

Table 8. Results from the 2015 Tucumcari Alfalfa Forage Yield Trial for the 2016 and 2017 growing seasons.†

Variety Name	Company or Brand Name	Fall Dormancy	Yield (dry tons/acre)								Total Yield 2017	Two Year Average
			Total Yield 2016	May 19 2017	June 20 2017	July 19 2017	August 15 2017	September 11 2017	October 30 2017			
NuMex Bill Melton 6829R	New Mexico State University NEXGROW	7	4.62	1.93	1.10	0.36	1.04	0.97	0.46	5.85	5.23	
NM14BMHS1	New Mexico State University	NA	4.19	1.75	1.02	0.43	0.90	0.82	0.46	5.36	4.78	
NM14BMHR2	New Mexico State University	NA	4.17	1.84	0.93	0.36	1.05	0.75	0.41	5.33	4.75	
NM14BMC0	New Mexico State University	NA	3.99	1.88	0.94	0.27	0.97	0.74	0.46	5.26	4.62	
African Common	Roswell Seed Co.	NA	3.65	1.64	1.12	0.37	1.13	0.83	0.50	5.59	4.62	
Mallard	Blue River Hybrids	5	3.98	1.87	1.00	0.26	1.00	0.73	0.36	5.23	4.61	
Malone	New Mexico State University	7	3.77	1.40	0.96	0.40	1.09	0.93	0.44	5.22	4.49	
NM14BM1008251	New Mexico State University	NA	3.94	1.27	1.14	0.44	0.90	0.82	0.44	5.00	4.47	
NM14MalHS3	New Mexico State University	NA	3.69	1.98	0.68	0.28	1.09	0.69	0.41	5.12	4.41	
NM Common	Roswell Seed Co.	NA	3.52	1.60	0.76	0.31	1.11	0.98	0.35	5.10	4.31	
SW 5213	S&W Seed Co.	5	3.27	1.63	0.87	0.28	1.03	0.78	0.35	4.93	4.10	
Zia	Roswell Seed Co.	5	3.23	1.46	0.93	0.31	1.06	0.80	0.38	4.94	4.09	
NM14MLLS2	New Mexico State University	NA	3.65	1.47	0.84	0.24	0.88	0.72	0.35	4.50	4.07	
SW 5909	S&W Seed Co.	5	3.27	1.56	0.78	0.24	0.99	0.68	0.37	4.61	3.94	
ICON	S&W Seed Co.	6	3.33	1.45	0.64	0.27	0.92	0.79	0.45	4.51	3.92	
Roadrunner	Blue River Hybrids	4	3.03	1.61	0.91	0.35	0.82	0.54	0.28	4.50	3.76	
Red Falcon BR	Blue River Hybrids	4	3.19	1.69	0.65	0.29	0.85	0.53	0.19	4.19	3.69	
SW 5113	S&W Seed Co.	5	3.10	1.39	0.75	0.28	0.99	0.64	0.25	4.28	3.69	
Mean			3.68	1.64	0.91	0.32	0.99	0.77	0.38	5.01	4.35	
LSD (0.05)			0.72	NS	0.24	NS	NS	0.14	0.10	0.72	0.63	
CV%			13.85	24.57	18.73	35.41	15.97	12.86	18.96	10.18	14.38	

†Data were detrended using nearest neighbor analysis, and analyzed using analysis of variance.

NS, no significant differences detected among varieties within the column at the 5% level.

Additional Information

Date of establishment: 5/12/2015
 Irrigation method: Sprinkler irrigated using treated municipal wastewater applying 0.5 inches approximately twice per week as needed.
 irrigation totals: Total seasonal irrigation amount = 19.5 inches. Total precipitation = 24.97 inches.
 Number of reps: 4
 Harvest dates: 2016: 5/24, 6/22, 8/9, 9/13, 11/8
 2017: 5/19, 6/20, 7/19, 8/15, 9/11, 10/30

Note: High weed pressure did not allow for meaningful data collection in 2015.

Fertilizer: No fertilizer was applied in 2017.
 Herbicide: 6 ounces per acre of Clethodim were applied on 7/12/2017 and again on 8/18/2017 to control annual grasses.
 insecticide: 2 pints per acre of Warhawk were applied on 4/7/2017 to control alfalfa weevil.
 insecticide: 14 pounds per acre of Nolo Bait were applied on 6/21/2017 to control grasshoppers.