Table 19. Yield performance of spring oat varieties tested at Staunton, 1945 to 1955

Variety	Yield in bushels per acre															
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55	1948	1947	1946	1945	Avg. 1945-48	Avg. 1945-55
Clinton	64.1	48.9	51.6	54.9	40.6	52.7	40.4	70.5	51.1	52.7	23.3	42.9	84.4	59.5	52.5	52.6
Columbia	70.7	47.6	60.0	59.4	38.9	64.0	43.1	77.0	55.8	57.3	30.0	42.6	82.4	59.2	53.6	56.0
Benton						59.6	41.9	64.6			26.0	44.0	77.8	55.4	50.8	
Marion							35.5	71.9			28.2	38.2	80.4	57.5	51.1	
Fulghum								64.3			38.0	43.3	74.7	55.1	52.8	
Ventura											38.2	40.6	86.4	65.1	57.6	
Neosho											26.9	34.0	84.4	60.2	51.4	
Osage												39.8	86.0	61.4		
Vicland												41.5	82.4	55.8		
Kanota												41.8	84.8	47.0		
Zephyr						55.1	35.7	71.3			27.8					
Johnson							38.0	67.4			22.6					
Cherokee								68.0			28.9					
Mohawk											17.6	39.7				
Goldwin												42.9	87.1			
Andrew	76.4	52.2	69.9	66.2	42.5	60.4	47.9	84.6	58.9	62.0	43.8					
Shelby			53.7		34.8	65.4	41.5	70.8	53.1							
Mo.0-200			61.5		42.0	56.1	47.3									
Colo					37.4	57.9	42.6	80.7	54.7							
Nemaha							33.5	67.7								
Mo.0-205	70.6	51.5	68.6	63.6	42.5	64.7	42.8									
Craig		56.7														
Beaver		46.1														
Mo.0-4275		49.7														
Southland	66.3	39.2	60.2	55.2												
Clintland	47.9	50.5	54.0	50.8												
Clintafe	55.2	48.3	52.5	52.0												
C.I.6639 (a)	61.0															
C.I.6620 (a)	71.2															
C.I.6621 (a)	76.8															
C.I.6632 (a)	67.6															
C.I.6638 (a)		54.6														
L.s.d. (.05)	8.7	4.3	9.9	-	4.5	8.8	6.2	7.3	-	-	3.2	2.8	8.9	8.5	-	-

(a) Andrew x Landhafer selections.

Table 20. Average yield performance of spring oat varieties tested west of Blue Ridge, 1945 to 1955.

Variety	Yield in bushels per acre based on indicated number of locations															
	1955 (3)	1954 (3)	1953 (4)	Avg. 1953-55	1952 (3)	1951 (4)	1950 (4)	1949 (6)	Avg. 1949-52	Avg. 1949-55	1948 (3)	1947 (3)	1946 (3)	1945 (3)	Avg. 1945-48	Avg. 1945-55
Clinton	40.9	49.4	31.7	40.7	41.8	56.2	41.7	44.0	45.9	43.7	28.8	44.7	63.5	59.5	49.1	45.6
Columbia	52.0	52.4	37.7	47.4	38.5	57.9	43.6	46.9	46.7	47.0	33.5	44.6	61.0	55.0	48.5	47.5
Benton						56.1	42.0	40.7			29.8	44.3	58.5	56.8	47.4	
Marion											31.1	42.7	58.3	57.1	47.3	
Fulghum											37.5	45.4	63.0	62.1	52.0	
Ventura											34.4	40.4	60.9	60.1	48.9	
Neosho											23.6	33.9	56.0	61.2	43.7	
Osage												33.7	56.3	61.5		
Vicland												34.7	59.7	55.8		
Kanota												43.0	66.3	63.1		
Zephyr						58.9	49.0	47.5			36.8					
Johnson											39.5					
Cherokee											27.5					
Goldwin													62.2			
Andrew	57.1	62.5	40.4	53.3	42.5	60.3	48.4	55.9	51.8	52.4						
Shelby			36.0		37.5	60.0	43.8	45.1	46.6							
Mo.0-200			40.5		40.6	57.0	47.7									
Colo					37.1	60.0	44.0	49.6	47.7							
Mo.0-205	51.1	59.8	44.5	51.8	41.2	59.1	40.8									
Craig		60.0														
Mo.0-4275		54.2														
Southland	56.7	49.3	40.2	48.7												
Clintland	31.4	60.0	37.5	43.0												
Clintafe		44.9	35.2													
C.I.6639 (a)	47.0															
C.I.6620 (a)	46.6															
C.I.6621 (a)	55.0															
C.I.6632 (a)	43.7															

(a) Andrew x Landhafer selections.

Table 21. Yield performance of spring oat varieties tested at Charlotte Court House, 1945 to 1955

Variety	Yield in bushels per acre													
	1955	1954	Avg. 1954-55	1951	1950	1949	Avg. 1949-51	Five yr.avg.	1948	1947	1946	1945	Avg. 1945-48	Nine yr.avg.
Clinton	67.0	50.4	58.7	34.1	50.3	32.5	39.0	46.9	50.6	25.6	29.1	38.3	35.9	42.0
Columbia	78.2	60.8	69.5	37.2	54.4	36.0	42.5	53.3	49.0	27.2	29.6	37.5	35.8	45.5
Benton				38.5	53.6	29.5	40.5		56.1	24.8	32.4	36.5	37.5	
Marion					52.8	36.8			55.9	24.8	37.1	36.7	38.6	
Fulghum						23.8			35.1	27.2	28.7	40.8	33.0	
Ventura									32.0	12.4	18.5	43.7	26.7	
Neosho									33.3	15.7	25.3	42.7	29.3	
Osage										9.1	30.2	49.3		
Vicland										7.4	28.7	38.3		
Kanota										26.4	32.6	44.1		
Zephyr				37.4	45.4	32.9	38.6		59.4					
Johnson					49.5	24.0			62.6					
Cherokee						30.0			54.4					
Mohawk									46.3	23.9				
Goldwin										23.1	33.1			
Andrew	70.0	62.2	66.1	57.0	58.6	50.9	55.5	59.7	55.7					
Shelby				43.2	43.7	40.6	42.5							
Mo.0-200				47.3	42.1									
Colo				38.3	47.0	39.4	41.6							
Nemaha					36.3	25.4								
Mo.0-205	68.9	56.4	62.5	46.8	71.0									
Craig		56.4												
Beaver		53.9												
Mo.0-4275		55.3												
Southland	65.9	55.3	60.6											
Clintland	58.2	52.0	55.1											
Clintafe		44.0												
C.I.6639 (a)		63.0												
C.I.6620 (a)		61.9												
C.I.6632 (a)		57.8												
C.I.6638 (a)		59.4												
L.s.d. (.05)	6.7	6.1	-	6.8	11.7	7.6	-	-	6.7	5.0	N.S.D. (b)	9.2	-	-

(a) Andrew x Landhafer selection
(b) No significant difference

Table 22. Yield performance of spring oat varieties tested at Middleburg, 1950 to 1955

Variety	Yield in bushels per acre						
	1955	1954	Avg. 1954-55	1951	1950	Avg. 1950-51	Four yr.avg.
Clinton	52.5	47.0	49.8	45.3	29.2	37.3	43.6
Columbia	69.6	47.1	58.4	51.0	30.4	40.7	49.6
Benton				47.8	30.1	38.9	
Marion					25.4		
Zephyr				54.9	27.8	41.4	
Johnson					30.3		
Andrew	67.1	59.2	63.2	46.5	27.0	38.8	51.0
Shelby				49.3	31.0	40.2	
Mo.0-200				41.8	27.4	34.6	
Colo				46.2	25.1	35.7	
Nemaha					23.4		
Mo.0-205	68.5	57.8	63.2	51.2	29.7	40.5	51.9
Craig		51.7					
Mo.0-4275		51.4					
Southland	63.8	47.9	55.9				
Clintland	44.3	46.5	45.4				
Clintafe		37.1					
L.s.d. (.05)	12.2	10.6	-	(a) N.S.D.	(a) N.S.D.	-	-

(a) No significant difference

Table 23. Yield performance of spring oat varieties tested at Orange, 1945 to 1955.

Variety	Yield in bushels per acre															
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55	1948	1947	1946	1945	Avg. 1945-48	Avg. 1945-55
Clinton	61.3	84.4	50.3	65.3	69.3	39.4	46.2	35.5	47.6	55.2	67.1	69.9	74.0	58.1	67.3	59.6
Columbia	67.0	76.2	60.2	67.8	60.3	33.6	46.0	47.9	47.0	55.9	66.2	66.5	74.4	49.5	64.2	58.9
Benton						36.9	45.2	36.3			69.3	72.4	65.1	56.6	65.9	
Marion							43.5	42.1			63.7	60.5	62.4	55.7	60.6	
Fulghum								43.7			73.2	56.2	63.7	54.6	61.9	
Ventura											56.9	58.8	58.6	56.9	57.8	
Neosho											44.8	36.6	58.9	61.6	50.5	
Osage												27.3	58.8	53.7		
Vicland												24.7	63.7	38.3		
Kanota												63.0	67.3	61.1		
Zephyr						41.3	47.3	44.6			67.5					
Johnson							42.9	40.4			59.4					
Cherokee								38.8			61.3					
Mohawk											60.9	57.9				
Goldwin												60.5	57.1			
Andrew	70.2	90.2	62.7	74.4	66.3	45.1	52.6	59.4	55.9	63.8	73.7					
Shelby			53.6		61.6	40.5	48.2	44.6	48.7							
Mo.0-200			56.9		60.8	40.2	45.2									
Colo					55.6	35.8	46.5	45.4	45.8							
Nemaha							39.1	40.4								
Mo.0-205	62.9	80.9	70.1	71.3	63.6	45.4	60.5									
Craig		86.7														
Beaver		76.3														
Southland	64.0	84.5	59.4	69.3												
Clintland	52.5	92.0	56.1	66.9												
Clintafe	40.6	83.9	52.0	58.8												
C.I.6639 (a)	58.1	96.5														
C.I.6620 (a)	62.4	94.4														
C.I.6621 (a)	65.4															
C.I.6632 (a)	58.8															
C.I.6638 (a)		94.9														
L.s.d. (.05)	7.8	11.1	6.1	-	7.8	5.1	7.5	5.1	-	-	7.2	9.9	13.7	10.1	-	-

(a) Andrew x Landhafer selection.

Table 24. Average yield performance of spring oat varieties tested in Piedmont section of Virginia, 1945 to 1955.

Variety	Yield in bushels per acre based on indicated number of locations.															
	1955 (3)	1954 (3)	1953 (1)	Avg. 1953-55	1952 (1)	1951 (3)	1950 (3)	1949 (2)	Avg. 1949-52	Avg. 1949-55	1948 (2)	1947 (2)	1946 (2)	1945 (2)	Avg. 1945-48	Avg. 1945-55
Clinton	60.3	60.6	50.3	57.1	69.3	39.6	41.9	34.0	46.2	50.9	58.8	47.8	51.6	48.2	51.6	51.1
Columbia	80.6	61.4	60.2	67.4	60.3	40.6	43.6	42.0	46.6	55.5	57.6	46.9	52.0	43.5	50.0	53.5
Benton						41.1	43.0	32.9			62.7	48.6	48.8	46.6	51.7	
Marion							40.6	39.5			59.8	42.7	49.8	46.2	49.7	
Fulghum								33.8			54.2	41.7	46.2	47.7	47.5	
Ventura											44.5	35.6	38.6	50.3	42.2	
Neosho											39.1	26.2	42.1	52.2	39.9	
Osage												18.2	44.5	51.5		
Vicland												16.1	46.2	38.3		
Kanota												44.7	50.0	52.6		
Zephyr						44.5	40.2	38.8			63.5					
Johnson							40.9	32.2			61.0					
Cherokee								34.4			57.9					
Mohawk											53.6	40.9				
Goldwin												41.8	45.1			
Andrew	69.1	70.5	62.7	67.4	66.3	49.5	46.1	55.2	54.3	59.9	64.7					
Shelby			53.6		61.6	44.3	41.0	42.6	47.4							
Mo.0-200			56.9		60.8	43.1	38.2									
Colo					55.6	40.1	39.5	42.4	44.2							
Nemaha							32.9	32.9								
Mo.0-205	66.8	65.0	70.1	67.3	63.6	47.8	53.7									
Craig		64.9														
Southland	64.6	62.6	59.4	62.2												
Clintland	51.7	63.5	56.1	57.1												
Clintafe		55.0	52.0													

Table 25. Yield performance of spring oat varieties tested at Accomac, 1949 to 1954.

Variety	Yield in bushels per acre						
	1954	1953	Avg. 1953-54	1952	1949	Two yr.avg.	Four yr.avg.
Clinton	10.8	12.9	11.9	22.5	52.8	37.7	24.8
Columbia	15.8	14.3	15.1	17.5	57.6	37.5	26.3
Benton					38.6		
Marion					60.1		
Fulghum					56.4		
Zephyr					54.5		
Johnson					63.8		
Cherokee					59.8		
Andrew	22.2	18.4	20.3	25.6	66.1	45.9	33.1
Shelby		15.0		19.3	51.2	35.3	
Mo.0-200		15.0		22.4			
Colo				18.7	53.0	35.9	
Nemaha					56.7		
Mo.0-205	18.2	19.0	18.6	23.0			
Craig	16.8						
Mo.0-4275	12.7						
Southland	18.8	19.0	18.9				
Clintland	11.8	17.0	14.4				
Clintafe	8.0	17.0	12.5				
L.s.d. (.05)	2.6	6.4	-	3.8	9.1	-	-

Table 26. Yield performance of spring oat varieties tested at Petersburg, 1949 to 1955

Variety	Yield in bushels per acre									
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55
Clinton	16.0	42.2	24.8	27.7	33.0	31.9	31.1	12.0	27.0	27.3
Columbia	28.6	45.5	28.1	34.1	27.2	28.8	33.0	14.9	26.0	29.5
Benton						27.4	36.6	10.7		
Marion							26.3	16.5		
Fulghum								15.7		
Zephyr					31.6	32.6	14.9			
Johnson						32.9	18.2			
Cherokee							14.0			
Andrew	36.3	59.5	31.4	42.4	36.6	43.0	39.8	17.3	34.2	37.7
Shelby		36.3			21.5	31.0	31.6	14.0	24.5	
Mo.0-200		31.4			31.9	34.8	39.0			
Colo					19.7	29.2	26.7	14.0	22.4	
Nemaha							27.6	13.2		
Mo.0-205	27.8	50.7	36.3		30.7	32.6	37.1			
Craig		47.7								
Beaver		60.8								
Southland	38.7	46.2	32.2	35.4						
Clintland	13.9	40.0	29.7	27.9						
Clintafe	11.2	46.6	27.2	28.3						
C.I.6639 (a)	28.9									
C.I.6620 (a)	27.2									
C.I.6621 (a)	31.4									
C.I.6632 (a)	25.6	58.1								
C.I.6638 (a)		46.3								
L.s.d. (.05)	5.6	8.9	6.4	-	4.0	5.2	5.6	2.5	-	-

(a) Andrew x Landhafer selections

Table 27. Yield performance of spring oat varieties tested at Williamsburg and Warsaw, 1945 to 1955 (a)

Variety	Yield in bushels per acre													
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	Avg. 1950-52	Avg. 1950-55	1947	1946	1945	Avg. 1945-48	Nine yr.avg.
Clinton	72.8	50.1	40.4	54.4	36.5	30.7	35.4	34.2	44.3	25.6	44.7	40.2	36.8	41.8
Columbia	81.8	60.6	52.0	64.8	32.5	23.0	44.5	33.3	49.1	32.3	43.3	36.2	37.3	45.1
Benton						14.5	39.0			26.6	42.0	39.9	36.2	
Marion							39.0			24.1	44.6	40.8	36.5	
Fulghum										32.5	49.1	39.9	40.5	
Ventura										39.4	36.0	41.5	39.0	
Neosho										32.5	42.9	41.9	39.1	
Osage										28.7	39.5	39.2	35.8	
Vicland										31.6	41.8	51.3	41.6	
Kanota										37.4	47.7	39.7	41.6	
Zephyr						35.5	37.2							
Johnson							35.4							
Mohawk										27.6				
Goldwin										30.7	45.5			
Andrew	80.1	65.7	56.1	67.3	34.5	35.9	42.7	37.7	52.5					
Shelby			52.0		34.7	34.3	36.3	35.1						
Mo.0-200			59.4		37.4	25.7	50.8	38.0						
Colo					28.0	22.4	44.5	31.6						
Nemaha							29.1							
Mo.0-205	76.2	61.9	58.6	65.6	33.4	27.4	49.9	36.9	51.3					
Craig		65.8												
Beaver		62.0												
Mo.0-4275		57.7												
Southland	85.4	63.5	58.6	69.2										
Clintland	54.9	57.6	52.8	55.1										
Clintafe	25.1	58.1	47.0	43.4										
C.I.6639 (b)	72.4	69.7												
C.I.6620 (b)	77.2	66.9												
C.I.6621 (b)	81.7													
C.I.6623 (b)		77.2												
C.I.6632 (b)	67.1	68.4												
C.I.6638 (b)		68.3												
L.s.d. (.05)	9.8	6.0	6.4	-	(c) N.S.D.	5.2	4.5	-	-	9.9	(c) N.S.D.	13.7	-	-

(a) Tested at Williamsburg 1945 through 1949 and at Warsaw 1950 through 1955.
(b) Andrew x Landhafer selections.
(c) No significant difference.

Table 28. Average yield performance of spring oat varieties tested in Coastal Plains section of Virginia, 1945 to 1955

Variety	Yield in bushels per acre based on the indicated number of locations														
	1955 (2)	1954 (3)	1953 (3)	Avg 1953-55	1952 (3)	1951 (2)	1950 (2)	1949 (2)	Avg. 1949-52	Avg. 1949-55	1947 (1)	1946 (1)	1945 (1)	Avg. 1945-47	Ten yr.avg.
Clinton	44.4	34.4	26.0	34.9	30.7	31.3	33.2	32.4	31.9	33.2	25.6	44.7	40.2	36.8	34.3
Columbia	55.2	40.6	31.5	42.4	25.7	25.9	38.7	36.2	31.6	36.2	32.3	43.3	36.2	37.3	36.5
Benton						20.9	37.8	24.6			26.6	42.0	39.9	36.2	
Marion							32.6	38.3			24.1	44.6	40.8	36.5	
Fulghum								36.0			32.5	49.1	39.9	40.5	
Ventura											39.4	36.0	41.5	39.0	
Neosho											32.5	42.9	41.9	39.1	
Osage											28.7	39.5	39.2	35.8	
Vicland											31.6	41.8	51.3	41.6	
Kanota											37.4	47.7	39.7	41.6	
Zephyr						33.5	34.9	34.7							
Johnson							34.1	41.0							
Cherokee								36.9							
Mohawk											27.6				
Goldwin											30.7	45.5			
Andrew	58.2	49.1	35.9	47.7	32.2	39.4	41.2	41.6	38.6	42.5					
Shelby					25.2	32.6	33.9	32.6	31.1						
Mo.0-200					30.6	30.2	44.9								
Colo					22.1	25.8	35.6	33.5	29.2						
Nemaha							28.3	34.9							
Mo.0-205	52.0	43.6	38.0	44.5	29.0	30.0	43.5								
Southland	62.0	42.8	36.6	47.1											
Clintland	34.4	36.5	32.3	34.4											
Clintafe	18.1	37.6	28.9	28.2											
C.I.6639 (a)	50.6														
C.I.6620 (a)	52.2														
C.I.6621 (a)	56.5														
C.I.6632 (a)	46.3														

(a) Andrew x Landhafer selections

Table 29. Characteristics of spring-sown oat varieties tested in Virginia, 1945 to 1955

Variety or selection	Height	Maturity	Lodging resistance	Bushel test weight	Disease reactions(b) Crown rust	Stem rust	Victoria blight
Clinton	Mid-short	Medium	Good	Good	S	I	R
Columbia	Medium	Early	Medium	Fair	S	S	R
Benton	Mid-tall	Medium	Good	Good	S	I	R
Marion	Mid-tall	Medium	Med.-good	-	I	I	R
Fulghum	Mid-short	Early	Poor	-	S	S	R
Ventura	Short	Early	Poor	-	-	-	S
Neosho	Short	Early	Good	-	R	I	S
Osage	Short	Early	Poor	-	R	R	S
Vicland	Short	Early	Medium	-	-	-	S
Kanota	Medium	Early	Poor	-	S	S	R
Zephyr	Medium	Medium	Good	-	S	R	R
Johnson	Mid-tall	Late	Medium	-	I	S	R
Cherokee	Mid-short	-	Medium	-	I	S	R
Mohawk	Mid-short	Medium	Good	-	-	-	R
Goldwin	Mid-tall	Late	Good	-	-	-	-
Andrew	Medium	Early	Medium	Good	S	R	R
Shelby	Medium	Medium	Good	-	I	I	R
Mo.0-200	-	-	-	-	S	S	R
Colo	Mid-short	Early	Good	-	-	-	R
Nemaha	Mid-short	Early	Med.-good	-	I	I	R
Mo.0-205	Medium	Early	Med.-good	Fair	I	I	R
Southland	Short	Early	Medium	Fair	-	-	-
Clintland	Mid-short	Medium	Good	Good	R	I	R
Clintafe	Mid-short	Mid-late	Good	Fair	R	I	R
Craig	Mid-short	Mid-late	Medium	Fair	I	S	-
Beaver	Medium	Mid-late	-	-	I	S	R
Mo.0-4275	Medium	Early	-	-	-	-	-
C.I.6639 (a)	Medium	Early	Medium	Fair	R	I	R
C.I.6620 (a)	Medium	Early	Medium	Fair	R	S	R
C.I.6621 (a)	Medium	Early	Medium	Fair	R	S	R
C.I.6632 (a)	Medium	Early	Medium	Fair	R	I	R
C.I.6623 (a)	Medium	Early	Medium	Fair	R	S	R
C.I.6638 (a)	Medium	Early	Medium	Fair	R	S	R

(a) Selections from the cross Andrew x Landhafer
(b) S = Susceptible; I = Intermediate; R = Resistant

Table 30. Yield performance of wheat varieties tested at Blacksburg, 1945 to 1955.

Variety	Yield in bushels per acre															
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55	1948	1947	1946	1945	Avg. 1945-48	Avg. 1945-55
Vahart	35.1	41.0	34.8	37.0	18.8	26.5	27.3	32.1	26.2	30.8	33.3	31.4	18.0	27.0	27.4	29.6
Thorne	40.3	36.3	42.1	39.6	28.1	35.1	25.5	31.2	30.0	34.1	32.7	32.6	21.7	23.7	27.7	31.8
Leap	34.0	45.1	35.9	38.3	18.9	31.0	29.9	33.9	28.4	32.6	31.6	30.8	20.3	24.8	26.9	30.5
V.P.I.#131	32.4	39.7	37.0	36.4	27.0	28.3	27.7	33.0	29.0	32.2	32.1	29.3	23.0	19.0	26.1	30.0
Nittany			34.5		19.4	33.3	24.6	31.2	27.1		32.2	30.9	23.9	23.7	27.6	
Hardired											41.6	31.8	31.1	27.8	33.1	
Forward											32.8	28.8	24.8	26.5	28.2	
Sanford											37.6	23.9	24.5	15.1	25.3	
Nured											37.9	34.0	21.8	25.5	29.8	
Redhart Str.5								31.2			40.6	25.7	21.8	16.1	26.0	
Little Red													22.5	25.6		
Purplestraw													19.0	14.5		
Vigo	37.7	37.9						22.4			31.8					
Fairfield								22.9			32.4					
Chancellor							24.2	38.7								
Atlas 66			37.4		9.9	14.0	25.1	29.9	19.7							
Atlas 50			37.4		11.0	12.4	18.9	33.9	19.1							
Butler	40.6	38.2						29.9								
Nudel		43.8	37.0		32.0	35.2	28.2	36.1	32.9							
Coker's 47-27	23.1	50.7					28.1	38.7								
Taylor		40.3				27.1	29.5									
Pennoll	36.3	46.6	43.9	42.3	31.7											
Seneca	35.5	45.0	41.7	40.7	33.1											
Knox	39.9	47.1	39.9	42.3	23.7											
Tayland	32.8	46.8	42.5	40.7												
Anderson	31.1	49.6	40.7	40.5			25.5									
Coker's 54-15	30.4															
L.s.d. (.05)	4.2	5.3	8.0	-	5.6	5.1	4.4	4.4	-	-	8.8	5.5	4.3	4.3	-	-

Table 31. Yield performance of wheat varieties tested at Glade Spring and vicinity in certain years from 1945 to 1955 (a)

Variety	Yield in bushels per acre													
	1955	1954	Avg. 1954-55	1952	1950	1949	Three Yr.avg.	Five Yr.avg.	1948	1947	1946	1945	Avg. 1945-48	Nine Yr.avg.
Vahart	29.6	24.0	26.8	17.3	17.8	21.1	18.7	21.9	37.4	28.7	40.3	17.8	31.0	25.9
Thorne	34.4	32.1	33.3	24.4	14.9	20.7	20.0	25.3	31.5	27.5	33.7	16.3	27.2	26.2
Leap	29.7	23.6	26.7	14.3	17.8	24.6	18.9	22.0	37.1	27.8	28.2	12.7	26.4	24.0
V.P.I.#131	31.7	23.6	27.7	19.9	17.8	22.4	20.0	23.1	31.1	28.5	36.6	19.3	28.9	25.7
Nittany				18.2	15.6	21.1	18.3		38.7	29.3	33.0	15.2	29.0	
Hardired									20.5	36.8	41.4	24.3	30.7	
Forward									33.3	29.5	35.2	16.6	28.6	
Sanford									31.4	25.5	37.7	20.1	28.7	
Nured									31.3	33.3	34.8	17.2	29.1	
Redhart Str.5						15.8			25.5	27.4	40.9	10.5	26.1	
Little Red											33.9	13.5		
Purplestraw											36.9	9.6		
Vigo	31.4	21.8				21.6			35.4					
Fairfield						17.6								
Chancellor					16.0	18.0								
Atlas 66				0	14.3	19.4	11.2							
Atlas 50				0	10.2	20.2	10.1							
Butler	35.3	36.5	35.9			21.1								
Nudel		25.6		18.9	19.6	22.9	20.5							
Coker's 47-27	11.5	25.6	18.6		17.0	21.6								
Taylor		24.4			17.1									
Pennoll	32.0	19.4	25.7	22.6										
Seneca	25.1	24.0	24.6	26.4										
Knox	23.3	24.5	23.9											
Tayland	22.3	28.9	25.6											
Anderson	32.6	30.9	31.8											
Coker's 54-15	20.6													
L.s.d. (.05)	4.8	8.9	-	5.2	3.0	5.2	-	-	8.4	3.5	8.9	5.4	-	-

(a) Tested at Glade Spring 1945, 1946, 1947, 1948; at Jonesville 1949, 1950; at Dryden 1952; and at Emory 1954, 1955.

Table 32. Yield performance of wheat varieties tested at several locations west of Blue Ridge from 1949 to 1953

	Yield in bushels per acre											
	Monterey					Fishersville			Elk Creek			
Variety	1953	1952	1950	1949	Four yr.avg.	1950	1949	Avg. 1949-50	1950	1949	Avg. 1949-50	
Vahart	12.3	10.9	19.3	19.8	15.6	31.8	24.0	27.9	27.2	29.0	28.1	
Thorne	15.0	12.8	20.7	18.9	16.9	31.3	22.4	26.9	29.0	30.8	29.9	
Leap	16.6	11.0	19.1	17.5	16.1	32.9	24.2	28.6	24.7	30.8	27.8	
V.P.I. #131	13.4	12.0	21.4	19.8	16.7	33.7	22.7	28.2	28.7	29.0	28.9	
Nittany	13.5	13.1	-	17.8		31.1	22.1	26.6		28.6		
Redhart Str.5				20.9			20.3			8.4		
Vigo				18.5			17.7			29.0		
Fairfield				16.3			17.1			28.2		
Chancellor			19.6	18.0		30.6	21.0		26.9	21.1		
Atlas 66	10.3	11.9	13.2	21.2	14.2	34.2	23.9	29.1	25.4	15.8	20.6	
Atlas 50	11.6	11.4	12.3	16.0	12.8	34.7	22.9	28.8	25.0	15.4	20.2	
Butler				16.3			23.6			27.3		
Nudel	17.8	15.0	21.2	15.5	17.4	30.5	25.2	27.9	28.3	33.4	30.9	
Coker's 47-27				16.3		27.8	23.6	25.7		16.7		
Taylor						28.7						
Pennoll	15.0	14.0										
Seneca	16.1	14.0										
Knox	13.0											
Tayland	16.8											
Anderson	15.5					32.0						
				(a)					(a)			
L.s.d. (.05)	3.1	2.1	4.9	N.S.D.	-	3.1	3.3	-	N.S.D.	3.7	-	

(a) No significant difference

Table 33. Yield performance of wheat varieties tested at Staunton, 1945-1955

Variety	Yield in bushels per acre															
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55	1948	1947	1946	1945	Avg. 1945-48	Avg. 1945-55
Vahart	39.2	32.5	35.6	35.8	25.6	34.0	31.8	24.2	28.9	31.9	39.0	33.0	36.2	43.3	37.9	34.0
Thorne	46.2	35.5	37.4	39.7	32.3	29.6	30.4	25.1	28.1	33.1	40.4	36.5	28.7	43.8	37.3	34.6
Leap	36.1	32.3	35.8	34.7	19.5	29.1	25.9	26.3	25.2	29.3	34.9	31.4	28.5	39.5	33.6	30.8
V.P.I.#131	39.4	30.7	37.6	35.9	32.1	34.9	25.7	25.1	29.4	32.2	34.8	30.9	37.5	36.2	34.8	33.1
Nittany			37.3		25.4	41.1	29.6	23.6	29.9		40.3	30.4	37.1	42.8	37.6	
Hardired											41.3	28.3	45.0	33.5	37.0	
Forward											35.4	30.6	29.3	44.6	35.0	
Sanford											40.9	24.3	32.9	29.1	31.8	
Nured											40.7	30.2	32.2	45.6	37.2	
Redhart Str.5								22.8			38.2	18.2	36.5	34.0	31.7	
Little Red													31.2	42.0		
Purplestraw													27.6	31.6		
Vigo	43.0	32.0						23.4			30.5					
Fairfield								18.9								
Chancellor							22.6	27.2								
Atlas 66			40.2		19.0	25.8	31.3	26.5	25.6							
Atlas 50			33.2		22.9	25.3	25.8	28.2	25.5							
Butler	39.9	32.2						24.5								
Nudel		32.5			27.6	39.7	27.6	28.8	30.9							
Coker's 47-27	33.0	32.0					31.3	29.8								
Taylor		25.9				42.1	26.2									
Pennoll	38.8	33.8	39.4	37.3	33.1											
Seneca	38.8	33.1	40.8	37.6	38.5											
Knox	43.3	33.5	41.7	39.5												
Tayland	41.6	32.8	47.5	40.6												
Anderson	37.9	31.9	47.0	38.9												
Coker's 54-15	31.5															
L.s.d. (.05)	1.1	5.6	5.5	-	6.7	6.8	3.1	3.7	-	-	5.7	4.6	5.3	7.3	-	-

Table 34. Average yield performance of wheat varieties tested west of Blue Ridge from 1945 to 1955

Variety	Average yield in bushels per acre based on indicated number of locations															
	1955 (3)	1954 (3)	1953 (3)	Avg. 1953-55	1952 (4)	1951 (2)	1950 (6)	1949 (6)	Avg. 1949-52	Avg. 1949-55	1948 (3)	1947 (3)	1946 (3)	1945 (3)	Avg. 1945-48	Avg. 1945-55
Vahart	34.6	32.5	27.6	31.6	18.1	30.2	25.9	25.0	24.8	27.7	36.5	31.0	31.5	29.4	32.1	29.3
Thorne	40.3	34.6	31.5	35.5	24.4	32.3	25.3	24.8	26.7	29.0	34.9	32.2	28.0	27.9	30.7	29.5
Leap	33.3	33.7	29.4	32.1	15.9	30.0	25.0	26.2	24.3	27.6	34.5	30.0	25.7	25.7	29.0	28.1
V.P.I.#131	34.5	31.3	29.3	31.7	22.7	31.6	25.8	25.3	26.3	28.6	32.7	29.6	32.4	24.8	29.9	29.1
Nittany			28.4		19.0	37.2		24.1			37.1	30.2	31.3	27.2	31.4	
Hardired											34.5	32.3	39.2	28.5	33.6	
Forward											33.8	29.6	29.8	29.2	30.6	
Sanford											36.6	24.6	31.7	21.4	28.6	
Nured											36.6	32.5	29.6	29.4	32.0	
Redhart Str.5								19.9			34.8	23.8	33.1	20.2	28.0	
Little Red													29.2	27.0		
Purplestraw													27.8	18.6		
Vigo	37.4	30.6									32.6					
Fairfield								22.1								
Chancellor							23.3	20.2								
Atlas 66			29.3		10.2	19.9	23.9	24.0	19.5							
Atlas 50			27.4		11.3	18.8	21.1	22.9	18.5							
Butler	38.6	35.6						22.8								
Nudel		34.0			23.4	37.4	25.9	23.8	27.6							
Coker's 47-27	22.5	36.1						27.0								
Taylor		30.2				34.6		24.4								
Pennoll	35.7	33.3	32.8	33.9	25.3											
Seneca	33.1	34.0	32.9	33.3	28.0											
Knox	35.5	35.0	31.5	34.0												
Tayland	32.2	36.2	35.6	34.7												
Anderson	33.9	37.5	34.4	35.3												
Coker's 54-15	27.5															

Table 35. Yield performance of wheat varieties tested at Charlotte Court House, 1945 to 1955

Variety	Yield in bushels per acre															
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55	1948	1947	1946	1945	Avg. 1945-48	Avg. 1945-55
Vahart	40.8	44.4	36.5	40.6	28.5	39.2	32.6	23.2	30.9	35.0	31.7	22.1	15.0	14.5	20.8	29.9
Thorne	40.3	44.9	37.0	40.7	32.1	38.4	30.4	21.9	30.7	35.0	34.8	22.4	19.5	16.3	23.2	30.7
Leap	38.3	48.4	39.6	42.1	34.2	38.7	23.3	15.6	27.9	34.0	31.2	21.6	17.6	13.2	20.9	29.2
V.P.I.#131	33.8		39.2		30.8	31.8	26.9	23.3	28.2		39.2	17.2	12.7	13.1	20.5	
Nittany			37.0		30.5	38.0	31.2	25.8	31.4		32.6	19.4	17.7	13.1	20.7	
Hardired											40.0	22.9	16.8	13.6	23.3	
Forward											33.9	19.4	18.4	13.3	21.2	
Sanford											32.1	19.3	16.4	15.8	20.9	
Nured											41.4	19.4	17.8	13.6	23.0	
Redhart Str.5								11.3			37.4	18.0	15.0	11.8	20.5	
Little Red													16.6	10.7		
Purplestraw													16.6	9.5		
Vigo	35.0							14.7			31.7					
Fairfield								13.9			29.1					
Chancellor							16.3	25.3								
Atlas 66	36.5	44.9	43.6	41.7	40.3	39.3	27.3	38.5	36.3	38.6						
Atlas 50		44.9	39.2		36.5	40.2	33.4	39.5	37.4							
Butler	36.5							13.0								
Nudel		42.7	33.0		38.4	34.0	27.3	25.0	31.2							
Coker's 47-27	44.0	44.4					22.0	37.5								
Taylor		46.2				30.7										
Pennoll	43.0	47.1	38.3	42.8	38.0											
Seneca	42.1	48.4	40.9	43.8	38.4											
Knox	32.3	44.9	41.8	39.7												
Tayland	37.4	49.3	41.4	42.7												
Anderson	40.0	45.8	42.7	42.8			29.9									
Coker's 54-15	36.4															
L.s.d. (.05)	7.8	6.1	5.5	-	8.0	5.4	4.1	4.1	-	-	6.0	(a) N.S.D.	3.3	3.0	-	-

(a) No significant difference

Table 36. Yield performance of wheat varieties tested at Middleburg, 1951 to 1955.

Variety	Yield in bushels per acre						
	1955	1954	Avg. 1954-55	1952	1951	Avg. 1951-52	Four yr.avg.
Vahart	34.8	27.7	31.2	22.4	19.6	21.0	26.1
Thorne	33.7	28.2	30.9	24.6	17.3	20.9	25.9
Leap	36.5	29.0	32.7	21.0	19.6	20.3	26.5
V.P.I. #131	31.7	23.8	27.7	21.4	18.7	20.0	23.9
Nittany				22.8	22.8	22.8	
Vigo	31.3	29.5	30.4				
Atlas 66				19.6	17.7	18.6	
Atlas 50				17.0	18.1	17.5	
Butler	35.6	28.2	31.9				
Nudel		29.5		25.1	18.5	21.8	
Coker's 47-27	38.0	37.4	37.7				
Taylor		28.6					
Pennoll	38.6	30.8	34.7	23.6			
Seneca	33.0	28.2	30.6	23.8			
Knox	39.7	29.0	34.3				
Tayland	37.1	35.2	36.1				
Anderson	36.7	32.1	34.4				
Coker's 54-15	34.8						
L.s.d. (.05)	2.4	5.6	-	(a) N.S.D.	5.4	-	-

(a) No significant difference

Table 37. Yield performance of wheat varieties tested at Orange, 1945 to 1955.

Variety	Yield in bushels per acre															
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55	1948	1947	1946	1945	Avg. 1945-48	Avg. 1945-55
Vahart	38.9	50.6	34.8	41.4	36.3	28.5	40.4	33.4	34.7	37.6	38.7	31.7	38.0	24.8	33.3	36.0
Thorne	38.9	51.0	42.7	44.2	40.7	31.7	33.0	29.0	33.6	38.1	29.4	42.2	37.0	20.6	32.3	36.0
Leap	41.0	57.2	41.4	46.5	34.0	26.6	38.3	33.9	33.2	38.9	37.6	34.7	36.7	18.5	31.9	36.4
V.P.I.#131	36.7	47.1	38.7	40.8	31.8	25.5	34.8	31.2	30.8	35.1	38.9	31.8	35.1	22.0	31.9	34.0
Nittany			37.4		38.0	30.7	33.2	32.1	33.5		37.0	34.1	34.9	21.6	31.9	
Hardired											31.7	29.5	34.4	14.5	27.5	
Forward											37.5	30.7	37.9	21.7	31.9	
Sanford											32.2	33.9	24.9	15.4	26.6	
Nured											39.8	34.0	36.2	22.3	33.0	
Redhart Str.5								27.7			28.5	22.7	25.5	19.2	23.9	
Little Red													28.8	17.5		
Purplestraw													27.4	18.2		
Vigo	39.3	48.8						26.8			31.5					
Fairfield								26.4			40.3					
Chancellor							31.7	31.7								
Atlas 66			38.3		37.3	19.9	39.6	35.6	33.1							
Atlas 50			36.1		28.9	18.9	32.3	37.8	29.5							
Butler	37.6	51.5						32.1								
Nudel		47.1	43.6		36.8	27.8	24.0	41.4	32.5							
Coker's 47-27	37.6	55.9					37.8	38.7								
Taylor		55.9				30.7	35.8									
Pennoll	40.2	50.2	43.1	44.5	44.9											
Seneca	37.5	51.5	38.7	42.6	39.7											
Knox	39.6	44.9	40.9	41.8												
Tayland	43.3	53.7	45.8	47.6												
Anderson	44.2	54.6	39.6	46.1												
Coker's 54-15	36.3															
L.s.d. (.05)	4.2	5.7	5.1	-	4.3	5.0	5.0	4.1	-	-	14.0	7.9	6.1	4.2	-	-

Table 38. Average yield performance of wheat varieties tested in the Piedmont section of Virginia, 1945 to 1955.

Variety	Average yield in bushels per acre based on indicated number of locations															
	1955 (3)	1954 (3)	1953 (2)	Avg. 1953-55	1952 (3)	1951 (3)	1950 (2)	1949 (2)	Avg. 1949-52	Avg. 1949-55	1948 (2)	1947 (2)	1946 (2)	1945 (2)	Avg. 1945-48	Avg. 1945-55
Vahart	38.2	40.9	35.6	38.2	29.1	29.1	36.5	28.3	30.8	34.0	35.2	26.9	26.5	19.6	27.1	31.5
Thorne	37.6	41.4	39.8	39.6	32.5	29.1	31.7	25.4	29.7	33.9	32.1	32.3	28.2	18.4	27.8	31.7
Leap	38.6	44.9	40.5	41.3	29.7	28.3	30.8	24.7	28.4	33.9	34.4	28.1	27.1	15.8	26.4	31.2
V.P.I.#131	34.1		38.9		28.0	35.3	30.8	27.2	27.8		39.0	24.5	23.9	17.5	26.2	
Nittany			37.2		30.4	30.5	32.2	28.9	30.5		34.8	26.7	26.3	17.3	26.3	
Hardired											35.8	26.2	25.6	14.0	25.4	
Forward											35.7	25.0	28.1	17.5	26.6	
Sanford											32.1	26.6	20.6	15.6	23.7	
Nured											40.6	26.7	27.0	17.9	28.1	
Redhart Str.5								19.5			32.9	20.3	20.2	15.5	22.2	
Little Red													22.7	14.1		
Purplestraw													22.0	13.8		
Vigo	35.2							13.8			31.6					
Fairfield								20.1			34.7					
Chancellor							24.0	28.5								
Atlas 66			40.9		32.4	25.6	33.4	37.0	32.1							
Atlas 50			37.6		27.5	25.7	32.8	38.6	31.2							
Butler	36.6							22.5								
Nudel		39.8	38.3		33.4	26.8	25.6	33.2	29.8							
Coker's 47-27	39.9	45.9					29.9	38.1								
Taylor		43.6														
Pennoll	40.6	42.7	40.7	41.3	35.5											
Seneca	37.5	42.7	39.8	40.0	34.0											
Knox	37.2	39.6	41.3	39.4												
Tayland	39.3	46.1	43.6	43.0												
Anderson	40.3	44.2	41.1	41.9												
Coker's 54-15	35.8															

Table 39. Yield performance of wheat varieties tested at Accomac, 1949 to 1955

Variety	Yield in bushels per acre									
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55
Vahart	24.9	20.2	8.3	17.8	9.9	25.7	15.7	22.2	18.4	18.1
Thorne	26.4	27.7	17.4	25.5	15.7	26.3	16.3	22.2	20.1	22.4
Leap	26.7	28.2	22.5	25.8	8.3	26.9	14.5	20.7	17.6	21.1
V.P.I. #131	32.6		22.9		9.6	30.6	18.2	19.8	19.5	
Nittany			16.0		10.6	26.2	15.7	23.6	19.0	
Vigo	26.1							18.3		
Fairfield								18.4		
Chancellor							12.7	20.6		
Atlas 66	27.2	24.2	27.6	26.3	13.4	32.6	20.6	28.1	23.7	24.8
Atlas 50		25.5	34.5		13.3	23.6	21.2	29.4	21.9	
Butler	29.9							15.7		
Nudel		29.0	25.0		12.8	25.2	18.8	24.1	20.2	
Coker's 47-27	25.8	23.3					20.0	23.6		
Taylor		27.7	22.1			25.9	18.2			
Pennoll	25.9	21.1	15.6	20.9	12.1					
Seneca	28.7	26.0	16.3	23.7	11.5					
Knox	34.0	31.7	30.0	31.9						
Tayland	22.9	27.3	28.7	26.3						
Anderson	25.9	26.0	21.4	24.4			18.8			
Coker's 54-15	30.7									
L.s.d. (.05)	-	(a) N.S.D.	6.7	-	4.1	(a) N.S.D.	3.8	3.9	-	-

(a) No significant difference

Table 40. Yield performance of wheat varieties tested at Petersburg, 1949 to 1955

Variety	Yield in bushels per acre									
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55
Vahart	30.6	31.5	38.7	33.6	33.2	22.6	24.9	25.1	26.4	29.5
Thorne	30.6	46.6	39.2	38.8	39.7	20.0	24.4	26.0	27.5	34.0
Leap	31.8	50.6	40.5	41.0	33.8	22.4	19.4	22.4	24.5	31.5
V.P.I. #131	31.1		40.5		32.6	23.8	28.7	24.6	27.4	
Nittany			36.5		36.3	24.9	26.3	27.3	28.7	
Vigo	30.5							18.0		
Fairfield								17.6		
Chancellor							13.6	28.2		
Atlas 66	26.9	44.5	37.8	36.4	37.4	32.3	23.1	35.6	32.1	33.9
Atlas 50		46.4	40.9		36.2	33.4	27.3	32.1	32.3	
Butler	25.8							19.4		
Nudel		40.0	34.3		34.1	24.1	22.1	26.8	26.8	
Coker's 47-27	32.4	50.5					16.5	30.8		
Taylor		46.7	43.6		26.8		21.2			
Pennoll	33.9	48.1	44.4	42.1	35.5					
Seneca	32.1	52.1	46.2	43.5	32.0					
Knox	35.1	37.9	41.8	38.3						
Tayland	34.0	52.2	37.4	41.2						
Anderson	34.8	47.3	40.5	40.8			21.3			
Coker's 54-15	31.7									
L.s.d. (.05)	4.0	5.3	5.2	-	N.S.D. (a)	4.6	2.9	2.9	-	-

(a) No significant difference

Table 41. Yield performance of wheat varieties tested at Williamsburg and Warsaw, 1945 to 1955[a]

Variety	Yield in bushels per acre																
	1955	1954	1953	1952	Avg. 1952-55	1951	1950	1949	Avg. 1949-51	Avg. 1949-55	1948	1947	1946	1945	Avg. 1945-48	Avg. 1945-55
Vahart	51.0	44.8	44.0	25.0	41.2	36.9	39.2	23.3	33.1	37.7	35.0	43.3	29.7	21.0	32.2	35.7
Thorne	48.8	50.6	39.2	23.2	40.5	36.3	36.1	18.9	30.4	36.1	34.5	48.3	25.9	23.6	33.0	35.0
Leap	50.5	41.8	32.6	21.1	36.5	32.9	26.4	22.9	27.4	32.6	33.5	34.3	20.0	18.5	26.6	30.4
V.P.I.#131	39.6		36.1	22.8		29.6	27.8	22.4	26.6		31.5	38.0	27.0	19.9	29.1	
Nittany			43.1	21.2		36.7	35.2	22.4	31.4		34.7	42.8	28.4	20.6	31.6	
Hardired											29.6	31.2	28.1	24.3	28.3	
Forward											30.3	42.9	25.2	17.1	28.9	
Sanford											31.2	25.8	23.1	17.4	24.4	
Nured											29.1	49.2	28.9	17.9	31.3	
Redhart Str.5								12.8			26.6	21.8	20.1	9.4	19.5	
Little Red													23.6	16.5		
Purplestraw													20.6	12.0		
Vigo	45.5							16.7			22.0					
Fairfield								15.8			32.1					
Chancellor								33.0								
Atlas 66	51.8	51.0	38.7	22.3	41.0	39.4	36.5	37.8	37.9	39.6						
Atlas 50		51.9	39.6	23.6		37.2	37.4	35.3	36.6							
Butler	47.9							16.3								
Nudel		40.5	39.2	24.1		32.5	26.9	27.3	28.9							
Coker's 47-27	54.5	52.8					31.7	31.2								
Taylor		47.1				35.3	26.8									
Pennoll	49.3	48.4	39.6	28.8	41.5											
Seneca	47.1	48.8	41.8	27.0	41.2											
Knox	49.5	44.0	38.7	22.0	38.6											
Tayland	58.0	46.2	37.8													
Anderson	56.8	49.3	40.5				34.8									
Coker's 54-15	47.9															
L.s.d. (.05)	5.5	4.9	4.5	N.S.D.[b]	-	4.2	5.1	5.0	-	-	5.1	5.3	4.7	5.1	-	-

(a) Tested at Williamsburg from 1945 to 1951 and at Warsaw from 1952 to 1955.
(b) No significant difference.

Table 42. Average yield of wheat varieties tested in the Coastal Plains section of Virginia, 1945 to 1955.

Variety	Average yield in bushels per acre based on the indicated number of locations															
	1955 (3)	1954 (3)	1953 (3)	Avg. 1953-55	1952 (3)	1951 (3)	1950 (3)	1949 (3)	Avg. 1949-52	Avg. 1949-55	1948 (1)	1947 (1)	1946 (1)	1945 (1)	Avg. 1945-48	Avg. 1945-55
Vahart	35.5	32.2	30.3	32.7	22.7	28.4	26.6	23.5	25.3	28.5	35.0	43.3	29.7	21.0	32.2	29.8
Thorne	35.3	41.6	31.9	36.3	26.2	27.5	25.6	22.4	25.4	30.1	34.5	48.3	25.9	23.6	33.0	31.1
Leap	36.3	40.2	31.9	36.1	21.1	27.4	20.1	22.0	22.6	28.4	33.5	34.3	20.0	18.5	26.6	27.7
V.P.I.#131	34.4		33.2		21.7	28.0	24.9	22.3	24.2		31.5	38.0	27.0	19.9	29.1	
Nittany			31.9		22.7	29.3	25.7	24.4	25.5		34.7	42.8	28.4	20.6	31.6	
Hardired											29.6	31.2	28.1	24.3	28.3	
Forward											30.3	42.9	25.2	17.1	28.9	
Sanford											31.2	25.8	23.1	17.4	24.4	
Nured											29.1	49.2	28.9	17.9	31.3	
Redhart Str.5											26.6	21.8	20.1	9.4	19.5	
Little Red													23.6	16.5		
Purplestraw													20.6	12.0		
Vigo	34.0							17.7			22.0					
Fairfield								17.3			32.1					
Chancellor								27.3								
Atlas 66	35.3	39.9	34.7	36.6	24.4	34.8	26.7	33.8	29.9	32.8						
Atlas 50		41.3	38.3		24.4	31.4	28.6	32.3	29.2							
Butler	34.5							17.1								
Nudel		36.5	33.8		23.7	27.3	22.6	26.1	24.9							
Coker's 47-27	37.6	42.2					22.7	28.5								
Taylor		40.5					22.1									
Pennoll	36.4	29.2	33.2	36.3	25.5											
Seneca	36.0	42.3	34.8	37.7	23.5											
Knox	39.5	37.9	36.8	38.1												
Tayland	38.3	41.9	34.6	38.3												
Anderson	39.2	40.9	34.1	38.1			25.0									
Coker's 54-15	36.8															

Table 43. Characteristics of wheat varieties tested in Virginia, 1945 to 1955

Variety or selection	Height	Maturity	Winter-hardiness	Lodging resistance	Bushel test weight	Head type	Disease reactions (a)			
							Leaf rust	Stem rust	Mildew	Mosaic
Vahart	Mid-tall	Medium	Good	Good	Good	Smooth	S	S	I	I-R
Thorne	Medium	Medium	Good	Fair-good	Good	Smooth	S	S	S	R
Leap	Mid-tall	Medium	Good	Fair	Fair	Smooth	S	S	S	R
V.P.I. #131	Tall	Medium	Good	Fair	Good	Bearded	S	S	S	R
Nittany	Tall	Medium	Good	Fair	Good	Bearded	S	S	S	S
Hardired	Medium	Medium	Fair	Poor	-	Smooth	I	S	I	S
Forward	Tall	Medium	Good	Fair	-	Smooth	S	S	S	-
Sanford	Medium	Mid-early	Fair	Poor	-	Smooth	I	S	S	R
Nured	Mid-tall	Medium	Good	Fair	-	Smooth	S	S	I	R
Redhart Str.5	Mid-short	Early	Fair	Fair-poor	-	Smooth	S	S	S	-
Little Red	Medium	Medium	Good	Fair-poor	-	Smooth	S	S	S	-
Purplestraw	Medium	Mid-early	Fair	Poor	-	Smooth	S	S	S	S
Vigo	Mid-tall	Medium	Good	Good	Good	Smooth	R	S	S	R
Fairfield	Medium	Medium	Good	Good	-	Smooth	S	S	S	R
Chancellor	Medium	Mid-early	Fair	Fair	-	Smooth	I	S	S	I
Atlas 66	Medium	Mid-early	Poor	Good	Fair	Smooth	R	I-S	I	S
Atlas 50	Medium	Mid-early	Poor	Good	Fair	Smooth	I	I	R	S
Butler	Medium	Medium	Good	Fair	Good	Bearded	S	S	S	R
Nudel	Tall	Medium	Good	Fair	Good	Bearded	I-S	S	S	R
Coker's 47-27	Medium	Medium	Poor	Fair	Good	Smooth	R	I	S	S
Taylor	Medium	Medium	Fair	Good	Fair-good	Smooth	R	I-S	S	S
Pennoll	Mid-tall	Medium	Good	Fair	Good	Smooth	S	S	S	R
Seneca	Medium	Medium	Good	Fair-good	Good	Smooth	S	S	S	R
Knox	Short	Early	Good	Good	Fair	Smooth	R	S	I	R
Tayland	Medium	Medium	Fair	Fair-good	Fair	Smooth	R	I	S	S
Anderson	Tall	Medium	Fair	Good	Good	Smooth	R	I-S	I	S
Coker's 54-15	Mid-short	Mid-early	Med.-poor	Fair	Fair	Smooth	R	-	R	S

(a) S = Susceptible; I = Intermediate; R = Resistant

Table 44. Yield performance of barley varieties tested at Blacksburg, 1946 to 1955.

Variety	Yield in bushels per acre														
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55	1948	1947	1946	Avg. 1946-48	Avg. 1946-55
Wong	37.4	38.7	53.1	43.0	49.8	70.8	30.9	50.6	50.5	47.3	60.3	43.2	29.0	44.2	46.4
Kentucky #1	43.2	32.4	44.5	40.0	44.8	65.6	36.9	55.6	50.7	46.1	86.0	51.7	31.6	56.4	49.2
Jackson #1			56.8		37.0	57.0	38.0	52.8	46.2		63.8	55.2	25.2	48.1	
Calhoun			47.2		32.8	45.8	40.7	49.0	42.1		44.2	50.4	22.3	39.0	
Marnobarb								41.8			55.4	37.9	25.7	39.7	
Smooth Awn 86								50.1			47.7	44.9	32.5	41.7	
Poland								54.5			69.9	52.3	40.6	54.3	
N.C.Hooded 26								36.9			29.3	32.7	23.5	28.5	
Sunrise								41.8			35.2	53.9	20.6	36.6	
Jackson													21.9		
Va.Hooded													27.5		
Tenn. Winter 52													26.1		
Iredell													20.6		
Wisc.Winter													29.2		
Tenwase								42.4			34.5	45.2			
Sunrise Str.3								41.8			17.6	43.6			
Brier							37.4	61.1			60.7				
Ohio #1							35.8	49.5			57.0				
Colonial							38.0	48.4							
Kenbar	39.5	33.8	60.8	44.7	32.0	52.6	48.4								
Hudson	43.8	27.0	63.6	44.8	45.6										
Mo.B-400					42.1	65.5									
Mo.B-699			46.3		38.9										
Mo.B-822			58.1												
Wong x Bolivia	26.5	26.6													
Wong x Bolivia,53-111	30.1														
Wong x Bolivia,53-20	25.6	37.4													
Wong x Bolivia,53-117	13.4	45.5													
Comp.CrossxSel.43,53-71	28.3	34.2													
Marconee	45.6														
Wataugua	16.9														
L.s.d. (.05)	9.8	(a) N.S.D.	9.9	-	(a) N.S.D.	7.8	5.8	7.3	-	-	21.0	8.9	9.4	-	-

(a) No significant difference

Table 45. Yield performance of barley varieties tested at Glade Spring and vicinity, 1945 to 1954 (a)

Variety	Yield in bushels per acre											
	1954	1952	1951	1950	1949	Five yr.avg.	1948	1947	1946	1945	Avg. 1945-48	Nine yr.avg.
Wong	27.5	32.8	42.5	25.9	26.4	31.0	66.7	87.6	46.8	46.7	61.9	44.7
Kentucky #1	36.5	44.1	38.9	31.3	36.3	37.4	67.4	69.0	42.7	46.2	56.3	45.8
Jackson #1		28.6	40.2	30.9	23.7		80.8	65.8	47.5			
Calhoun		18.4	38.0	19.5	18.7		58.6	87.6	51.5			
Marnobarb					21.5		52.3	57.2	45.4	40.0	48.7	
Smooth Awn 86					29.2		54.9	71.7	36.6	46.1	52.3	
Poland					29.7		66.3	68.6	48.9	48.8	58.1	
N.C.Hooded 26					17.1		44.6	74.0	27.2			
Sunrise					17.6		66.5	85.8	26.6	45.5	56.1	
Jackson									30.6	44.1		
Va. Hooded									36.6	27.0		
Tenn. Winter 52									33.5	49.3		
Iredell									26.7	15.6		
Wisconsin Winter									50.2	40.9		
Tenwase					22.0		59.1	66.7				
Sunrise Str.3					20.9		59.4	87.2				
Brier				28.6	29.2		64.1					
Ohio #1				33.1	28.6		66.3					
Colonial				24.5	22.0							
Kenbar	31.5	39.3	37.6	27.7								
Hudson	28.4	38.2										
Mo.B-400		39.3	40.0									
Mo.B-699		37.7										
Wong x Bolivia	32.9											
L.s.d. (.05)	(b) N.S.D.	8.2	(b) N.S.D.	3.5	3.1	-	12.4	11.0	12.2	15.3	-	-

(a) Tested at Glade Spring 1945-1948; Jonesville 1949-1951; Dryden 1952; and Emory 1954.
(b) No significant difference.

Table 46. Yield performance of barley varieties tested at several locations West of Blue Ridge, 1949 to 1952.

	Yield in bushels per acre									
	Monterey				Elk Creek			Fishersville		
Variety	1949	1950	1952	Three Yr.avg.	1949	1950	Avg. 1949-50	1949	1950	Avg. 1949-50
Wong	22.8	44.3	26.5	31.2	27.5	45.9	36.7	40.0	56.2	48.1
Kentucky #1	26.0	42.2	26.0	31.4	32.5	41.8	37.2	47.8	62.0	54.9
Jackson #1	25.2	48.0	27.0	33.4	29.2	33.6	31.4	41.8	58.7	50.3
Calhoun	21.1	46.0	17.9	28.3	24.8	42.2	33.5	38.7	54.1	46.4
Marnobarb	19.8				27.5			31.9		
Smooth Awn 86	23.3				30.8			35.4		
Poland	21.3				32.5			42.9		
N.C. Hooded 26	22.2				23.1			30.4		
Sunrise	14.2				27.5			27.7		
Tenwase	17.1				30.8			32.1		
Sunrise Str.3	18.6				27.5			31.5		
Brier	25.5	54.0			12.7	54.0	33.4	44.4	58.2	51.3
Ohio #1	26.1	42.0			33.6	50.8	42.2	42.9	56.3	49.6
Colonial	25.8	41.8			31.4	44.4	37.9	37.1	57.2	47.2
Kenbar		44.0	28.1			41.8			62.6	
Hudson			26.3							
Mo.B-400			24.9							
Mo.B-699			22.5							
L.s.d. (.05)	3.6	8.9	(a) N.S.D.	-	(a) N.S.D.	5.2	-	6.0	4.8	-

(a) No significant difference

Table 47. Yield performance of barley varieties tested at Staunton, 1946 to 1954.

Variety	Yield in bushels per acre														
	1954	1953	Avg. 1953-54	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-54	1948	1947	1946	Avg. 1946-48	Avg. 1946-54
Wong	57.3	50.4	53.9	37.9	63.5	53.9	21.5	44.2	47.4	71.4	76.8	50.4	66.2	53.7
Kentucky #1	62.2	54.2	58.2	43.8	77.1	51.2	26.9	46.7	50.5	58.5	59.2	44.9	54.2	51.7
Jackson #1		50.6		36.3	47.5	53.2	19.5	39.1		47.8	60.7	39.0	49.2	
Calhoun		40.5		24.0	43.3	46.6	19.0	33.2		60.4	70.8	55.3	62.2	
Marnobarb							19.4			45.8	54.2	41.1	47.0	
Smooth Awn 86							16.7			40.4	57.7	45.9	48.0	
Poland							31.2			59.1	75.3	54.3	62.9	
N.C.Hooded 26							15.9			36.1	44.9	38.3	39.8	
Sunrise							10.4			38.3	51.5	47.3	45.7	
Jackson												39.4		
Va.Hooded												22.4		
Tenn. Winter 52												45.9		
Iredell												20.4		
Wisconsin Winter												47.3		
Tenwase							11.5			48.7	52.5			
Sunrise Str.3							10.6			31.5	45.4			
Brier						57.9	28.1							
Ohio #1						57.3	27.9			48.1				
Colonial						50.2	10.6							
Kenbar	62.6	54.2	58.4	38.2	58.3	56.0								
Hudson	61.4	56.2	58.8	59.4										
Mo.B-400				34.2	66.0									
Mo.B-699		51.2		26.5										
Mo.B-822		60.9												
Wong x Bolivia	32.9													
L.s.d. (.05)	4.8	6.6	-	8.7	14.1	5.1	3.9	-	-	10.5	8.5	7.7	-	-

Table 48. Average yield performance of barley varieties tested west of Blue Ridge, 1945 to 1955

Variety	Average yield in bushels per acre based on indicated number of locations															
	1955 (1)	1954 (3)	1953 (2)	Avg. 1953-55	1952 (4)	1951 (3)	1950 (6)	1949 (6)	Avg. 1949-52	Avg. 1949-55	1948 (3)	1947 (3)	1946 (3)	1945 (1)	Avg. 1945-48	Avg. 1945-55
Wong	37.4	41.2	51.8	43.5	36.8	58.9	42.9	31.5	42.5	42.9	66.1	69.2	42.1	46.7	56.0	47.7
Kentucky #1	43.2	43.7	49.4	45.4	39.7	60.5	44.2	37.5	45.5	45.5	70.6	60.0	39.7	46.2	54.1	48.6
Jackson #1			53.7		32.2	48.2	43.7	32.0	39.0		64.1	60.6	37.2			
Calhoun			43.9		23.3	42.4	41.5	28.6	34.0		54.4	69.6	43.0			
Marnobarb								27.0			51.2	49.8	37.4	40.0	44.6	
Smooth Awn 86								30.9			47.7	58.1	38.3	46.1	47.6	
Poland								35.4			65.1	65.4	47.9	48.8	56.8	
N. C. Hooded 26								24.3			36.7	50.5	29.6			
Sunrise								23.2			46.7	63.7	31.5	45.5	46.9	
Jackson													30.6	44.1		
Va. Hooded													28.8	27.0		
Tenn. Winter 52													35.2	49.3		
Iredell													22.6	15.6		
Wisconsin Winter													42.2	40.9		
Tenwase								26.0			47.4	54.8				
Sunrise Str. 3								25.2			36.2	58.7				
Brier							48.4	26.1								
Ohio #1							45.9	34.8			57.1					
Colonial							42.7	29.2								
Kenbar	39.5	42.6	57.5	46.5	34.4	49.5	46.8									
Hudson	43.8	38.9	59.9	47.5	42.4											
Mo.B-400					35.1	57.2										
Mo.B-699			48.8		31.4											
Mo.B-822			59.5													
Wong x Bolivia	26.5	30.8														
Wong x Bolivia,53-111	30.1															
Wong x Bolivia,53-20	25.6															
Wong x Bolivia,53-117	13.4															
Comp.Cross x Sel.43,53-71	28.3															
Marconee	45.6															
Wataugua	16.9															

Table 49. Yield performance of barley varieties tested at Charlotte Court House, 1945 to 1955

Variety	Yield in bushels per acre															
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55	1948	1947	1946	1945	Avg. 1945-48	Avg. 1945-55
Wong	38.1	56.1	68.2	54.1	54.5	66.9	53.3	34.0	52.2	53.0	52.3	24.4	9.7	19.8	26.5	43.3
Kentucky #1	44.8	60.0	50.6	51.8	50.6	52.4	37.4	15.5	39.0	27.8	38.5	23.5	13.7	20.4	24.0	37.0
Jackson #1			61.1		47.7	52.6	35.8	26.2	40.6		46.8	20.4	13.7			
Calhoun			58.3		48.0	39.2	29.1	35.3	37.9		56.1	27.1	15.0			
Marnobarb								16.9			39.6	22.7	8.7	16.9	22.0	
Smooth Awn 86								21.1			39.1	21.3	9.0	20.5	22.6	
Poland								24.1			49.5	28.6	12.6	19.1	27.4	
N.C.Hooded 26								25.2			34.1	17.8	8.7	14.6	18.8	
Sunrise								28.3			49.0	25.3	12.7	21.0	27.0	
Jackson													11.8	21.5		
Va.Hooded													6.7	14.3		
Tenn. Winter 52													11.4	20.9		
Iredell													9.5	18.4		
Wisc. Winter													12.1	20.3		
Tenwase								29.3			53.9	24.4				
Sunrise Str.3								27.9			49.0	27.9				
Brier							46.2									
Ohio #1							38.9									
Colonial							41.2									
Kenbar	57.6	57.8	72.6	62.7	60.9	51.0	52.9									
Hudson	55.0	61.1	65.5	60.5	60.9											
Mo.B-400					44.9	34.1										
Mo.B-699			56.7		50.4											
Mo.B-822			60.0													
Wong x Bolivia	38.3	58.9														
Wong x Bolivia,53-111	40.1															
Wong x Bolivia,53-20	44.6															
Wong x Bolivia,53-117	48.8															
Comp.CrossxSel.43,53-71	56.7															
Marconee	34.8															
Wataugua	42.6															
Colonial #2	33.5	74.3	75.4	61.1												
Piedmont					53.2	66.7										
Davie	54.1	64.4	45.1	54.5												
Sunrise-Bolivia 1027-448	43.6															
Sunrise-Bolivia 1027-463	42.3															
L.s.d. (.05)	9.2	8.5	11.5	-	9.2	8.3	8.7	6.8	-	-	15.2	(a) N.S.D.	2.7	3.5	-	-

(a) No significant difference

Table 50. Yield performance of barley varieties tested at Middleburg, 1950 to 1955.

Variety	Yield in bushels per acre						
	1955	1954	Avg. 1954-55	1951	1950	Avg. 1950-51	Four yr.avg.
Wong	56.6	55.0	55.8	61.4	50.8	56.1	56.0
Kentucky #1	68.2	41.3	54.8	52.4	45.5	49.0	51.9
Jackson #1				61.6	51.3	56.5	
Calhoun				49.0	46.6	47.8	
Brier					53.3		
Ohio #1					45.8		
Colonial					48.6		
Piedmont				64.0			
Kenbar	63.5	58.3	60.9	78.6	60.5	69.6	65.3
Hudson	67.4	50.1	58.8				
Mo.B-400				62.4			
Wong x Bolivia	55.6	47.3	51.5				
Marconee	65.2						
Wataugua	58.1						
Colonial #2	69.6						
L.s.d. (.05)	(a) N.S.D.	(a) N.S.D.	-	12.2	(a) N.S.D.	-	-

(a) No significant difference

Table 51. Yield performance of barley varieties tested at Orange, 1945 to 1955

Variety	Yield in bushels per acre															
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55	1948	1947	1946	1945	Avg. 1945-48	Avg. 1945-55
Wong	58.3	82.5	64.7	68.5	68.9	65.6	67.3	54.5	64.1	66.0	41.8	53.9	58.7	40.0	48.6	59.7
Kentucky #1	71.1	82.0	57.0	70.0	56.8	68.4	66.9	69.3	65.3	67.3	54.8	61.1	41.5	36.7	48.5	60.5
Jackson #1			63.3		58.3	61.6	69.3	53.4	60.6		40.0	47.4	45.6			
Calhoun			33.8		12.5	50.4	61.0	46.8	42.7		34.8	53.4	57.8			
Marnobarb								49.5			35.0	41.1	46.3	33.6	39.0	
Smooth Awn 86								56.7			37.0	40.5	34.1	33.9	36.4	
Poland								54.5			48.8	59.1	45.8	36.5	47.5	
N.C.Hooded 26								40.7			38.1	51.6	36.7	27.9	38.6	
Sunrise								47.9				58.5	47.9	39.9		
Jackson													47.2	36.6		
Va.Hooded													38.8	21.4		
Tenn. Winter 52													38.3	24.3		
Iredell													32.2	23.4		
Wisc. Winter													41.5	35.6		
Tenwase								52.3			45.5	46.4				
Sunrise Str. 3								49.5			36.9	52.7				
Brier							57.9									
Ohio #1							62.3									
Colonial							63.2									
Kenbar	69.1	90.8	63.0	74.3	57.8	59.4	64.7									
Hudson	80.7	92.4	72.8	82.0	84.4											
Mo.B-400					64.7	58.3										
Mo.B-699			54.8		55.0											
Mo.B-822			63.2													
Wong x Bolivia	64.5	75.4														
Wong x Bolivia,53-111	67.5															
Wong x Bolivia, 53-20	61.9															
Wong x Bolivia,53-117	60.9															
Comp.CrossxSel.43,53-71	63.3															
Marconee	72.6															
Wataugua	61.1															
Colonial #2	63.8															
L.s.d. (.05)	9.7	10.0	8.4	-	18.0	6.4	(a) N.S.D.	5.8	-	-	10.0	8.1	6.5	12.0	-	-

(a) No significant difference.

Table 52. Average yield performance of barley varieties tested in Piedmont section of Virginia, 1945 to 1955.

Variety	Yield in bushels per acre based on indicated number of locations															
	1955 (3)	1954 (3)	1953 (2)	Avg. 1953-55	1952 (2)	1951 (3)	1950 (3)	1949 (2)	Avg. 1949-52	Avg. 1949-55	1948 (2)	1947 (2)	1946 (2)	1945 (2)	Avg. 1945-48	Avg. 1945-55
Wong	51.0	64.5	66.5	60.7	61.7	64.6	57.1	44.3	56.9	58.5	47.1	39.2	34.2	29.9	37.6	50.9
Kentucky #1	61.4	61.1	53.8	58.8	53.7	57.7	49.9	42.4	50.9	54.3	46.7	42.3	27.6	28.6	36.3	47.7
Jackson #1			62.2		53.0	58.6	52.1	39.8	50.9		43.4	33.9	29.7			
Calhoun			41.1		30.2	46.2	45.6	41.1	40.8		45.5	40.3	36.4			
Marnobarb								33.2			37.3	31.9	27.5	25.3	30.5	
Smooth Awn 86								38.9			38.1	30.9	21.6	27.2	29.5	
Poland								39.3			49.2	43.9	29.2	27.8	37.5	
N.C.Hooded 26								33.0			36.1	34.7	22.7	21.3	28.7	
Sunrise								38.1				41.9	30.3	30.5		
Jackson													29.5	29.1		
Va.Hooded													22.8	17.9		
Tenn. Winter 52													24.9	22.6		
Iredell													20.9	20.9		
Wisc. Winter													26.8	28.0		
Temwase								40.8			49.7	35.4				
Sunrise Str. 3								38.7			43.0	40.3				
Brier							52.5									
Ohio #1							49.0									
Colonial							51.0									
Kenbar	63.4	69.0	67.8	66.7	59.4	63.0	59.4									
Hudson	67.7	67.9	69.2	68.3	72.7											
Mo.B-400					54.8	51.6										
Mo.B-699			55.8		52.7											
Mo.B-822			61.6													
Wong x Bolivia	52.8	60.5														
Marconee	57.5															
Wataugua	53.9															
Colonial #2	55.6															

Table 53. Yield performance of barley varieties tested at Accomac, 1950 to 1955

Variety	Yield in bushels per acre								
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	Avg. 1950-52	Avg. 1950-55
Wong	56.0	37.4	31.8	41.7	39.1	61.0	36.3	45.5	43.6
Kentucky #1	49.5	38.7	25.4	37.9	35.8	58.1	23.4	39.1	38.5
Jackson #1			34.5		54.3	71.2	33.3	52.9	
Calhoun			49.0		42.6	71.3	46.9	53.6	
Brier							16.6		
Ohio #1							24.2		
Colonial							41.6		
Kenbar	64.2	35.6	35.0	44.9	39.0	49.6	25.7	38.1	41.5
Hudson	57.3	38.3	40.0	45.2	48.5				
Mo.B-400					24.7	61.5			
Mo.B-699			20.9		37.5				
Mo.B-822			31.3						
Wong x Bolivia	71.7	23.9							
Wong x Bolivia 53-111	62.8								
Wong x Bolivia, 53-117	71.1								
Marconee	45.9								
Wataugua	63.8								
Colonial #2	58.2	23.4	67.2	49.6					
Piedmont					45.1	67.6			
Davie	71.9	20.7	58.6	50.4					
Sunrise-Bolivia, 1027-448	52.1								
L.s.d. (.05)	12.6	9.0	17.4	-	10.8	-	7.3	-	-

Table 54. Yield performance of barley varieties tested at Petersburg, 1949 to 1955

Variety	Yield in bushels per acre									
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55
Wong	38.2	57.5	60.0	51.9	28.8	57.1	38.7	31.4	39.0	44.5
Kentucky #1	47.6	51.0	44.6	47.7	30.7	59.9	46.1	31.4	42.0	44.4
Jackson #1			50.6		43.4	62.5	23.1	34.7	40.9	
Calhoun			55.6		48.0	52.8	38.6	33.0	43.1	
Marnobarb								33.0		
Smooth Awn 86								34.1		
Poland								29.7		
N.C.Hooded 26								28.6		
Sunrise								28.6		
Tenwase								30.3		
Sunrise Str. 3								32.5		
Brier							32.5	34.1		
Ohio #1							33.8	31.4		
Colonial							27.0	34.7		
Kenbar	55.7	54.7	55.0	55.1	35.6	50.7	40.5			
Hudson	54.1	50.5	51.7	52.1	39.5					
Mo.B-400					21.1	43.7				
Mo.B-699			35.8		32.8					
Mo.B-822			36.9							
Wong x Bolivia	37.0	30.0								
Wong x Bolivia,53-111	43.4	47.6								
Wong x Bolivia,53-20	34.6	49.3								
Wong x Bolivia,53-117	44.8	59.7								
Comp.Cross x Sel.43,53-71	49.3	61.2								
Marconee	49.1									
Wataugua	50.0									
Colonial #2	53.1	61.0	62.7	58.9						
Piedmont					45.7	64.4				
Davie	46.9	59.3	47.9	51.4						
Sunrise-Bolivia,1027-448	38.8									
Sunrise-Bolivia,1027-463	40.1									
L.s.d. (.05)	5.6	5.6	10.6	-	8.0	8.4	3.2	4.5	-	-

Table 55. Yield performance of barley varieties tested at Williamsburg and Warsaw, 1945 to 1955. (a)

Variety	Yield in bushels per acre															
	1955	1954	1953	Avg. 1953-55	1952	1951	1950	1949	Avg. 1949-52	Avg. 1949-55	1948	1947	1946	1945	Avg. 1945-48	Avg. 1945-55
Wong	70.2	74.3	60.5	68.3	41.5	52.1	19.8	29.2	35.6	49.6	40.0	53.7	29.8	33.9	39.3	45.9
Kentucky #1	64.2	61.6	66.6	64.1	38.4	46.5	25.3	34.7	36.2	48.1	41.4	54.9	26.1	32.3	38.7	44.7
Jackson #1			56.1		55.8	51.4	17.0	24.8	37.2		59.5	52.0	43.5			
Calhoun			56.1		41.3	53.5	23.1	30.8	37.2		43.6	55.4	32.6			
Marnobarb								27.0			38.2	44.2	31.2	27.4	35.2	
Smooth Awn 86								29.7			41.9	48.5	22.7	30.5	36.0	
Poland								25.9			54.0	55.0	25.6	41.6	44.0	
N.C.Hooded 26								29.7			28.4	40.8	15.3	16.1	25.1	
Sunrise								30.3			34.8	49.1	15.6	24.3	31.0	
Jackson													31.6	30.8		
Va.Hooded													16.7	15.6		
Tenn. Winter 52													32.7	28.9		
Iredell													14.9	18.4		
Wisc. Winter													27.5	20.9		
Tenwase								23.1			37.0	48.1				
Sunrise Str. 3								33.0			21.6	52.6				
Brier							19.8	31.4								
Ohio #1							20.9				33.2					
Colonial							10.4	28.1								
Kenbar	73.6	75.4	67.1	72.0	49.0	51.5	22.6									
Hudson	88.7	78.1	74.8	80.5												
Mo.B-400					43.9	45.1										
Mo.B-699			61.6		38.2											
Mo.B-822			66.0													
Wong x Bolivia	55.8	33.0														
Wong x Bolivia,53-111	68.4	66.0														
Wong x Bolivia,53-20	58.6	68.8														
Wong x Bolivia,53-117	67.7	61.6														
Comp.CrossxSel.43,53-71	72.2	78.1														
Marconee	74.0															
Watuagua	75.1															
Colonial #2	56.8	86.4	51.7	65.0												
Piedmont					29.4	60.5										
Davie	79.0	77.6	64.9	73.8												
Sunrise-Bolivia,1027-448	79.0															
Sunrise-Bolivia,1027-463	76.8															
L.s.d. (.05)	10.4	9.0	10.6	-	5.3	5.0	3.6	N.S.D. (b)	-	-	17.1	6.6	7.5	7.6	-	-

(a) Tested at Williamsburg 1945 to 1950; Warsaw 1951-1955.
(b) No significant difference.

Table 56. Average yield performance of barley varieties tested in Coastal Plains section of Virginia, 1945-55

Variety	Yield in bushels per acre based on indicated number of locations															
	1955 (3)	1954 (3)	1953 (3)	Avg. 1953-55	1952 (3)	1951 (3)	1950 (3)	1949 (2)	Avg. 1949-52	Avg. 1949-55	1948 (1)	1947 (1)	1946 (1)	1945 (1)	Avg. 1945-48	Avg. 1945-55
Wong	54.8	56.4	50.8	54.0	36.5	56.7	31.6	30.3	38.8	45.3	40.0	53.7	29.8	33.9	39.3	43.1
Kentucky #1	53.8	50.4	45.5	49.9	35.0	54.8	31.6	33.1	38.6	43.4	41.4	54.9	26.1	32.3	38.7	41.7
Jackson #1			47.1		51.2	61.7	24.5	32.8	42.6		59.5	52.0	43.5			
Calhoun			53.6		44.0	59.2	36.2	31.9	42.8		43.6	55.4	32.6			
Marnobarb								30.0			38.2	44.2	31.2	27.4	35.2	
Smooth Awn 86								31.9			41.9	48.5	22.7	30.5	36.0	
Poland								27.8			54.0	55.0	25.6	41.6	44.0	
N.C.Hooded 26								29.2			28.4	40.8	15.3	16.1	25.1	
Sunrise								29.5			34.8	49.1	15.6	24.3	31.0	
Jackson													31.6	30.8		
Va.Hooded													16.7	15.6		
Tenn. Winter 52													32.7	28.9		
Iredell													14.9	18.4		
Wisconsin Winter													27.5	20.9		
Tenwase								26.7			37.0	48.1				
Sunrise Str.3								32.8			21.6	52.6				
Brier							23.0	32.8								
Ohio #1							26.3				33.2					
Colonial							26.3	31.4								
Kenbar	64.5	55.2	52.4	57.4	41.2	50.6	29.6									
Hudson	66.7	55.6	55.5	59.3												
Mo.B-400					31.9	50.1										
Mo.B-699			39.4		36.2											
Mo.B-822			44.7													
Wong x Bolivia	54.8	29.0														
Wong x Bolivia,53-111	58.2															
Wong x Bolivia,53-117	61.2															
Marconee	56.3															
Wataugua	63.0															
Colonial #2	56.0	56.9	60.5	57.8												
Piedmont					40.1	64.2										
Davie	65.9	52.5	57.1	58.5												
Sunrise-Bolivia 1027-448	56.6															

Table 57. Characteristics of barley varieties tested in Virginia, 1945 to 1955

Variety or selection	Height	Maturity	Winter-hardiness	Lodging resistance	Bushel test weight	Head type	Disease reactions[(a)] Leaf rust	Mildew	Scald
Wong	Medium	Medium	Fair	Good	Fair	Awnletted	S	R	S
Kentucky #1	Mid-tall	Medium	Good	Fair	Good	Bearded,rough	S	S	I
Jackson #1	Medium	Medium	Good	Fair	-	Bearded,smooth	S	S	-
Calhoun	Medium	Medium	Fair	Good	-	Awnletted	S	I	S
Marnobarb	Mid-tall	Medium	Fair	Fair	-	Bearded,smooth	S	S	-
Smooth Awn 86	Mid-tall	Medium	Good	Fair	-	Bearded,smooth	S	S	-
Poland	Medium	Medium	Good	Poor	-	Bearded,rough	S	R	-
N.C.Hooded 26	Medium	Medium	Good	Poor	-	Hooded	S	S	-
Sunrise	Mid-short	Mid-early	Fair	Good	-	Awnletted	S	I	-
Jackson	Medium	Medium	Good	Fair	-	Bearded,smooth	S	S	-
Va. Hooded	Medium	Medium	Good	Poor	-	Hooded	S	S	-
Tenn. Winter 52	Medium	Medium	Good	Fair	-	Bearded,rough	S	S	-
Iredell	Tall	Medium	Good	Fair	-	Hooded	S	S	-
Wisconsin Winter	Medium	Medium	Good	Poor	-	Bearded,rough	S	S	-
Tenwase	Medium	Medium	-	Fair	-	-	S	S	-
Sunrise Str.3	Mid-short	Mid-early	Fair	Fair	-	Awnletted	S	I	-
Brier	Mid-short	Medium	Fair	Poor	-	Bearded,rough	S	-	-
Ohio #1	Tall	Medium	Good	Fair	-	Bearded,rough	S	S	-
Colonial	Mid-short	Medium	Mid-poor	Good	-	Beardless	S	I	S
Kenbar	Mid-short	Mid-early	Fair	Good	Good	Bearded,semi-smooth	S	R	I
Hudson	Medium	Medium	Good	Good	Good	Bearded,rough	S	R	R
Mo.B-400	-	-	Good	-	-	Bearded,rough	S	-	I
Mo.B-699	-	-	Good	-	-	Bearded,rough	S	-	-
Mo.B-822	-	-	Good	-	-	Bearded,rough	S	-	-
Wong x Bolivia	Medium	Medium	Mid-poor	Good	Fair	Awnletted	R	R	S
Wong x Bolivia, 53-111	Medium	Medium	Mid-poor	Good	Poor	Bearded	R	R	I
Wong x Bolivia, 53-20	Medium	Medium	Mid-poor	Good	Poor	Awnletted	R	R	I
Wong x Bolivia, 53-117	Medium	Medium	Mid-poor	Good	Fair	Bearded,rough	R	R	I
Comp.CrossxSel. 43,53-71	Mid-short	Mid-early	Fair	Good	Fair	Bearded,semi-smooth	S	R	I
Marconee	Medium	Mid-early	Fair	Fair	Poor	Awnletted	S	R	S
Wataugua	Medium	Mid-late	Mid-poor	Fair-good	Fair	Bearded,smooth	S	S	S
Colonial #2	Mid-short	Mid-early	Mid-poor	Good	Poor	Beardless	S	I	S
Piedmont	-	-	Poor	Good	-	-	S	-	-
Davie	Mid-short	Mid-early	Poor	Good	-	Awnletted	-	R	I
Sunrise x Bolivia, 1027-448	Mid-short	Medium	Poor	Good	Fair	Awnletted	R	R	S
Sunrise x Bolivia,1027-463	Mid-short	Medium	Poor	Good	Poor	Awnletted	R	R	S

(a) S = Susceptible; I = Intermediate; R = Resistant