

PIMA COTTONSEED - Assays of the 1999 California/Arizona Crop

Pima Variety	DM %	OM % DM	Fat % DM	CP % DM	SoIP % CP	UndP % DM	NDF % DM	dNDF % NDF	NEI Mcal/kg	ADF	Ca	P	Mg % DM	K % DM	S	Na	Cl	Fe	Mn	Zn ppm DM	Cu	Mo
CH 252																						
	92.6	94.7	30.9	29.8	25.0	3.7	43.1	68.3	2.58	31.6	0.16	1.00	0.41	1.20	0.32	0.01	0.08	39	12	34	8	1.0
	93.7	95.3	23.1	29.8	32.0	6.0	53.7	55.5	2.05	39.5	0.20	0.98	0.44	1.29	0.30	0.01	0.09	51	15	41	9	1.3
Mean	93.2	95.0	27.0	29.8	28.5	4.9	48.4	61.9	2.32	35.6	0.18	0.99	0.43	1.25	0.31	0.01	0.09	45	14	38	9	1.2
Conquistador																						
	92.5	95.8	30.5	27.9	27.0	5.7	36.8	55.9	2.54	23.8	0.20	1.03	0.46	1.38	0.30	0.01	0.08	51	17	35	9	1.0
Mean	92.5	95.8	30.5	27.9	27.0	5.7	36.8	55.9	2.54	23.8	0.20	1.03	0.46	1.38	0.30	0.01	0.08	51	17	35	9	1.0
HTO																						
	93.2	95.1	28.1	30.4	24.0	3.9	36.6	58.0	2.48	25.8	0.19	1.08	0.46	1.35	0.34	0.01	0.13	66	15	49	11	1.0
	93.2	94.7	27.3	31.8	27.0	4.1	40.9	59.7	2.40	30.4	0.23	1.02	0.44	1.31	0.35	0.01	0.19	64	16	49	7	2.3
	93.0	94.8	26.7	28.9	29.0	4.5	44.7	58.5	2.32	34.6	0.21	1.13	0.48	1.36	0.31	0.01	0.12	60	16	49	8	1.3
	92.9	94.9	28.3	27.7	28.0	4.7	49.6	63.2	2.36	32.9	0.19	1.14	0.48	1.34	0.31	0.01	0.09	55	15	42	9	1.1
	93.6	95.1	34.0	28.4	25.0	3.2	48.5	48.9	2.40	34.0	0.20	1.04	0.44	1.34	0.27	0.01	0.09	56	14	42	9	1.3
	93.7	95.4	23.6	27.2	29.0	5.5	46.9	48.4	2.08	33.1	0.20	0.98	0.44	1.27	0.30	0.01	0.02	50	15	45	9	1.0
Mean	93.3	95.0	28.0	29.1	27.0	4.3	44.5	56.1	2.34	31.8	0.20	1.07	0.46	1.33	0.31	0.01	0.11	59	15	46	9	1.3
Phytogen 57																						
	92.7	95.2	26.9	27.6	28.0	4.7	47.9	52.8	2.22	37.4	0.19	0.99	0.43	1.27	0.28	0.01	0.09	43	14	34	8	1.0
	93.5	95.3	23.0	29.4	25.0	2.4	48.1	46.0	2.04	37.9	0.19	1.04	0.44	1.32	0.30	0.01	0.07	57	15	39	9	1.3
	93.5	95.3	24.0	28.1	25.0	2.8	50.3	46.0	2.03	35.9	0.19	1.01	0.44	1.30	0.29	0.01	0.11	53	14	39	9	1.3
	93.3	94.9	27.2	32.2	27.0	2.8	38.8	46.7	2.32	26.4	0.19	1.09	0.47	1.31	0.34	0.01	0.10	48	14	42	9	1.0
	92.3	95.2	25.7	29.8	28.0	7.0	42.4	44.2	2.16	29.6	0.23	1.00	0.46	1.30	0.29	0.01	0.11	56	15	40	11	1.0
	92.4	95.3	23.8	27.7	28.0	5.1	47.1	45.9	2.06	35.6	0.20	0.93	0.42	1.27	0.28	0.01	0.10	46	15	36	9	1.2
	92.1	94.9	30.1	32.1	25.0	2.8	36.8	65.0	2.59	23.1	0.16	0.96	0.42	1.23	0.33	0.01	0.11	59	14	39	9	1.0
Mean	92.8	95.2	25.8	29.6	26.6	3.9	44.5	49.5	2.20	32.3	0.19	1.00	0.44	1.29	0.30	0.01	0.10	52	14	38	9	1.1

Pima Variety	DM %	OM % DM	Fat % DM	CP % CP	SoIP % CP	UndP % DM	NDF % DM	dNDF % NDF	NEI Mcal/kg	ADF	Ca	P	Mg	K % DM	S	Na	Cl	Fe	Mn	Zn	Cu	Mo
S 6																						
	92.8	96.6	27.7	28.5	24.0	3.5	39.7	52.9	2.41	28.1	0.19	1.04	0.46	1.30	0.28	0.01	0.06	47	15	38	9	1.0
	93.9	95.0	29.3	27.8	26.0	3.2	42.9	54.5	2.39	25.8	0.16	1.03	0.42	1.20	0.46	0.01	0.04	35	13	35	8	1.0
	93.2	95.3	27.6	31.1	24.0	2.9	41.2	56.2	2.39	31.9	0.19	1.06	0.47	1.27	0.29	0.01	0.05	43	15	41	9	1.0
	93.6	95.8	20.0	19.8	14.0	9.6	58.1	37.0	1.65	44.5	0.17	0.88	0.40	1.20	0.21	0.01	0.09	38	13	31	7	1.0
	94.1	94.7	32.9	26.7	29.0	2.6	40.0	64.7	2.65	24.7	0.18	1.26	0.50	1.30	0.29	0.01	0.07	50	15	39	9	1.0
Mean	93.5	95.5	27.5	26.8	23.4	4.4	44.4	53.1	2.30	31.0	0.18	1.05	0.45	1.25	0.31	0.01	0.06	43	14	37	8	1.0
S 7																						
	92.5	95.0	30.7	34.5	27.0	2.9	38.4	74.0	2.69	20.0	0.17	0.98	0.41	1.19	0.35	0.01	0.11	65	15	42	9	1.0
	93.1	95.1	29.1	30.8	25.0	2.9	45.6	62.4	2.44	29.1	0.16	0.97	0.41	1.19	0.32	0.01	0.08	49	13	39	7	1.0
	93.4	95.0	32.9	31.5	31.0	3.5	43.0	51.2	2.47	32.9	0.18	1.13	0.48	1.31	0.32	0.01	0.09	130	14	48	9	1.3
	94.1	95.4	25.5	31.1	27.0	1.6	49.8	55.4	2.20	33.5	0.18	1.12	0.47	1.33	0.33	0.01	0.12	62	14	52	11	1.1
	93.9	95.0	25.2	31.8	28.0	3.5	37.9	49.9	2.29	28.4	0.22	1.03	0.43	1.28	0.32	0.01	0.09	48	14	40	8	1.3
	94.0	95.2	24.9	29.9	26.0	2.3	41.9	50.2	2.24	27.6	0.18	1.07	0.46	1.32	0.31	0.01	0.12	60	14	51	9	1.2
	93.7	95.5	23.7	24.6	26.0	6.1	53.0	46.4	1.97	36.8	0.17	0.89	0.40	1.23	0.27	0.01	0.09	41	13	33	7	1.0
	94.3	95.2	24.1	28.2	21.0	3.2	45.3	53.2	2.19	31.6	0.19	1.05	0.45	1.34	0.30	0.01	0.05	61	14	51	12	1.5
Mean	93.6	95.2	27.0	30.3	26.4	3.3	44.4	55.3	2.31	30.0	0.18	1.03	0.44	1.27	0.32	0.01	0.09	65	14	45	9	1.2
Overall	93.3	95.2	27.1	29.1	26.2	4.0	44.4	54.2	2.30	31.3	0.19	1.03	0.44	1.29	0.31	0.01	0.09	55	14	41	9	1.2
Min	92.1	94.7	20.0	19.8	14.0	1.6	36.6	37.0	1.65	20.0	0.16	0.88	0.40	1.19	0.21	0.01	0.02	35	12	31	7	1.0
Max	94.3	96.6	34.0	34.5	32.0	9.6	58.1	74.0	2.69	44.5	0.23	1.26	0.50	1.38	0.46	0.01	0.19	130	17	52	12	2.3

Assay Codes

DM	-	Dry matter	UndP	-	CP estimated to be totally indigestible in the digestive tract
OM	-	Organic matter (i.e., 100-ash)	NDF	-	Neutral detergent fiber
Fat	-	Fat	dNDF	-	NDF estimated to be digested in the rumen
CP	-	Crude Protein	NEI	-	Net energy for lactation (3X Maintenance) calculated from the assays according to equations described in 'Estimating the Energy Value of Ruminant Feedstuffs' (posted 3/15/99)
SoIP	-	CP estimated to be immediately soluble in the rumen	ADF	-	Acid detergent fiber