

ALFALFA VARIETY DEMONSTRATION

Donald R. Howell, Agricultural Extension Agent, Yuma County;
David K. Parsons, Assistant Extension Specialist--Field Testing

Yuma Mesa Experimental Farm Elevation: 175 feet

Cutting Date	Variety & Yield ^{1,2/} (lbs/A)				
	Mesa Sirsa	Hayden	African	WL 512	Abunda Verde
05/04/77	3270	3470	3760	4190	3540
06/15/77	3690	3120	3260	3510	3330
07/20/77	4450	3880	3902	3980	4140
08/29/77	4920	4730	4230	3920	4600
09/29/77	2740	2800	2580	2460	2920
10/28/77	3360	3170	3300	2960	3270
12/05/77	2170	1820	1780	1450	1730
Total Yield 1977 (tons/A)	12.3 a	11.5 a	11.4 a	11.2 a	11.8 a

Cutting Date	Variety & Yield ^{1,2/} (lbs/A)				
	Mesa Sirsa	Hayden	African	WL 512	Abunda Verde
03/21/78	2600	2420	2640	3130	2530
05/05/78	4760	3670	3580	4700	4390
06/01/78	3730	3890	3550	4010	3800
06/28/78	4080	3400	4130	3760	3680
07/25/78	2870	2850	3390	3270	2960
08/31/78	2350	2300	2990	2550	2780
10/05/78	1190	1640	1600	1690	1690
11/30/78	830	910	910	1370	1020
Total Yield 1978 (tons/A)	11.2 a	10.4 a	11.4 a	12.2 a	11.4 a

Cutting Date	Variety & Yield ^{1/} (lbs/A)				
	Mesa Sirsa	Hayden	African	WL 512	Abunda Verde
03/14/79	1840	1400	2400	2020	1900
05/01/79	1500	1180	1680	1620	1710
05/31/79	3280	2490	3350	3120	2970
06/22/79	1480	1460	1390	960	1290
07/18/79	2540	1370	3070	2510	2320
08/23/79	2790	1090	2240	1350	740
10/02/79	1220	1680	1220	980	1130
11/29/79	900	650	470	530	480
Total Yield 1979 (tons/A)	7.8	5.7	7.9	6.5	6.3

1/ Adjusted to a 12% moisture content.

2/ Yields followed by the same letter are not significantly different at the .05 level by Student-Newman-Keuls' Test. Each yield value in the table is an average of three replications.

Planted: October 6, 1976
Seeding Rate: 30 lbs/A
Number of Replications: Three

ALFALFA VARIETY DEMONSTRATION^{1/}

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Yuma Mesa Experimental Farm

Elevation: 175 feet

Entry	Individual Harvest Yields ^{2/} (lbs/A for cuttings in 1978)								Total Yield (lbs/A) ^{3/}
	3-21	5-5	6-1	6-28	7-25	8-31	10-5	11-30	
Hayden PX Cycle 2	1325	3442	4403	5105	4380	3865	2247	1536	26300 a
Ardiente	1628	3891	4176	4934	3870	3438	2223	1560	25720 a
Az Old Plant	1708	3258	3993	4659	4638	3763	2163	1381	25560 a
Moapa 69	1426	3313	4301	5112	4564	3268	1780	1536	25300 a
Matador	1224	4033	3699	4941	4220	3537	1935	1519	25110 a
Hayden	1111	3084	3752	4569	3682	5176	1043	1427	24840 a
Az Hi Temp Res.	1616	3074	3829	4609	3994	3653	2259	1512	24550 a
U C Cargo	1948	3643	3858	4395	3650	3394	1977	1507	24370 a
U C Salton	1506	3478	3814	4666	3948	3087	1965	1490	23950 a
WL 512	1375	3203	3776	4773	3925	3162	1977	1427	23630 a
Pioneer 572	1477	2363	3756	3945	3677	4376	2511	1473	23580 a
Az Blue Aphid Res.	1401	3359	4007	4373	3925	3257	1750	1400	23470 a
Az Salt Tolerant	1536	3038	3665	4270	3590	3308	2211	1480	23100 a
Lew	1123	3556	3752	4205	3774	3619	1660	1400	23090 a
C U F 101	1250	3258	3409	4109	4031	3124	2115	1400	22700 a
African	1338	2583	3231	4537	3443	3810	2079	1395	22420 a
Mesa Sirsa	1237	2519	3414	4066	3668	3821	2343	1310	22380 a

Entry	Individual Harvest Yields ^{2/} (lbs/A for cuttings in 1979)								Total Yield (lbs/A)
	3-14	5-1	5-31	6-22	7-18	8-23	10-2	11-29	
Moapa 69	3359	2861	4297	1350	3901	2983	3032	1586	23370
Az Old Plant	3234	2737	3913	1350	3750	2875	2846	1306	22010
Ardiente	3483	2955	4116	1350	3298	2683	2683	1182	21750
U C Cargo	3514	3172	4116	1350	3707	2554	1750	1368	21530
Hayden PX Cycle 2	2923	2706	3777	1350	3642	3026	2892	1057	21370
WL 512	3421	2830	4139	1350	3642	2726	2053	840	21000
Az Salt Tolerant	2923	2955	3664	1350	3405	2596	2309	995	20200
UC Salton	3452	2581	3890	1350	3211	2575	2006	902	19970
Hayden	3639	2488	3913	1350	2672	2752	2216	591	19620
Pioneer 572	3981	2800	3325	1350	3168	2596	1656	622	19500
C U F 101	3172	3079	3823	1350	3168	2511	1400	933	19440
Matador	3670	2488	3868	1350	3168	2595	1796	467	19400
L.E.W.	3390	2519	3913	1350	3276	2704	1568	560	19280
Az Hi Temp Res.	2768	2488	3483	1350	3039	2382	2240	840	18590
African	2675	2333	3279	1350	3642	2575	1679	964	18500
Az Blue Aphid Res.	3234	2301	3460	1350	1078	2296	1843	404	15970
Mesa Sirsa	2986	1959	3098	1350	2910	2296	880	373	15850

1/ All yields adjusted to 12% moisture.

2/ Each yield value in the table is the average of 4 replications.

3/ Yields followed by the same letter are not significantly different at the .05 level by the Student-Newman-Keuls' Test.

Planted: October 20, 1977

Plot Size: 14 x 10 feet

Replications: Four

Agri-File Field Crops 272.27 (revised)