

Table S9. Means of eight quality and forage traits for grass pea collection produced in the 2021 growing season, Isparta (lowland), Turkey

Genotype	USDA GenBank ID	Beta- ODAP(%)	Raw protein (%)	Acid detergent fiber (%)	Neutral detergent fiber (%)	Total digestible nutrients (%)	Dry matter intake (%)	Digestible dry matter (%)	Relative feed values
GP2	PI 117250	0.29	20.79	7.99	15.22	91.04	7.89	82.68	505.65
GP6	PI 117243	0.43	21.79	8.04	14.17	90.97	8.47	82.64	542.52
GP7	PI 117283	0.35	21.19	8.17	14.64	90.80	8.20	82.54	524.60
GP10	PI 117209	0.47	21.76	7.71	14.53	91.39	8.26	82.89	530.72
GP11	PI 117424	0.48	21.87	7.78	14.35	91.31	8.37	82.84	537.10
GP17	PI 117454	0.19	20.09	9.58	14.33	88.98	8.38	81.44	528.98
GP18	PI 117594	0.21	23.53	7.50	12.97	91.66	9.25	83.06	595.69
GP19	PI 117229	0.35	19.34	9.87	14.79	88.60	8.12	81.21	511.11
GP23	PI 117401	0.23	19.96	8.81	15.23	89.98	7.88	82.04	500.97
GP34	PI 667278	0.39	21.69	7.95	14.36	91.08	8.36	82.70	536.06
GP40	PI 422539	0.26	22.37	8.06	13.57	90.95	8.85	82.62	566.56
GP41	PI 358891	0.30	22.52	8.14	13.34	90.84	9.00	82.56	575.72
GP42	PI 283599	0.33	20.25	8.58	15.14	90.27	7.93	82.21	505.02
GP43	PI 283589	0.43	23.29	8.45	12.26	90.44	9.80	82.31	625.30
GP44	PI 283580	0.32	21.82	8.06	17.12	90.94	7.02	82.62	449.39
GP45	PI 283569	0.42	20.93	9.45	17.62	89.15	6.81	81.54	430.35
GP47	PI 221467	0.40	20.44	8.60	14.96	90.24	8.03	82.20	511.37
GP49	PI 667277	0.22	18.94	8.39	16.67	90.52	7.20	82.36	459.76
GP53	PI 667271	0.29	22.51	7.70	15.12	91.40	7.94	82.90	510.12
GP58	PI 667276	0.26	20.73	7.52	15.75	91.64	7.62	83.04	490.37
GP59	PI 667275	0.26	21.24	7.79	14.97	91.29	8.02	82.83	514.95
GP60	PI 667265	0.23	20.29	8.59	15.13	90.26	7.93	82.21	505.46
GP61	PI 667264	0.25	20.74	8.66	15.26	90.17	7.86	82.16	500.57
GP74	PI 513243	0.26	19.19	8.43	18.39	90.47	6.53	82.34	416.55
GP103	PI 667251	0.29	23.25	8.25	12.50	90.70	9.61	82.47	614.05
GP104	PI 667250	0.26	18.69	9.15	19.49	89.53	6.16	81.77	390.31
GP105	PI 667248	0.29	22.33	8.36	13.31	90.56	9.02	82.39	576.14

Table S9. continued

Genotype	USDA GenBank ID	Beta- ODAP(%)	Raw protein (%)	Acid detergent fiber (%)	Neutral detergent fiber (%)	Total digestible nutrients (%)	Dry matter intake (%)	Digestible dry matter (%)	Relative feed values
GP107	PI 511770	0.36	22.25	7.79	13.96	91.30	8.60	82.83	551.97
GP108	PI 507931	0.26	21.35	7.83	14.82	91.24	8.11	82.80	520.29
GP110	PI 422538	0.29	21.43	7.47	15.11	91.71	7.95	83.08	511.92
GP114	PI 422529	0.31	19.31	7.60	17.09	91.54	7.02	82.98	451.64
GP116	PI 422521	0.33	20.05	7.98	15.97	91.05	7.52	82.68	482.11
GP117	PI 337007	0.32	22.11	7.63	14.25	91.49	8.43	82.95	541.98
GP119	PI 283592	0.50	23.26	7.66	13.08	91.46	9.19	82.93	590.37
GP120	PI 283587	0.29	20.19	8.48	19.66	90.41	6.10	82.30	389.26
GP124	PI 283579	0.33	23.26	7.58	13.17	91.56	9.11	82.99	586.17
GP133	PI 232923	0.49	21.69	8.36	13.95	90.55	8.61	82.39	549.73
GP135	PI 195995	0.49	23.88	7.39	12.54	91.81	9.58	83.15	617.03
GP145	PI 283562	0.27	19.10	9.36	16.87	89.26	7.11	81.61	449.95
GP147	PI 283576	0.25	22.54	8.30	13.15	90.64	9.13	82.44	583.19
GP149	PI 283595	0.29	20.41	7.86	13.75	91.20	8.73	82.78	559.88
GP150	PI 283594	0.33	16.65	8.39	18.98	90.52	6.33	82.37	403.76
GP152	PI 283588	0.40	21.63	8.48	18.55	90.40	6.47	82.29	412.70
GP156	PI 283559	0.33	18.45	9.88	20.33	88.59	5.90	81.20	371.41
GP157	PI 193544	0.32	21.44	9.61	19.62	88.95	6.12	81.42	385.99
GP161	PI 429368	0.32	21.64	9.87	18.82	88.61	6.38	81.21	401.44
GP163	PI 422541	0.38	20.07	9.59	20.35	88.97	5.90	81.43	372.21
GP164	PI 422531	0.39	20.16	8.02	21.84	91.00	5.49	82.66	351.99
GP165	PI 422527	0.35	22.29	8.96	12.75	89.79	9.42	81.92	597.89
GP166	PI 422526	0.45	22.67	9.27	15.82	89.38	7.59	81.68	480.42
GP177	PI 283584	0.50	19.78	7.58	16.65	91.57	7.21	83.00	463.84
GP178	PI 283577	0.36	22.25	7.79	13.96	91.30	8.60	82.83	551.97

Table S9. continued

Genotype	USDA GenBank ID	Beta- ODAP(%)	Raw protein (%)	Acid detergent fiber (%)	Neutral detergent fiber (%)	Total digestible nutrients (%)	Dry matter intake (%)	Digestible dry matter (%)	Relative feed values
GP179	PI 283573	0.36	21.71	8.54	16.09	90.33	7.46	82.25	475.56
GP180	PI 283572	0.37	18.39	8.29	18.33	90.65	6.55	82.44	418.22
GP181	PI 283565	0.38	22.56	7.70	13.75	91.41	8.73	82.90	560.98
GP182	PI 283560	0.39	20.28	7.89	15.83	91.17	7.58	82.76	486.32
GP184	PI 283561	0.38	19.13	7.70	17.16	91.41	7.00	82.90	449.42
GP196	PI 337087	0.37	21.09	7.70	15.22	91.41	7.89	82.90	506.92
GP197	PI 317441	0.39	20.83	9.25	21.59	89.41	5.56	81.70	351.91
GP198	PI 317440	0.37	19.66	8.61	18.41	90.24	6.52	82.20	415.49
GP199	PI 317439	0.41	19.24	8.21	24.23	90.75	4.95	82.50	316.72
GP206	PI 283571	0.42	21.36	7.59	15.05	91.54	7.98	82.98	513.45
GP207	PI 283567	0.36	23.98	7.76	12.26	91.33	9.79	82.85	628.88
GP209	PI 422540	0.37	22.76	7.34	13.89	91.87	8.64	83.18	557.21
GP213	PI 577139	0.25	22.39	7.19	14.40	92.07	8.34	83.30	538.19
GP214	PI 577138	0.29	22.69	7.75	13.55	91.34	8.86	82.86	568.97
GP215	PI 442801	0.51	19.65	7.88	19.14	91.18	6.27	82.77	402.28
GP222	PI 283557	0.27	18.74	10.22	16.35	88.15	7.34	80.94	460.46
GP224	PI 283555	0.33	17.17	9.68	18.15	88.85	6.61	81.36	416.81
GP225	PI 283554	0.39	13.52	8.98	21.49	89.75	5.58	81.90	354.48
GP227	PI 283551	0.32	21.94	8.62	13.42	90.22	8.95	82.18	570.26
GP228	PI 283549	0.37	21.35	8.74	13.93	90.07	8.62	82.09	548.52
GP229	PI 283548	0.33	19.92	9.77	15.32	88.74	7.84	81.29	493.93
GP230	PI 268478	0.36	19.70	7.91	16.36	91.13	7.35	82.74	471.51
GP232	PI 251413	0.33	20.27	9.28	20.79	89.37	5.77	81.67	365.36
GP233	PI 244756	0.37	22.19	8.69	13.13	90.13	9.15	82.13	582.62
GP234	PI 239867	0.33	23.55	8.02	12.43	91.00	9.66	82.65	618.60

Table S9. continued

Genotype	USDA GenBank ID	Beta- ODAP(%)	Raw protein (%)	Acid detergent fiber (%)	Neutral detergent fiber (%)	Total digestible nutrients (%)	Dry matter intake (%)	Digestible dry matter (%)	Relative feed values
GP235	PI 239866	0.40	21.77	7.76	14.46	91.33	8.31	82.85	533.58
GP237	PI 231456	0.32	20.30	8.99	14.70	89.75	8.17	81.90	518.53
GP242	PI 222203	0.32	24.64	7.85	11.52	91.21	10.42	82.78	668.63
GP243	PI 221466	0.40	19.74	8.43	15.84	90.47	7.58	82.33	483.84
GP244	PI 221465	0.38	22.43	8.39	13.17	90.52	9.12	82.37	581.84
GP246	PI 220176	0.39	23.04	8.27	12.66	90.67	9.48	82.45	605.96
GP247	PI 219923	0.38	23.53	9.97	20.49	88.47	5.86	81.13	368.35
GP248	PI 210342	0.45	24.08	10.15	19.78	88.25	6.07	81.00	380.89
GP249	PI 206375	0.39	18.47	8.65	16.87	90.18	7.11	82.16	453.00
GP251	PI 196863	0.41	21.26	8.98	13.76	89.76	8.73	81.91	554.07
GP256	PI 195997	0.46	21.74	8.55	17.07	90.31	7.03	82.24	448.32
GP262	PI 195605	0.48	20.53	9.06	14.38	89.65	8.35	81.84	529.37
GP270	PI 193815	0.40	21.14	7.35	15.53	91.86	7.73	83.17	498.14
Gürbüz	Control	0.36	22.32	8.38	13.30	90.53	9.03	82.37	576.75
Karadağ	Control	0.44	21.07	7.81	16.47	91.27	7.29	82.81	467.81
İptaş	Control	0.41	19.49	9.98	14.56	88.47	8.24	81.13	518.39
Corea	Control	0.45	22.84	8.83	12.33	89.96	9.73	82.02	618.74
Means \pm SD		0.35 \pm 0.07	21.06 \pm 1.77	8.43 \pm 0.75	15.72 \pm 2.63	90.47 \pm 0.97	7.83 \pm 1.19	82.33 \pm 0.59	499.86 \pm 77.55
LSD		**	**	**	**	**	**	**	**

**: Statistically significant at $p = 0.001$ significance level.

LSD is least significant differences