

**VIRGINIA COOPERATIVE EXTENSION SERVICE**

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Publication 15

Revised January 1981

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# **FIELD CROP VARIETIES**

for  
**VIRGINIA**  
in 1981

Prepared by

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**EXTENSION DIVISION**  
Virginia Polytechnic Institute  
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### FIELD CROP VARIETIES FOR VIRGINIA IN 1981

Varieties recommended are those which, after comparative testing, have proved to be superior in yielding ability, disease resistance, quality, and other ways which determine their net value to you, an expert in agricultural production. More detailed information concerning each variety may be obtained from your Extension office or regional Research Station.

Some potentially high-performing varieties may not be on the recommended list because of insufficient test data, but will be placed on a promising list. This indicated if, after further testing, the variety continues to perform well, it will be recommended.

The author expresses his grateful appreciation to the Research and Extension agronomists and Plant Pathologists who generally contributed their suggestions and information for this publication.

### CERTIFIED SEED IS RECOMMENDED IN VIRGINIA

Certified seed is field inspected and laboratory tested. This ensures varietal purity with high germination, and minimum amounts of weed seed, inert material, other crop seed, and seedborne diseases.

Trade and brand names are used only for the purpose of information and the Virginia Cooperative Extension Service does not guarantee nor warrant the standard of the product, nor does it imply approval of the product to the exclusion of others which may also be suitable.

### CORN HYBRIDS

Because many factors must be considered in selecting hybrid corn varieties, Virginia Tech does not recommend specific varieties. The following tables contain many of the hybrids being sold in Virginia, listed according to maturity.

Maturity will vary depending on season, time of planting and location in the state. These maturities are based on Eastern Virginia conditions so that a medium or medium late hybrid in the east would be considered late or full season in western areas. Select a hybrid with which you are familiar and use this as a reference.

Plant population is extremely important in the performance of any hybrid. Some hybrids will tolerate high plant populations, and others will not. Be sure to check population recommendations with the seed dealer when you purchase your seed.

Hybrid corn performance data are available. Refer to Virginia Tech Research Division Report #177. Compare yield data in as many locations as possible. Standability, disease resistance, ear height, and silage data are available from different test locations. Choose your hybrids carefully.

Performance of hybrids under disease conditions is evaluated whenever feasible. When available, these data are included in the corn performance bulletins.

CORN HYBRIDS (a)

Each maturity group represents about 5 days

Relative Maturity	Brand or Company									
	Asgrow	Beck	Coker	Clark	Columbiana	DeKalb	Dennis	Funk's	Muncy Chief	Longest
Very Early -----	RX60 RX61A				H-2373 H-2440	XL315A XL25A		G-4224 G-4315 G-4321A		
Early -----	<u>RX777</u>	44X			H-2440 H-2484	<u>XL32AA</u>  XL43A XL53	11	G-4445 G-4465 G-4525A(c)	SX662	Longest 3X6(c)
Medium Early ----	RX90 RX909	<u>65X</u> 60X*			H-2500d H-2535	XL57 XL61 <u>XL72AA</u>	<u>37A</u> <u>47A</u> <u>37</u>	G-4507A G-4567 G-4520 G-4606	SX777	Longest SX2 Longest SX7
Medium -----	RX94 RX98 RX544 RX616 RX962W		<u>16</u> <u>19</u>	<u>770</u> <u>770A</u> <u>777A</u>	H-2606 H-2655	640 XL70 XL71 XL72B(c)  <u>XL78</u>	69A	G-4505 G-4689 G-4646 G-4636 G-461T G-5666	SX676 SX776 SX808A SX808B SX878 SX898	Longest 3X1
Medium Full -----	RX115A RX114 RX112	80X 88X 87(c)	<u>19A</u> <u>21</u> 22	SX93	H-2630 H-2644W H-2680 H-2686	XL80 XL82 XL39W	<u>39</u>	G-4709 G-4776(c) G-5757 G-4757		Longest SX4 Longest SX5
Full -----					H-2660W H-2750A H-2775A H-2745	XL394 (c) 1214		G-4848		

CORN HYBRIDS (continued)

Relative	Brand or Company									
	Northrup-King Co.	P-A-G Seeds	Kenworthy	Pioneer Brand	Jacques	Southern States	Taylor-Evans	Todd	Pfizer Genetics	Other Hybrids
Very Early -----	PX-49 PX-37 PX-39	SX-189 547 SX-181		3780 3591 3572		SS-335A SS-350P SS-390	Profitmaker-S		TX100	
Early -----	PX69A	SX249 SX397 SX277 SX454	KL95S KLX47 KLX64		JX177	SS-522 SS-570	Timemaster 6925	M48 M59	T1008 T1021 TXS103 T1058 TXS105A	Hofmeyer SX16
Medium Early ----	PX-74 PX-78	314 SX333 SX351	KL-X73A KL-X49 KL-X73	3535 3518 3382	JX179	SS-698 SS-710(c)	Growmaster 6992	M53 738 M75 MX73A M5505*	TXS108A T1108 TX111 TXS111 T1120 TXS115A	
Medium -----	PX-76 PX-79(e) PX-675		KL-X69A KL-X68 KL-X68B KL-X55A	3368A 3369A 3320*	JX180 JX187A JX227	SS-727 SS-730 SS-775 SS-795 SS-785 SS-750	Binmaster E-20-YA 6945 6968 6980 6995 6995-A	M83 M88	TXS113 TX113A TXS114 TX115 LTXS1159b)	McCurdy 7440 Augusta 310* Augusta 311 Penney SX1 Penney SX3* Hofmeyer Binbuster 3 Thompson 219A Thompson 220B Wheeler 300
Medium Full -----	PX-707 PX-87 PX-83	584 SX373 SX98 SX17A(c)	KL-X55 KL-X708L KL-X74 KL-X71	3183 3184		SS-875 SS-885 SS-830 SS-840		945 M90 M95	MDM116 T1189 TXS119 TX119A T1230*	Thompson 221(c) Augusta 300(c)
Full -----	PX-95(c)	SX70W		3179(c) 519W 3147(c) 3145(c) 3160(c)	JX247	SS-909E SS-950W SS-915	Silagemaster Bushelmaker-S Whitemaster			

(a) This information was furnished by representatives of the different seed companies. It is not a complete list of all companies nor all hybrids represented in Virginia.

(b) High Lysine Hybrids.

(c) These hybrids show high resistance to the corn virus disease associated with johnsongrass.

(d) Hybrids underscored have given above average yields and were average in standability in Virginia Tech corn test.

(e) Northrup-King PX79 has shown some tolerance to gray leaf spot disease. Gray leaf spot has been a problem in the area west of the Blue Ridge.

(f) Hybrids with an (\*) are promising and were above average in 1979 performance test.

FORAGE CROPS  
SUMMER ANNUAL FORAGE  
GRASSES

SUDANGRASS

Fine stemmed, rapid regrowth, Use primarily for grazing or hay.

<u>Company or Brand</u>	<u>Variety</u>
Northrup King	Trudan 7 (hybrid)
Southern States	FFR-74

SORGHUM-SUDANGRASS HYBRIDS

Generally larger stemmed than sudangrass, higher yielding, and good regrowth, Use primarily for grazing and greenchop.

<u>Company or Brand</u>	<u>Variety</u>
Asgrow	Grazier A-2
Asgrow	Grazier N-2
Columbiana	Super Re-Gro 355
DeKalb	SX-17+
Funk's	88F
McNair	Drip O'Honey
Northrup-King	Sordan 77
Pioneer Brand	988
Southern States	FFR-66
Stanford	Triple S
Taylor-Evans	Haygrazer
Todd	Hay Chow 25

FORAGE SORGHUM

Generally larger stemmed and higher yielding than sorghum-sudangrass. Height and grain yields quite variable among varieties. Use primarily for silage and greenchop.

<u>Company or Brand</u>	<u>Variety</u>	<u>Height Maturity</u>	<u>Grain Yield</u>
Asgrow	Beefbuilder T		
Asgrow	Duet	6' Medium	Medium
Asgrow	Titan E		
Columbiana	Si-Gro 400	7' Med. Late	Med. Heavy
DeKalb	FS-1A	6' Late	Heavy
DeKalb	25A	8' Med. Late	Medium
Northrup-King	367	9' Very Late	Medium
Northrup-King	300	8' Medium	Heavy
McNair	HOK	10' Late	Medium
McNair	Energy Plus	8' Med. Late	Heavy
Pioneer Brand	931	11' Very Late	Sterile
Pioneer Brand	911	11' Very Late	Sterile
Pioneer Brand	923	8' Late	Heavy
Pioneer Brand	947	8' Medium	Heavy
S.S.	FS451	6' Late	Med. Heavy
Taylor-Evans	Goldmaker	6' Medium	Sterile
	Silomaker	7' Late	Medium
Todd	Silo Chow	6' Late	Heavy

PEARL MILLET

Regrowth is generally poor. Prussic acid is not a problem. Primary use is for grazing.

<u>Company or Brand</u>	<u>Variety</u>
Northrup-King	Milllex 23
	Gahi 1
	Starr

PERENNIAL FORAGE GRASSESBERMUDAGRASS

Midland (a) -- A hybrid, cold-hardy variety adapted in all areas of the state below 2,000' elevation.

Coastal (a) -- A high-yielding hybrid which will winterkill some years in areas north of the James River and west of U. S. Highway 301.

Promising Tifton 44 (a) -- In limited Virginia tests, this bermudagrass variety has had high yields and has shown higher digestibility than Coastal bermuda in Georgia tests.

(a) Sterile hybrids which must be propagated vegetatively by cuttings (sprigs). See Virginia Tech MA113, "Planning and Managing Midland and Coastal Bermudagrass" for further information.

TALL FESCUE

Kentucky 31 -- This certified variety has the ability to establish stands rather quickly, is better able to grow under less favorable conditions than cool season grasses, and is well-suited for stockpiled winter grazing.

Promising Forager -- This has had high yields in limited Virginia tests and appears to be a good variety for hay or stockpiled winter grazing.

ORCHARDGRASS

Virginia 70<sup>(b)</sup> -- It is derived from a blend of seed from nine Northern Virginia farms on which no other variety nor strain of orchardgrass had been grown for at least 20 years.

Domestic -- Virginia orchardgrass has greater persistence and is more productive under local conditions than imported strains.

Hallmark -- A medium-maturing orchardgrass variety. It is a vigorous, leafy variety and about 1 week later than Domestic and Virginia 70. It has good resistance to rust and leaf spot.

Jackson -- This variety is a week to 10 days later in flowering than Virginia 70 and is desirable as a companion grass with alfalfa. Jackson has a vigorous upright growth habit and good aftermath production.

Potomac -- This certified variety is equal to Domestic in persistence and productivity and has some resistance to rust.

(b) Because of the unavailability of seed, Virginia 70 will be dropped from the recommended list after 1981.

TIMOTHY

Clair and Toro -- Where Timothy is used these varieties are recommended. They are early maturing and has given higher forage yields than other Timothy varieties.

LEGUMESRED CLOVER

Kenstar -- A selection from Kenland which under Virginia conditions has had better persistence and higher yields than other red clover varieties. Seed supplies may be limited.

Kenland, Redman, Florie, and Redland -- High yielding, persistent varieties.

Chesapeake -- This popular variety has shown lower yields and less persistence in Virginia than the above varieties.

WHITE CLOVER

Ladino -- This is not a variety, but a giant type of perennial white clover which out-yields common white clover by 50% or more when used in tall-grass pastures.

Common or White Dutch -- This is not a variety, and is low yielding but more persistent than giant types. It is similar in seed and plant characteristics to ladino but is shorter and best adapted to bluegrass pastures.

Tillman -- This new giant type variety of white clover is similar in seed and plant characteristics to ladino but has better disease resistance and more persistent stands.

#### ANNUAL LESPEDEZA

Korean is not a variety. It grows taller, coarser, and is earlier maturing than common (Kobe) lespedeza.

Kobe -- This variety of common lespedeza has finer stems and leaves, less seedling vigor, and is later maturing than Korean lespedezas.

#### PERENNIAL LESPEDEZA (SERICEA)

Common -- Vigorous variety that does well for stabilizing disturbed areas. Coarse and not considered suitable for high quality forage.

If sericea is to be grown for forage, the following varieties are suggested:

Serala -- Fine stemmed variety with good vigor. Does not become as coarse or woody as common.

Interstate -- Compared to common, it is short growing, branches profusely, has fine stems, and has uniform growth.

#### CROWN VETCH

Penngift -- Developed from selections made in Pennsylvania. Has somewhat smaller leaves and finer stems than Chemung and Emerald.

Chemung -- Selected from vigorous plants in New York. Taller and more erect than Penngift.

Emerald -- Vigorous variety selected in Iowa. Taller and more erect than Penngift.

#### RECOMMENDED ALFALFA VARIETIES

<u>Variety</u>	<u>Resistance to</u>	
	<u>Anthraxnose</u>	<u>Bacterial Wilt</u>
Arc (a)	Excellent	Good
Gladiator	Fair	Excellent
Liberty		Fair
Saranac AR	Excellent	Good
Titan	Fair	Excellent
Vanguard	Excellent	Good
Weevilchek	Fair	Excellent
WL 311	Fair	Good
Cimarron	Good	Good

(a) Arc has shown more tolerance to alfalfa weevil than other varieties in Virginia Tech tests.

In the last several years, bacterial wilt has become a more serious disease in Virginia. Stands of susceptible varieties are often seriously reduced after the second or third year.

Anthraxnose is another disease which can seriously reduce stands of susceptible varieties. This disease has generally been more severe in warmer areas but can reduce stands in all parts of the state. Varieties highly susceptible to anthraxnose should not be used in the middle and southern Piedmont and Coastal Plain of Virginia. A new strain of Anthraxnose has been found in Virginia. It is too early to know how damaging this new strain will be. Saranac AR has shown some resistance whereas most other varieties appear susceptible.

Varieties of Special Note for which there is insufficient test data to recommend:

Apollo and Phytor -- Hi-Phy alfalfa variety tests in other states have shown these varieties have resistance to phytopthera root rot, a disease which is common in poorly drained or wet soils.

Conestoga -- a promising variety with good yields in the Blacksburg and Orange test and excellent anthraxnose resistance.



GRAIN SORGHUM VARIETIES

Brand or Company	Variety	Maturity	Bird Resistant	Head Type	Height (c)
Asgrow -----	Dorado E	Very Early	No	Semi-open	Short
DeKalb -----	A-25A	Very Early	No	Semi-open	
DeKalb -----	A-28A	Very Early	No	Semi-open	
Northrup-King ----	180	Very Early	Yes	Semi-open	Short
Taylor-Evans -----	Y-44-R	Very Early	No	Semi-open	Short
Asgrow -----	Dorado	Early	No	Open	Short
Columbiana -----	H 265	Early	No	Open	Short
Columbiana -----	H-275BR	Early	Yes	Semi-open	Medium
Columbiana -----	H-500B	Early	No	Semi-open	Medium
DeKalb -----	B-38+	Early	No	Semi-open	
McNair -----	535	Early	No	Semi-open	Medium Short
Northrup-King-----	222	Early	No	Semi-open	Short
Pioneer Brand-----	8681	Early	No	Semi-open	Short
Southern States----	R920 OB	Early	No	Open	Medium
Taylor-Evans -----	Y45	Early	No	Semi-open	
DeKalb -----	C-42Y+	Medium Early	No	Semi-open	Medium
DeKalb -----	C-42A+	Medium Early			
Columbiana -----	H-600	Medium Early	No	Semi-open	Medium
Funk's-----	G-522DRH	Medium Early	No	Open	Medium
McNair-----	550	Medium Early	No	Semi-open	Medium Short
Asgrow-----	Corral	Medium	No	Semi-open	Medium
DeKalb -----	DK57	Medium	No	Open	Medium Tall
DeKalb -----	E-59	Medium	No	Open	Medium Tall
DeKalb -----	BR45	Medium	Yes		
McNair -----	650	Medium	No	Semi-open	Short
McNair -----	656 BR	Medium	Yes	Open	Medium
Pioneer -----	8417	Medium	No	Open	Short
Pioneer Brand-----	8311	Medium	No	Open	Short
Southern States --	BRY-93	Medium	Yes	Open	Medium
Southern States --	R 109-A	Medium	No	Open	Medium
Southern States --	R 1090	Medium	No	Open	Medium
Taylor-Evans -----	Bird-A-Boo II	Medium	Yes	Open	Medium
Taylor-Evans -----	Y-101R	Medium	No	Semi-open	Medium
Todd -----	Grain				
	Harvest 539 & 551	Medium	Yes	Open	Medium
Asgrow -----	Mustang	Medium Late	No	Semi-open	Short
DeKalb -----	BR 64	Medium Late	Yes	Open	Tall
Pioneer Brand ----	B815	Medium Late	Yes	Semi-open	Medium
Southern States --	DR1085	Medium Late	No	Med-open	Medium short

For full season planting, use varieties in the medium and late maturity groups.

For late planting (by June 15 in Northern Piedmont and west of Blue Ridge or July 1-July 15 in Southern Piedmont and Coastal Plains), use hybrids in the early medium early, and medium maturity groups.

For very late planting (by June 15-July 1 in Northern Piedmont or July 25 in Southern Piedmont and Coastal Plains), use only varieties in the very early maturity group.

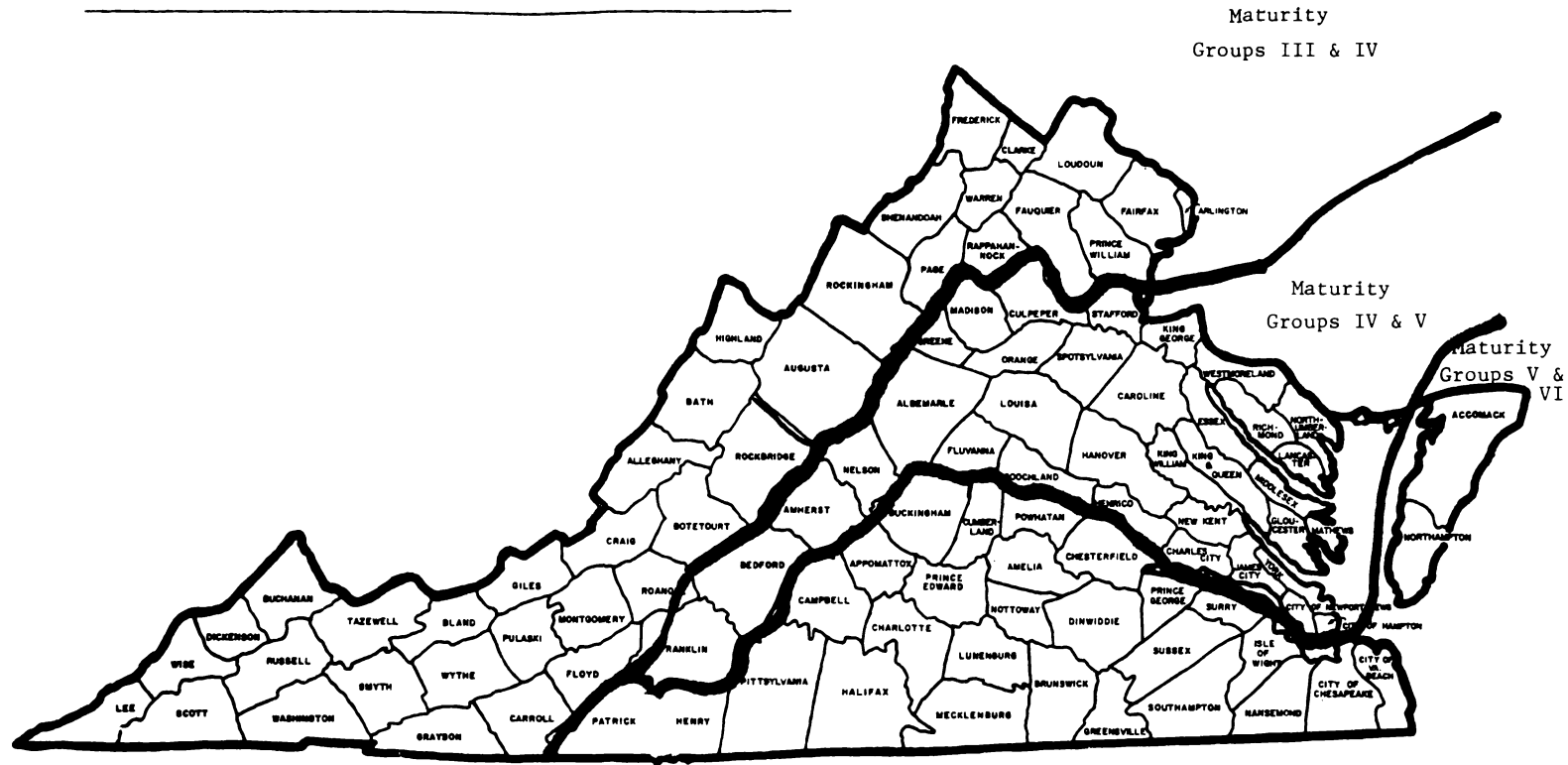
SOYBEAN VARIETIES FOR VIRGINIA\*

Maturity Group III	Maturity Group IV	Maturity Group V	Maturity Group VI	Maturity Group VII
Very Early Sept. 20**	Early Oct. 5	Medium Oct. 20	Late Nov. 5	Very Late Nov. 15
Baron	Agripro AP 350	A 5312	Brysoy 9	Agripro AP 70
Classic II	Agripro AP 40	A 5618	Centennial	Agripro AP 71
Cumberland	Caroline	Agripro 55	Coker 136	Bragg
Cutler 71	Columbus	NAPB 505	Coker 156	Braxton
FFR 335	Falcon	Bay	Davis	Coker 237
Mitchell	Miles	Bedford	Delta Pine 506	GaSoy 17
Mitchell 450	Oakland	Delta Pine 345	Delta Pine 439	Govan
Will	RA 401	Delta Pine 403	FFR 559	McNair 770
Williams	RA 402	Essex	Gail	Ransome
Wilstar 365	Ware	FFR 559	Lancer	Wilstar 790
Woodworth	Wilstar 430	Forrest	Lee 74	Wright
	Wye	McNair 500	Pickett 71	
		Multivar 700	RA 603	
		NAPB 505	RA 604	
		RA 480	Tracy	
		RA 481		
		RA 501A		
		RA 604		
		Shore		
		York		
		Wilstar 550		

\*See Virginia Soybean Variety Evaluation and Test Demonstrations, 1979 and 1980 editions for variety descriptions and performance data. Seed of all varieties may not be available in all areas of the state.

\*\*Average date of maturity. Date may vary several days based on date of planting and environmental conditions.

AREAS OF ADAPTATION SOYBEAN MATURITY GROUPS



PEANUT VARIETIES RECOMMENDED

Variety	Type	Maturity	Relative Yielding Ability		
			Light Soil	Medium Soil	Heavy Soil
Nc 17* -----	Bunch	Early	Fair	Very Good	Good
Florigiant -----	Runner	Medium	Excellent	Excellent	Good
NC 6** -----	Runner	Med-Late	Good	Good	Very Good
NC 7 -----	Runner	Early	Excellent	Excellent	Good
GK 3 -----	Runner	Med-Late	Excellent	Excellent	Very Good

\*In fields having a history of stem rot, this variety should be treated with PCNB (Terrachlor) or Vitavax.  
 \*\*Has shown high level of resistance to southern corn rootworm, moderate level to leafhoppers and low susceptibility to thrips.

## SMALL GRAIN VARIETIES RECOMMENDED

Arranged in order of maturity.

COASTAL PLAIN	PIEDMONT		WEST OF BLUE RIDGE
	South of James River	North of James River	
<u>SPRING OATS</u>			
Spring oats are not recommended for the Coastal Plain area. If spring oats are planted, use one of the Varieties recommended for the Piedmont.	Lang Jaycee Otee Clintford Noble Orbit	Lang Jaycee Otee Clintford Noble Orbit	Lang Jaycee Otee Clintford Noble Orbit
-----			
<u>WINTER OATS</u>			
Southern States 76-30 Windsor Coker 716 Cumberland	Southern States 76-30 Windsor Coker 716 Cumberland Pennwin	Norline Compact Pennwin	Winter Oats Not Recommended West of Blue Ridge
-----			
<u>BARLEY</u>			
Barsoy Surry Henry Maury Volbar	Barsoy Surry Henry Maury Volbar	Barsoy Henry Maury Volbar	Barsoy Henry Maury
-----			
<u>WHEAT</u>			
Coker 747 McNair 1003 Wheeler Coker 762 Tyler Potomac	Coker 747 McNair 1003 Wheeler Coker 762 Tyler Potomac	Coker 747 McNair 1003 Wheeler Coker 762 Tyler Potomac	Coker 747 McNair 1003 Wheeler Tyler
-----			
<u>RYE</u>			
Abruzzi	Abruzzi	Abruzzi	Abruzzi

(a) To be dropped from the recommended list after 1981.

## DESCRIPTION OF WHEAT VARIETIES

Varieties	Bushel Weight	Maturity	Plant Height	Standability	Winter-Hardiness	Powdery Mildew(b)	Leaf Rust(a)
Abe (a) -----	High	Early	Short	Fair	Excellent	Inter.	Resist.
Arthur -----	High	Early	Short	Fair	Excellent	Inter.	Inter.
Arthur 71(a) -----	High	Early	Short	Fair	Excellent	Inter.	Resist.
Coker 747 -----	High	Early	Short	Good	Good	Inter.	Inter.
Hart (a) -----	Medium	Medium	Short	Excellent	Excellent	Suscep.	Inter.
McNair 1003 -----	Low	Early	Short	Good	Good	Resist.	Suscep.
McNair 1813 -----	High	Early	Short	Good	Fair	Resist.	Resist.
Potomac -----	High	Medium	Tall	Fair	Fair	Resist.	Suscep.
Pioneer Brand							
S 76 -----	Medium	Medium	Short	Excellent	Excellent	Suscep.	Inter.
Pioneer Brand							
S 78 -----	Medium	Medium	Short	Excellent	Excellent	Suscep.	Inter.
Roy -----	Medium	Medium	Short	Excellent	Fair	Inter.	Resist.
Sullivan -----	High	Early	Medium	Excellent		Inter.	
Titan -----	Low	Late	Tall	Good	Good	Inter.	Resist.
Coker	Low	Medium	Short	Fair	Fair	Good	Good
Tyler	Medium	Medium	Medium	Good	Good	Good	Poor
Wheeler	High	Early	Medium	Good	Good	Fair	Fair

(a) These wheat varieties have resistance to the Hessian fly.

(b) Inter. - Intermediate; Resist. - Resistant; Sucep. - Susceptible.

DESCRIPTION OF BARLEY VARIETIES

Varieties	Bushel Weight	Maturity	Plant Height	Standability	Winter-Hardiness	Powdery Mildew	Leaf Rust	Scald	Head Type
Barsoy -----	Good	Early	Short	Good	Fair	Inter.	Suscep.	Suscep.	Bearded
Boone -----	Good	Medium	Medium	Fair	Fair	Resist.	Resist.	Inter.	Short Beard
Henry -----	Good	Medium	Medium	Good	Good	Resist.	Resist.	Resist.	Semi-Beard
Maury -----	Fair	Late	Medium	Good	Excel.	Resist.	Inter.	Resist.	Semi-Beard
McNair 601 -----	Fair	Early	Medium	Fair	Poor	Resist.	Suscep.	Inter.	Beardless
Surry -----	Fair	Early	Medium	Good	Fair	Resist.	Inter.	Resist.	Semi-Beard
Volbar -----	Fair	Late	Tall	Fair	Fair	Suscep.	Suscep.	Resist.	Bearded

DESCRIPTION OF OAT VARIETIES

Spring Varieties	Bushel Weight	Maturity	Plant Height	Standability	
Clintland 64 -----	Fair	Medium	Medium	Good	
Jaycee -----	Fair	Early	Short	Fair	
Lang -----	Fair	Early	Short	Good	
Noble -----	Fair	Medium	Medium	Good	
Otee -----	Good	Early	Short	Good	

Winter Varieties	Bushel Weight	Maturity	Plant Height	Standability	Winter-Hardiness
Brooks -----	Good	Early	Short	Fair	Poor
Coker 716 -----	Good	Early	Short	Fair	Fair
Cumberland -----	Good	Medium	Medium	Good	Fair
Norline -----	Good	Late	Medium	Poor	Excellent
Pennwin -----	Good	Late	Medium	Fair	Excellent
Windsor -----	Good	Early	Medium	Good	Fair
SS 76-30 -----	Good	Early	Medium	Fair	Good

TOBACCO

Because of the many factors involved in production, curing, and marketing tobacco, Virginia Tech does not recommend specific varieties. The following information is given to assist you in the selection of the variety which will best suit your operation. Additional information is available from your Extension Agents.

SUN-CURED

Little Sweet Orinoco, Va. 407 and Va. 409 are the only varieties which have the characteristics desired by the principal buyers of Type 37 Tobacco. Little Sweet Orinoco is susceptible to black root rot. Virginia 407 has acceptable quality and moderate resistance to black root rot and produces high yields in the presence of this disease-causing organism. Some growers have experienced difficulty with leaf-drop with Va. 407.

BURLEY TOBACCO

Variety	Root Rot Resistance	Wildfire Resistance	Black Shank Resistance	Mosaic Resistance	Fusarium Resistance	Leaf Spacing	Maturity
Burley 21 -----	Moderate	High	None	High	None	Medium	Medium
Burley 37 -----	Moderate	High	Moderate	None	Moderate	Medium	Medium-Early
Burley 49 -----	Very High	High	Moderate	High	Low	Medium	Medium
Burley 64 -----	High	High	Moderate	High	Moderate	Close	Late
Virginia 509 -----	Moderate	High	Moderate	None	Low	Medium	Medium
Virginia 528 -----	Moderate	High	Moderate			Medium	Medium
Ky. 9 -----	Moderate	None	None	High	None	Medium	Medium
Ky. 10 -----	Moderate	None	None	High	Moderate	Medium	Medium
Ky. 12 -----	High	High	None	High	High	Close	Late
Ky. 14 -----	High	High	None	High	High	Medium	Late
Ky. 15 -----	High	High	None	High	Med-High	Medium	Late
Ky. 17 -----	High	High	Moderate	High	Moderate	Medium	Late
				F <sub>1</sub> HYBRIDS			
Burley 21 x Ky. 9 -----	High	High	None	High	None	Medium	Medium
Burley 21 x Ky. 10 -----	High	High	None	High	Low	Medium	Medium
Burley 21 x Ky. 12 -----	High	High	None	High	Moderate	Close	Medium
Burley 37 x L8 -----	High	High	High (a)	High	Low	Wide	Early
Ky. 14 x L8 -----	High	High	High (b)	High	No Data	Medium	Medium

(a) High resistance to race 0, but moderate resistance to race 1.  
 (b) High resistance to race 0, but none to race 1.

DESCRIPTION OF FIRE-CURED TOBACCO VARIETIES

Variety	Disease Resistance			Leaf Spacing	Leaf Size	Leaf Body	Firing or Specking
	Black Root Rot	Black Shank	Mosaic				
Brown Leaf -----	Fair	None	None	Medium	Large	Medium	Little
Hastings -----	None	None	None	Medium	Medium	Heavy	Medium
Lizard Tail Orinoco ----	Poor	None	None	Close	Medium	Med. Heavy	Medium
Nance -----	Poor	None	None	Medium	Medium	Medium	Medium
Sears Special	Moderate	None	None	Wide	Medium	Thin	Little
Virginia 309-----	Moderate	Moderate	None	Medium	Medium	Medium	Little
Virginia 310 -----	Fair	Moderate	None	Close	Large	Medium	Little
Virginia 312 (a) -----	Excellent	None	Good	Medium	Large	Thin	Little
Virginia 331 (b) -----	Poor	Moderate	None	Medium	Large	Thin	Little
Walkers Broad Leaf -----	Fair	None	None	Medium	Large	Thin	Little

(a) Suggested where mosaic or root rot are severe problems.

(b) Suggested only where black shank is a problem.

DESCRIPTION OF FLUE-CURED TOBACCO VARIETIES

Variety	Black Shank	Mosaic Virus	Root Knot	Granville Wilt	Black Root Rot	Leaf Spacing	Plant Height	Maturity	Ground Suckers
Coker 48	High	None	None	High	None	Med.	Tall	Med.	Low
Coker 187-Hicks	High	None	None	Med.	None	Wide	Tall	Early	Med.
Coker 319	Low	None	None	Low	None	Med.	Med.	Med.	Low
Coker 347	Med.	None	High	Med.	Low	Close	Med.	Late	Low
Coker 411	High	None	None	Med.	None	Med.	Short	Med.	Low
McNair 944	High	None	None	High	None	Med.	Med.	Med.	Low
McNair 373	Med.	None	High	High	None	Close	Short	Med.	Low
NC 82	High	None	None	High	None	Med.	Med.	Med.	Low
NC 79	Med.	None	High	Med.	None	Med.	Med.	Late	Low
NC2326	Med.	None	None	Low	None	Wide	Med.	Med.	Low
SC 72	Med.	High	High	High	None	Med.	Med.	Med.	Low
Speight G-28	High	None	High	High	Low	Close	Short	Med.	Low
Speight G-70	High	None	High	Med.	None	Med.	Med.	Med.	Low

For further information, refer to publication SP- 37

16  
RECOMMENDED TURFGRASS VARIETIES FOR LAWNS

For Further Information Refer to Publication 311

	Northern Piedmont and West of the Blue Ridge		Coastal Plain and Southern Piedmont		
	Sunny Areas	Shaded Areas	Sunny Areas	Partial Shade	Heavy Shade
Kentucky Bluegrass	yes	yes	no	yes	yes
Creeping Red Fescue	no	yes	no	no	yes
Tall Fescue	yes	yes	yes	yes	yes
Bermudagrass	no	no	yes	no	no
Zoysia	yes*	no	yes	yes	no

\*At lower elevations

VARIETIES

Cool Season Grasses

Mixtures and blends of cool season grass varieties give a more dependable high quality turf than any single variety seeded alone. The following varieties are recommended in mixtures when considering a pre-dominant lawn of:

1. Kentucky bluegrass

Individual varieties selected should make up 10 to 35% of the total mixture on a weight basis. Add Pennlawn creeping red fescue (Category III) in heavily shaded areas.

Category I - Proven Cultivars

20 - 100% Certified Adelphi, Berka, Enmundi, Merion, Plush, Victa or Warrens A-34.

Category II - Compatible Cultivars

0 - 70% Certified Baron, Cheri, Rugby, Sydsport, Touchdown or Vantage

Category III - Optional Use Grasses\*

0 - 35% Certified Kenblue, South Dakota Certified  
0 - 50% Certified Pennlawn Creeping Red Fescue

Seeding Rate: 2 to 3 lbs. per 1000 sq. ft.  
Seeding Dates: August 15 to September 30  
March 1 to April 15

\*Kenblue and South Dakota Certified Kentucky bluegrass are suitable in low management areas where high quality is not an objective. Pennlawn Creeping red fescue should be added to mixtures that will be moderately to heavily shaded.

NOTE: Where erosion is a concern or seedings are being made outside of recommended dates, the addition of Certified Perennial ryegrass to the Kentucky bluegrass mixture at 1/4 lb. per 1000 sq. ft. is recommended. Perennial ryegrass varieties recommended are: Pennfine, Citation, Derby, Birdie and Diplomat.

2. Tall Fescue

90 - 100% Certified Kentucky 31 Tall Fescue  
0 - 10% South Dakota Certified or Kenblue Kentucky bluegrass  
Seeding Rate: 5 to 6 lbs. per 1000 sq. ft.  
Seeding Dates: August 15 to September 30

3. Warm Season Grasses

BERMUDAGRASS:

Vegetatively established (2 to 7 bushels sprigs/1000 sq. ft.)

Tufcote Midiron  
Tifgreen(328) Tifway(419)

Seeded

Common Arizona  
Hulled (21bs/100 sq. ft.)  
Unhulled (5 to 10 lbs./1000 sq. ft.)

ZOYSIA

Vegetatively established (2 to 7 bushels sprigs/1000 sq. ft.)  
Meyer Emerald