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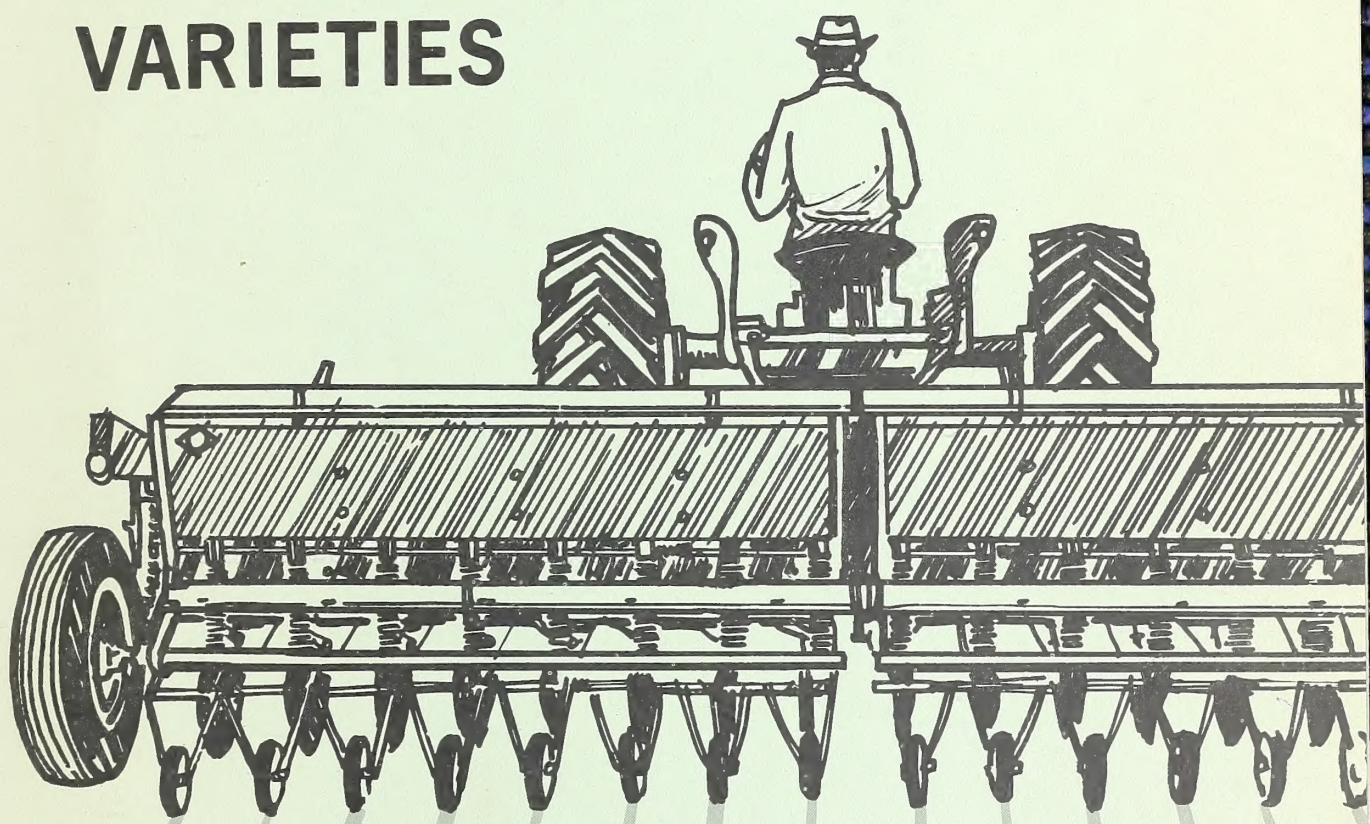
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# TRENDS IN FORAGE CROP VARIETIES



## PREFACE

Since World War II farmers have relied increasingly for their forage seed requirements on producers more specialized in seed production, situated in areas favored by soil and climate. Production of forage seed has therefore become both specialized and centralized. However, users of this seed remain scattered throughout the country, and their needs variety-wise are very different.

Because of this situation there is concern for a means of reflecting to the seed producer the consumer's needs.

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# TRENDS IN FORAGE CROP VARIETIES — 1965

## Purpose

The purpose of Trends in Forage Crops Varieties is to indicate changes in varieties one can expect among the crops used for forage production. The intent of this survey is to identify varieties that are on the way up in usage, those on the way out, and to give a measure of the rate of change. Species dealt with are those for which the majority of seed is grown in certain localities for use elsewhere.

A distinctive feature of this survey is the possibility it has of giving us clues to the future of a new variety soon after it appears. It capitalizes promptly on State variety tests. Predictions are arrived at by collecting, weighting, then consolidating the appraisals of each variety, as supplied by the States using it.

Variety trends information serves both the buyer of forage seed (the consumer) and the seed producer. For the consumer it tends to shorten the time gap between the release of a new variety and the stage at which seed becomes readily available. For the seed producer it indicates varieties that will be in demand, hence, to be expanded in production, and those varieties to be reduced. In this way it contributes to efficiency in both production and marketing.

The need for variety trends information has increased sharply in recent years. One cause is the centralization of seed production in certain localities for use elsewhere. Another is the step-up in the number of new forage varieties released. While both these developments offer advantages, they intensify the problem of acquainting the seed producer with the consumer's wants.

The "seed trade" is concerned with information in the survey. The trade performs a vital role in relating supply to demand. It makes a major contribution by encouraging production of varieties that are in demand and placing this seed where most desired. But this function also is made easier when the demand situation is clarified.

## Survey Method

The survey covered 48 continental States. Hawaii, Puerto Rico and Alaska were omitted because of the difference in their forage species.

In each of these 48 States an extension agronomist working with forage crops was asked to assume responsibility for his State's report. All 48 responded.

It was suggested that the extension agronomist solicit help of everyone who could contribute to the validity of results in appraising the varieties. These would include college staff engaged in research and extension relating to forage crops and to seed, State Agricultural Department representatives, seedsmen, seed improvement association officers, crops reporting officials and others. In several States extension agronomists have gone so far as to conduct statewide variety surveys.

In its simplest terms, the question posed was this: In light of the performance of this variety in your State tests and on farms (if it has reached that stage) together with your judgment of your farmers' readiness to switch to such a variety - what do you expect of it? Will it go up or down in usage, or will it remain stationary? If you expect a change, will the change be slight, moderate, or sharp?

It was suggested that these State representatives assume the required seed would be available at competitive prices. This, experience has shown, is a critical consideration.

No time limit was prescribed. We were seeking only the direction of change and its rate.

A basic list of varieties was entered on the questionnaire. States were requested to list others.

### Computing the Results

A value of 1.0 was assigned to varieties expected to remain stationary. Values ranging above one indicate estimated increases and those below one, decreases. Hence, the seven possibilities in the full range of estimates are expressed by the following numerical values:

Sharp increase	- 1.3
Moderate increase	- 1.2
Slight increase	- 1.1
Stationary	- 1.0
Slight decrease	- 0.9
Moderate decrease	- 0.8
Sharp decrease	- 0.7

In the process of determining trends, each State's estimate was weighted proportionately to its share of total acreage of the crop in the States growing this variety. Take Lincoln bromegrass for example. If one of the States reporting Lincoln grows ten times the total bromegrass acreage of another State reporting Lincoln, the larger producer influenced trend estimates ten times as much as the smaller.\* This way of indicating trend is looked upon as a means of expressing consumer preference.

### Understanding the Report

The actual difference between 1.3 and 0.7 is small. But, as employed in this report, these numbers describe expected changes in the use of varieties ranging from sharp uptrends to sharp downtrends. Hence, 1.1 conveys a very different meaning from say, 0.9. Condensed in these tiny figures is the collective judgment of authorities on future needs for these forage crop seeds.

Trend figures are the basic part of the report. Therefore, when sizing up the predicted future for a variety, the trend is the first item to consider. But also to be weighed are the number of States reporting the variety in question and the importance there of the crop. The present acreage is much less significant, especially in the case of new varieties.

As a generalization, the larger the number of States reporting the variety, the more accurate the prediction is likely to be. Exceptions are most likely to occur when we have a variety that was so recently released that it had not yet been widely tested. Another exception is a variety that is adapted to only a limited area. Such considerations are intensified by the fact that this survey is designed to bring judgments to light as early as possible following the release of a variety. Obviously, the more important the crop is to the reporting region, the greater the potential will be for good varieties.

Small acreage is not a reflection against a variety. Every new variety must have a beginning. And among those with small acreages at present we'll likely find our leading varieties of 5 to 10 years from now.

Vernal alfalfa provides a good example. When the first trends survey was made in 1957, Vernal accounted for only 3 per cent of the total alfalfa acreage. But State workers who made that report possible predicted that Vernal would expand in use. And they continued to do so. What has happened? Use of Vernal has increased to the point that it accounts for over 22 per cent of the reported acreage last year.

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\* Occasionally, the sum of the acreages by varieties will not equal the totals shown in the tables. This is due to the lack of a complete breakdown by varieties in these instances.

Incidentally, studies on the soundness of the survey also show that the decline in Ranger alfalfa harmonizes quite well with the predictions.

#### Other Uses of the Report

In addition to trend predictions the survey has other uses. For example,

1. It tells us where a particular forage crop is grown and specifies the varieties used by regions and by States.
2. It enables workers in one State to compare their judgment of a variety with the judgment of workers in other States.
3. It identifies the areas where interest is greatest in a given variety.
4. When considered jointly with differences in seed prices among varieties it can reveal unsatisfied markets.

#### ACKNOWLEDGMENTS:

Many people had part in the production of this report. First, there was the extension agronomist in each State who shouldered the responsibility of crystallizing an expression of judgment of the varieties under test or in use on farms in his State. There were the coworkers of these men who together appraised the numerous varieties studied. They came from research, extension, crops reporting, seed trade, crop improvement, regulatory work and other fields concerned with crop improvement. As mentioned earlier, their response to the questionnaire was 100 percent.



# ALFALFA Table 1

## ACREAGES BY VARIETIES - BY STATES AND REGIONS NORTH EASTERN

1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.	TOTAL
ALFA	0.7				0.1	0.1		15.0	10.0		3.0		28.9
ATLANTIC				0.1			52.0	15.0	3.0			7.0	77.1
BLENDS							1.0	5.0	30.0				36.0
BUFFALO	0.1	1.5		3.0			0.5		80.0				85.2
CAYUGA	4.2		1.2	0.1	0.5	0.9	6.0	85.0	30.0		9.0		137.2
CHEROKEE				0.1									0.1
CODY				0.1					1.0				1.1
COMMON				10.0				20.0					30.0
CULVER							1.0		65.0				1.0
DUPUITS	1.5	2.0	1.2	4.0	11.4	0.4	1.0	125.0			6.0	10.0	227.9
GRIMP	5.0	0.2	12.0	2.0	3.0	1.2	1.5	625.0	65.0		41.0	2.0	777.4
NARRAGANSETT				21.3									21.3
OTHER PRIVATE VARIETIES				0.3				100.0	100.0		4.0		204.5
RANGER	0.1			0.1		0.1	0.5	5.0					5.9
SARANAC	0.2			8.0		1.4	24.0	180.0	295.0		22.0	55.0	623.7
VERNAL	24.2	1.0	0.6	31.0	12.0				1.0			18.0	53.5
WILLIAMSBURG		3.5					0.5		20.0				20.8
ALL OTHERS													
TOTAL	36.0	8.2	15.0	80.1	27.0	4.1	88.0	1,175.0	700.0	5.2	85.0	110.0	2,333.6

# ALFALFA Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS

NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
ALFA	26.0	1.0	60.0				5.0			10.0			96.0
BLENDS	75.0	5.0	450.0		100.0	240.0	200.0	40.0	600.0	100.0	55.0	120.0	1,785.0
BUFFALO	50.0	10.0	10.0	1,370.5				90.0		20.0			1,750.5
CALIVERDE	1.0												1.0
CARDINAL	0.2		10.0				3.0			10.0		5.0	28.2
CAYUGA	2.0									10.0			12.0
CHEROKEE										10.0			10.0
CUDY	15.0	0.5		225.0			100.0	10.0		20.0			61.0
COMMON	490.0	75.0	150.0	460.0			135.0	530.0	230.0	20.0	1,175.0	30.0	3,335.0
COSSACK	3.0		10.0					10.0		20.0	245.0	4.0	272.0
CULVER		40.0					1.0			150.0			1,067.0
DUPUITS	95.0	15.0	300.0		100.0	60.0	35.0	15.0	12.0	15.0			85.0
FD 100	17.0	2.0	40.0			10.0	1.0			5.0		2.0	17.0
GLACIER			10.0										
GRIMM	20.0	15.0	25.0		70.0	140.0		5.0	160.0		20.0	8.0	463.0
LADAK			5.0	25.0	1.0	1.0		10.0	260.0		250.0	1.0	553.0
LAHCNTAN	3.0										0.4		3.0
M. FALCATA													0.4
MUAPA	5.0										0.2	0.5	5.0
NARRAGANSETT													0.7
OKLA APPROVED	10.0												10.0
OTHER PRIVATE VARIETIES	5.0	2.0	215.0		15.0	200.0	60.0			150.0		70.5	717.5
PROGRESS	4.0												4.0
RAMBLER													2.0
RANGER	550.0	500.0	350.0		350.0	750.0	60.0	800.0	400.0	75.0	350.0	790.0	4,975.0
RHIZOMA											1.0		2.0
SAKANAC											10.0		10.0
SUNCRA										5.0			5.0
TETCN													0.0
TRAVOIS											7.0		7.0
VERNAL	135.0	140.0	400.0		710.0	850.0	180.0	150.0	480.0	300.0	0.1	85.0	2,676.0
W L 207	1.0												1.0
525	2.0												2.0
ALL OTHERS				2.0	30.0	75.0		151.0				1.0	279.0
TOTAL	1,498.2	805.5	2,035.0	2,082.5	1,306.0	2,326.0	800.0	1,831.0	2,143.8	900.0	2,198.7	4,000.0	22,016.7

# ALFALFA Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS SOUTHERN

1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
AFRICAN												5.5		6.0
ATLANTIC	0.1		0.5	3.0	70.0		4.5	9.0	3.0	0.6	4.5		8.0	102.7
BUFFALO	2.4	26.0		2.0	100.0	3.8	6.0	0.7	35.0	0.8	70.0	8.0	11.0	263.7
CALIVERDE												1.0		1.0
CARDINAL					1.0									1.0
CAYUGA					1.0									1.0
CHEROKEE		0.3			1.0			5.0		0.2				6.5
CHILLIAN 21-5			0.1											0.1
CODY		1.7				1.7	4.0		100.0		1.0	2.0		104.7
COMPON	1.5	2.0		3.0	40.0				12.0	3.0	19.0	263.0	48.0	398.2
CULVER					0.5									0.5
DUPUITS					45.0									45.0
FD 100					22.0			1.5		0.2	5.0		4.0	55.7
GLACIER					0.5						0.2			22.2
GRIMM					1.0									1.0
HAIRY PERUVIAN						0.5								0.5
INDIAN												20.0		22.7
LAHONTAN												8.0		8.0
MOAPA		4.5							4.0			12.0		20.5
NARRAGANSETT	0.1							0.1		0.3	4.5		12.0	119.0
NOMAD				1.0	95.0									1.0
OKLA APPROVED	7.5	5.0			1.0						18.0		4.0	297.0
RANGER		1.5			28.0	9.0	3.5		250.0					37.5
RHIZOMA					0.5									0.5
SONORA												1.0		1.0
VERNAL	0.1	2.2			26.0		3.5	0.1			9.0		5.0	33.4
WILLIAMSBURG	0.4				8.0			1.2					79.0	101.1
ZIA								2.4			1.5			6.0
ALL OTHERS				0.5										4.4
TOTAL	12.1	43.2	2.9	9.5	440.5	15.0	35.5	20.0	404.0	5.1	131.7	335.5	171.0	1,626.0

## ALFALFA Table 1 (Cont.)

ACRES BY VARIETIES - BY STATES AND REGIONS WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	ALASKA	HAWAII	TOTAL
AFRICAN						0.5								25.0
ALFA	13.5	5.0						1.0		20.0				21.0
APHIDCR			1.0					1.0						2.0
ATLANTIC		0.3	1.0								5.0			6.3
BLENDS	33.9	80.0	16.0		86.0		1.7		21.0		125.0			359.6
BUFFALC	0.4	5.0	30.0				2.1		1.8		9.0			48.3
CALIVERDE		30.0												30.0
CARDINAL					0.1			1.0						1.1
CHEROKEE		0.3												0.3
CHILLIAN 21-5	3.5													3.5
CCDY		5.0	12.0			0.3								17.3
COMMON		80.0	220.0		300.0	6.0	69.8	2.0	83.0	15.0	80.0			855.8
COSSACK					18.0	1.8					2.5			22.3
CULVER		0.5												0.5
DUPUITS		3.0	1.0		30.0	2.0		25.0	1.3	50.0	0.1			112.4
FD 100		2.0				2.0		1.0						5.0
GRIMM		2.0			250.0	0.4		30.0	11.0		60.0			353.4
HAIKY PERUVIAN	3.1	1.5												4.6
LADAK		23.0	150.0		95.0	1.0	0.5	65.0	28.0	180.0	56.0			600.3
LAHCNTAN	6.9	310.0	15.0			95.0	12.2	14.0	28.0		0.5			481.1
MEEKER BALTIC			10.0								0.1			10.5
MOAPA	86.7	313.0				6.5	0.1				0.1			408.4
NARRAGANSETT			1.0			1.2		2.0						4.2
NCMAD			1.0		1.2	2.0		20.0			0.1			24.3
NGRSEMAN					0.1									0.1
ORESTAN								30.0						30.0
OTHER PRIVATE VARIETIES	5.1	70.0	5.0											80.1
RAMBLER		4.0			0.6	0.2		1.0			0.1			5.9
RANGER	6.3	70.0	300.0		60.0	43.0	3.3	65.0	318.0	60.0	135.0			1,060.6
RESISTADCR		10.0	1.0			0.3		1.3						12.3
RHIZOMA			1.0			0.4		2.0			0.1			2.5
SONCRA	23.1	125.0				1.2								149.3
TALENT						0.1		17.5						17.6
TETCN						0.2					0.5			0.7
UINTA		45.0	5.0			0.1			0.5					5.6
VERNAL		75.0			125.0	5.0		105.0	6.0	325.0	2.0			688.0
WILLIAMSBURG		0.3				1.0								1.3
ZIA	0.1	1.5					68.2							69.8
ALL OTHERS	4.4					2.0	1.0	1.5						8.9
TOTAL	195.0	1,190.4	845.0		960.2	172.0	158.9	385.5	458.6	650.0	476.0			5,531.6

# ALFALFA Table 2

## CREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

VARIETY	NORTH EASTERN			NORTH CENTRAL		
	ACREAGE		VARIETY	ACREAGE		EXPECTED TREND
	1960-64 AVERAGE	1965		1960-64 AVERAGE	1965	
ALFA	22.5	28.9	ALFA	39.7	96.0	1.1
ATLANTIC	100.7	77.1	BLENDS	1,435.8	1,785.0	8.11
BLENDS	37.4	56.0	BUFFALO	1,979.6	1,750.5	7.95
BUFFALO	212.5	35.2	CALIVERDE	0.8	1.0	*
CAYUGA	33.9	137.2	CARDINAL	1.0	28.2	0.13
CHEROKEE	0.1	0.1	CAYUGA	2.0	12.0	0.05
CODY	1.0	1.1	CHEROKEE	-	10.0	0.05
COMMON	48.6	30.0	CODY	121.4	350.5	1.59
CULVER	0.4	1.0	COMMON	3,814.4	3,335.0	15.15
DUPUIITS	245.6	227.9	COSSACK	333.5	272.0	1.24
GRIMM	10.0	2.0	CULVER	39.3	61.0	0.28
NARRAGANSETT	491.2	777.4	DUPUIITS	665.1	1,067.0	4.85
OTHER PRIVATE VARIETIES	-	21.3	FD 100	34.7	85.0	0.39
RANGER	401.6	204.5	GLACIER	5.0	17.0	0.08
SARANAC	1.9	5.9	GRIMM	901.5	463.0	2.10
VERNAL	436.4	623.7	LADAK	594.6	553.0	2.51
WILLIAMSBURG	59.4	53.5	LAHONTAN	1.0	3.0	0.01
ALL OTHERS	137.7	20.8	M. FALCATA	0.4	0.4	*
TOTAL	2,333.6		MOAPA	7.0	5.0	0.02
			NARRAGANSETT	7.3	0.7	*
			OKLA APPROVED	9.8	10.0	0.05
			OTHER PRIVATE VARIETIES	165.0	717.5	3.26
			PROGRESS	-	4.0	0.02
			RAMBLER	58.9	2.0	0.01
			RANGER	6,352.0	4,975.0	22.60
			RHIZOMA	8.7	10.0	0.05
			SARANAC	-	5.0	0.02
			SUNGRA	0.0	0.0	*
			TETCN	4.0	7.7	0.03
			TRAVOIS	0.1	0.2	*
			VERNAL	4,677.9	6,108.0	27.74
			W L 202	-	1.0	*
			525	-	2.0	0.01
			ALL OTHERS	492.3	279.0	1.27
			TOTAL	22,016.7		1.0

# ALFALFA Table 2 (Cont.)

## ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

### SOUTHERN

VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1960-64 AVERAGE	1965		
AFRICAN	6.2	6.0	0.37	1.0
ATLANTIC	153.3	102.7	6.32	0.9
BUFFALO	290.3	265.7	16.34	1.0
CALIVERDE	1.0	1.0	0.06	1.0
CARDINAL	1.0	1.0	0.06	1.1
CAYUGA	0.5	1.0	0.06	1.0
CHEROKEE	2.6	6.5	0.40	1.1
CHILLIAN 21-5	0.7	0.1	0.01	1.1
CODY	34.6	104.7	6.44	1.2
COMMON	556.0	398.2	24.49	0.9
CULVER	0.5	0.5	0.03	1.0
DUPUITS	50.9	55.7	3.43	1.0
FD 100	13.9	22.2	1.37	1.1
GLACIER	0.5	0.5	0.03	1.0
GRIMM	0.5	1.0	0.06	1.1
HAIRY PERUVIAN	23.9	22.7	1.40	1.0
INDIAN	7.3	8.1	0.50	1.0
LAHONTAN	19.1	20.5	1.26	1.0
MOAPA	4.4	7.0	0.43	1.1
NARRAGANSETT	75.8	119.0	7.32	1.1
OKLA APPROVED	297.7	297.0	18.27	1.1
RANGER	28.6	37.5	2.31	1.2
RHIZOMA	2.3	0.5	0.03	1.1
SONORA	1.0	1.0	0.06	1.0
VERNAL	24.1	33.4	2.05	1.1
WILLIAMSBURG	109.7	101.1	6.22	1.1
ZIA	3.9	6.0	0.37	1.0
ALL OTHERS	19.7	4.4	0.27	0.9
TOTAL		1,626.0		

### WESTERN

VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1960-64 AVERAGE	1965		
AFRICAN	83.0	25.0	0.45	0.9
ALFA	6.2	21.0	0.38	1.1
APHIDOR	1.0	2.0	0.04	1.1
ATLANTIC	7.7	6.3	0.11	1.0
BLENDS	477.6	359.6	6.50	1.1
BUFFALO	95.2	48.3	0.87	0.9
CALIVERDE	40.0	30.0	0.54	1.0
CARDINAL	0.7	1.1	0.02	1.1
CHEROKEE	0.5	0.3	0.01	1.0
CHILLIAN 21-5	18.1	3.5	0.06	0.5
CODY	11.6	17.3	0.31	1.0
COMMON	1,233.4	855.8	15.47	0.9
COSSACK	33.4	22.3	0.40	0.8
CULVER	1.0	0.5	0.01	1.0
DUPUITS	111.4	112.4	2.03	1.1
FD 100	2.5	5.0	0.09	1.1
GRIMM	423.0	353.4	6.39	0.8
HAIRY PERUVIAN	7.3	4.6	0.08	0.9
LADAK	601.0	600.5	10.86	1.0
LAHONTAN	566.8	481.1	8.70	1.0
MEEKER BALTIC	18.8	10.5	0.19	0.8
MOAPA	520.3	408.4	7.38	0.9
NARRAGANSETT	7.0	4.2	0.03	1.0
NOMAD	23.7	24.3	0.44	0.9
NORSEMAN	0.1	0.1	*	1.1
ORESTAN	35.0	30.0	0.54	1.0
OTHER PRIVATE VARIETIES	35.0	80.1	1.45	1.2
RANBLER	25.0	5.9	0.11	1.0
RANGER	944.8	1,060.6	19.17	1.0
RESISTADOR	6.7	12.8	0.23	0.9
RHIZOMA	3.2	3.5	0.06	1.0
SONORA	42.8	149.3	2.70	1.3
TALENT	14.9	17.6	0.32	0.9
TALON	0.6	0.7	0.01	1.0
UINTA	0.7	5.6	0.10	1.2
VERNAL	480.6	688.0	12.44	1.1
WILLIAMSBURG	2.4	1.3	0.02	1.0
ZIA	31.8	69.8	1.26	1.2
ALL OTHERS	29.4	8.9	0.16	1.0
TOTAL		5,531.6		

TOTAL

# ALFALFA Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.  
A C R E A G E

VARIETY	1960-64		1965		TOTAL		EXPECTED REPORTING		RECOMMENDING	
	AVERAGE		AVERAGE		ACREAGE		TRENDS		NO.	
	1960-64	1965	1960-64	1965	PERCENT	PERCENT	NO.	NO.	NO.	NO.
VERNAL	5,619.0	7,453.1	23.65	1.1	36	35				
RANGER	7,767.0	6,277.6	19.92	0.9	30	21				
COMMON	5,652.4	4,619.0	14.66	0.9	32	5				
BLENDS	1,950.8	2,180.6	6.92	1.0	20	-				
BUFFALO	2,577.6	2,149.7	6.82	1.0	31	23				
DUPUITS	1,071.0	1,463.0	4.64	1.0	35	26				
LADAK	1,195.6	1,153.5	3.66	1.0	17	13				
NARRAGANSETT	581.5	901.3	2.86	1.0	26	24				
GRIMM	1,335.0	819.4	2.60	0.9	17	4				
OTHER PRIVATE VARIETIES	200.0	818.9	2.60	1.2	12	-				
LAHONTAN	586.9	504.6	1.60	1.0	11	8				
CODY	168.6	473.6	1.50	1.2	16	11				
MOAPA	531.7	420.4	1.33	0.9	8	5				
ALL OTHERS	679.1	313.1	0.99	1.0	15	2				
UKLA APPROVED	307.5	307.0	0.97	1.1	8	3				
COSSACK	366.9	294.3	0.93	1.0	9	3				
ATLANTIC	261.7	186.1	0.59	0.9	17	13				
WILLIAMSBURG	171.5	153.9	0.49	1.0	12	10				
SONORA	43.8	150.3	0.48	1.3	5	5				
CAYUGA	36.4	150.2	0.48	1.1	15	13				
ALFA	68.4	145.9	0.46	1.1	13	11				
FD 100	51.1	112.2	0.36	1.1	11	5				
ZIA	35.7	75.8	0.24	1.2	4	3				
CULVER	41.2	63.0	0.20	1.0	6	3				
CALIVERDE	41.8	32.0	0.10	1.0	3	1				
AFRICAN	89.2	31.0	0.10	0.9	5	2				
CARDINAL	2.7	30.3	0.10	1.1	8	1				
GRESTAN	35.0	30.0	0.10	1.0	1	1				
HAIRY, PERUVIAN	31.2	27.3	0.09	1.0	5	3				
NOMAD	23.7	25.3	0.08	0.9	6	2				
TALENT	14.9	17.6	0.06	0.9	2	2				
GLACIER	5.5	17.5	0.06	1.2	4	-				
CHEROKEE	3.2	16.9	0.05	1.0	7	4				
RHIZOMA	14.2	14.0	0.04	1.1	6	4				
RESISTADOR	6.7	12.8	0.04	0.9	4	1				
SARANAC	1.9	10.9	0.03	1.1	8	6				
MEEKER BALTIC	18.8	10.5	0.03	0.8	2	1				
TETON	4.6	8.4	0.03	1.1	4	2				
INDIAN	7.3	8.1	0.03	1.0	2	2				
RAMBLER	83.9	7.9	0.03	1.0	7	4				
UINTA	0.7	5.6	0.02	1.2	3	2				
PROGRESS	-	4.0	0.01	1.2	1	1				
CHILLIAN 21-5	18.8	3.6	0.01	0.9	2	1				
525	-	2.0	0.01	1.2	1	1				
APHIDUR	1.0	2.0	0.01	1.1	1	1				
W L 202	-	1.0	*	1.3	1	1				
M. FALCATA	0.4	0.4	*	1.2	1	1				
TRAVOIS	0.1	0.2	*	1.4	2	2				
NORSEMAN	-	0.1	*	1.7	1	1				
TOTAL		31,507.9								

# RED CLOVER Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS NORTH EASTERN

1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.	TOTAL
CHESAPEAKE	0.4	9.0		60.0			15.0		8.0				92.4
COMMON	1.3	4.0	21.0	159.0			1.0	350.0			7.5		543.8
DOLLARD	0.2		0.5		0.1	0.1		5.0					6.4
KENLAND	0.4	0.5		25.0	0.5		3.0						29.4
LAKELAND	0.1					1.5				0.4			2.0
MAPPOTH			18.0					20.0					38.0
PENNSCOTT	7.6	10.0	3.0	6.0	9.4	1.9	20.0	125.0		4.0	2.0		188.9
ALL OTHERS					3.2	3.2				0.1			3.3
TOTAL	10.0	23.5	42.5	250.0	10.0	6.7	39.0	500.0	8.0	4.5	10.0		904.2

NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	MISC.	TOTAL
COMMON	550.0	570.0	840.0	20.0	350.0	300.0	225.0	160.0	0.5	1,200.0	0.9	689.0	4,905.4
DOLLARD	1.0		25.0		15.0	40.0			0.7	15.0	0.2	125.0	221.9
KENLAND	8.0	80.0	100.0	2.0	5.0		375.0	20.0	0.1	200.0			790.1
LAKELAND	1.0	5.0	10.0		2.0	10.0			0.6	100.0	0.1	75.0	203.7
MAPPOTH	50.0	165.0			30.0			15.0					245.0
MIDLAND													15.0
NGLIN S			25.0						0.3				0.3
PENNSCOTT		10.0			10.0					55.0			90.0
ALL OTHERS										30.0		1.0	41.0
TOTAL	610.0	830.0	1,000.0	22.0	412.0	350.0	600.0	195.0	2.2	1,600.0	1.2	890.0	6,512.4



# RED CLOVER Table 1 (Cont.)

## ACREAGES BY VARIETIES - BY STATES AND REGIONS SOUTHERN

1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
CHESAPEAKE			0.1		4.0			4.0					83.0	91.1
COMMON					120.0	0.8	3.5	11.0			60.0		47.0	242.3
KENLAND	0.3	20.0	0.6	3.5	340.0	2.0		14.0	0.1		180.0	0.5	214.0	775.0
LAKELAND														0.0
MAMMOTH			0.2			0.9								1.1
ORBIT			0.1				6.5							6.6
PENNSCOTT			0.1			0.5	2.5				2.0		4.0	6.1
PORT GIBSON						1.2			0.1		1.0	0.7		3.0
TENSAS			0.4					4.0			1.0	0.4	136.0	2.4
ALL OTHERS														141.4
TOTAL	0.3	20.0	1.5	3.5	464.0	5.4	12.5	33.0	0.2		243.0	1.6	484.0	1,269.0

## WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	COLOR.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	ALASKA	HAWAII	TOTAL
CHESAPEAKE		1.0				0.5								1.5
COMMON		78.0	10.0		125.0	5.0		25.0	80.0	60.0				303.0
DOLLARD			0.5			0.5		1.0			0.5			2.5
KENLAND		60.0	1.0		50.0	0.8		65.0	19.0	130.0	0.5			326.3
LAKELAND		12.0			0.1	0.5		1.0		65.0	0.1			78.7
MAMMOTH			1.1											1.1
PENNSCOTT			2.5			0.3		8.0		70.0	0.5			81.3
ALL OTHERS			4.9			0.4								5.3
TOTAL	151.0	151.0	20.0		175.1	8.0		100.0	99.0	325.0	1.6			879.7

## RED CLOVER Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

VARIETY	NORTH EASTERN				NORTH CENTRAL			
	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1960-64 AVERAGE	1965			1960-64 AVERAGE	1965		
	1000 ACRES				1000 ACRES			
CHESAPEAKE	49.5	92.4	10.22	1.1	5,235.9	4,905.4	75.32	1.0
COMMON	887.6	543.8	60.14	1.0	254.8	221.9	3.41	0.9
DOLLARD	13.2	6.4	0.71	1.0	849.9	790.1	12.13	1.0
KENLAND	78.7	29.4	3.25	0.9	147.9	203.7	3.13	1.0
LAKELAND	1.0	2.0	0.22	1.0	474.7	245.0	3.76	0.9
MAMMOTH	59.2	38.0	4.20	1.0	12.0	15.0	0.23	1.0
PENNSCOTT	679.1	188.9	20.89	1.0	-	0.3	*	1.0
TENSAS	153.3	3.3	0.36	1.0	132.9	90.0	1.38	0.9
ALL OTHERS					37.3	41.0	0.63	1.0
TOTAL		904.2				6,512.4		
	SOUTHERN				WESTERN			
	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1960-64 AVERAGE	1965			1960-64 AVERAGE	1965		
	1000 ACRES				1000 ACRES			
CHESAPEAKE	59.7	91.1	7.18	1.1	0.6	1.5	0.17	1.1
COMMON	365.5	242.3	19.09	1.0	395.8	383.0	43.54	0.9
KENLAND	773.2	775.0	61.07	1.2	9.0	2.5	0.28	1.0
LAKELAND	0.0	0.0	*	0.0	380.0	326.3	37.09	0.9
NOLIN S	1.6	1.1	0.09	1.1	29.3	78.7	8.95	1.1
ORBIT	1.3	6.6	0.52	1.2	1.0	1.1	0.13	1.1
PENNSCOTT	4.7	6.1	0.48	1.1	77.7	81.3	9.24	1.1
PORT GIBSON	12.7	3.0	0.24	1.0	8.9	5.3	0.60	1.0
TENSAS	2.5	2.4	0.19	1.1				
ALL OTHERS	3.0	141.4	11.14	1.1				
TOTAL		1,269.0				879.7		
	TOTAL				TOTAL			

# RED CLOVER Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.  
ACREAGE

VARIETY	1960-64		1965		S T A T E S		
	AVERAGE				TOTAL	EXPECTED REPORTING	RECOMMENDING
				TREND	ACREAGE	NO.	NO.
COMMON	6,884.8	6,074.5	63.51	1.0	32	32	13
KENLAND	2,081.8	1,920.8	20.08	1.1	35	35	29
PENNSCOIT	894.4	366.3	3.83	1.0	23	23	23
LAKELAND	178.2	284.4	2.97	1.1	22	22	20
MAMMOTH	534.9	284.1	2.97	0.9	6	6	2
DOLLARD	317.0	230.8	2.41	0.9	18	18	15
ALL OTHERS	202.5	191.0	2.00	1.1	11	11	1
CHESAPEAKE	109.8	185.0	1.93	1.1	12	12	10
MIDLAND	12.0	15.0	0.16	1.0	1	1	1
ORBIT	1.3	6.6	0.07	1.2	3	3	3
PORT GIBSON	12.7	3.0	0.03	1.0	2	2	2
TENSAS	2.5	2.4	0.03	1.1	4	4	3
NOLIN S	1.6	1.4	0.01	1.1	3	3	2
TOTAL		9,565.3					

# WHITE CLOVER Table 1

## ACREAGES BY VARIETIES - BY STATES AND REGIONS

1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.	TOTAL
ALL OTHER										2.5	40.0		2.5
CERT. OREGON-CAL.				15.0	2.0								40.0
CGMPON	5.0	35.0	18.0	135.0	18.0	2.8	30.0	75.0	80.0	4.0			17.0
LADING							10.0						402.8
PILGRIM													10.0
TOTAL	5.0	35.0	18.0	150.0	20.0	2.8	40.0	75.0	80.0	6.5	40.0		472.3

## NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
ALL OTHER						200.0							200.0
CERT. OREGON-CAL.	450.0							2.5		100.0			450.0
CGMPON	25.0	100.0	49.0		175.0		480.0	7.5		400.0		600.0	102.5
LADING	25.0	3.0	1.0										1,836.5
MERIT													29.0
PILGRIM													0.0
TOTAL	500.0	103.0	50.0		175.0	200.0	480.0	10.0		500.0		600.0	2,618.0

# WHITE CLOVER Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS SOUTHERN

1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
ALALU	10.0					25.0					8.0			18.0
ALL OTHER	350.0													375.0
CERT. CREGON-CAL.								20.0						20.0
COMMON		900.0			300.0	260.0	1,500.0	200.0	10.0	35.0	50.0	45.0	2,600.0	5,900.0
ESPANSU										0.4				0.4
LA. S-1	60.0	80.0	32.0	28.0		280.0	300.0		5.0	20.0	10.0	80.0		895.0
LA. WHITE	250.0	90.0	3.0	350.0	30.0					15.0	600.0	80.0		1,418.0
LADINO	90.0	380.0	4.8	35.0	570.0	10.0	810.0		6.0	75.0	130.0		900.0	3,010.8
NGLING			21.0			40.0	250.0		1.0	10.0				321.0
PILGRIM														1.0
REGAL	8.0						10.0			0.1	0.1			18.2
TOTAL	768.0	1,450.0	60.8	413.0	900.0	615.0	2,060.0	1,030.0	22.0	155.5	798.1	205.0	3,500.0	11,977.4

WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYU.	ALASKA	HAWAII	TOTAL
ALALU	0.1													0.1
ALL OTHER		4.0	4.0			10.0								18.0
CERT. CREGON-CAL.			1.0											1.0
COMMON			10.0			12.0	0.1	38.0	140.0					200.1
LADINO	0.5	710.0	5.0			6.0	0.1	50.0	38.0	50.0	0.5			860.1
MERIT		0.7												0.7
NEW ZEALAND		5.0						42.0		120.0				167.0
PILGRIM								3.5		5.0				8.5
TOTAL	0.6	719.7	20.0			28.0	0.2	133.5	178.0	175.0	0.5			1,255.5



# WHITE CLOVER Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.  
ACREAGE

VARIETY	ACREAGE		TOTAL ACREAGE PERCENT	EXPECTED TREND	S T A T E S	
	1960-64 AVERAGE	1965			NO.	NO.
COMMON	3,786.6	6,219.6	38.10	1.0	20	10
LADING	7,202.5	6,110.2	37.43	1.0	38	31
LA. WHITE	1,704.8	1,418.0	8.69	1.0	8	3
LA. S-1	510.5	895.0	5.48	1.2	10	8
ALL OTHER	607.3	595.5	3.65	0.9	7	-
CERT. OREGON-CAL.	80.0	511.0	3.13	0.9	7	7
NOLIN S	57.7	321.0	1.97	1.0	4	3
NEW ZEALAND	106.2	167.0	1.02	1.0	3	2
MERIT	0.6	29.7	0.18	1.2	4	3
PILGRIM	30.5	19.5	0.12	1.0	6	4
REGAL	4.0	18.2	0.11	1.2	4	3
ALALU	40.8	18.1	0.11	0.8	3	-
ESPANSO	-	0.4	*	1.2	1	1
TOTAL		16,323.2				

# SWEET CLOVER Table 1

## ACREAGES BY VARIETIES - BY STATES AND REGIONS

1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.	TOTAL
COMMON				2.0	0.2		0.2						2.4
TOTAL				2.0	0.2		0.2						2.4

## NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
COMMON	510.0	210.0	200.0	75.0	80.0		90.0	430.0	150.0	190.0	225.0	9.5	2,169.5
DENTA									0.5	10.0	0.1		10.6
EVERGREEN								9.5	9.0	30.0			49.5
GOLDTOP		1.0							3.0		0.4		3.4
HUBAM	1.0		20.0							5.0	0.3		26.3
MADRID	30.0	2.0	80.0	550.0			80.0	25.0	140.0		3.0	0.5	910.5
SPANISH													0.0
ALL OTHERS				5.0				23.5		25.0			53.5
TOTAL	541.0	213.0	300.0	630.0	80.0		170.0	488.0	302.5	260.0	228.8	10.0	3,223.3



# SWEET CLOVER Table 1 (Cont.)

## SOUTHERN

VARIETY	1000 ACRES														TOTAL
	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL	
COMMON					50.0	1.5		0.5	40.0					92.0	
EVERGREEN					20.0				3.0					23.0	
FLORANA						0.5						15.0		21.0	
HUBAH		1.0	5.5	0.5		10.0	1.5	1.0	1.0			160.0		184.0	
ISRAEL			0.1									5.0		5.1	
MADRID		3.0						1.0	20.0			10.0		33.0	
ALL OTHERS														1.0	
TOTAL	4.0	4.0	15.6	0.5	70.0	12.0	3.0	64.0	190.0					359.1	

## WESTERN

VARIETY	1000 ACRES														TOTAL
	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	ALASKA	HAWAII	TOTAL	
COMMON	0.8	5.0	80.0		70.0	5.0	0.1		15.0		150.0			325.8	
EVERGREEN														0.1	
GOLDTOP						0.5					0.4			0.9	
HUBAH	0.2		10.0		5.0	0.5	0.1		2.0					17.8	
MADRID			0.5		3.0				0.3		0.5			4.3	
ALL OTHERS			9.0			0.5								9.5	
TOTAL	1.0	5.0	100.0		78.0	6.0	0.2	17.3	150.9					358.4	



# SWEET CLOVER Table 3

## ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S. ACREAGE

VARIETY	1960-64		1965		TOTAL ACREAGE PERCENT	EXPECTED TREND	S T A T E S	
	AVERAGE			1965			NO.	NO.
COMMON	2,121.8		2,589.7		65.68	1.0	25	10
MADRID	1,000.7		947.8		24.04	1.0	18	15
HUBAM	285.6		228.1		5.78	1.0	17	11
EVERGREEN	51.0		72.6		1.84	1.0	9	6
ALL OTHERS	95.4		64.0		1.62	1.0	6	-
FLORANA	42.6		21.0		0.53	0.9	3	3
DENTA	10.6		10.6		0.27	1.0	5	3
ISRAEL	5.0		5.1		0.13	1.0	2	2
GOLDTOP	6.5		4.3		0.11	1.0	7	7
SPANISH	8.9		0.0		*	0.0	1	1
TOTAL			3,943.2					

# CRIMSON CLOVER Table 1

## ACREAGES BY VARIETIES - BY STATES AND REGIONS

### NORTH EASTERN

#### 1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.	TOTAL
COMMON	8.0	8.0		12.0			0.5					4.0	24.5
TOTAL				12.0			0.5					4.0	24.5

### NORTH CENTRAL

#### 1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
DIXIE	1.0						1.0						1.0
ALL OTHERS	1.0						1.0						1.0
TOTAL							1.0						2.0

### SOUTHERN

#### 1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
ALLEN	12.0		0.1	1.5		9.0			0.2	0.2		0.4		1.5
AUBURN	140.0		0.1	0.5		5.0	15.0			0.6		40.0		23.4
AUTAUGA				1.5		1.5	4.5		0.1		0.5			201.2
CHIEF		1.5			2.0	15.0	6.0	45.0	1.5	2.0		8.5		9.6
COMMON	45.0	3.0	1.0	42.0		9.5	3.0							394.3
DIXIE	7.0	94.0		155.0										280.5
FRONTIER	0.5													0.5
TALLADEGA	20.0		0.1			15.0	12.0			15.5		14.0		46.1
ALL OTHERS														30.5
TOTAL	224.5	98.5	1.3	202.0	2.0	55.0	37.5	48.0	1.8	18.3	36.0	62.9	200.0	987.8

### WESTERN

#### 1000 ACRES

VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	ALASKA	HAWAII	TOTAL
COMMON		110.0						12.0						122.0
DIXIE								5.0						5.0
ALL OTHERS		10.0												10.0
TOTAL		120.0						17.0						137.0

# CRIMSON CLOVER Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

VARIETY	NORTH EASTERN			NORTH CENTRAL		
	ACREAGE		PERCENT OF TOTAL ACREAGE	ACREAGE		PERCENT OF TOTAL ACREAGE
	1960-64 AVERAGE	1965		1960-64 AVERAGE	1965	
COMMON	29.6	24.5	*	1.0	1.0	50.00
TOTAL	24.5			1.0	1.0	50.00
						TOTAL
						2.0

VARIETY	SOUTHERN			WESTERN		
	ACREAGE		PERCENT OF TOTAL ACREAGE	ACREAGE		PERCENT OF TOTAL ACREAGE
	1960-64 AVERAGE	1965		1960-64 AVERAGE	1965	
ALLEN	1.2	1.5	0.15	1.0	1.0	89.05
AUBURN	25.4	23.4	2.37	0.9	1.0	3.65
AUTAUGA	168.2	201.2	20.37	1.1	5.0	7.30
CHIEF	3.7	9.6	0.97	1.1	10.0	
COMMON	524.6	394.5	39.94	1.0	137.0	
DIXIE	385.3	280.5	28.40	1.0		
FRONTIER	3.1	0.5	0.05	1.0		
TALLADEGA	41.5	46.1	4.67	1.0		
ALL OTHERS	156.1	30.5	3.09	1.0		
TOTAL						987.8

# CRIMSON CLOVER Table 3

VARIETY	ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S. A C R E A G E		S T A T E S			
	1960-64	1965	TOTAL ACREAGE EXPECTED REPORTING RECOMMENDING		T R E N D	
	AVERAGE		PERCENT	TREND	NO.	NO.
COMMON	660.7	541.0	46.99	1.0	17	11
DIXIE	401.7	286.5	24.88	1.0	12	12
AUTAUGA	168.2	201.2	17.48	1.1	7	7
TALLADEGA	41.5	46.1	4.00	1.0	4	4
ALL OTHERS	165.1	41.5	3.60	1.0	4	1
AUBURN	25.4	23.4	2.03	0.9	7	6
CHIEF	3.7	9.6	0.83	1.1	6	5
ALLEN	1.2	1.5	0.13	1.0	1	1
FRONTIER	3.1	0.5	0.04	1.0	1	1
TOTAL		1,151.3				

# VETCH Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS NORTH EASTERN

1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.	TOTAL
COMMON				1.0									1.0
HAIKY	0.4	5.0		8.0		0.1	2.0			0.1			15.6
TOTAL	0.4	5.0		9.0		0.1	2.0			0.1			16.6

NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
COMMON						0.1				3.0			3.1
HAIKY	8.0	5.0		25.0	20.0	0.5	80.0	50.0	0.2	2.0			135.7
MADISON									0.2				50.2
TOTAL	8.0	5.0		25.0	20.0	0.6	80.0	50.0	0.4	5.0			194.0

SOUTHERN

1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
COMMON	2.0		2.0		8.0	40.0	15.0	0.5	5.0			10.0		67.5
HAIKY	200.0	220.0	2.0	12.0	12.0	60.0	15.0	5.0	40.0	7.5	25.0	300.0		898.5
LANA												55.0		55.0
MADISON									0.5					0.5
WARRIOR	17.0			0.2						0.5		7.0		17.7
WILLAPETTE	67.0			4.0										78.0
WOOLY PCD	1.0											2.0		3.0
ALL OTHERS						65.0								65.0
TOTAL	287.0	220.0	4.0	16.2	20.0	165.0	15.0	5.5	45.5	8.0	25.0	374.0		1,185.2

WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	ALASKA	HAWAII	TOTAL
COMMON			1.0											21.1
HAIKY		20.0	0.5					20.0	0.1	45.0				67.6
LANA		25.0												25.0
MADISON														0.5
PURPLE														100.0
WILLAMETTE		100.0						15.0						15.0
WOOLY PCD		10.0												10.0
TOTAL		157.0	2.0					35.0	0.2	45.0				239.2

# VETCH Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

VARIETY	NORTH EASTERN			NORTH CENTRAL			
	ACREAGE		VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1960-64 AVERAGE	1965		1960-64 AVERAGE	1965		
COMMON	3.9	1.0	COMMON	7.6	8.1	4.18	1.0
HAIRY	12.3	15.6	HAIRY	277.0	135.7	69.95	1.1
			MADISON	66.8	50.2	25.88	1.0
TOTAL		16.6					
			TOTAL		194.0		
VARIETY	SOUTHERN			WESTERN			
	ACREAGE		VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1960-64 AVERAGE	1965		1960-64 AVERAGE	1965		
COMMON	90.4	67.5	COMMON	20.7	21.1	8.82	1.0
HAIRY	1,003.0	898.5	HAIRY	85.9	67.6	28.26	1.0
LANA	23.1	55.0	LANA	11.4	25.0	10.45	1.1
MADISON	0.9	0.5	MADISON	0.7	0.5	0.21	1.0
WARRIOR	14.8	17.7	PURPLE	98.0	100.0	41.81	1.0
WILLAMETTE	106.5	78.0	WILLAMETTE	25.0	15.0	6.27	0.9
WOOLY POD	2.6	3.0	WOOLY POD	9.0	10.0	4.18	1.0
ALL OTHERS	64.1	65.0					
TOTAL		1,185.2	TOTAL		239.2		



# VETCH Table 3

## ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S. A C R E A G E

VARIETY	1960-64		1965	S T A T E S		
	AVERAGE			TOTAL ACREAGE	EXPECTED TREND	REPORTING NO.
HAIRY	1,378.2		1,117.4	68.34	31	23
PURPLE	98.0		100.0	6.12	1	1
COMMON	122.6		97.7	5.98	14	6
WILLAMETTE	131.5		93.0	5.69	4	4
LANA	34.5		80.0	4.89	2	2
ALL OTHERS	64.1		65.0	3.98	1	-
MADISON	68.4		51.2	3.13	4	3
WARRIOR	14.8		17.7	1.08	3	2
WOOLY PGD	11.6		13.0	0.80	4	4
TOTAL			1,635.0			

# BIRDFOOT TREFOIL Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS

NORTH EASTERN

1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.	TOTAL
CASCADE							0.1						0.1
COMMON		2.0					0.2						2.2
EMPIRE	1.0		0.2	0.3		0.1	0.5	200.0	20.0	0.1	20.0	1.2	243.4
GRANGER							0.5						0.5
IMPORTED	1.0						0.5	200.0		0.1			201.6
MANSFIELD	1.2	0.2	1.2	0.1		0.1	0.2	15.0				1.2	19.2
N-DAK. SELECTION											25.0		25.0
VIKING	1.3	0.2	0.7	0.3		0.1	1.0	310.0		0.1	5.0	1.2	319.2
ALL OTHERS													0.7
TOTAL	4.5	2.4	2.1	0.7		0.3	3.0	725.0	20.0	0.3	50.0	3.6	811.9

NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N-DAK.	OHIO	S-DAK.	WISC.	TOTAL
COMMON					22.0			1.0		25.0			48.0
EMPIRE	35.0	3.0	250.0		1.0	15.0	4.5	8.7		25.0	0.6	0.7	343.5
IMPORTED		2.0						2.2		100.0			104.2
MANSFIELD					10.0			0.1		50.0			64.1
VIKING	2.0	2.0				2.0	0.5						4.5
ALL OTHERS													
TOTAL	37.0	7.0	250.0		33.0	17.0	5.0	12.0	20.0	200.0	0.6	0.7	562.3

# BIRDSFOOT TREFOIL Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS														
1000 ACRES														
VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
COMMON					2.0									2.0
DOUGLAS							0.2							0.2
EMPIRE					2.0									2.0
GRANGER							0.2				0.1			0.2
ALL OTHERS									0.1					0.1
TOTAL					4.0		0.4				0.1			4.5
WESTERN														
1000 ACRES														
VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	ALASKA	HAWAII	TOTAL
BEAVER								3.1		10.0				13.1
CASCADE		5.0						2.0	0.2	15.0				22.2
COMMON	1.3	400.0						2.0	0.1					403.4
DOUGLAS								8.0						8.0
EMPIRE		5.0	0.5		0.7	0.4		1.0						7.6
GRANGER			0.5					7.0						7.0
IMPORTED								1.0						1.0
MANSFIELD		1.0	0.5											1.5
TANA					0.1									0.1
VIKING			0.5		0.4	0.1								0.6
ALL OTHERS						0.1								0.5
TOTAL	1.3	411.0	2.0		1.2	0.6		24.1	0.3	25.0				465.5

# BIRDSFOOT TREFOIL Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

VARIETY	NORTH EASTERN				NORTH CENTRAL			
	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1960-64 AVERAGE	1965			1960-64 AVERAGE	1965		
	1000 ACRES				1000 ACRES			
CASCADE	0.1	0.1	0.01	1.0	209.7	48.0	8.54	1.0
COMMON	185.7	2.2	0.27	1.2	245.3	343.5	61.09	1.1
EMPIRE	171.1	243.4	29.98	1.0	1.0	104.2	18.53	1.0
GRANGER	0.2	0.5	0.06	1.0	0.0	0.0	*	0.0
IMPORTED	134.6	201.6	24.83	1.0	66.4	64.1	11.40	1.0
MANSFIELD	24.5	19.2	2.36	1.0	11.5	2.5	0.44	1.0
N. DAK. SELECTION	-	25.0	3.08	1.1				
VIKING	234.0	319.2	39.32	1.0				
ALL OTHERS	0.1	0.7	0.09	0.9				
	TOTAL				TOTAL			
						562.3		
	811.9							
VARIETY	SOUTHERN				WESTERN			
	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1960-64 AVERAGE	1965			1960-64 AVERAGE	1965		
	1000 ACRES				1000 ACRES			
COMMON	3.9	2.0	44.44	1.0	8.7	13.1	2.81	1.0
DOUGLAS	0.2	0.2	4.44	1.0	16.3	22.2	4.77	1.0
EMPIRE	1.2	2.0	44.44	1.1	403.4	403.4	86.66	1.0
GRANGER	0.8	0.2	4.44	1.0	10.5	8.0	1.72	0.9
ALL OTHERS	0.1	0.1	2.22	1.1	7.4	7.6	1.63	1.0
	TOTAL				7.4	7.5	1.61	1.0
					2.0	1.0	0.21	0.9
	4.5				1.0	1.5	0.32	1.0
					0.1	0.1	0.02	1.0
					0.9	0.6	0.13	1.1
					-	0.5	0.11	1.2
	TOTAL				TOTAL			
						465.5		

# BIRDSFOOT TREFOIL Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.  
ACREAGE

VARIETY	1960-64		1965		S T A T E S			
	AVERAGE				TOTAL ACREAGE	EXPECTED TREND	REPORTING NG.	RECOMMENDING NO.
EMPIRE	425.0		596.5		32.34	1.1	27	23
COMMON	801.7		455.6		24.70	1.0	10	4
VIKING	301.3		383.9		20.82	1.0	19	17
IMPORTED	137.6		306.8		16.64	1.0	10	3
N.DAK. SELECTION	-		25.0		1.36	1.1	1	-
CASCADE	16.4		22.3		1.21	1.0	5	5
MANSFIELD	25.5		20.7		1.12	1.0	14	14
BEAVER	8.7		13.1		0.71	1.0	2	2
DOUGLAS	10.7		8.2		0.44	0.9	2	2
GRANGER	8.4		8.2		0.44	1.0	5	5
ALL OTHERS	11.7		3.8		0.21	1.0	6	-
TANA	0.1		0.1		0.01	1.7	1	1
TOTAL			1,844.2					

# BROMEGRASS Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS													
1000 ACRES													
VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.	TOTAL
NORTH EASTERN													
ACHENBACH	0.4												0.4
COMMON NORTHERN									0.5				0.5
COMMON SOUTHERN							30.0	50.0	19.5		22.0		124.5
ELSBERRY			3.0										0.0
FISCHER													0.0
LANCASTER	4.2	0.5	3.5	3.0	0.5	0.4	12.0	100.0	3.5	0.8	22.0		152.4
LINCOLN					2.5								0.5
MANCHAR													0.0
SAC													0.0
SARATUGA	0.4		5.0	1.5	1.0	0.3	2.0	100.0	10.0	0.3	6.0		125.0
ALL OTHERS			1.5		0.1	0.1							1.6
TOTAL	5.0	0.5	10.0	6.0	4.0	0.8	44.0	250.0	33.5	1.1	50.0		404.9
NORTH CENTRAL													
1000 ACRES													
VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
NORTH CENTRAL													
ACHENBACH	4.0	1.0		1,600.0			190.0		10.0	50.0	10.0	9.8	1,874.8
COMMON NORTHERN	6.0	12.0			200.0	125.0		4.0	820.0		150.0	1,275.0	2,592.0
COMMON SOUTHERN	50.0	55.0			215.0	375.0		17.0	140.0	500.0	80.0	250.0	1,682.0
ELSBERRY							3.0			20.0			23.0
FISCHER			50.0				3.0		3.0		10.0		66.0
HOMESTEADER									1.0		70.0		71.0
LANCASTER								8.0	2.0	15.0	10.0		35.0
LINCOLN	160.0	30.0	500.0		25.0	1,000.0	15.0	50.0	530.0	70.0	200.0	10.0	2,590.0
LYON								2.0					2.0
MANCHAR									3.0			4.7	7.7
SAC									1.0			0.5	1.5
SARATUGA							2.0			15.0			17.0
SOUTHLAND				80.0			100.0		5.0	10.0			195.0
ALL OTHERS								19.0		20.0			39.0
TOTAL	220.0	98.0	550.0	1,680.0	440.0	1,500.0	313.0	100.0	1,515.0	700.0	530.0	1,550.0	9,196.0

# BROMEGRASS Table 1 (Cont.)

## ACREAGES BY VARIETIES - BY STATES AND REGIONS

VARIETY	1000 ACRES													TOTAL
	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	
ACHENBACH					18.0				1.5			0.5		20.0
COMMON SOUTHERN					18.0							0.4	1.0	1.0
LINCOLN		11.0			37.0			6.5				0.7		18.4
SOUTHLAND														55.2
TOTAL		11.0			73.0			8.0				1.6	1.0	94.6

VARIETY	1000 ACRES													TOTAL
	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	ALASKA	HAWAII	
ACHENBACH			25.0			2.0	0.1		0.3		0.1			27.5
COMMON NORTHERN			10.0	20.0	45.0			7.0						82.0
COMMON SOUTHERN			50.0				0.1		69.0		50.0			169.1
LANCASTER			4.0											4.0
LINCOLN		15.0	25.0		15.0	2.0		1.0		12.0	20.0			90.0
LYON			25.0											25.0
MANCHAR			10.0	20.0	4.0	3.0		7.0	6.0	290.0	25.0			365.0
SAC		1.5	1.0							5.0				0.0
SARATOGA														7.5
SOUTHLAND						3.0								0.0
ALL OTHERS														3.0
TOTAL	16.5	150.0	40.0	64.0	10.0	0.2	15.0	75.3	307.0	95.1				773.1

56 **BROMEGRASS Table 2**

ACREAGES BY VARIETIES, EXPECTED TRENDS -- BY REGIONS

**NORTH EASTERN**

VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1960-64 AVERAGE	1965		
	1000 ACRES			
ACHENBACH	1.3	0.4	0.10	0.8
COMMON NORTHERN	18.2	0.5	0.12	1.0
COMMON SOUTHERN	101.1	124.5	30.75	1.0
ELSBERRY	2.6	0.0	*	0.0
FISCHER	-	0.0	*	0.0
LANCASTER	0.1	0.5	0.12	1.0
LINCOLN	223.6	152.4	37.64	1.0
MANCHAR	0.0	0.0	*	0.0
SAC	-	0.0	*	0.0
SARATOGA	64.8	125.0	30.87	1.0
ALL OTHERS	1.0	1.6	0.40	0.9
<b>TOTAL</b>	<b>404.9</b>			

**NORTH CENTRAL**

VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1960-64 AVERAGE	1965		
	1000 ACRES			
ACHENBACH	1,801.4	1,874.8	20.39	1.1
COMMON NORTHERN	2,192.4	2,592.0	28.19	1.0
COMMON SOUTHERN	2,022.6	1,682.0	18.29	0.9
ELSBERRY	38.5	23.0	0.25	1.0
FISCHER	106.4	66.0	0.72	1.0
HOMESTEADER	100.6	71.0	0.77	0.9
LANCASTER	52.5	35.0	0.38	1.0
LINCOLN	2,573.9	2,590.0	28.16	1.0
LYON	49.6	2.0	0.02	1.0
MANCHAR	19.3	7.7	0.08	0.9
SAC	1.1	1.5	0.02	1.1
SARATOGA	8.2	17.0	0.18	1.0
SOUTHLAND	104.8	195.0	2.12	1.2
ALL OTHERS	270.3	39.0	0.42	1.0
<b>TOTAL</b>	<b>9,196.0</b>			

**SOUTHERN**

VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1960-64 AVERAGE	1965		
	1000 ACRES			
ACHENBACH	16.0	20.0	21.14	1.0
COMMON SOUTHERN	6.6	1.0	1.06	1.0
LINCOLN	12.4	18.4	19.45	1.0
SOUTHLAND	30.1	55.2	58.35	1.1
<b>TOTAL</b>	<b>94.6</b>			

**WESTERN**

VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1960-64 AVERAGE	1965		
	1000 ACRES			
ACHENBACH	28.2	27.5	3.56	1.0
COMMON NORTHERN	77.4	82.0	10.61	1.0
COMMON SOUTHERN	129.1	169.1	21.87	1.0
LANCASTER	3.0	4.0	0.52	1.0
LINCOLN	95.2	90.0	11.64	1.0
LYON	23.0	25.0	3.23	1.0
MANCHAR	365.7	365.0	47.21	0.9
SAC	0.0	0.0	*	0.0
SARATOGA	17.3	7.5	0.97	1.0
SOUTHLAND	0.5	0.0	*	0.0
ALL OTHERS	10.2	3.0	0.39	1.0
<b>TOTAL</b>	<b>773.1</b>			



# BROMEGRASS Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.  
A C R E A G E

VARIETY	1960-64		1965	TOTAL ACREAGE PERCENT	EXPECTED TREND	S T A T E S	
	AVERAGE					NO.	NO.
	1960-64	AVERAGE				REPORTING	RECOMMENDING
LINCOLN	2,905.1		2,850.8	27.23	1.0	32	26
COMMON NORTHERN	2,288.0		2,674.5	25.55	1.0	14	5
COMMON SOUTHERN	2,259.4		1,976.6	18.88	1.0	19	6
ACHENBACH	1,846.9		1,922.7	18.37	1.1	20	14
MANCHAR	385.2		372.7	3.56	0.9	12	10
SOUTHLAND	135.4		250.2	2.39	1.2	12	9
SARATOGA	90.3		149.5	1.43	1.0	16	15
HOMESTEADER	100.6		71.0	0.68	0.9	2	1
FISCHER	106.4		66.0	0.63	1.0	7	5
ALL OTHERS	281.5		43.6	0.42	1.0	5	-
LANCASTER	55.6		39.5	0.38	1.0	7	5
LYON	72.6		27.0	0.26	1.0	3	3
ELSBERRY	41.1		23.0	0.22	1.0	3	2
SAC	1.1		1.5	0.01	1.1	4	3
TOTAL			10,468.6				

# ORCHARDGRASS Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS NORTH EASTERN

1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.	TOTAL
ALL OTHER							1.0						1.0
COMMON	6.6	17.0	3.7	115.0	5.0		60.0	30.0	62.0	0.3	4.0		303.6
DANISH				1.0									1.0
LATAR													0.0
LATE FINNISH				1.0									1.0
MASS. HARDY	0.1				1.5								1.6
PENNLATE	0.3	1.2	1.2	6.0	0.5	0.3		15.0	30.0	0.1	3.0		56.4
POTCMAC				5.0			10.0		1.0	0.1			16.1
S-37	5.0			2.0	5.0		14.0	5.0	57.0	0.3	1.0		89.3
STERLING		4.0											4.0
TOTAL	12.0	21.0	4.9	130.0	12.0	0.3	85.0	50.0	150.0	0.8	8.0		474.0

NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
ALL OTHER													22.0
BOONE	2.0				5.0	10.0	1.0			5.0			1.0
COMMON	236.0	90.0	600.0				400.0	28.5		150.0	0.3	100.0	1,598.8
DANISH	20.0	40.0											60.0
FRODE	3.0												3.0
LATAR		2.0											2.0
PENNLATE	15.0	5.0	5.0				5.0			35.0			35.0
POTCMAC										5.0			5.0
S-37							6.0	5.0		5.0			5.0
STERLING													11.0
TOTAL	270.0	137.0	605.0		5.0	10.0	412.0	33.5		200.0	0.3	100.0	1,772.8

# ORCHARDGRASS Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS SOUTHERN

1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
DCONE					25.0					0.1	3.0			28.6
COMMON	40.0	20.0		42.0	500.0			240.0	2.0	0.9	250.0		450.0	1,544.9
DANISH		100.0			30.0			190.0			20.0			340.0
KY. SELECT					8.0									8.0
POTCMAC	0.5	6.0			4.0			30.0		0.5	5.0		1.0	47.0
TOTAL	41.0	126.0		42.0	567.0			460.0	2.0	1.5	278.0		451.0	1,968.5

WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	CULO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	ALASKA	HAWAII	TOTAL
AKAROA						2.0		9.0		40.0				251.0
ALL OTHER						2.0		0.1						2.1
AVON														0.0
ROONE								0.1						0.1
COMMON	0.8	400.0	140.0	40.0	10.5	20.0		50.0	150.0	40.0	50.0			901.3
DANISH								8.0		10.0				18.0
FRODE								0.1						0.1
LATAR		4.0	5.0	20.0	3.5	5.0		17.0	1.5	80.0	2.5			138.5
MASS. HARDY								0.1						0.1
PENNLATE								0.6		1.0				1.6
POTCMAC		2.0	5.0		5.2	1.0		40.0		60.0	0.1			113.3
S-143								10.0						10.0
SANDIA							0.1							0.1
STERLING								0.4						0.4
TOTAL	0.8	606.0	150.0	60.0	19.2	30.0	0.1	135.4	151.5	231.0	52.6			1,436.6

# ORCHARDGRASS Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

NORTH EASTERN				NORTH CENTRAL					
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1960-64 AVERAGE	1965				1960-64 AVERAGE	1965		
	1000 ACRES					1000 ACRES			
ALL OTHER	3.1	1.0	0.21	1.0	ALL OTHER	13.0	22.0	1.24	1.0
COMMON	307.7	303.6	64.05	1.1	BOONE	-	1.0	0.06	1.2
DANISH	1.0	1.0	0.21	1.0	COMMON	1,560.0	1,598.8	90.19	1.0
LATAR	-	0.0	*	0.0	DANISH	169.3	60.0	3.38	1.0
LATE FINNISH	5.5	1.0	0.21	1.0	FRODE	2.0	3.0	0.17	1.1
MASS. HARDY	3.2	1.6	0.34	0.8	LATAR	0.5	2.0	0.11	1.2
PENNLATE	19.0	26.4	11.90	1.1	PENNLATE	22.5	35.0	1.97	1.0
POTOMAC	8.6	16.1	3.40	1.0	POTOMAC	28.6	35.0	1.97	1.0
S-37	95.1	89.3	18.84	0.9	S-37	70.1	5.0	0.28	0.7
STERLING	-	4.0	0.84	1.0	STERLING	19.3	11.0	0.62	1.2
	TOTAL		474.0			TOTAL		1,772.8	
SOUTHERN				WESTERN					
VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1960-64 AVERAGE	1965				1960-64 AVERAGE	1965		
	1000 ACRES					1000 ACRES			
BOONE	5.9	28.6	1.45	1.2	AKAROA	219.4	251.0	17.47	1.1
COMMON	1,412.5	1,544.9	78.48	1.1	ALL OTHER	2.3	2.1	0.15	1.0
DANISH	314.8	340.0	17.27	1.0	AVON	0.0	0.0	*	0.0
KY. SELECT	3.7	8.0	0.41	0.9	BOONE	0.1	0.1	0.01	1.1
POTOMAC	24.1	47.0	2.39	1.1	COMMON	789.7	901.3	62.74	1.0
	TOTAL		1,968.5		DANISH	21.7	18.0	1.25	1.0
					FRODE	0.1	0.1	0.01	1.1
					LATAR	77.3	138.5	9.64	1.1
					MASS. HARDY	0.1	0.1	0.01	1.1
					PENNLATE	0.9	1.6	0.11	1.2
					POTOMAC	68.6	113.3	7.89	1.0
					S-143	67.4	10.0	0.70	0.9
					SANDIA	2.7	0.1	0.01	1.0
					STERLING	0.1	0.4	0.03	1.1
	TOTAL		1,436.6			TOTAL		1,436.6	

# ORCHARDGRASS Table 3

## ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S. ACREAGE

VARIETY	1960-64		1965		TOTAL ACREAGE PERCENT	EXPECTED TREND	S T A T E S	
	AVERAGE						NO.	NO.
COMMON	4,069.9	4,348.6	76.94	37	1.0	23		
DANISH	506.8	419.0	7.41	9	1.0	2		
AKAROA	219.4	251.0	4.44	5	1.1	4		
POTOMAC	129.9	211.4	3.74	23	1.0	20		
LATAR	77.8	140.5	2.49	11	1.1	10		
S-37	165.2	94.3	1.67	9	0.9	3		
PENNLATE	42.4	93.0	1.65	14	1.0	12		
BOONE	6.0	29.7	0.53	6	1.2	6		
ALL OTHER	18.4	25.1	0.44	7	1.0	1		
STERLING	19.4	15.4	0.27	5	1.1	4		
S-143	67.4	10.0	0.18	1	0.9	-		
KY. SELECT	3.7	8.0	0.14	1	0.9	1		
FRODE	2.1	3.1	0.05	2	1.1	1		
MASS. HARDY	3.3	1.7	0.03	6	0.8	5		
LATE FINNISH	5.5	1.0	0.02	2	1.1	1		
SANDIA	2.7	0.1	*	1	1.7	1		
AVON	0.0	0.0	*	1	0.0	1		
TOTAL		5,651.9						

## TIMOTHY Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS

NORTH EASTERN

1000 ACRES

VARIETY	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	M.VA.	TOTAL
CLAIR	12.0		15.0	0.5		2.6	1.0						1.5
CLIMAX	57.9	20.0	135.0	3.0	30.0	10.0	3.0	700.0	94.0	1.0	50.0		910.6
COMMON	C.1			271.5	95.0	0.3	60.0	1,890.0	1,300.0	1.0	198.0		4,038.4
ESSEX							2.0	20.0	6.0	0.1	2.0		30.5
ALL OTHERS							1.0			0.1			1.1
TOTAL	70.0	20.0	150.0	275.0	125.0	12.9	67.0	2,610.0	1,400.0	2.2	250.0		4,982.1

NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
CLAIR		2.0								10.0			12.0
CLIMAX		15.0		5.0	5.0	20.0	2.0		0.2	25.0		100.0	167.2
COMMON	995.0	500.0		490.0	200.0	200.0	160.0			1,950.0	0.3	1,150.0	5,445.3
DRUMMOND													0.0
ESSEX						1.5							1.5
ITASCA						1.0				5.0			1.0
LORAIN										10.0			5.0
ALL OTHERS	5.0			5.0									20.0
TOTAL	1,000.0	517.0		500.0	222.5	222.5	162.0		0.2	2,000.0	0.3	1,250.0	5,652.0

SOUTHERN

1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
CLAIR					100.0						5.0		1.0	106.0
CLIMAX		25.0			75.0						15.0		2.0	2.0
COMMON		25.0			175.0						20.0		60.0	175.0
TOTAL		50.0			350.0						40.0		63.0	283.0

WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	ALASKA	HAWAII	TOTAL
CLIMAX			1.0					1.0		100.0				102.0
COMMON		50.0	98.0		350.0	5.0	1.4	1.0		20.0	200.0			724.4
DRUMMOND														1.0
ESSEX			0.1											0.1
ITASCA														0.0
MILTON														0.0
TOTAL		50.0	99.1		350.0	5.0	1.4	2.0		120.0	200.0			827.5

# TIMOTHY Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

VARIETY	NORTH EASTERN			NORTH CENTRAL			
	ACREAGE		VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1960-64 AVERAGE	1965		1960-64 AVERAGE	1965		
CLAIR	1.0	1.5	CLAIR	13.0	12.0	0.21	1.0
CLIMAX	591.0	910.6	CLIMAX	222.1	167.2	2.96	1.1
COMMON	3,262.9	4,038.4	COMMON	8,026.0	5,445.3	96.34	1.0
ESSEX	28.1	30.5	DRUMMOND	0.0	0.0	*	0.0
ALL OTHERS	-	1.1	ESSEX	5.0	1.5	0.03	1.1
TOTAL		4,982.1	ITASCA	1.0	1.0	0.02	1.1
			LGRAIN	48.4	5.0	0.09	1.2
			ALL OTHERS	350.5	20.0	0.35	1.0
			TOTAL		5,652.0		
VARIETY	SOUTHERN			WESTERN			
	ACREAGE		VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1960-64 AVERAGE	1965		1960-64 AVERAGE	1965		
CLAIR	26.4	106.0	CLIMAX	54.8	102.0	12.33	1.1
CLIMAX	0.8	2.0	COMMON	574.3	724.4	87.54	1.0
COMMON	167.0	175.0	DRUMMOND	-	1.0	0.12	1.0
TOTAL		283.0	ESSEX	0.5	0.1	0.01	1.1
			ITASCA	0.0	0.0	*	0.0
			MILTON	0.0	0.0	*	0.0
			TOTAL		827.5		

TIMOTHY Table 3

VARIETY	ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S. A C R E A G E		S T A T E S			
	1960-64	1965	TOTAL ACREAGE EXPECTED REPORTING RECOMMENDING		NO.	
	AVERAGE		PERCENT	TREND	NO.	NO.
COMMON	2,030.2	10,383.1	88.41	0.0	30	20
CLIMAX	868.7	1,181.8	10.06	1.0	22	18
CLAIR	40.4	119.5	1.02	1.3	7	3
ESSEX	33.6	32.1	0.27	1.0	10	6
ALL OTHERS	350.5	21.1	0.18	1.0	5	-
LORAIN	48.4	5.0	0.04	1.2	2	2
ITASCA	1.0	1.0	0.01	1.2	2	2
DRUMMOND	0.0	1.0	0.01	1.1	2	2
MILTON	0.0	0.0	*	0.0	1	1
TOTAL		11,744.6				



# WHEATGRASS Table 1

ACREAGES BY VARIETIES - BY STATES AND REGIONS NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	TEXAS	VA.	TOTAL
AMUR											1.0			1.0
FAIRWAY CRESTED											125.0			125.0
GREENAR											0.3			0.3
INTERMEDIATE COMMON	1.0										4.0			181.0
NEBRASKA 50							6.0				0.1			86.1
NEBRASKA 98526							17.0				17.0			17.0
NORDAN							17.0				12.0			619.0
LAHE							1.0				20.0			21.0
PUBESCENT							1.2				0.2			1.4
REE											0.1			0.1
SIBERIAN											0.2			0.2
SLENDER							70.0							70.0
STANDARD CRESTED							34.0				130.0			630.0
TALL WHEATGRASS	15.0						42.5				0.4			87.9
WESTERN	232.0						177.5							444.5
TOTAL			248.0				850.0	893.2			293.3			2,284.5

SOUTHERN

1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
TALL WHEATGRASS									0.1					0.1
WESTERN									15.0			50.0		65.0
TOTAL									15.1			50.0		65.1

WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	ALASKA	HAWAII	TOTAL
ALKAR														35.8
AMUR		1.5	15.0	2.1		0.5		1.0	0.2	30.0	0.5			66.0
AL2465			3.0								51.0			3.0
FAIRWAY CRESTED			10.0		3.0		0.2	15.0	10.0		60.0			188.2
GREENAR		85.0		110.0	0.3	2.5		1.5	2.0	100.0	3.0			304.3
INTERMEDIATE COMMON	4.3	80.0	60.0	20.0	4.0	1.2	0.8	25.0	55.0		50.0			300.3
LARGO			1.0				0.1							1.1
NEBRASKA 50			20.0		0.5						0.1			20.6
NORDAN			10.0	35.0	45.0		1.2	6.0	1.5	90.0	30.0			218.7
LAHE			1.0	0.5	0.2					10.0	0.2			11.9
PUBESCENT		5.0						28.0	1.0		10.0			45.5
REE											5.0			5.0
SIBERIAN				84.0	1.0	3.3		10.0	0.7	20.0				112.0
SLENDER			20.0	0.5				6.0	0.1		0.5			27.1
SCDAR			1.0		0.6			1.0	0.4	3.0	0.1			6.1
STANDARD CRESTED	8.3	55.0	100.0	855.0	110.0	22.0		200.0	663.0	20.0	100.0			2,133.3
TALL WHEATGRASS	4.8	5.0	60.0			9.0		5.0	15.0		2.0			100.8
TOPAR		65.0		50.5		0.5		0.2	1.1	15.0	1.5			133.8
WESTERN			75.0		155.0	1.0	0.1	2.0	1.5		10.0			244.6
WHITMAR				2.6			0.1	5.0	0.5	35.0	5.1			48.3
TOTAL	17.4	296.5	376.5	1,161.2	319.6	40.0	2.5	305.7	842.0	323.0	329.0			4,013.4

## WHEATGRASS Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

VARIETY	NORTH CENTRAL			WESTERN		
	ACREAGE		PERCENT OF TOTAL ACREAGE	ACREAGE		PERCENT OF TOTAL ACREAGE
	1960-64 AVERAGE	1965		1960-64 AVERAGE	1965	
AMUR	4.3	1.0	0.04	28.9	35.8	0.89
FAIRWAY CRESTED	114.4	125.0	5.47	54.9	66.0	1.64
GREENAR	0.3	0.3	0.01	-	3.0	0.07
INTERMEDIATE COMMON	81.2	181.0	7.92	138.3	188.2	4.69
NEBRASKA 50	39.5	86.1	3.77	227.5	304.3	7.58
NEBRASKA 98526	25.2	17.0	0.74	245.6	300.3	7.48
NORDAN	518.2	619.0	27.10	1.0	1.1	0.02
OAHE	5.5	21.0	0.92	16.2	20.6	0.51
PUBESCENT	1.4	1.4	0.06	135.7	218.7	5.45
REE	0.3	0.1	*	1.8	11.9	0.30
SIBERIAN	0.2	0.2	0.01	38.3	45.5	1.13
SLENDER	122.0	70.0	3.06	5.0	5.0	0.12
STANDARD CRESTED	585.3	630.0	27.58	34.3	119.0	2.97
TALL WHEATGRASS	70.0	87.9	3.85	19.1	27.1	0.68
WESTERN	331.0	444.5	19.46	4.5	6.1	0.15
TOTAL	2,284.5			1,287.9	2,133.3	53.15
				77.3	100.8	2.51
				27.8	133.8	3.33
				207.4	244.6	6.09
				39.3	48.3	1.20
				4,013.4		
				TOTAL		

VARIETY	SOUTHERN		
	ACREAGE		PERCENT OF TOTAL ACREAGE
	1960-64 AVERAGE	1965	
TALL WHEATGRASS	0.1	0.1	0.15
WESTERN	68.0	65.0	99.85
TOTAL	65.1		0.9

# WHEATGRASS Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.  
ACREAGE

VARIETY	1960-64		1965		TOTAL		S T A T E S	
	AVERAGE				ACREAGE	PERCENT	EXPECTED TREND	REPORTING NO.
STANDARD CRESTED	1,873.2	2,763.3	43.43	1.0	13	9		
NORDAN	653.9	837.7	13.17	1.2	11	11		
WESTERN	606.4	754.1	11.85	1.0	13	9		
INTERMEDIATE COMMON	326.8	481.3	7.56	1.0	14	11		
FAIRWAY CRESTED	252.7	313.2	4.92	1.1	7	7		
GREENAR	227.8	304.6	4.79	1.0	9	8		
TALL WHEATGRASS	147.4	188.8	2.97	1.1	12	10		
TCPAR	27.8	133.8	2.10	1.1	7	6		
SIBERIAN	34.5	119.2	1.87	1.1	7	5		
NEBRASKA 50	55.7	106.7	1.68	0.9	5	4		
SLENDER	141.1	97.1	1.53	1.1	6	4		
AMUR	59.2	67.0	1.05	1.0	3	3		
WHITMAR	39.3	48.3	0.76	1.0	6	5		
PUBESCENT	39.7	46.9	0.74	1.0	7	7		
ALKAR	28.9	35.8	0.56	1.1	7	6		
OAHE	7.3	32.9	0.52	1.3	7	7		
NEBRASKA 98526	25.2	17.0	0.27	1.0	1	1		
SODAR	4.5	6.1	0.10	1.0	6	4		
REE	5.3	5.1	0.08	1.0	2	1		
A12465	-	3.0	0.05	1.0	1	1		
LARGO	1.0	1.1	0.02	1.1	2	2		
TOTAL		6,363.0						

# RYEGRASS Table 1

TABLE 1 RYEGRASS

VARIETY	1000 ACRES													TOTAL
	CONN.	DEL.	ME.	MD.	MASS.	N.H.	N.J.	N.Y.	PA.	R.I.	VT.	W.VA.		
ANNUAL		50.0	20.1	6.0	0.2	0.6	30.0	10.0	11.0	2.0			129.9	
LINN				0.1									0.1	
NORLEA				0.1			1.0						1.1	
PERENNIAL				8.8	0.2	1.0	8.0		1.0	3.0			22.0	
ALL OTHERS							1.0						1.0	
TOTAL		50.0	20.1	15.0	0.4	1.6	40.0	10.0	12.0	5.0			154.1	
NORTH CENTRAL														
VARIETY	1000 ACRES													TOTAL
	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.		
ANNUAL		10.0											70.0	
PERENNIAL		70.0			10.0				50.0				80.0	
RUSSIAN WILD RYE								36.0	10.0		5.0		41.0	
ALL OTHERS										1.0			1.0	
TOTAL		80.0			10.0			36.0	60.0	6.0			192.0	

# RYEGRASS Table 1 (Cont.)

## ACREAGES BY VARIETIES - BY STATES AND REGIONS

### SOUTHERN

1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
ANNUAL	160.0	600.0	150.0	120.0	5.0	140.0	25.0	20.0	18.0	15.0	20.0	21.0	80.0	1,374.0
GULF	8.0		11.0			160.0	35.0					130.0		344.0
MAGNOLIA														3.0
PERENNIAL		10.0			3.0		3.0				30.0		1.0	44.0
ALL OTHERS								0.5						0.5
TOTAL	168.0	610.0	161.0	120.0	8.0	300.0	63.0	20.5	18.0	15.0	50.0	151.0	81.0	1,765.5

### WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	ALASKA	HAWAII	TOTAL
ANNUAL		200.0	1.0			1.0		105.0		50.0				357.0
GULF								5.0						5.0
LYNN								20.0						20.0
NORLEA								5.0						5.0
U E C D								5.0						5.0
PERENNIAL		650.0	2.5			2.0	0.2	20.0	1.0	80.0				755.7
RUSSIAN WILCRYE			5.0			3.0			2.0		15.0			25.0
S-23								5.0						5.0
ALL OTHERS			0.5											0.5
TOTAL		850.0	9.0			6.0	0.2	165.0	3.0	130.0	15.0			1,179.2

## RYEGRASS Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

VARIETY	NORTH EASTERN			NORTH CENTRAL			
	ACREAGE		VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1960-64 AVERAGE	1965		1960-64 AVERAGE	1965		
ANNUAL	114.5	129.9	ANNUAL	80.8	70.0	36.46	1.0
LINN	-	0.1	PERENNIAL	17.5	80.0	41.67	1.0
NORLEA	0.2	1.1	RUSSIAN WILDRYE	-	41.0	21.35	1.2
PERENNIAL	13.9	22.0	ALL OTHERS	0.6	1.0	0.52	1.1
ALL OTHERS	-	1.0					
TOTAL		154.1	TOTAL		192.0		
VARIETY	WESTERN			SOUTHERN			
	ACREAGE		VARIETY	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND
	1960-64 AVERAGE	1965		1960-64 AVERAGE	1965		
ANNUAL	338.2	357.0	ANNUAL	1,732.5	1,374.0	77.82	1.1
GULF	5.0	5.0	GULF	151.6	344.0	19.48	0.9
LINN	15.0	20.0	MAGNOLIA	-	3.0	0.17	1.2
NORLEA	5.0	5.0	PERENNIAL	31.4	44.0	2.49	1.0
O E C D	-	5.0	ALL OTHERS	-	0.5	0.03	1.0
PERENNIAL	804.7	755.7					
RUSSIAN WILDRYE	-	25.0					
S-23	6.2	5.0					
ALL OTHERS	-	0.5					
TOTAL		1,178.2	TOTAL		1,765.5		

# RYEGRASS Table 3

## ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S. ACREAGE

VARIETY	1960-64		1965		TOTAL ACREAGE	EXPECTED TREND	STATES	
	AVERAGE						NO.	NO.
ANNUAL	2,266.0	1,930.9	58.69	30.	1.0	22	22	
PERENNIAL	867.5	901.7	27.41	22	1.0	14	14	
GULF	156.6	349.0	10.61	6	0.9	6	6	
RUSSIAN WILD RYE	0.0	66.0	2.01	6	1.1	6	4	
LINN	15.0	20.1	0.61	2	1.3	2	1	
NORLEA	5.2	6.1	0.19	4	1.1	4	1	
S-23	6.2	5.0	0.15	1	1.0	1	-	
O E C D	-	5.0	0.15	1	1.2	1	1	
MAGNOLIA	-	3.0	0.09	1	1.2	1	1	
ALL OTHERS	0.6	3.0	0.09	4	1.1	4	1	
TOTAL		3,289.8						

# SUDANGRASS Table 1

## ACREAGES BY VARIETIES - BY STATES AND REGIONS NORTH EASTERN

VARIETY	1000 ACRES													TOTAL
	CONN.	DEL.	ME.	MD.	MASS.	N.H.	M.J.	N.Y.	PA.	R.I.	VT.	W.VA.		
COMMON									3.0				3.0	
GRAZER		1.0			0.2	0.2	3.5	5.0			0.5		10.8	
OTHER HYBRIDS	2.6	6.0		50.0	1.0		2.5	38.0	32.0	0.2			132.3	
PIPER	0.5	3.5	2.0	9.0	2.0	1.0	5.0	20.0	25.0	0.3	3.0		71.3	
S-100				5.0	1.0			2.0		0.1			8.1	
SUDAX							2.0			0.2	0.5		3.2	
SUDAX SX-11	0.3		0.5	9.0	0.2	0.2		10.0			0.5		20.2	
SUHI-1													0.0	
SWEET			0.5	2.0			0.5						2.5	
WHEELER							1.0			0.2			0.5	
ALL OTHERS													1.2	
TOTAL	3.8	10.5	3.0	75.0	4.4	1.4	14.5	75.0	60.0	1.0	4.5		253.1	

## NORTH CENTRAL

VARIETY	1000 ACRES													TOTAL
	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.		
COMMON													46.5	
GRAZER	0.5	3.0	5.0		5.0	10.0		25.0				1.0	10.0	
GREENLEAF		5.0	5.0				2.0					2.0	187.5	
OTHER HYBRIDS	40.0	60.0	100.0	175.0		335.0	55.0	15.0	40.0	40.0	100.0	300.0	1,395.0	
PIPER	4.0	24.0	25.0	310.0	30.0	100.0	60.0	40.0	45.0	30.0	50.0	166.0	594.0	
S-100				20.0					0.6				0.6	
SUDAX								50.0	1.5				51.5	
SUDAX SX-11	10.0	5.0			20.0		35.0	50.0		20.0		30.0	170.0	
SUHI-1		3.0											3.0	
SWEET	2.0				5.0			20.0				1.0	8.0	
WHEELER				100.0									120.0	
ALL OTHERS					80.0					10.0			90.0	
TOTAL	57.0	100.0	140.0	605.0	140.0	445.0	152.0	200.0	87.1	100.0	150.0	500.0	2,676.1	



# SUDANGRASS Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS SOUTHERN

1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
COMMON	0.1				5.0	6.0		3.5	3.0			50.0	3.0	70.6
GRAZER	10.0				10.0	1.5	12.0		20.0	1.0	5.0			59.5
GREENLEAF	0.5					0.5	3.0		5.0	1.0			6.0	16.0
LAOHMA									5.0					5.0
OTHER HYBRIDS	130.0	113.0		3.0	8.0			20.0	30.0	28.0	70.0	1,000.0	24.0	1,426.0
PIPER	2.0	20.0			20.0	0.2	2.0		2.0		3.0		10.0	59.2
S-100					1.0									1.0
SUDAX				5.0	20.0	15.5	15.0		7.0	40.0	30.0		15.0	70.5
SUDAX SX-11	30.0		5.0	5.0	5.0		18.0				5.0		1.0	140.0
SUHI-1				1.0	5.0						1.0			12.5
SWEET	0.5	30.0		4.0		8.0		12.0			1.0	80.0		135.0
SWEET 372													3.0	4.0
TIFT						3.0		2.0				1.0		24.0
WHEELER				18.0			6.0							6.0
ALL OTHERS	0.4		20.0			34.0		10.0	3.0	10.0				77.4
TOTAL	173.5	163.0	25.0	36.0	74.0	68.7	56.0	47.5	75.0	80.0	114.0	1,132.0	62.0	2,106.7

WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	ALASKA	HAWAII	TOTAL
CALIFORNIA 23														10.2
COMMON	2.2	8.0				0.5		5.0	0.4					47.7
GRAZER	1.8		40.0											0.0
GREENLEAF	4.2		6.0											11.2
OTHER HYBRIDS	20.3	50.0	40.0		1.5			1.0	0.6	20.0	10.0			142.4
PIPER		70.0	25.0		0.7	0.5		10.0		30.0	12.0			148.2
SUDAX			40.0		0.2			0.1			1.5			47.1
SUDAX SX-11		30.0	30.0				5.3	1.1	0.2		0.5			61.8
SUHI-1			5.0											5.0
SWEET		20.0					0.2	3.0						3.2
SWEET 372		6.0				0.5								20.0
TIFT			50.0											6.5
WHEELER			14.0				12.2	0.5						50.0
ALL OTHERS						0.5								27.2
TOTAL	28.5	184.0	250.0		2.4	2.0	18.8	19.6	1.2	50.0	24.0			580.5

# SUDANGRASS Table 2

ACREAGES BY VARIETIES, EXPECTED TRENDS - BY REGIONS

VARIETY	NORTH EASTERN			NORTH CENTRAL				
	ACREAGE		PERCENT OF TOTAL ACREAGE	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	
	1960-64 AVERAGE	1965		1960-64 AVERAGE	1965			
COMMON	6.2	3.0	1.19	158.6	46.5	1.74	0.9	
GRAZER	7.2	10.8	4.27	-	10.0	0.37	1.1	
OTHER HYBRIDS	24.0	132.3	52.27	234.6	187.5	7.01	0.9	
PIPER	71.8	71.3	28.17	120.8	1,395.0	52.13	1.2	
S-100	3.8	3.1	3.20	605.1	594.0	22.20	0.9	
SUDAX	8.2	3.2	1.26	1.0	0.6	0.02	1.0	
SUDAX SX-11	6.6	20.2	7.93	62.5	51.5	1.92	1.0	
SUHI-1	0.0	0.0	0.0	171.0	170.0	6.35	1.1	
SWEET	3.7	2.5	0.99	0.5	3.0	0.11	0.8	
WHEELER	1.0	0.3	0.20	21.0	8.0	0.30	1.0	
ALL OTHERS	4.6	1.2	0.47	127.1	120.0	4.48	0.9	
TOTAL		253.1		263.5	90.0	3.36	1.2	
				2,676.1				
				WESTERN				
VARIETY	SOUTHERN			WESTERN				
	ACREAGE		PERCENT OF TOTAL ACREAGE	ACREAGE		PERCENT OF TOTAL ACREAGE	EXPECTED TREND	
	1960-64 AVERAGE	1965		1960-64 AVERAGE	1965			
COMMON	225.3	70.6	3.35	36.0	10.2	1.76	0.9	
GRAZER	115.0	59.5	2.82	79.2	47.7	8.22	0.8	
GREENLEAF	37.8	16.0	0.76	-	0.0	-	0.0	
LAHOMA	13.8	5.0	0.24	14.4	11.2	1.93	0.8	
OTHER HYBRIDS	353.5	1,426.0	67.69	46.2	142.4	24.53	1.2	
PIPER	82.1	59.2	2.81	157.4	148.2	25.53	0.9	
S-100	-	1.0	0.05	41.0	47.1	8.11	1.0	
SUDAX	22.7	70.5	3.35	45.1	61.8	10.65	1.2	
SUDAX SX-11	109.9	140.0	6.65	0.5	5.0	0.86	1.1	
SUHI-1	1.2	12.5	0.59	9.9	3.2	0.55	1.0	
SWEET	192.0	135.0	6.41	31.1	20.0	3.45	0.8	
SWEET 372	255.0	4.0	0.19	12.5	6.5	1.12	0.9	
TIFT	49.7	24.0	1.14	54.0	50.0	8.61	1.0	
WHEELER	-	6.0	0.23	12.6	27.2	4.69	1.0	
ALL OTHERS	24.0	77.4	3.67	-	-	-	-	
TOTAL		2,106.7						
				580.5				
				TOTAL				

# SUDANGRASS Table 3

ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S.  
ACREAGE

VARIETY	1960-64		1965		TOTAL ACREAGE	EXPECTED TREND	STATES	
	AVERAGE		NO.				NO.	NO.
OTHER HYBRIDS	544.5	3,095.7	55.12	37	1.2	18		
PIPER	916.4	872.7	15.54	39	0.9	35		
SUDAX SX-11	332.5	392.0	6.98	25	1.0	17		
GREENLEAF	266.8	214.7	3.82	15	0.9	13		
ALL OTHERS	304.7	195.8	3.49	14	1.1	4		
WHEELER	182.1	176.5	3.14	5	1.0	5		
SUDAX	134.4	172.3	3.07	17	1.1	8		
COMMON	511.3	167.8	2.99	19	0.8	5		
SWEET	226.6	148.7	2.65	14	1.0	9		
GRAZER	122.2	80.3	1.43	19	1.2	12		
TIFT	62.2	30.5	0.54	7	1.0	6		
SWEET 372	286.1	24.0	0.43	3	0.8	1		
SUHI-1	2.2	20.5	0.37	8	1.1	6		
CALIFORNIA 23	36.0	10.2	0.18	2	0.9	2		
S-100	4.8	9.7	0.17	7	1.1	4		
LAHCMA	13.8	5.0	0.09	1	0.9	-		
TOTAL		5,616.4						

## MILLET Table 1

## ACREAGES BY VARIETIES - BY STATES AND REGIONS NORTH EASTERN

1000 ACRES

VARIETY	CONN.	DEL.	ME.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	W.VA.	TOTAL
COMMON PEARL SCATTAIL <sup>a</sup>					0.4									0.5
GAHI I					0.1									0.2
GERMAN FOXTAIL	0.5	2.0	0.5											2.0
HUNGARIAN	1.7		3.0			0.2	1.0				0.1	7.0		9.3
JAPANESE SBARNYARDGRASS <sup>b</sup>						2.0	1.2			10.0	0.2	3.0		21.1
TOTAL	2.2	2.0	3.5	0.5	0.5	2.2	2.2	0.2		10.0	0.3	10.0		33.1

## NORTH CENTRAL

1000 ACRES

VARIETY	ILL.	IND.	IOWA	KANS.	MICH.	MINN.	MO.	NEBR.	N.DAK.	OHIO	S.DAK.	WISC.	TOTAL
CANADIAN CROWN											0.3		0.3
COMMON FOXTAIL								3.5					3.5
EARLY FORTUNE			1.0			0.5		4.0	20.0		2.5		28.0
EMPIRE						0.1							0.1
GERMAN FOXTAIL	2.0	2.0	1.0	10.0		0.1	5.0	4.5			1.0		25.6
HUNGARIAN						0.1		0.2	4.0				4.3
JAPANESE SBARNYARDGRASS <sup>b</sup>	1.0		2.0			0.1							3.1
HANTA											8.0		8.0
NEBRASKA COMMON									6.0				6.0
RED TURGHAI						7.0		10.7	60.0				77.7
SIBERIAN						0.1		2.0	20.0		5.0		27.1
STARR					1.0								1.0
WHITE PROSO		1.0	1.0			4.0		10.0	110.0		3.0		129.0
WHITE WONDER						0.2		0.1					0.3
TOTAL	3.0	3.0	5.0	11.0		12.2	5.0	35.0	220.0		19.8		314.0

# MILLET Table 1 (Cont.)

ACREAGES BY VARIETIES - BY STATES AND REGIONS SOUTHERN

1000 ACRES

VARIETY	ALA.	ARK.	FLA.	GA.	KY.	LA.	MISS.	N.C.	OKLA.	S.C.	TENN.	TEXAS	VA.	TOTAL
BROWNTOP	15.0			70.2		4.5				20.0	1.0	0.1		110.8
COMMON FOXTAIL											2.0		2.0	4.0
COMMON PEARL & CATTAIL		3.0	3.0		1.0	21.2		4.0	2.0	40.0		10.0		92.2
GAHI I	20.0		32.0	95.4	1.0	16.0	6.0	28.0	4.5	40.0	1.0	7.0	5.0	255.9
GERMAN FOXTAIL		25.0							3.5		65.0	15.0	3.0	111.5
JAPANESE & BARNYARD GRASS											0.5			0.5
PEARL NC. 7	40.0	3.0	49.0	56.3	1.0	20.0	8.0	27.0	7.5	10.0	3.0	10.0	3.0	239.8
STARR								8.0						8.0
ALL OTHERS														
TOTAL	75.0	31.0	86.0	221.9	3.0	61.7	14.0	67.0	17.5	110.0	74.5	44.1	19.0	824.7

WESTERN

1000 ACRES

VARIETY	ARIZ.	CALIF.	COLO.	IDAHO	MONT.	NEV.	N.MEX.	ORE.	UTAH	WASH.	WYO.	ALASKA	HAWAII	TOTAL
COMMON FOXTAIL			9.0				0.1							9.1
EARLY FORTUNE			1.0											1.0
GAHI I							0.1							0.1
GERMAN FOXTAIL		1.0	15.0		0.6		1.8							18.4
HUNGARIAN					0.2									0.2
NEBRASKA COMMON							0.1			2.0				2.0
PEARL NC. 7											10.0			20.0
RED TURGHAI					0.6									30.6
SIBERIAN														0.2
STARR														0.2
WHITE PROSO		14.0	40.0				0.2				5.0			59.0
WHITE WANDER			20.0				2.5							22.5
TOTAL	15.0	15.0	125.0		1.4		4.8				17.0			163.2



# MILLET Table 3

## ACREAGES BY VARIETIES, EXPECTED TRENDS - U.S. ACREAGE

VARIETY	1960-64		1965		TOTAL ACREAGE	EXPECTED TREND	S T A T E S	
	AVERAGE		1965				NO.	NO.
	AVERAGE	1965	PERCENT	NO.				
GAHI I	177.7	256.2	19.19	15	1.0	12		
STARR	330.6	241.0	18.05	15	1.0	11		
WHITE PROSO	134.6	188.0	14.08	10	1.1	6		
GERMAN FOXTAIL	154.4	157.5	11.80	19	1.0	10		
BROWNTOP	137.6	110.8	8.30	6	1.0	3		
RED TURGHAI	46.9	97.7	7.32	5	1.0	5		
COMMON PEARL CATTAIL	138.0	92.7	6.94	11	1.0	6		
SIBERIAN	74.9	57.7	4.32	7	1.0	5		
EARLY FORTUNE	33.4	29.0	2.17	6	1.0	4		
JAPANESE BARNYARDGRASS	23.6	24.7	1.85	12	1.0	7		
WHITE WENDER	20.7	22.8	1.71	4	1.0	3		
COMMON FOXTAIL	16.1	16.6	1.24	6	1.0	1		
HUNGARIAN	12.2	13.8	1.03	12	1.0	9		
ALL OTHERS	3.3	8.0	0.60	1	1.0	-		
NEBRASKA COMMON	9.1	8.0	0.60	3	1.1	2		
MANTA	3.6	8.0	0.60	1	1.2	1		
PEARL NO. 7	6.2	2.1	0.16	2	1.0	2		
CANADIAN CROWN	0.3	0.3	0.02	1	1.2	1		
EMPIRE	0.1	0.1	0.01	1	1.7	1		
TOTAL		1,335.0						







# **PLANT ONLY TESTED SEED**

*This is your best assurance of:*

- ★ **VARIETAL PURITY**
- ★ **HIGH GERMINATION**
- ★ **FREEDOM FROM WEEDS**
- ★ **FREEDOM FROM OTHER  
CROP SEED**

**GOOD SEED IS ALWAYS  
YOUR BEST BARGAIN!**