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Crop Variety Trials in Illinois-2002



Crop Sciences Special Report 2002-02

Performance Information Provided by

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

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CONTENTS

TEST PROGRAM	2
PERFORMANCE DATA	2
SUGGESTIONS FOR COMPARING ENTRIES	2
2002 TEST FIELDS	3
2002 GROWING SEASON RAINFALL	3
SOURCES OF SEED	3
2002 TEST FIELD LOCATIONS	4
2002 ENTRIES	5
DISEASE AND FALL DORMANCY RATINGS	8
RESULTS OF VARIETY TESTS	10

ALFALFA TRIALS

Freeport	10-12
Yorkville	13
Urbana	14-16
Perry	17
Belleville	18-19

GRASS TRIALS

Freeport	20
Urbana	21
Perry	22

DATA ALSO AVAILABLE AT: <http://vt.cropsci.uiuc.edu>

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PERFORMANCE OF COMMERCIAL FORAGES IN ILLINOIS

THE UNIVERSITY OF ILLINOIS commercial forage testing program has been testing public and private forages for over 51 years. The initial purpose was to evaluate the many public varieties available, today public varieties are far out numbered by private varieties. This year 44 seed companies are participating in the 2002 trials.

The purpose of this commercial forage testing program is to provide unbiased, objective, and accurate testing of all varieties entered. The tests are conducted on as uniform a soil as is available in the testing area. Small plots are used to reduce the chance of soil and climatic variations occurring between one variety plot and another.

The results of these tests should help you judge the merits of varieties in comparison with other private and public varieties. Because your soils and management may differ from those of the test location, you may wish to plant variety strips of the higher-performing varieties on your farm. The results printed in this circular should help you decide which varieties to try.

TEST PROGRAM

Selection of entries Forage producers in Illinois and surrounding states were invited to enter varieties in the 2002 Illinois forage performance trials. Entrants were required to provide seed in a commercially available container to the University of Wisconsin for distribution to other public testing programs. This is to ensure performance is not affected by seed source and to avoid each entrant the cost of sending a commercial bag of seed to each program.

To help finance the testing program, a fee of \$450 per location per 4 years was charged for each variety entered by the seed producer. Most of these varieties are commercially available, but some experimental varieties were also entered. A total of 140 varieties were tested in 2002.

Number and location of tests In 2002, tests were conducted at 5 locations throughout the state (see map on pg. 4). These sites represent the major soils and dairy producing areas of the state.

Field plot design Entries of each test were replicated four times in a randomized complete block. Plot size was 23 feet by 3 feet and end trimmed at each harvest to obtain a 19 foot long plot.

Fertility and weed control All test locations were managed at a high level of fertility for each crop. Herbicides were used at all test locations for weed control.

Method of planting and harvesting All trials were seeded with a five row seeder modified to accommodate small plot seeding. Plots were seeded at 18 pounds per acre. Harvests were taken with a custom built flail chopper equipped with electronic data gathering equipment.

PERFORMANCE DATA

Yield Forage yield is reported in tons dry matter per acre. Yields were converted to a dry matter basis by estimating percent moisture within each trial.

SUGGESTIONS FOR COMPARING ENTRIES

It is impossible to obtain an exact measure of performance when conducting any test of plant material. Harvesting efficiency may vary, soils may not be uniform, and many other conditions may produce variability. Results of repeated tests are more reliable than those of a single year or a single-strip test. When one variety consistently out yields another at several test locations and over several years of testing, the chances are good that this difference is real and should be considered in selecting a variety.

As an aid in comparing alfalfa varieties within a single trial, certain statistical tests have been devised. One of these tests, the least significant difference (L.S.D.), when used in the manner suggested by Carmer and Swanson¹ is quite simple to apply and is more appropriate than most other tests. When two entries are compared and the difference between them is greater than the tabulated L.S.D. value, the entries are judged to be "significantly different."

The L.S.D. is a number expressed in tons dry matter per acre and presented following the average yield. An L.S.D. of 5% is shown. Add the L.S.D. value to the trial mean. Every variety with a greater yield than the resulting number is 'statistically better than average. Consider the merits of the varieties in this group when making varietal selections.

To make the best use of the information presented in this circular and to avoid any misunderstanding or misrepresentation of it, the reader should consider an additional caution about comparing entries. Readers who compare entries in different trials should be extremely careful, because no statistical tests are presented for that purpose. Readers should note that the difference between a single entry's performance at one location and its performance at another is caused primarily by environmental effects and random variability. Furthermore, the difference between the performance of entry A in one trial and the performance of entry B in another trial is the result not only of environmental effects and random variability, but of genetic effects as well.

¹Carmer, S.G. and M.R. Swanson. "An Evaluation of Ten Pairwise Multiple Comparison Procedures by Monte Carlo Methods." Journal of American Statistical Association 68:66-74. 1983.

2002 TEST FIELDS**Freeport**

Location: Stephenson county, north of Freeport, north central Illinois.

Cooperators: Dave and Mike Macomber.

Yorkville

Location: Kendall county, south of Yorkville, north eastern Illinois.

Cooperator: Dave Stewart.

Urbana

Location: University of Illinois, Crop Sciences Research and Education Center, Champaign County, east central Illinois.

Cooperators: Robert Dunker, agronomist, Mike Kleiss, farm foreman.

Perry

Location: University of Illinois, Orr Agricultural Research and Demonstration Center, near Perry, Pike County, west central Illinois.

Cooperators: Glenn Raines, agronomist; Mike Vose, farm foreman.

Belleville

Location: Southern Illinois University Research Center, east of Belleville, St. Clair County.

Cooperators: Ed Varsa, research director; Ron Krausz, field manager.

2002 GROWING SEASON RAINFALL

Location	April	May	June	July	Aug
Freeport	4.90	2.70	6.90	1.40	12.0
Yorkville	4.40	4.80	3.20	1.60	3.10
Urbana	4.30	5.60	2.50	3.20	7.60
Perry	5.66	9.15	4.60	4.75	4.46
Belleville	4.90	6.60	1.70	3.70	3.62

SOURCES OF SEED

ABI Alfalfa, ABI Alfalfa, Inc., 2316 259th St., Ames, IA 50014

AgriBioTech, AgroBioTech, Inc., 120 Corporate Park Dr., Henderson, NV 89014

AgriPro, AgriPro Seeds, Inc., R.R. 2, Hwy 30 East, Ames, IA 50010

America's Alfalfa, ABI Alfalfa, 2316 259th St., Ames, IA 50014

Ampac, Ampac Seed Co., P.O. Box 318, Tangent, OR 97389

Bio Plant, Bio Plant Research, P.O. Box 320, Camp Point , IL 62320

Callahan, Callahan Seeds, 1122 East 169th St., P.O. Box 367, Westfield, IN 46074-0367

Cargill, Cargill Hybrid Seeds, P.O. Box 5645, Minneapolis, MN 55440

Cebeco , Cebeco International seeds inc., P.O. Box 229 / 175 W. "H" Street, Halsey, OR 97333

Dairyland, Dairyland Seed Co., P.O. Box 958, West Bend, WI 53095

Dekalb, Monsanto, 3100 Sycamore Road, Dekalb, IL 60115

Delong, The Delong Co., P.O. Box 522, Clinton, WI 53525

FFR, FFR Cooperative, 4112 E. St. Rd. 225, West Lafayette, IN 47906

DLF, DLF-JENKS, P.O. Box 216, Albany, OR 97321

Emerald, Emerald Commodities Inc., 32041 Cartney Dr. Harrisburg, OR 97466

Garst, Garst Seed Co., 2369-330th St, P.O. Box 500, Slater, IA 50244

Geertson, Geertson Seed Farms, 1665 Burroughs Rd.,Adrian, OR 98901

George Keller, George Keller & Sons Co., P.O. Box 490, 909 Maine St., Quincy, IL 62306-0490

Golden Harvest, Golden Harvest Seed Co., 27420 137th Ave. N., Cordova, IL 61242

Grassland West, Grassland West Co., 908 Port Dr., Clarkston, WA 99403

Great Plains, Great Plains Research Co., 3624 Kildaire Farm Road, Apex, NC 27502

Growmark, Growmark Inc., 1701 Towanda Ave., Bloomington, IL 61701

Improved Forages, Improved Forages, P.O. Box 230, Lake Oswego, OR 97034

Int'l Seeds, International Seeds, Inc., P.O. Box 168, Halsey, OR 98348

Jenks Seed, Jenks Seed Connection, 34058 Oakville Road, P.O. Box 1468, Albany, OR 98321

Kaltenberg, Kaltenberg Seed Farms, P. O. Box 278, Waunakee, WI 53597

Kitchen, Kitchen Seed Company, Inc., P.O. Box 286, Arthur, IL 61911

Lewis, Lewis Seed Co., 33820 Linn-West Dr. Shedd, OR 97377

MBS, MBS, 225 West First St., Story City, IA 50248

Mountain View Seeds, Mountain View Seeds, 8955 Sunny View Rd. NE, Salem, OR 97305

NC+, NC+ Hybrid, P.O. Box 4408, Lincoln, NE 68504

NetSeeds, NetSeeds, Inc., 9001 Hickman Rd., Ste 320, Urbandale, IA 50322

Ottolie, Ottolie Seed Farms. Seeds, 1462 Sanford Ave., Marshalltown, IA 50158

Pennington Seed, Pennington Seed, Inc. of Oregon, Lebanon, OR 98355

Pickseed, Pickseed Canada Inc., 1 Greenfield Rd., Lindsay, ON K9V453

Pioneer, Pioneer Hi-bred International, Inc., 14171 Carole Dr., Bloomington, IL 61704

Public Varieties, Various sources

Pyne Gould Guinness, Pyne Gould Guinness, 411 Blenheim Rd., Christchurch, New Zealand 8015

Renk, Renk Seed Co., 6800 Wilburn Road, Sun Praire, WI 53590

Schultz, Schultz Turf and Forage Seed, P.O. Box 1623, Effingham, IL 62401

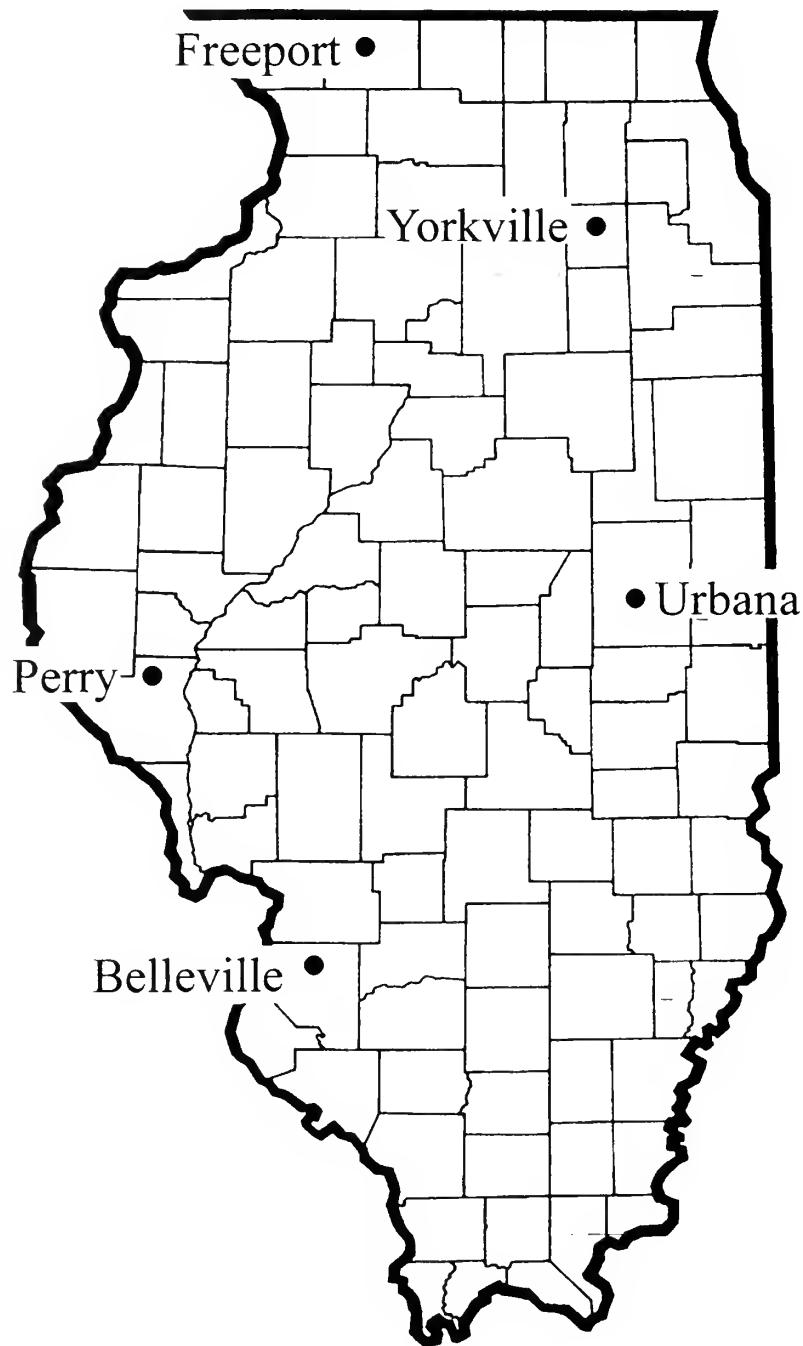
Seed Research, Seed Research of Oregon, 27630 Llewellyn Rd. Corvalis, OR 97333

Smith Seed, Smith Seed Services, P.O. Box 288, Halsey OR 97348

United Suppliers, United Suppliers Inc., P.O. Box 538, Eldora, IA 50627

W-L Research, W-L Research, Inc., 8701 W. US Hwy. 14, Evansville, WI 53536-8752

2002 FORAGE LOCATIONS



2002 Alfalfa and Forage Grass Entries

* experimental			Freeport	Yorkville	Urbana	Perry	Belleville
Marketer	Brand-Variety	99 00	01 02	99 99	00 01	02 99	01 99 00
GARST	631	x	x	x	x x		
GARST	6310	x		x			
GARST	6410	x	x x	x	x x		
GEERSTON	9701	x					
GARST	3R22*					x	
KALTENBERG	4 TRAFFIC		x				
GARST	4G70*					x	
FFR	4R37*			x			x
PIONEER	53H81			x x			x
PIONEER	53H81*	x		x x			x
PIONEER	53Q60	x	x x x	x x		x x	
PIONEER	54H91		x				
PIONEER	54V54		x x	x x			x
PIONEER	54V54*	x		x x			
GARST	6420		x				
GARST	645-II	x	x x	x x			
KITCHEN	797 LHR				x		
GEERSTON	9702	x					
MBS	A 30-06	x				x	
MBS	A-395					x	
BIO PLANT RESEARCH	ABUNDANCE	x		x			
GEORGE KELLER	ABSOLUTE BRAND	x			x x	x x	
GEORGE KELLER	ABSOLUTE BRAND GZ	x		x x	x x	x x	
GEORGE KELLER	ABSOLUTE BRAND II	x		x			
AGRIBIOTECH	ABT 400 SCL					x	
AMERICA'S ALFALFA	AMERIGUARD 302 +Z ..	x		x			
AMERICA'S ALFALFA	AMERISTAND 403T	x		x			
AG VENTURE	AV 3420	x					
CALLAHAN	AWESOME	x				x	
BARENBRUG	BARALFA 54					x	
W-L RESEARCH	C 207*	x					
W-L RESEARCH	C 224*	x					
W-L RESEARCH	C 316*	x					
W-L RESEARCH	C 416*					x	
GREAT PLAINS	CIMARRON SR				x		
FFR	CLEAN SWEEP 1000				x		
AGRIPRO	DEFENSE +EV		x			x x	
DEKALB	DK 131 HG			x	x	x x	
DEKALB	DK 134	x					
DEKALB	DK 140	x			x	x x	
DEKALB	DK 141	x			x	x x	
DEKALB	DKA 42-15	x		x			
AMERICA'S ALFALFA	EMPEROR	x				x	
BIO PLANT RESEARCH	ENHANCER	x		x			
KITCHEN	EXTENDER II			x			
AGRIPRO	FEAST +EV	x	x x			x	
CARGILL	FQ 302 HR			x			
CARGILL	FQ 315	x				x	
GOLDEN HARVEST	GH 700	x					
BIO PLANT RESEARCH	GOLD LEAF	x		x			
DARIYLAND	HYBRIFORCE-400	x		x			
AMERICA'S ALFALFA	IMPERIAL	x					
SCHULTZ	INTRIGUE			x			
NC+ HYBRIDS	JADE II			x			
DARIYLAND	MAGNUM V	x		x			
NETSEED	NETYIELD 500*	x					
GROWMARK	PEGASUS			x			

2002 Alfalfa and Forage Grass Entries

Marketer	Brand-Variety	Freeport				Yorkville				Urbana				Perry				Belleville				
		99	00	01	02	99	99	00	01	02	99	01	99	00	99	01	99	00	99	01	99	00
BIO PLANT RESEARCH	PROLIFIC				x					x												
DELONG	RADIANT			x																		
GROWMARK	RELIANCE			x														x				
PGI ALFAFLA	REWARD II				x																	
GEERSTON	RHINO	x																				
GROWMARK	ROCKET			x				x										x				
GROWMARK	ROCKET*	x				x			x										x			
PUBLIC	SARANAC AR	x					x	x	x		x			x		x		x		x		
CALLAHAN	STELLAR																	x				
ALLIED SEED	TRIPLE CROWN				x																	
OTTILIE	TRUMP	x		x																		
UNITED SUPPLIERS	US A4230				x																	
PUBLIC	VERNAL	x		x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	
W-L RESEARCH	W 201*	x																				
W-L RESEARCH	W 304*	x																				
W-L RESEARCH	W 311*	x																				
W-L RESEARCH	W 324*	x																				
W-L RESEARCH	W 330*	x																				
W-L RESEARCH	W 426*	x																				
BIO PLANT RESEARCH	WETLAND	x				x		x		x												
RENK	WINTER GOLD	x																				
GROWMARK	WL 319 HQ				x																	
GROWMARK	WL 327									x												
GROWMARK	WL 338 SR									x												
GROWMARK	WL 342		x																			
AGRIPRO	YIELDER					x					x							x				
ABI ALFALFA	ZH 9825 H*						x				x											
ABI ALFALFA	ZH 9831 H*					x					x											

Perennial Forage Grasses

PENNINGTON	AGRIBW 101 TF ¹															x						
SCHULTZ TURF & FORAGE	ALBERT OG										x											
IMPROVED FORAGES	BESTFOR LH										x											
PUBLIC	BISON HRG										x	x										
GRASSLAND WEST	BRONC OG					x																
IMPROVED FORAGES	BULL TF				x	x																
JENKS	CAS-LG31 OG			x																		
PYNE GOULD GUINNESS	CAS-M85 TF			x																		
SEED RESERCH OF OREGON	CENTURY OG				x						x											
CEBECO INTL. SEEDS	CISI OG 10* OG					x					x											
PUBLIC	CLAIR TM						x				x	x										
DLF-JENKS	DEBORAH* SB					x					x											
AMPAC	DIXON PB						x					x						x				
AMPAC	DUO FS							x				x						x				
AMPAC	EASTWOOD OG	x						x		x		x					x					
EMERALD	EC406* RC								x			x										
EMERALD	EC407* PRG								x			x										
ALLIED SEED	EXTEND SB									x		x										
DLF-JENKS	FELINA FS									x		x										
PICKSEED	FESTIVAL TF	x					x					x				x						
SMITH SEED SERVICES	GRAND DADDY PRT							x		x		x										
JENKS	HOEDOWN TF							x			x											
SEED RESERCH OF OREGON	ICON OG								x			x										
AMPAC	K566 V* TF								x			x										
PUBLIC	KENTUCKY 31 TF	x				x			x	x	x	x										

2002 Alfalfa and Forage Grass Entries

* experimental Marketer	Brand-Variety	Freeport				Yorkville				Urbana				Perry				Belleville			
		99	00	01	02	99	99	00	01	02	99	01	99	00	99	01	99	00	99	01	99
AMPAC	KOKANEE TF		x												x						
DLF-JENKS	KORA TF											x									
CEBECO INT'L. SEEDS	LATEMATE OG											x									
AMPAC	LATOKA PB												x								
PUBLIC	LINCOLN SB										x	x									
ALLIED SEED	MARATHON RC										x										
INT'L SEEDS	MARTIN 2 TF							x													
PUBLIC	MATUA PB											x									
AMPAC	MAVERICK GOLD RG ..										x										
PENNINGTON	MAX Q JESUP TF	x						x				x			x						
ALLIED SEED	OG 970I OG										x										
FFR	OG9705G OG	x																			
PICKSEED	OKAY OG	x										x									
PUBLIC	PALATON RC										x										
ALLIED SEED	PEAK SB										x										
PUBLIC	POTOMAC OG	x					x			x	x	x		x							
AMPAC	QUANTUM* TF										x										
AMPAC	QUARTET PRG										x										
LEWIS SEED CO.	RAD-MA216* TF										x										
FFR	SELECT TF	x																			
ALLIED SEED	SUMMIT TM										x										
SMITH SEED SERVICES	TAKENA OG										x										
MOUNTAIN VIEW	TETON TF							x													
PUBLIC	TONGA PRT	x					x		x	x	x	x		x							
AMPAC	TUUKKA TM										x			x							
IMPROVED FORAGES	UDDER OG							x		x											
LEWIS SEED CO.	VALLY SELECT MX ...										x			x							
AMPAC	YORK* SB								x												

*OG= Orchard grass
 PR= Perennial ryegrass
 SB= Smooth bromegrass
 TF= Tall fescue
 C= Chicory
 TM= Timothy
 RC= Reed canarygrass

PG= Prairie grass
 HRG= Hybrid ryegrass
 PRT= Perennial ryegrass tetraploid
 MX= Mixture
 FS= Festulolium
 LH= Lolium Hybidum
 PB= Prairie Brome grass

Disease and Fall Dormancy Ratings of Alfalfa Varieties in Illinois

Brand-Variety	FD*	BW	PR	AP	VW	FW	AN	PA	SN	RN	LH
631	4	HR	HR	MR	R	HR	R	HR	R	-	S
6310^	3	HR	HR	R	HR	HR	HR	R	MR	-	R
6410	4	HR	MR	-	S						
9701^	3	R	HR	R	R	HR	R	-	-	-	-
3R22^	3	HR	HR	R	HR	HR	HR	HR	R	-	HR
4 TRAFFIC	4	HR	HR	R	HR	HR	HR	HR	-	-	-
4G70^	4	HR	MR	-	-						
4R37^	3	HR	HR	R	R	HR	HR	-	-	-	R
53H81	3	HR	R	HR	HR	HR	HR	R	-	-	-
53H81^	3	HR	HR	HR	HR	HR	HR	R	-	-	HR
53Q60	3	HR	HR	R	R	R	HR	MR	R	MR	S
54H91	4	HR	HR	R	HR	R	HR	R	MR	MR	-
5454	4	R	HR	LR	MR	HR	HR	R	MR	ND	ND
54V54	4	HR	HR	MR	HR	HR	HR	-	LR	-	LR
6420	4	HR	HR	R	R	HR	-	R	R	HR	-
645-II	3	HR	HR	R	R	HR	HR	R	MR	-	S
797 LHR^	3	HR	HR	R	HR	HR	HR	R	-	-	R
9702	4	HR	HR	R	HR	HR	M	R	-	-	-
A 30-06	3	HR	HR	HR	HR	HR	HR	R	-	-	-
A-395	3	HR	HR	R	R	HR	HR	MR	MR	-	-
ABUNDANCE	4	NR	HR	R	R	HR	R	R	R	HR	-
ABSOLUTE BRAND^	4	HR	R	-	R	R	HR	R	ND	-	-
ABSOLUTE BRAND GZ^	4	HR	HR	MR	MR	HR	HR	HR	R	ND	ND
ABSOLUTE BRAND II^	4	HR	HR	R	R	HR	HR	HR	R	-	-
ABT 400 SCL	4	HR	HR	HR	HR	HR	HR	R	-	-	-
AMERIGUARD 302+Z^	3	HR	HR	HR	HR	HR	HR	R	R	-	-
AMERISTAND 403T	4	HR	HR	R	HR	HR	HR	MR	-	-	-
AV 3420	4	HR	HR	HR	R	HR	HR	-	R	-	-
AWESOME^	4	HR	HR	HR	HR	HR	HR	-	-	-	-
BARALFA 54	5	R	HR	-	R	HR	HR	HR	R	-	-
C 207^	3	HR	HR	HR	HR	HR	HR	-	-	-	-
C 224^	2	HR	HR	HR	HR	HR	HR	-	-	-	-
C 316^	4	HR	HR	R	HR	HR	HR	-	-	-	-
C 416^	4	HR	HR	HR	R	HR	HR	-	-	-	-
CIMARRON SR^	4	HR	HR	MR	HR	HR	HR	HR	R	R	-
CLEAN SWEEP 1000	3	HR	HR	R	R	HR	HR	R	-	-	R
DEFENSE +EV	3	HR	HR	HR	HR	HR	HR	R	-	-	R
DK 131 HG^	3	HR	HR	R	HR	HR	HR	MR	MR	-	HR
DK 134^	3	HR	MR	-	-						
DK 140	4	HR	HR	HR	R	HR	HR	R	MR	-	-
DK 141	4	HR	HR	HR	HR	HR	HR	R	MR	-	-
DKA 42-15	4	HR	R	-	-						
EMPEROR	4	HR	HR	HR	HR	HR	HR	R	MR	-	-
ENHANCER	4	HR	HR	MR	R	HR	R	-	-	-	-
EXTENDER II	4	HR	HR	MR	R	HR	HR	HR	MR	MR	S
FEAST +EV	3	HR	HR	HR	HR	HR	R	MR	MR	-	-
FQ 302 HR^	3	HR	HR	R	R	HR	HR	-	R	-	HR
FQ 315^	3	HR	HR	HR	R	HR	HR	R	R	-	-
GH 700	4	HR	R	-	-						
GOLD LEAF	4	HR	HR	R	R	HR	R	R	R	HR	-
HYBRIFORCE-400	4	HR	HR	MR	R	HR	R	R	R	HR	-
IMPERIAL	3	HR	HR	R	R	HR	HR	HR	LR	-	-
INTRIGUE	4	HR	R	-	-						
JADE II	4	HR	HR	MR	R	HR	R	R	-	MR	-
MAGNUM V	4	HR	HR	MR	R	HR	R	R	R	MR	-
NETYIELD 500^	4	HR	HR	MR	R	MR	R	R	R	HR	-
PEGASUS	4	HR	HR	R	HR	HR	HR	-	R	-	-
PROLIFIC	3	HR	HR	R	R	HR	R	R	R	HR	-
RADIANT	4	HR	HR	HR	HR	HR	HR	R	R	-	-
RELIANCE	3	HR	HR	R	HR	HR	HR	R	MR	-	-
REWARD II	4	HR	HR	R	R	HR	R	R	R	HR	S

* See page 9 for abbreviation key.

^ Varieties not reviewed by the Alfalfa Council.

Disease and Fall Dormancy Ratings of Alfalfa Varieties in Illinois

Brand-Variety	FD*	BW	PR	AP	VW	FW	AN	PA	SN	RN	LH
RHINO	3	HR	R	R	R	R	R	HR	R	-	-
ROCKET	3	HR	HR	HR	R	HR	HR	R	MR	-	-
ROCKET^	3	HR	-	-							
SARANAC AR	4	MR	-	-	-	R	HR	S	-	-	LR
STELLER	4	HR	HR	LR	HR	HR	HR	R	-	-	-
TRIPLE CROWN	3	HR	HR	HR	R	HR	HR	HR	MR	-	-
TRUMP^	3	HR	HR	HR	R	HR	HR	R	-	-	-
US A4230	4	HR	HR	HR	HR	HR	HR	R	R	-	-
VERNAL	2	R	-	-	-	MR	-	-	-	MR	-
W 201^	4	HR	HR	HR	HR	HR	HR	-	-	-	-
W 304^	3	HR	HR	HR	HR	HR	HR	-	-	-	-
W 311^	4	HR	HR	HR	HR	HR	HR	-	-	-	-
W 324^	2	HR	HR	R	R	HR	HR	-	-	-	-
W 330^	3	HR	HR	HR	HR	HR	HR	-	-	-	-
W 426^	2	HR	HR	R	HR	HR	HR	-	-	-	-
WETLAND	3	R	HR	MR	MR	R	R	-	-	-	-
WINTER GOLD	4	HR	HR	HR	HR	HR	HR	R	-	-	-
WL 319 HQ	3	HR	MR	-	-						
WL 327	4	HR	HR	HR	R	HR	HR	R	R	-	-
WL 338 SR	4	HR	HR	HR	R	HR	HR	R	-	-	-
WL 342	4	HR	R	-	-						
YIELDER	3	HR	HR	MR	R	HR	R	R	-	-	-

*FD=Fall Dormancy Rating

- 1 = Norseman
- 2 = Vernal
- 3 = Ranger
- 4 = Saranac

Disease and Pest Abbreviations

- BW = Bacterial Wilt
- PR = Phytophthora Root Rot
- AP = Aphanomyces
- VW = Verticillium Wilt
- FW = Fusarium Wilt
- AN = Anthracnose
- PA = Pea Aphid
- SN = Stem Nematode
- RN = Root Knot Nematode
- LH = Leafhopper

Resistance Class	% Resistant Plants
HR = High Resistance	>50
R = Resistant	31-50
MR = Medium Resistance	15-30
LR = Low Resistance	6-14
S = Susceptible	0-5
ND = Not Determined	

1999 Freeport Alfalfa Variety Trial

Brand-Variety * Experimental	2002					2001	2000	3-yr	Relative
	5/25 T DM/A	6/25 T DM/A	7/24 T DM/A	8/27 T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Yield % Trial Mean
WINTER GOLD	2.50	2.38	1.91	1.70	8.49	7.19	7.40	23.09	110
TRUMP	2.57	2.45	1.90	1.67	8.59	7.16	7.23	22.97	109
54V45*	2.48	2.27	1.74	1.65	8.14	7.08	7.49	22.70	108
ROCKET*	2.57	2.29	1.73	1.67	8.26	6.95	7.34	22.55	107
FQ 315	2.66	2.23	1.71	1.62	8.21	6.86	7.43	22.49	107
DK 140	2.53	2.24	1.70	1.62	8.09	7.01	7.38	22.47	107
W 330*	2.42	2.09	1.64	1.63	7.78	6.92	7.56	22.25	106
W 311*	2.41	2.21	1.71	1.61	7.93	6.75	7.52	22.20	105
C 207*	2.40	2.06	1.60	1.59	7.64	6.88	7.63	22.15	105
ENHANCER	2.68	2.15	1.62	1.61	8.05	6.85	7.17	22.08	105
6410	2.28	2.25	1.70	1.61	7.83	6.72	7.34	21.88	104
AWESOME	2.41	2.08	1.64	1.58	7.71	6.75	7.33	21.79	103
W 201*	2.32	2.03	1.51	1.50	7.34	7.08	7.23	21.65	103
W 324*	2.49	2.11	1.57	1.54	7.70	6.79	7.05	21.54	102
RHINO	2.31	2.08	1.59	1.58	7.56	6.76	7.13	21.44	102
W 304*	2.21	2.18	1.57	1.60	7.55	6.56	7.33	21.44	102
53Q60	2.49	2.13	1.58	1.50	7.69	6.44	6.99	21.12	100
C 316*	2.32	1.99	1.49	1.50	7.30	6.63	6.90	20.82	99
W 426*	2.31	2.13	1.56	1.49	7.48	6.29	7.03	20.80	99
IMPERIAL	2.35	2.16	1.53	1.51	7.53	6.34	6.91	20.78	99
EMPEROR	2.47	2.07	1.53	1.50	7.57	6.34	6.86	20.77	99
C 224*	2.31	2.02	1.59	1.52	7.44	6.38	6.92	20.74	99
645-II	2.53	2.06	1.47	1.48	7.54	6.54	6.61	20.69	98
DK 141	2.28	2.05	1.49	1.54	7.35	6.27	7.00	20.62	98
NETYIELD 500*	2.27	2.05	1.50	1.50	7.31	6.43	6.83	20.57	98
WETLAND	2.19	2.06	1.53	1.49	7.27	6.43	6.70	20.40	97
631	2.25	1.98	1.47	1.50	7.19	6.09	6.52	19.80	94
FEAST+EV	2.19	2.03	1.47	1.43	7.11	6.03	6.36	19.50	93
9701	2.19	1.91	1.24	1.39	6.73	5.38	5.55	17.66	84
VERNAL	2.11	1.84	1.25	1.39	6.58	5.37	5.39	17.34	82
SARANAC AR	1.83	1.70	1.15	1.26	5.94	4.96	5.53	16.42	78
Mean	2.36	2.10	1.57	1.54	7.58	6.52	6.96	21.05	
5%_LSD	0.30	0.21	0.16	0.13	0.64	0.64	0.52	1.59	
CV(%)	8.89	6.96	7.04	6.09	5.99	7.02	5.37	5.38	
MCV(%)	12.49	9.78	9.89	8.56	8.41	9.86	7.54	7.56	

Date of Seeding: April 1st, 1999.

Soil Type: Flagg silt loam.

Herbicides: March 13th (Sencor).

Pest Control: July 9th and August 5th (Pounce).

Plot Dimensions: 3' x19'.

1999 Freeport Alfalfa Variety Trial Without Insecticides

Brand-Variety * Experimental	2002					2001	2000	3-yr	Relative
	5/25 T DM/A	6/25 T DM/A	7/24 T DM/A	8/27 T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	% Trial Mean
6310	1.55	1.48	1.00	1.07	5.10	5.29	6.40	16.78	110
53H81*	1.45	1.39	0.93	0.98	4.74	5.38	5.97	16.08	105
AMERGUARD 302+Z	1.37	1.42	0.93	1.03	4.75	4.58	6.26	15.58	102
VERNAL	1.73	1.44	0.77	1.03	4.96	4.19	5.09	14.24	93
SARANAC AR	1.54	1.34	0.66	0.88	4.41	3.85	5.34	13.60	89
Mean	1.53	1.41	0.86	1.00	4.79	4.65	5.81	15.26	
5%_LSD	0.26	0.14	0.18	0.16	0.64	0.75	0.86	2.02	
CV(%)	11.26	6.60	13.95	10.15	8.62	10.52	9.58	8.57	
MCV(%)	17.34	10.17	21.50	15.64	13.28	16.20	14.76	13.21	

Date of Seeding: April 1st, 1999.

Soil Type: Flagg silt loam.

Herbicides: March 13th (Sencor).

Plot Dimensions: 3' x19'.

2001 Freeport Alfalfa Variety Trial

Brand-Variety * Experimental	2002					Relative Yield % Trial Mean
	5/24 T DM/A	6/25 T DM/A	7/24 T DM/A	8/27 T DM/A	Total T DM/A	
WL 342	2.89	2.15	1.78	1.70	8.52	109
DK134	2.74	2.17	1.67	1.74	8.32	106
ROCKET	2.73	2.12	1.67	1.75	8.26	106
6410	2.60	2.18	1.74	1.62	8.14	104
ABUNDANCE	2.68	2.12	1.61	1.62	8.03	103
DKA 42-15	2.61	2.07	1.68	1.64	8.00	102
US A4230	2.53	2.07	1.74	1.63	7.96	102
HYBRIFORCE-400	2.58	2.16	1.61	1.59	7.94	102
AMERISTAND 403T	2.50	2.36	1.58	1.50	7.94	102
9702	2.61	2.01	1.70	1.61	7.93	101
RELIANCE	2.57	2.08	1.69	1.57	7.91	101
631	2.57	2.05	1.68	1.62	7.91	101
GH 700	2.54	2.09	1.69	1.59	7.90	101
TRUMP	2.52	2.04	1.65	1.62	7.83	100
GOLD LEAF	2.51	2.01	1.65	1.62	7.79	100
PROLIFIC	2.58	2.04	1.55	1.59	7.76	99
54V54	2.48	2.07	1.62	1.57	7.74	99
A-30-06	2.49	2.07	1.64	1.53	7.73	99
MAGNUM V	2.49	2.03	1.64	1.58	7.73	99
645-II	2.53	2.03	1.59	1.58	7.72	99
AV 3420	2.38	2.08	1.60	1.61	7.67	98
RADIANT	2.32	2.03	1.61	1.59	7.55	97
4 TRAFFIC	2.48	2.01	1.50	1.51	7.50	96
53Q60	2.34	1.98	1.59	1.48	7.39	94
ABSOLUTE BRAND	2.37	2.01	1.44	1.48	7.30	93
VERNAL	2.40	1.85	1.19	1.44	6.87	88
Mean	2.54	2.07	1.62	1.59	7.82	
5%_LSD	0.24	0.23	0.18	0.11	0.54	
CV(%)	6.66	8.03	8.10	4.77	4.88	
MCV(%)	9.38	11.32	11.41	6.72	6.87	

Date of Seeding: April 20th, 2001.

Soil Type: Flagg silt loam.

Herbicides: March 13th (Kerb).

Pest Control: July 9th and August 5th (Pounce).

Plot Dimensions: 3' x 19'.

1999 Yorkville Alfalfa Variety Trial

Brand-Variety * Experimental	2002					2001	2000	3-yr	Relative
	5/24 T DM/A	6/26 T DM/A	7/24 T DM/A	8/27 T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Yield % Trial Mean
54V45*	2.31	2.32	1.68	1.49	7.79	8.14	8.47	24.40	107
ENHANCER	2.45	2.33	1.66	1.43	7.86	7.87	8.44	24.18	106
645-II	2.49	2.36	1.66	1.49	8.00	7.66	8.31	23.98	106
FEAST+EV	2.05	2.18	1.49	1.32	7.03	7.63	8.41	23.06	102
6410	2.15	2.21	1.54	1.42	7.32	7.69	8.03	23.04	101
53Q60	2.31	2.24	1.55	1.41	7.50	7.58	7.87	22.95	101
631	2.30	2.12	1.51	1.37	7.29	7.45	7.94	22.68	100
WETLAND	2.29	2.21	1.46	1.31	7.28	7.36	7.76	22.40	99
SARANAC AR	2.08	1.90	1.25	1.16	6.38	6.76	7.30	20.44	90
VERNAL	2.29	2.08	1.28	1.21	6.86	6.30	6.88	20.04	88
Mean	2.27	2.19	1.51	1.36	7.33	7.44	7.94	22.72	
5% LSD	0.17	0.20	0.17	0.12	0.43	0.43	0.47	1.06	
CV(%)	5.07	6.43	7.67	5.91	4.02	3.95	4.10	3.22	
MCV(%)	7.35	9.33	11.12	8.57	5.83	5.74	5.95	4.68	

Date of Seeding: April 1st, 1999.

Soil Type: Saybrook silt loam.

Herbicides: March 13th (Sencor).

Pest Control: July 9th and August 5th (Pounce).

Plot Dimensions: 3' x19'.

1999 Yorkville Alfalfa Variety Trial Without Insecticides

Brand-Variety * Experimental	2002					2001	2000	3-yr	Relative
	5/24 T DM/A	6/26 T DM/A	7/24 T DM/A	8/27 T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Yield % Trial Mean
53H81*	1.98	1.96	1.85	1.19	6.97	7.67	8.43	23.07	116
6310	2.03	1.98	1.68	1.15	6.84	7.41	8.16	22.41	112
DEFENSE+EV*	1.90	1.68	1.18	0.90	5.65	6.74	8.00	20.39	102
VERNAL	2.20	1.63	0.80	0.76	5.38	5.18	6.64	17.20	86
SARANAC AR	1.95	1.51	0.77	0.68	4.90	5.34	6.43	16.66	84
Mean	2.01	1.75	1.25	0.93	5.95	6.47	7.53	19.95	
5% LSD	0.27	0.20	0.09	0.20	0.56	0.58	0.43	1.42	
CV(%)	8.81	7.35	4.75	14.19	6.15	5.80	3.72	4.62	
MCV(%)	13.57	11.32	7.31	21.87	9.48	8.94	5.73	7.12	

Date of Seeding: April 1st, 1999.

Soil Type: Saybrook silt loam.

Herbicides: March 13th (Sencor).

Plot Dimensions: 3' x19'.

1999 Urbana Alfalfa Variety Trial

Brand-Variety * Experimental	2002					2001	2000	3-yr	Relative
	5/22 T DM/A	6/24 T DM/A	7/22 T DM/A	8/26 T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Yield % Trial Mean
ROCKET*	2.37	2.68	1.30	1.71	8.06	8.13	10.00	26.19	108
54V45*	2.18	2.70	1.37	1.73	7.97	7.84	10.05	25.85	107
JADE II	2.26	2.63	1.35	1.65	7.89	7.34	9.42	24.65	102
53Q60	2.23	2.60	1.26	1.66	7.75	7.00	9.56	24.30	101
YIELDER	2.25	2.52	1.24	1.54	7.54	7.39	9.19	24.13	100
VERNAL	2.19	2.40	0.99	1.50	7.09	6.83	8.27	22.18	92
SARANAC AR	1.83	2.25	0.97	1.49	6.54	6.45	8.86	21.86	90
Mean	2.19	2.54	1.21	1.61	7.55	7.28	9.33	24.16	
5%_LSD	0.20	0.22	0.15	0.24	0.55	0.49	0.56	1.03	
CV(%)	6.15	5.77	8.36	10.18	4.93	4.48	4.05	2.86	
MCV(%)	9.14	8.57	12.42	15.12	7.32	6.66	6.01	4.25	

Date of Seeding: April 2nd, 1999.

Soil Type: Drummer-Flanagan silty-clay loam.

Herbicides: March 19th (Pursuit).

Pest Control: May 16th, July 2nd and August 2nd (Pounce).

Plot Dimensions: 3' x19'.

1999 Urbana Alfalfa Variety Trial Without Insecticides

Brand-Variety * Experimental	2002					2001	2000	3-yr	Relative
	5/22 T DM/A	6/24 T DM/A	7/22 T DM/A	8/26 T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Yield % Trial Mean
4R37*	2.43	2.74	1.43	1.61	8.20	7.45	9.51	25.16	107
53H81*	2.46	2.54	1.51	1.59	8.09	7.13	9.80	25.02	107
FQ 302 HR	2.48	2.54	1.41	1.52	7.95	7.09	9.54	24.58	105
ZH 9831 H*	2.49	2.54	1.39	1.59	8.01	7.10	9.38	24.49	104
DK 131 HG	2.31	2.41	1.36	1.57	7.64	6.90	9.79	24.33	104
ZH 9825 H*	2.09	2.29	1.35	1.46	7.18	7.11	9.33	23.62	101
AMERGUARD 302+Z	2.04	2.24	1.05	1.19	6.51	6.46	9.06	22.03	94
SARANAC AR	2.15	2.15	0.69	1.03	6.02	6.26	8.63	20.91	89
VERNAL	2.59	2.33	0.72	1.13	6.76	6.02	8.03	20.81	89
Mean	2.34	2.42	1.21	1.41	7.37	6.83	9.23	23.44	
5%_LSD	0.26	0.18	0.19	0.16	0.50	0.34	0.48	0.78	
CV(%)	7.51	5.00	10.94	7.61	4.65	3.44	3.54	2.29	
MCV(%)	10.95	7.29	15.96	11.11	6.78	5.01	5.17	3.34	

Date of Seeding: April 2nd, 1999.

Soil Type: Drummer-Flanagan silty-clay loam.

Herbicides: March 19th (Pursuit).

Pest Control: May 16th (Pounce).

Plot Dimensions: 3' x19'.

2000 Urbana Alfalfa Variety Trial

Brand-Variety * Experimental	2002					2001	2-yr	Relative
	5/22 T DM/A	6/24 T DM/A	7/22 T DM/A	8/26 T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Yield % Trial Mean
MAGNUM V	2.74	2.90	1.80	1.86	9.29	7.66	16.95	109
GOLD LEAF	2.69	2.76	1.71	1.84	9.00	7.15	16.14	104
631	2.61	2.77	1.66	1.83	8.87	7.10	15.97	103
54V54	2.52	2.82	1.66	1.86	8.87	7.06	15.93	103
645-II	2.64	2.80	1.62	1.85	8.90	7.02	15.92	103
INTRIGUE	2.65	2.80	1.76	1.81	9.01	6.87	15.88	102
6410	2.60	2.62	1.60	1.86	8.69	7.05	15.73	101
53Q60	2.54	2.76	1.70	1.77	8.76	6.84	15.60	100
WETLAND	2.77	2.72	1.52	1.74	8.74	6.79	15.52	100
53H81	2.49	2.71	1.59	1.73	8.52	6.59	15.11	97
SARANAC AR	2.44	2.39	1.28	1.53	7.64	6.44	14.08	91
VERNAL	2.44	2.26	1.22	1.46	7.37	6.21	13.58	87
Mean	2.59	2.69	1.59	1.76	8.64	6.90	15.53	
5%_LSD	0.18	0.19	0.17	0.12	0.53	0.48	0.89	
CV(%)	4.88	4.91	7.62	4.74	4.25	4.87	3.98	
MCV(%)	7.02	7.06	10.97	6.83	6.11	7.01	5.73	

Date of Seeding: April 1st, 2000.

Soil Type: Drummer-Flanagan silty-clay loam.

Herbicides: March 19th (Pursuit).

Pest Control: May 16th, July 2nd and August 2nd (Pounce).

Plot Dimensions: 3' x19'.

2001 Urbana Alfalfa Variety Trial

Brand-Variety * Experimental	2002					Relative Yield % Trial Mean
	5/21 T	6/24 T DM/A	7/22 T DM/A	8/26 T DM/A	Total T DM/A	
PEGASUS	3.04	3.12	1.69	1.85	9.69	105
PROLIFIC	2.90	2.92	1.83	1.88	9.53	103
631	2.90	2.92	1.83	1.86	9.50	103
WL 327	2.95	3.01	1.68	1.86	9.49	103
DKA 42-15	2.96	2.93	1.71	1.88	9.48	103
HYBRIFORCE-400	3.17	2.82	1.63	1.85	9.46	102
6410	2.91	3.00	1.62	1.85	9.37	101
54V54	2.88	2.99	1.60	1.91	9.37	101
645-II	2.95	2.95	1.63	1.82	9.34	101
AMERISTAND 403T	3.04	2.85	1.55	1.84	9.27	100
53Q60	2.80	2.89	1.75	1.82	9.25	100
ABUNDANCE	2.94	2.82	1.57	1.84	9.17	99
EXTENDER II	2.91	2.88	1.44	1.82	9.05	98
ABSOLUTE BRAND II	2.87	2.84	1.55	1.79	9.04	98
797 LHR	3.00	2.87	1.39	1.76	9.02	98
ABSOLUTE BRAND GZ	2.89	2.83	1.55	1.75	9.01	98
VERNAL	2.88	2.59	1.08	1.53	8.07	87
Mean	2.94	2.89	1.59	1.82	9.24	
5%_LSD	0.21	0.15	0.39	0.11	0.63	
CV(%)	4.98	3.67	17.09	4.11	4.80	
MCV(%)	7.08	5.22	24.29	5.85	6.82	

Date of Seeding: April 3rd, 2001.

Soil Type: Drummer-Flanagan silty-clay loam.

Herbicides: March 19th (Pursuit).

Pest Control: May 16th, July 2nd and August 2nd (Pounce).

Plot Dimensions: 3' x19'.

1999 Perry Alfalfa Variety Trial

Brand-Variety * Experimental	2002					2001	2000	3-yr	Relative
	5/20 T DM/A	6/20 T DM/A	7/18 T DM/A	8/20 T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Yield % Trial Mean
DK 140	2.56	2.51	1.25	1.22	7.54	7.12	4.34	19.00	106
DK 141	2.70	2.47	1.20	1.25	7.61	6.95	4.12	18.68	104
ABSOLUTE BRAND GZ	2.53	2.39	1.21	1.14	7.27	6.84	4.15	18.26	102
SARANAC AR	2.32	2.14	1.00	1.35	6.80	6.63	3.93	17.35	97
VERNAL	2.47	2.14	1.03	1.28	6.92	6.48	3.96	17.35	97
ABSOLUTE BRAND	2.36	2.23	1.01	1.15	6.74	6.23	3.75	16.72	93
Mean	2.49	2.31	1.11	1.23	7.15	6.71	4.04	17.89	
5%_LSD	0.20	0.18	0.13	0.16	0.33	0.57	0.48	1.26	
CV(%)	5.35	5.30	7.50	8.85	3.08	5.62	7.94	4.69	
MCV(%)	8.07	7.99	11.31	13.34	4.64	8.46	11.97	7.07	

Date of Seeding: April 7th, 1999.

Soil Type: Rozetta silt loam.

Herbicides: March 12th (Pursuit).

Pest Control: May 17th and July 31st (Lorsban).

Plot Dimensions: 3' x19'.

1999 Perry Alfalfa Variety Trial Without Insecticides

Brand-Variety * Experimental	2002					2001	2000	3-yr	Relative
	5/20 T DM/A	6/20 T DM/A	7/18 T DM/A	8/20 T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Yield % Trial Mean
DK 131 HG	2.25	2.27	1.25	1.18	6.94	6.98	4.10	18.02	108
CIMARRON SR	2.48	2.32	1.08	0.99	6.87	6.82	3.77	17.45	105
VERNAL	2.46	2.02	0.84	1.06	6.38	5.95	3.35	15.67	94
SARANAC AR	2.38	2.01	0.84	0.91	6.13	5.97	3.50	15.61	94
Mean	2.39	2.16	1.00	1.03	6.58	6.43	3.68	16.69	
5%_LSD	0.24	0.11	0.14	0.18	0.36	0.42	0.34	0.98	
CV(%)	6.29	3.20	8.82	10.75	3.42	4.12	5.73	3.68	
MCV(%)	10.06	5.12	14.11	17.20	5.46	6.59	9.17	5.88	

Date of Seeding: April 7th, 1999.

Soil Type: Rozetta silt loam.

Herbicides: March 12th (Pursuit).

Pest Control: May 17th (Lorsban).

Plot Dimensions: 3' x19'.

1999 Belleville Alfalfa Variety Trial

Brand-Variety * Experimental	2002					2001	2000	3-yr	Relative
	5/20 T DM/A	6/20 T DM/A	7/19 T DM/A	8/20 T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Yield % Trial Mean
4G70*	1.69	1.91	1.14	1.19	5.92	7.46	6.04	19.42	105
DK 140	1.66	1.86	1.07	1.24	5.82	7.44	5.76	19.02	103
DK 141	1.66	1.73	0.98	1.18	5.55	7.44	5.90	18.88	103
53Q60	1.61	1.81	1.12	1.18	5.71	7.27	5.78	18.75	102
A-395	1.61	1.86	1.04	1.13	5.63	7.28	5.68	18.59	101
EMPEROR	1.61	1.87	1.09	1.19	5.76	7.17	5.59	18.53	101
ABT 400 SCL	1.68	1.78	1.12	1.23	5.80	7.19	5.54	18.52	101
STELLER	1.57	1.71	1.04	1.02	5.34	6.93	5.57	17.83	97
VERNAL	1.56	1.75	0.88	1.32	5.51	6.65	5.31	17.46	95
SARANAC AR	1.40	1.69	1.01	1.25	5.35	6.43	5.36	17.14	93
Mean	1.60	1.80	1.05	1.19	5.64	7.12	5.65	18.41	
5%_LSD	0.18	0.09	0.13	0.12	0.28	0.45	0.24	0.65	
CV(%)	7.64	3.32	8.29	7.08	3.37	4.38	2.87	2.43	
MCV(%)	11.08	4.82	12.03	10.27	4.89	6.35	4.17	3.53	

Date of Seeding: March 31st, 1999.

Soil Type: Alford silt loam.

Herbicides: March 12th (Pursuit) July 3rd (Select).

Pest Control: April 17th (Warrior), July 3rd (Pounce) and July 22nd (Warrior).

Plot Dimensions: 3' x19'.

1999 Belleville Alfalfa Variety Trial Without Insecticides

Brand-Variety * Experimental	2002					2001	2000	3-yr	Relative
	5/20 T DM/A	6/20 T DM/A	7/19 T DM/A	8/20 T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Yield % Trial Mean
DK 131HG	1.47	1.81	1.03	1.06	5.38	7.39	5.61	18.38	105
3R22*	1.50	1.79	0.85	1.13	5.27	7.24	5.45	17.95	103
CLEAN SWEEP 1000	1.50	1.68	0.87	1.02	5.06	7.08	5.25	17.39	100
VERNAL	1.72	1.79	0.91	0.98	5.41	6.73	4.92	17.05	98
BARALFA 54	1.41	1.55	0.83	1.17	4.95	6.97	5.08	17.00	98
SARANAC AR	1.68	1.67	0.84	1.06	5.25	6.62	5.00	16.86	97
Mean	1.55	1.71	0.89	1.07	5.22	7.00	5.22	17.44	
5%_LSD	0.17	0.19	0.15	0.14	0.36	0.29	0.21	0.73	
CV(%)	7.22	7.51	11.03	8.84	4.62	2.74	2.67	2.78	
MCV(%)	10.89	11.32	16.62	13.32	6.96	4.13	4.02	4.19	

Date of Seeding: March 31st, 1999.

Soil Type: Alford silt loam.

Herbicides: March 12th (Pursuit) July 3rd (Select).

Pest Control: April 17th (Warrior).

Plot Dimensions: 3' x19'.

2000 Belleville Alfalfa Variety Trial

Brand-Variety * Experimental	2002					2001		2-yr	Relative
	5/20 T	6/20 T	7/19 T	8/20 T DDM/A	Total T DDM/A	Total T DDM/A	Total T DDM/A	% Trial Mean	
54V54	1.71	1.81	1.08	1.06	5.66	7.08	12.74	106	
ROCKET	1.55	1.87	1.07	1.08	5.57	6.93	12.49	104	
AWESOME	1.54	1.78	1.05	1.07	5.44	7.00	12.44	103	
DK 140	1.62	1.83	1.05	1.06	5.56	6.86	12.42	103	
RELIANCE	1.72	1.78	1.00	1.03	5.53	6.86	12.39	103	
A 30-06	1.47	1.87	1.05	1.11	5.50	6.80	12.29	102	
53H81	1.48	1.81	0.93	1.04	5.26	6.91	12.17	101	
ABSOLUTE BRAND	1.63	1.78	1.01	0.99	5.40	6.69	12.09	100	
SARANAC AR	1.64	1.73	0.93	1.01	5.31	6.68	11.99	99	
53Q60	1.36	1.69	0.93	1.10	5.07	6.85	11.92	99	
FQ 315	1.38	1.71	0.91	1.06	5.05	6.83	11.89	99	
C 416	1.48	1.72	1.03	1.07	5.29	6.58	11.87	98	
DK 141	1.55	1.80	0.81	0.96	5.11	6.67	11.79	98	
ABSOLUTE BRAND GZ	1.43	1.63	0.89	1.06	5.00	6.72	11.72	97	
FEAST+EV	1.45	1.85	0.89	0.98	5.18	6.53	11.71	97	
VERNAL	1.47	1.58	0.94	1.04	5.03	6.60	11.63	96	
YIELDER	1.44	1.73	0.94	0.95	5.06	6.50	11.55	96	
Mean	1.52	1.76	0.97	1.04	5.29	6.77	12.06		
5%_LSD	0.21	0.20	0.16	0.14	0.52	0.44	0.77		
CV(%)	9.52	7.98	11.44	9.63	6.86	4.56	4.52		
MCV(%)	13.5	11.34	16.26	13.70	9.76	6.48	6.42		

Date of Seeding: April 3rd, 2000.

Soil Type: Alford silt loam.

Herbicides: March 12th (Pursuit) July 3rd (Select).

Pest Control: April 17th (Warrior), July 3rd (Pounce) and July 22nd (Warrior).

Plot Dimensions: 3' x19'.

2000 Belleville Alfalfa Variety Trial Without Insecticides

Brand-Variety * Experimental	2002					2001		2-yr	Relative
	5/20 T DDM/A	6/20 T DDM/A	7/19 T DDM/A	8/20 T DDM/A	Total T DDM/A	Total T DDM/A	Total T DDM/A	% Trial Mean	
4R37*	1.63	1.66	1.02	0.93	5.23	7.36	12.58	106	
53H81	1.67	1.83	0.94	0.89	5.32	7.18	12.50	105	
DK 131 HG	1.54	1.76	0.90	0.91	5.11	7.09	12.20	102	
DEFENSE+EV	1.63	1.72	0.88	0.85	5.07	7.02	12.09	101	
VERNAL	1.52	1.72	0.71	0.95	4.90	6.25	11.15	94	
SARANAC AR	1.49	1.73	0.72	0.74	4.67	6.29	10.96	92	
Mean	1.58	1.73	0.86	0.88	5.05	6.86	11.91		
5%_LSD	0.26	0.14	0.11	0.14	0.40	0.51	0.77		
CV(%)	11.06	5.55	8.51	10.37	5.21	4.93	4.28		
MCV(%)	16.67	8.36	12.82	15.63	7.85	7.44	6.45		

Date of Seeding: April 3rd, 2000.

Soil Type: Alford silt loam.

Herbicides: March 12th (Pursuit) July 3rd (Select).

Pest Control: April 17th (Warrior).

Plot Dimensions: 3' x19'.

2000 Freeport Grass Variety Trial

Brand-Variety * Experimental	2002					2001	2-yr	Relative	
	Species ¹	5/24 T DM/A	6/26 T DM/A	7/24 T DM/A	8/27 T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Yield % Trial Mean
Festival	TF	2.54	2.11	0.78	0.51	5.94	6.76	12.7	125
Kentucky 31	TF	1.83	1.89	0.83	0.4	4.95	6.97	11.91	117
Select	TF	2.21	1.84	0.73	0.41	5.18	6.53	11.71	115
MaxQ Jesup	TF	1.99	1.71	0.59	0.4	4.7	6.25	10.94	108
Kokanee	TF	1.9	1.92	0.46	0.35	4.63	5.59	10.21	100
OG9705G	OG	2.4	1.6	0.44	0.35	4.79	5.12	9.91	97
Okay	OG	2.17	1.66	0.37	0.3	4.51	5.26	9.77	96
Potomac	OG	2.17	1.57	0.4	0.35	4.5	5.04	9.53	94
Eastwood	OG	1.11	1.47	0.27	0.37	3.21	2.75	5.96	59
Mean		2.03	1.72	0.52	0.38	4.65	5.51	10.16	
5%_LSD		0.41	0.32	0.17	0.12	0.79	0.99	1.64	
CV(%)		13.86	12.91	22.26	21.47	11.67	12.43	11.09	
MCV(%)		20.11	18.73	32.29	31.16	16.93	18.04	16.09	

Date of Seeding: April 4th, 2000.

¹ see page 7 for key

Soil Type: Flagg silt loam.

Herbicides: None.

Plot Dimensions: 3' x19'.

2000 Urbana Grass Variety Trial

Brand-Variety * Experimental	2002					2001		2-yr		Relative Yield % Trial Mean
	Species ¹	5/21 T DM/A	6/24 T DM/A	7/22 T DM/A	8/26 T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	Total T DM/A	
HOEDOWN	TF	2.94	2.58	0.58	1.03	7.13	5.77	12.90	127	
TETON	TF	3.75	2.14	0.53	0.83	7.24	5.47	12.71	125	
BULL	TF	2.99	2.40	0.58	0.83	6.79	5.37	12.16	119	
KENTUCKY 31	TF	3.22	2.38	0.46	0.73	6.78	5.21	11.98	118	
MARTIN 2	TF	3.00	1.96	0.51	0.85	6.31	4.54	10.85	106	
POTOMAC	OG	2.96	2.07	0.26	0.62	5.91	4.66	10.58	104	
MAXQ JESUP	TF	2.47	2.04	0.42	0.60	5.53	4.99	10.52	103	
BRONC	OG	3.07	1.99	0.22	0.80	6.08	4.05	10.13	99	
UDDER	OG	2.84	2.08	0.28	0.76	5.96	4.14	10.09	99	
CAS-M85	TF	2.70	1.70	0.43	0.74	5.57	4.52	10.08	99	
CAS-LG31	OG	1.89	1.76	0.16	0.64	4.44	3.69	8.13	80	
EASTWOOD	OG	1.94	1.74	0.19	0.78	4.65	3.35	8.00	79	
GRAND DADDY	PRT	1.62	1.57	0.17	0.58	3.93	2.50	6.43	63	
TONGA	PRT	1.22	1.42	0.15	0.61	3.40	2.07	5.46	54	
Mean		2.65	2.01	0.36	0.75	5.77	4.41	10.19		
5%_LSD		0.60	0.36	0.13	0.23	1.05	1.23	2.06		
CV(%)		15.86	12.45	26.10	20.99	12.73	19.45	14.19		
MCV(%)		22.63	17.76	37.24	29.96	18.17	27.76	20.25		

Date of Seeding: April 1st, 2000.

¹see page 7 for key

Soil Type: Drummer-Flanagan silty-clay loam.

Herbicides: May 28th (Weedon).

Plot Dimensions: 3' x19'.

2001 Perry Grass Variety Trial

Brand-Variety * Experimental	Species ¹	2002				Relative Yield % Trial Mean
		5/20 T DM/A	6/21 T DM/A	7/18 T DM/A	Total T DM/A	
KENTUCKY 31	TF	3.68	4.54	0.98	9.20	167
FESTIVAL	TF	3.51	3.03	0.82	7.36	134
KOKANEE	TF	3.42	3.19	0.54	7.14	130
MAXQ JESUP	TF	3.88	2.48	0.67	7.03	128
POTOMAC	OG	3.20	2.71	0.39	6.30	114
CLAIR	TM	3.24	1.85	0.24	5.33	97
OKAY	OG	3.26	1.84	0.22	5.32	97
AGR BW 101	PG	2.74	2.24	0.34	5.31	96
MATUA	PB	2.67	2.27	0.32	5.27	96
DUO	FS	2.84	2.04	0.15	5.02	91
BISON	HRG	2.44	2.24	0.16	4.84	88
DIXON	PB	2.21	2.05	0.49	4.75	86
LAKOTA	PB	2.12	2.11	0.29	4.52	82
EASTWOOD	OG	2.40	1.75	0.37	4.52	82
LINCOLN	SB	2.88	1.09	0.36	4.33	79
TONGA	PRG	2.08	1.73	0.20	4.01	73
TUUKKA	TM	2.10	1.12	0.24	3.46	63
Mean		2.86	2.25	0.40	5.51	
5%_LSD		0.77	0.54	0.19	1.06	
CV(%)		18.98	16.81	34.15	13.50	
MCV(%)		26.99	23.90	48.55	19.19	

Date of Seeding: April 5th, 2001.

¹see page 7 for key

Soil Type: Rozetta silt loam.

Herbicides: None.

Plot Dimensions: 3' x 19'.







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