

**Additional file 1 (.txt). - Phenotypic characteristics of the horses of both breeds.** Includes phenotypical characteristics (breed, sex, age, weight, height) and the relationship between individual of the group.

Horse ID	Breed	Sex	Age (Years)	Weight (Kg)	Height (Inches)	Relationship
1	AMH	♂	12.16	110.5	32.5	ND
2	AMH	♂	6	102	34	ND
3	AMH	♂	7.08	100	32	ND
4	AMH	♂	5	103	32.5	ND
5	AMH	♂	16.16	90	28	ND
6	AMH	♀	6	100	34	ND
7	AMH	♀	5	98	31	ND
8	AMH	♀	5	99	34.5	ND
9	AMH	♀	6.16	102	36	ND
10	AMH	♀	0.08	12	24.5	Foal of #9 y #3
11	AMH	♀	13.16	106	30	ND
12	AMH	♀	11.16	105	31	ND
13	AMH	♀	9.16	115	33.7	ND
14	AMH	♀	9.16	118	33	Mother of #15
15	AMH	♂	0.25	16	21.2	Foal of 3# y #15
16	AMH	♀	8	110	36	ND
17	AMH	♀	4.16	99	35.5	ND
18	AMH	♀	11.08	114	33.5	ND
19	AMH	♀	13.92	98	33	Mother of #20
20	AMH	♂	0.16	14	26	Foal of #19 y #1
21	AMH	♀	10.25	106	31.5	ND
22	AMH	♀	0.5	48	28.5	ND
23	AMH	♂	2	95	30	ND
24	AMH	♀	5.92	100	31.5	ND
25	AMH	♀	11.08	100	32.5	ND
26	AMH	♀	12.67	120	32.7	ND
27	AMH	♀	11	118	35	ND
28	AMH	♀	6.84	100	32.7	ND
29	AMH	♀	12.16	110	33.4	ND
30	AMH	♀	15	100	29	ND
31	AMH	♀	12	98	32	ND
32	AMH	♂	6	112	34	ND
33	AMH	♂	11.25	102	29	ND
34	AMH	♀	2.16	100	32	ND
35	AMH	♀	6	105	33	Mother of #36 #43
36	AMH	♂	0.16	45	26	Foal of #35 y #2
37	AMH	♀	7	105	35.5	ND
38	AMH	♀	6	104	35	Mother of #39
39	AMH	♀	0.5	49	30	Foal of #38 y #42

40	AMH	♂	6	100	32	ND
41	AMH	♀	6	103	35	Mother of #42
42	AMH	♂	0.08	28	24	Foal of #41 y #32
43	AMH	♀	2.33	101	32.5	Foal of #35 y #2
44	AMH	♀	2.67	100	32.5	Foal of #37 y #2
45	AMH	♂	3.08	105	36	Foal of #37
46	AMH	♀	1	98	31.5	ND
47	AMH	♂	0.67	85	28.5	Foal of #37 y #2
48	AMH	♀	2	100	30.5	ND
49	AMH	♀	5	110	33	ND
50	AMH	♀	3	105	32.5	ND
51	QH	♀	2	300	64	ND
52	QH	♂	2	320	64	ND
53	QH	♂	5	425	64.5	ND
54	QH	♀	10	600	65	ND
55	QH	♀	5	400	64.5	ND
56	QH	♀	6	438	66	ND
57	QH	♀	6	433	65	ND
58	QH	♂	11	602	66	ND
59	QH	♂	3	450	64	ND
60	QH	♀	7	455	64	ND
61	QH	♀	3	410	64.3	ND
62	QH	♂	5	430	64.2	ND
63	QH	♀	15	598	66	ND
64	QH	♂	7	500	66.1	ND
65	QH	♀	7	515	65	ND
66	QH	♂	1	250	65	ND
67	QH	♂	1	280	64.2	ND
68	QH	♂	11	595	66	ND
69	QH	♂	5	490	66	ND
70	QH	♀	5	480	64.3	ND
71	QH	♀	7	500	64.3	ND
72	QH	♂	5	480	64	ND
73	QH	♀	5	440	64.5	ND
74	QH	♀	7	520	65	ND
75	QH	♀	8	525	65	ND
76	QH	♀	5	445	66	ND
77	QH	♀	10	602	64.2	ND
78	QH	♂	1	400	64.3	ND
79	QH	♂	10	600	64.2	ND
80	QH	♀	5	450	66	ND
81	QH	♀	8	500	64	ND
82	QH	♀	10	603	64.2	ND
83	QH	♀	8	520	64.2	ND

84	QH	♀	6	522	64.5	ND
85	QH	♀	5	500	64.2	ND
86	QH	♀	7	532	65	ND
87	QH	♂	12	602	65	ND
88	QH	♂	12	598	64.5	ND
89	QH	♂	8	550	65	ND
90	QH	♀	9	552	65	ND
91	QH	♂	12	600	66	ND
92	QH	♀	6	489	65.2	ND
93	QH	♂	16	600	65.3	ND
94	QH	♀	7	492	64	ND
95	QH	♂	14	595	64.3	ND
96	QH	♀	5	500	64	ND
97	QH	♂	1	400	64.5	ND
98	QH	♂	9	480	64	ND
99	QH	♂	11	593	64.3	ND
100	QH	♂	9	460	66	ND

\*ND: Not Determined