

# TABLE OF CONTENTS

### 2007 Performance Tests

	1
	1
Table 1	2
Table 2	3
Table 3	4
Table 4	5
Table 5	б
ased Varieties Table 6	7
back cove	r
	Table 1    2      Table 2    2      Table 3    2      Table 4    2      Table 5    2      ased Varieties    Table 6

## Entrants in 2007 Kansas Alfalfa Performance Tests.

Entrants in 2007 Railsa	S Allalla Periorillalice Te	515.
AgriPro Seed (AgriPro) Slater, IA 877-247-4776 agripro.com Allied Seed (Allied) Macon, MO 660-385-6690 alliedseed.com CroPlan Genetics (CroPlan Genetics) St. Paul, MN 800-851-8810 Dairyland Seed Co. (Dairyland) West Bend, WI 800-236-0163 dairylandseed.com Foundation Seed Division (NE AES & USDA) Lincoln, NE 877-229-1363 Garst Seed Co. (Garst) Greensburg, KS 620-546-5955 garstseed.com Great Plains Research Co. (Cimarron USA) Apex, NC 800-874-7945 CimarronUSA.com	Johnston Seed Co (Johnston) Enid, OK 580-233-5800 KSU - Foundation Seed (KS AES & USDA) Manhattan, KS 785-532-6115 Monsanto Seed (Monsanto) St. Louis, MO 800-335-2676 Mycogen Seeds (Mycogen) Indianapolis, IN 317-337-7568 NC+ Hybrids (NC+) Lincoln, NE 800-365-9804 www.nc-plus.com PGI Alfalfa, Inc. (PGI) Woodland, CA 866-744-5710 Pioneer Hi-Bred, Intl., Inc. (Pioneer Brand) Johnston, IA 800-247-6803 Syngenta Seeds, Inc. (NK)	W-L Research, Inc. (W-L) Madison, WI 608-295-3566
UnnarronUSA.com	Golden Valley, MN 763-593-7324	
	nk-us.com	

# 2007 PERFORMANCE TESTS

## **Objectives and Procedures**

The Kansas Agricultural Experiment Station established an official alfalfa testing program in 1980 to provide Kansas growers with unbiased performance comparisons of alfalfa varieties marketed in the state. Each year, private companies are asked to enter varieties voluntarily at the locations slated for establishment that year. Announcements and entry forms are mailed to private companies in June for entry in fall-seeded tests. Companies enter varieties of their choice and pay entry fees to cover part of the costs of conducting Most tests are planted in mid-August or the tests. September, but the Southeast Kansas test usually is planted in the spring. Individual tests are conducted for a minimum of three years. New tests typically are established during the final production year of the previous test, or more frequently if there is enough interest.

Descriptive information is presented with the results for each test. This information, including soil type, establishment methods, fertilization, pest control, irrigation, harvest dates, and growing conditions unique to that location, can help explain test and/or variety performance.

Forage yields were estimated by harvesting four replications of each variety with a plot harvester. The amount of forage produced from a specific area (35 to 80 ft<sup>2</sup>) was weighed, and a subsample was taken to determine moisture content. This information was used to convert the plot weights to tons of dry matter per acre for each cutting, the season total, and the total for each previous season, as presented in Tables 1 through 5. The forage yield over the lifetime of a particular test is presented as the total tons of dry matter produced per acre, as the total tons of 15% moisture hay, and as a percentage of the test average.

Each table is separated into three sections. The first lists released cultivars that are generally available on the seed market or soon will be. The second section includes experimental cultivars that were entered in the test before being released for sale. These experimental lines often represent an earlier generation of seed than that used for the released cultivars. The third section includes summary statistics unique to that test.

At the bottom of each column, the Least Significant Difference (LSD) is listed at the 0.05 and 0.20 levels. These values indicate how large a difference is needed to be confident that one variety is superior to another. Differences between varieties that are equal to or greater than the 0.05 LSD have only a 1 in 20 chance of being due to chance or error. Differences equal to or greater than the 0.20 LSD have a 1 in 5 chance of being caused by chance or error. The Coefficient of Variability (CV) provides an estimate of the consistency of the results of a particular test. In these tests, CVs less than 10% generally indicate reliable, uniform data, whereas CVs of 10 to 15% are not uncommon and generally indicate that the data are acceptable for rough comparisons. Tests with CVs greater than 15% still may be useful, but variety comparisons lack precision.

The Mean Coefficient of Variability (MCV) is similar to the CV in that it serves as an indicator of test precision. The MCV is calculated by dividing the 0.05 LSD by the test mean (average) and multiplying by 100. The MCV reveals the percentage difference required to detect differences between varieties with 95% confidence. Many alfalfa breeders and testers agree that tests with MCV values greater than 10% are of little benefit.

### Variety Characterization

For variety selection, producers should consider the performance of a variety in each of the current tests in which it appears, its performance over time and locations relative to familiar or check varieties, and the disease and insect resistance characteristics that are potentially important in specific situations.

Tables 1 through 5 contain updated yield data from individual tests currently in progress. First-season yields for a spring-planted test often are more variable than yields in subsequent years. Season totals are important, but yield distribution during the season might differ among varieties. Examine yields from individual cuttings to determine if differences in yield distribution exist. Yield totals over many years provide the best measure of variety performance over time.

Table 6 provides winter survival, disease and insectresistance, multi-foliolate expression, and continuous grazing tolerance ratings for released varieties. These ratings were obtained primarily from the annual "Winter Survival, Fall Dormancy & Pest Resistance Ratings for Alfalfa Varieties" pamphlet published by the National Alfalfa Alliance (NAAIC). That report summarizes information submitted by developers of alfalfa varieties as part of the variety registration process. The Association of Official Seed Certifying Agencies (AOSCA) National Alfalfa Variety Review Board (NAVRB) reviewed the ratings before they were published. Companies submitting varieties for the tests provided ratings for some unregistered varieties. Experimental varieties are also listed in Table 6 for brand identification.

### Table 1. Southeast Kansas, Mound Valley Alfalfa Performance Test, Seeded April 14, 2005.

Joe Moyer, agronomist

Southeast Ag. Research Center, Mound Valley, Parsons silty clay loam 15 lb. seed/acre Plots 5'x20'; 3'x20' harvested 20-50-200 lb/a of N-P-K in March

		Forage Yield tons/acre													
					Dr	y Matter					Total,	Total,			
NAME	4-12	6-6	2007 7-16	8-27	11-1	200	7	2006	2005	Total	15%	% of			
	4-12	0-0	7-10	0-27	11-1	200	)/	2006	2005	Total	Moist.	Mean			
RELEASED CULTIVARS															
FSG505	1.19	1.64	1.40	0.61	0.82	5.6	67	2.13	4.51	12.31	14.48	107			
FSG408DP	1.12	1.67	1.28	0.68	0.82	5.5	58	1.87	4.27	11.73	13.80	102			
6530	1.12	1.76	1.44	0.60	0.76	5.6	68	1.88	4.14	11.69	13.76	102			
Cimarron VL400	1.21	1.62	1.36	0.59	0.83	5.6	61	1.83	4.19	11.62	13.67	101			
Good as Gold II	1.14	1.54	1.02	0.55	0.75	5.0	00	2.08	4.46	11.54	13.57	100			
WL 357 HQ	1.14	1.49	1.16	0.60	0.85	5.2	24	1.89	4.28	11.41	13.43	99			
Kanza	1.06	1.44	1.20	0.60	0.74	5.0	)4	1.89	4.46	11.39	13.40	99			
6420	1.17	1.70	1.03	0.53	0.78	5.2	22	1.95	4.09	11.26	13.25	98			
Perry	1.14	1.55	1.03	0.54	0.75	5.0	)2	1.95	4.13	11.10	13.06	97			
Integrity	1.09	1.63	1.23	0.60	0.73	5.2	28	1.82	3.89	10.99	12.93	96			
EXPERIMENTAL STRAINS															
AA112E	1.12	1.63	1.47	0.73	0.76	5.7	71	1.95	4.21	11.87	13.97	103			
CW 15030	1.13	1.67	1.21	0.50	0.67	5.1	8	2.00	4.14	11.31	13.31	98			
AA108E	1.15	1.65	1.47	0.53	0.68	5.4	18	1.73	3.88	11.10	13.06	97			
SUMMARY STATISTICS															
Average	1.14	1.61	1.25	0.59	0.77	5.3	36	1.92	4.20	11.49	13.51	100			
LSD (0.05)	0.09	0.33	0.32	0.15	0.22	0.4	17	0.20	0.33	0.61	0.72	5			
LSD (0.20)	0.06	0.21	0.20	0.10	0.14	0.3	30	0.13	0.21	0.39	0.46	3			
CV (%)	4.25	10.71	13.29	13.71	14.68	5.9	96	7.11	5.53	3.64	3.64	4			
MCV (%)	7.16	18.04	22.39	23.11	24.73	8.7	70	10.20	7.93	5.31	5.31	5			

#### Table 2. North Central Kansas, Belleville Alfalfa Performance Test, Seeded September 1, 2004.

Barney Gordon, agronomist

North Central Kansas Exp. Field, Belleville, Crete silt Ioam 20 lb. seed/acre Plots 5'x15'; 3'x15' harvested 11-52-0 lb/a of N-P-K in February First cutting was lost due to the freeze on April 6, 7, and 8. Regrowth was very slow after the freeze.

		Forage Yield												
				tons/acre										
			2007	Dry Matter				Total,	Total,					
NAME	6-11	7-13	2007 8-14	2007	2006	2005	Total	15% <u>Moist.</u>	% of <u>Mean</u>					
RELEASED CULTIVARS														
Good as Gold II	2.67	1.81	1.50	5.99	4.92	6.83	17.74	20.87	108					
DKA42-15	2.59	1.64	1.29	5.52	4.73	6.73	16.97	19.97	103					
Reward II	2.73	1.62	1.26	5.61	4.71	6.66	16.97	19.96	103					
WL 335 HQ	2.59	1.60	1.22	5.42	4.70	6.67	16.79	19.75	102					
6415	2.42	1.59	1.28	5.29	4.54	6.75	16.57	19.50	101					
HybriForce-420/wet	2.58	1.66	1.19	5.44	4.41	6.67	16.52	19.43	101					
Pioneer 54V46	2.48	1.61	1.20	5.29	4.51	6.68	16.48	19.39	100					
6400HT	2.61	1.65	1.19	5.46	4.31	6.65	16.42	19.32	100					
Genoa	2.44	1.69	1.21	5.34	4.53	6.46	16.33	19.21	99					
Kanza	2.32	1.64	1.38	5.34	4.52	6.24	16.10	18.94	98					
DKA50-18	2.50	1.65	1.28	5.43	4.37	6.22	16.02	18.84	98					
WL 357 HQ	2.45	1.64	1.48	5.56	4.11	6.12	15.79	18.58	96					
EXPERIMENTAL STRAINS														
DS361HY	2.40	1.53	1.32	5.24	4.56	6.34	16.14	18.99	98					
DS362HY	2.48	1.43	1.24	5.14	4.50	6.47	16.11	18.95	98					
DS416	2.56	1.47	1.12	5.15	4.23	6.58	15.95	18.76	97					
DS415	2.20	1.42	1.39	5.00	4.26	6.52	15.79	18.57	96					
SUMMARY STATISTICS														
Average	2.50	1.60	1.28	5.39	4.49	6.54	16.42	19.31	100					
LSD (0.05)	0.36	0.29	0.28	0.54	0.31	0.30	0.69	0.82	4					
LSD (0.20)	0.23	0.18	0.18	0.35	0.20	0.19	0.45	0.53	3					
CV (%)	10.21	12.54	15.42	7.06	4.85	3.23	2.96	2.96	3					
MCV (%)	14.55	17.85	21.96	10.06	6.91	4.60	4.22	4.22	4					

# Table 3. South Central Kansas, Hutchinson Alfalfa Performance Test, Seeded September 1, 2004.

Bill Heer, agronomist South Central Kansas Exp. Field, Hutchinson, Ost silt Ioam 10 lb. seed/acre Plots 5'x24', 3'x18' harvested 75-40-0 lb/a of N-P-K before planting

First cutting was lost to freeze in April. Regrowth and cuttings were delayed by wet weather in May and June, and yields were further injured by hot, dry weather ending in September.

				Forage Yiel	d				
				tons/acre					
				Dry Matter				Total,	Total,
NAME			2007					15%	% of
NAME	5-31	7-14	8-15	2007	2006	2005	Total	Moist.	Mean
RELEASED CULTIVARS									
Good as Gold II	1.66	1.74	0.89	4.29	1.06	4.53	9.88	11.62	108
WL 335 HQ	1.68	1.90	1.05	4.63	1.06	4.16	9.85	11.59	108
FSG408DP	1.58	1.84	0.90	4.33	0.98	4.21	9.52	11.20	104
Perry	1.60	1.92	1.01	4.53	0.91	4.00	9.45	11.11	104
6400HT	1.58	1.71	0.82	4.11	0.84	4.26	9.20	10.82	101
DKA50-18	1.45	1.79	0.94	4.18	0.84	3.96	8.98	10.56	98
Kanza	1.54	1.81	0.86	4.20	0.75	4.00	8.95	10.53	98
Jade III	1.51	1.80	0.66	3.97	0.78	4.17	8.92	10.50	98
Genoa	1.60	1.84	0.83	4.27	0.71	3.92	8.90	10.47	98
6420	1.56	1.73	0.66	3.95	0.86	4.08	8.89	10.45	97
WL 357 HQ	1.57	1.70	0.87	4.14	0.65	4.06	8.86	10.42	97
FSG406	1.47	1.76	0.75	3.98	0.80	3.99	8.76	10.31	96
HybriForce-420/wet	1.29	2.02	0.85	4.15	0.67	3.91	8.73	10.27	96
FSG505	1.39	1.74	0.81	3.94	0.74	3.80	8.47	9.96	93
DKA42-15	1.38	1.61	0.68	3.67	0.83	3.87	8.37	9.85	92
FSG351	1.41	1.73	0.71	3.84	0.68	3.73	8.25	9.71	90
EXPERIMENTAL STRAINS									
405	1.78	1.97	1.07	4.82	1.05	4.45	10.32	12.14	113
CW 15030	1.43	1.92	0.80	4.15	0.99	3.98	9.12	10.73	100
406	1.69	1.84	0.92	4.45	0.84	3.73	9.02	10.61	99
404	1.70	1.72	0.62	4.05	0.71	4.17	8.93	10.51	98
407	1.47	1.86	0.66	3.99	0.81	3.82	8.61	10.13	94
SUMMARY STATISTICS									
Average	1.54	1.81	0.90	4.25	0.84	4.04	9.12	10.73	100
LSD (0.05)	0.24	0.27	1.06	1.12	0.27	0.37	1.21	1.43	13
LSD (0.20)	0.15	0.17	0.18	0.73	0.18	0.24	0.79	0.92	9
CV (%)	10.92	10.46	23.42	18.65	23.25	6.52	9.40	9.40	9
MCV (%)	15.44	14.79	33.13	26.38	32.89	9.21	13.29	13.29	13

#### Table 4. Northwest Kansas, Colby Alfalfa Performance Test, Seeded August 24, 2006.

Pat Evans, agronomist

Northwest Research-Extension Center, Colby, Keith silt Ioam 18 lb. seed/acre Plots 3'x20'; 3'x17' harvested 14-46-0 lb/a of N-P-K before planting Growing conditions were normal with no insect problems.

					Forage Yield tons/acre		
					Dry Matter	Total,	Total,
			2007		•	15%	% of
NAME	6-4	7-6	8-6	9-13	Total	Moist.	Mean
RELEASED CULTIVARS							
Hybri+421	3.42	2.48	1.68	1.42	8.99	10.58	107
Pioneer 54Q25	3.03	2.47	1.76	1.60	8.87	10.44	105
Kanza	2.85	2.51	1.82	1.45	8.62	10.14	102
Pioneer 54V09	3.12	2.27	1.76	1.45	8.59	10.11	102
Mountaineer 2.0	3.10	2.38	1.75	1.34	8.57	10.08	102
4A421	2.96	2.40	1.80	1.41	8.57	10.08	102
Rebound 5.0	3.24	2.17	1.66	1.50	8.56	10.07	102
DKA41-18RR	2.95	2.41	1.63	1.47	8.47	9.96	101
Pioneer 54V46	3.17	2.26	1.62	1.34	8.38	9.86	100
WL 343 HQ	2.88	2.14	1.83	1.40	8.25	9.70	98
Jade III	2.71	2.39	1.71	1.33	8.14	9.57	97
WL 355 RR	2.82	2.12	1.69	1.51	8.13	9.57	97
6400HT	3.11	2.14	1.74	1.14	8.13	9.56	97
4G418RR	2.82	2.15	1.69	1.40	8.07	9.49	96
Perry	2.47	2.15	1.72	1.51	7.85	9.23	93
SUMMARY STATISTICS							
Average	2.98	2.30	1.72	1.42	8.41	9.90	100
LSD (0.05)	0.73	0.42	0.30	0.25	0.93	1.10	11
LSD (0.20)	0.47	0.27	0.19	0.16	0.60	0.71	7
CV (%)	17.26	12.93	12.28	12.26	7.77	7.77	8
MCV (%)	24.63	18.44	17.52	17.49	11.08	11.08	11

#### Table 5. Southwest Kansas, Garden City Alfalfa Performance Test, Seeded August 30, 2006.

Monty Spangler, agronomist

Southwest Research-Extension Center, Garden City, Keith silt Ioam 30 lb. seed/acre Plots 3'x20'; 3'x20' harvested Second and third cuttings were delayed by rains. Very hot in July and August with little moisture until early September.

22-100-0 lb/a of N-P-K after first cutting

		Forage Yield tons/acre										
					Dry Matt							
			2007			er		Total, 15%	Total, % of			
NAME	5-18	7-2		9-4	10-16		Total	Moist.				
RELEASED CULTIVARS												
Marvel	3.16	3.62	3.17	1.64	1.40		12.99	15.28	105			
6415	3.00	3.82	3.18	1.59	1.39		12.96	15.25	105			
Rebound 5.0	3.08	3.76	3.14	1.53	1.31		12.82	15.08	104			
Pioneer 54V09	2.94	3.77	3.18	1.55	1.29		12.73	14.97	103			
FSG505	3.16	3.61	3.00	1.53	1.37		12.66	14.90	103			
GH 727	2.98	3.68	2.98	1.59	1.40		12.61	14.84	102			
Genoa	3.01	3.66	3.02	1.56	1.37		12.61	14.84	102			
Expedition	3.03	3.67	2.98	1.58	1.35		12.59	14.81	102			
WL 355 RR	2.88	3.55	3.29	1.56	1.32		12.59	14.81	102			
6530	2.84	3.77	3.28	1.47	1.23		12.59	14.81	102			
Mariner III	3.10	3.60	3.12	1.48	1.30		12.59	14.81	102			
FSG406	2.95	3.67	3.18	1.50	1.28		12.57	14.79	102			
WL 357 HQ	2.92	3.56	3.10	1.56	1.40		12.54	14.75	102			
4A421	3.01	3.56	3.08	1.54	1.30		12.48	14.69	101			
6420	3.27	3.42	3.03	1.47	1.30		12.48	14.68	101			
Reward II	3.22	3.71	2.86	1.40	1.28		12.48	14.68	101			
Pioneer 54Q25	3.20	3.43	3.06	1.50	1.29		12.47	14.67	101			
Pioneer 54V46	3.02	3.65	2.95	1.49	1.31		12.42	14.61	101			
Hybri+421	3.06	3.65	2.92	1.49	1.23		12.33	14.51	100			
DKA41-18RR	2.84	3.39	3.27	1.49	1.31		12.30	14.46	100			
Mountaineer 2.0	2.88	3.72	3.01	1.42	1.25		12.00	14.44	100			
4G418RR	2.73	3.54	3.20	1.50	1.31		12.27	14.43	100			
FSG408DP	3.16	3.52	2.83	1.40	1.23		12.14	14.28	99			
Artesian Sunrise	2.74	3.42	3.01	1.51	1.41		12.08	14.21	98			
Cimarron VL400	2.78	3.64	3.06	1.40	1.16		12.03	14.16	98			
Escalade	2.88	3.44	2.81	1.51	1.28		11.92	14.02	97			
Phoenix	2.76	3.39	2.99	1.40	1.23		11.77	13.85	96			
WL 343 HQ	2.72	3.34	2.85	1.51	1.27		11.68	13.74	95			
Perry	2.90	3.33	2.90	1.38	1.13		11.63	13.68	94			
Kanza	2.89	3.10	2.74	1.54	1.30		11.57	13.61	94			
MP04	2.64	3.43	2.78	1.39	1.16		11.39	13.40	92			
EXPERIMENTAL STRAINS	2.01	0.10	2.70	1.00			11.00	10.10				
4S419	3.34	3.57	3.34	1.62	1.42		13.30	15.64	108			
FG 52M146	2.74	3.60	3.35	1.62	1.42		12.72	14.97	103			
msSunstra-614	2.92	3.40	3.11	1.51	1.39		12.32	14.49	100			
msSunstra-613	2.90	3.66	2.98	1.45	1.30		12.28	14.44	100			
I Chg 04	2.80	3.52	3.03	1.44	1.17		11.95	14.06	97			
DS961	2.70	3.10	2.71	1.53	1.44		11.48	13.51	93			
DS253	2.63	3.00	2.92	1.49	1.40		11.43	13.45	93			
SUMMARY STATISTICS												
Average	2.94	3.53	3.04	1.50	1.31		12.32	14.49	100			
LSD (0.05)	0.28	0.30	0.43	0.10	0.08		0.61	0.72	5			
LSD (0.20)	0.18	0.20	0.28	0.07	0.05		0.40	0.47	3			
CV (%)	6.90	6.08	10.17	4.91	4.49		3.55	3.55	4			
MCV (%)	9.67	8.51	14.25	6.88	6.29		4.98	4.98	5			

<b>ABI</b> AA108E AA112E			VV								Н	Н	Κ	R K N				<b>Brand</b> Name		B W					Â			S	Η	Н	Κ				
																		KS AES & US	DA																
AA112E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Kanza	-	R	-	-	-	-	R	R	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Monsanto																	
Allied																		DKA41-18RR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CW 15030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DKA42-15		н													-	н	
Escalade FSG351								R				-	-	- Н	-	-	-	DKA50-18		н 			н	н	к	R	-	R	н	-	-	-	-	Н	
FSG406														п R				msSUNSTRA 404	/Da	iryla	ind														
FSG400 FSG408DP														Н			-	404 405	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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#### Table 6. 2007 Performance Test entries with disease and insect resistance ratings for released varieties.\*

Disease and insect resistance ratings are from the National Alfalfa Alliance, NAAIC descriptions, or from developers of the varieties.

SAA = Spotted alfalfa aphid PA = Pea aphid L

M R

Н

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Low Resistance

High Resistance

Resistance

Moderate Resistance

Not adequately tested

6-14%

15-30%

31-50%

>50%

PL = Potato leafhopper MLE = Multi-foliolate expression For those interested in accessing crop performance testing information electronically, visit our World Wide Web site. Most of the information contained in this publication, plus more, is available for viewing or downloading.

#### The URL is http://kscroptests.agron.ksu.edu

Excerpts from the

University Research Policy Agreement with Cooperating Seed Companies

Permission is hereby given to Kansas State University to test varieties and/or hybrids designated on the attached entry forms in the manner indicated in the test announcements. I certify that seed submitted for testing is a true sample of the seed being offered for sale.

I understand that all results from Kansas Crop Performance Tests belong to the University and the public and shall be controlled by the University so as to produce the greatest benefit to the public. Performance data may be used in the following ways: 1) Tables may be reproduced in their entirety provided the source is referenced and data are not manipulated or reinterpreted; 2) Advertising statements by an individual company about the performance of its entries may be made as long as they are accurate statements about the data as published, with no reference to other companies' names or cultivars. In both cases, the following must be included with the reprint or ad citing the appropriate publication number and title: "See the official Kansas State University Agricultural Experiment Station and Cooperative Extension Service Report of Progress 988 '2007 Kansas Performance Tests with Alfalfa Varieties,' or the Kansas Crop Performance Test Web site, **http://kscroptests.agron.ksu.edu**, for details. Endorsement or recommendation by Kansas State University is not implied."

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**NOTE:** Trade names are used to identify products. No endorsement is intended, nor is any criticism implied of similar products not named.

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