

Table S1. Mean performance of plant height, number of tiller/ m2 and leaf /stem ratio of twenty-one alfalfa genotypes in first, second years and combined across the two years.

Genotypes	Plant Height (cm)			Number of Tiller/ m2			Leaf /Stem Ratio		
	First Year	Second Year	Combined	First Year	Second Year	Combined	First Year	Second Year	Combined
D32	46.81	49.78	48.3	253.78	266.67	260.23	1.368	1.583	1.476
D47	51.98	54.79	53.58	276.63	289.52	283.08	1.436	1.651	1.544
D89	46.44	49.25	47.85	246.74	259.63	253.19	1.357	1.572	1.465
D95	50.38	53.19	53.39	272.56	285.45	279.06	1.422	1.637	1.531
F11	43.21	45.92	44.57	237.05	249.94	243.50	1.114	1.325	1.220
F18	58.62	60.78	59.70	326.34	335.23	330.79	1.571	1.785	1.678
F26	45.25	47.96	46.61	240.49	253.38	246.94	1.241	1.456	1.349
F28	52.22	54.93	53.67	279.60	292.49	286.05	1.454	1.669	1.562
F49	56.03	58.74	57.98	318.04	330.93	324.49	1.644	1.859	1.752
K42	44.47	46.35	45.91	238.77	251.66	245.22	1.151	1.366	1.259
K75	52.87	55.75	54.78	305.18	318.07	311.63	1.522	1.735	1.629
M3	46.65	49.23	48.09	249.69	262.58	256.14	1.368	1.583	1.476
M9	42.67	45.55	44.11	228.12	241.01	234.57	1.426	1.211	1.319
P5	53.48	56.36	57.39	312.75	325.64	319.20	1.548	1.763	1.656
P13	53.34	56.22	54.92	309.43	322.32	315.88	1.531	1.746	1.639
P20	52.23	55.11	53.71	297.45	310.34	303.90	1.456	1.671	1.564
S4	40.55	43.43	41.99	232.74	245.63	239.19	1.231	1.016	1.124
S5	49.93	52.81	51.79	268.34	281.23	274.79	1.418	1.633	1.526
S6	49.62	52.50	51.37	265.54	278.43	271.99	1.392	1.607	1.501
S12	47.67	50.55	49.11	258.88	271.77	265.33	1.387	1.602	1.495
S35	52.27	55.15	54.31	301.84	314.73	308.29	1.465	1.675	1.570
Mean	49.27	52.10	50.69	272.19	285.08	278.64	1.405	1.578	1.492
F. test	**	**	**	**	**	**	**	**	**
L.S.D 0.01	2.94	3.06	3.43	15.12	14.65	14.98	0.368	0.296	0.397
L.S.D 0.05	1.85	1.97	2.34	13.41	11.76	12.35	0.123	0.142	0.201

** Significant at 1% level of probability, L.S.D.: The least significant difference.

Table S2. Mean performance of total fresh and dry yields of twenty-one alfalfa genotypes in first, second years and combined across the two years.

Genotypes	Total Fresh Yield (ton/ fed)			Total Dry Yield (ton/ fed)		
	First Year	Second Year	Combined	First Year	Second Year	Combined
D32	43.87	46.57	45.22	8.91	10.37	9.64
D47	47.88	50.58	49.23	9.49	11.17	10.33
D89	39.76	42.46	41.11	7.95	9.55	8.75
D95	46.35	49.01	47.68	9.19	10.87	10.03
F11	36.81	39.51	38.16	7.28	8.96	8.12
F18	58.36	61.03	59.70	13.58	15.26	14.42
F26	38.52	41.29	39.91	7.62	9.37	8.50
F28	49.08	51.78	50.43	9.73	11.41	10.57
F49	54.56	57.26	55.91	10.83	12.51	11.67
K42	37.23	39.93	38.58	7.97	9.04	8.51
K75	52.64	55.34	53.99	10.44	12.12	11.28
M3	42.92	44.73	43.83	8.32	10.14	9.23

M9	35.55	37.36	36.46	6.85	8.53	7.69
P5	54.88	56.69	55.79	11.71	13.39	12.55
P13	54.36	56.17	55.27	10.91	12.59	11.75
P20	50.96	52.74	51.85	9.92	11.60	10.76
S4	34.45	36.26	35.36	6.62	7.91	7.27
S5	46.67	48.48	47.58	9.83	11.25	10.54
S6	45.32	47.13	46.23	8.84	10.48	9.66
S12	45.28	47.09	46.19	8.79	10.47	9.63
S35	51.12	52.93	52.03	9.96	11.64	10.80
Mean	46.03	48.30	47.17	9.27	10.89	10.08
F. test	**	**	**	**	**	**
L.S.D 0.01	3.11	3.45	4.39	1.56	1.44	1.23
L.S.D 0.05	2.67	2.98	3.25	0.41	0.32	0.45

** Significant at 1% level of probability, L.S.D.: The least significant difference.

Table S3. Mean performances of quality traits of twenty-one genotypes of alfalfa in the first year.

Genotypes	Crude Protein %	Crude Fiber %	Ash%
D32	20.22	24.39	8.86
D47	22.55	27.95	12.42
D89	19.59	23.90	8.37
D95	22.20	27.70	12.17
F11	18.17	22.90	7.37
F18	24.46	31.46	13.98
F26	18.88	23.69	8.16
F28	22.95	28.72	13.19
F49	25.72	29.51	11.64
K42	18.56	23.11	7.58
K75	23.86	26.42	10.89
M3	19.9	24.06	8.53
M9	17.97	22.71	7.18
P5	24.87	27.17	11.64
P13	26.96	26.70	11.17
P20	23.10	25.96	10.43
S4	17.11	21.64	6.11
S5	21.94	25.53	10.65
S6	21.43	25.1	9.57
S12	20.89	24.76	9.23
S35	23.41	26.17	10.64
Mean	21.65	25.69	9.69
F. test	**	**	**
L.S.D 0.01	2.87	3.18	1.95
L.S.D 0.05	1.54	2.31	1.06

** Significant at 1% level of probability, L.S.D.: The least significant difference.