

# Salt Wells Creek Released Curly Mustangs

## Ancestral Genetics

### DNA Marker Results

Sample date: 11/13/2010

#### Breed Group Associations

#### Top 3 most prominent Markers Associated with Breeds or Breed Groups

Sample number	Color	Sex	Est.Age	1 <sup>st</sup> Association	2 <sup>nd</sup> Association	3 <sup>rd</sup> Association
#1	Bay	Female	4 yr	Pony 1 ( Shetland, Hackney, etc)	Welsh Pony	Warmblood 1 – Western European (Belgian, Dutch, Austrian Warmbloods)
#2	Bay	Female	12 yr	Non- Arabian Oriental (Akhal Teke, Caspian, East Indian)	Carriage Horse breeds ( Hackney, Cleveland Bay, etc )	Warmblood 1 – Western European ( Belgian, Dutch, Austrian Warmbloods )
#3	Black	Female	2 yr	North American Saddle Breeds 2 ( Morgan, Saddlebred)	Warmblood 1 – Western European ( Belgian, Dutch, Austrian Warmbloods)	North American saddle breeds 1 ( Rocky Mtn., Missouri Foxtrotter)
#4	Black	Female	3 yr	Heavy Draft 2 (Shire, Clydesdale, etc.)	Heavy Draft 1 (Belgian Draft, etc)	Pony 1 ( New Forest, Highland)
#9	Sorrel	Female	4 yr	Heavy Draft 2 (Shire, Clydesdale, etc.)	Heavy Draft 1 ( Belgian Draft, etc)	Pony 2 ( Dales/ Fell Pony)
#14	Sorrel	Female	3 yr	Heavy Draft 1 (Belgian Draft, etc.)	Warmblood 1 – Western European (Belgian, Dutch, Austrian Warmbloods)	Pony 3 (Shetland, Hackney, etc. )
#15	Black	Female	3 yr	Heavy Draft 2 (Shire, Clydesdale, etc. )	Nordic Horses (Nordic Fjord, Icelandic, etc. )	Pony 3 (Shetland, Hackney, etc.)
#21	Bay	Male	3 yr	Carriage Horse Breeds (Hackney, Cleveland Bay)	Heavy Draft 2 (Shire, Clydesdale, etc)	Pony 1 ( New Forest, Highland)
#24	Black	Male	9 yr	North American Saddle Breeds	Paso Fino Breeds	Quarter Horse

Sample number	Color	Sex	Est. Age	1 <sup>st</sup> Association	2 <sup>nd</sup> Association	3 <sup>rd</sup> Association
#26	Sorrel	Male	13 yr	Welsh Pony	Brazilian Breeds	Irish Breeds
#27	Black	Male	20 yr	Carriage Horse Breeds ( Hackney, Cleveland Bay)	Warmblood 1 – Western European (Belgian, Dutch, Austrian Warmbloods)	Welsh Pony
#28	Sorrel	Male	5 yr	Non- Arab Oriental ( Akhal Teke, Caspian, East Indian)	Nordic Horses ( Nordic Fjord, Icelandic, etc)	Arabian
#29	Sorrel	Male	14 yr	Irish Breeds	Non-Arab Oriental (Akhal Teke, Caspian, East Indian)	Warmblood 1 – Western European (Belgian, Dutch, Austrian Warmblood)
#30	Brown	Male	3 yr	North American Saddle breeds 1 (Rocky Mountain, Missouri Foxtrotter)	Irish Breeds	Heavy Draft 1 (Belgian Draft, etc)
#31	Brown	Male	3 yr	North American Saddle Breeds 1 Rocky Mountain, Missouri Foxtrotter)	Pony 1 (New Forest, Highland)	Brazilian Breeds
#32	Black	Male	3 yr	Standardbred	Non Arab Oriental ( Akhal Teke, Caspian, etc)	Quarter Horse
#33	Black	Male	20 yr	Heavy Draft 2 ( Shire, Clydesdale)	Pony 1 ( New Forest, Highland)	Heavy Draft 1 (Belgian Draft, etc)

**Note: This population seems to be heavily influenced by:**

- 1. Western European Warmblood**
- 2. Heavy Draft**
- 3. Pony Breeds**

BREED GROUP ASSOCIATION	1st	2nd	3rd		
1. Pony 1- New Forest, Highland					
2. Non-Arabian Oriental- Akhal Teke, Caspian etc.					
3. South American Criollo					
4. Welsh Pony					
5. Carriage Horse- Hackney, Cleveland Bay					
6. Paso Fino breeds					
7. Andalusian/Lusitano					
8. Arabian					
9. Pony 2- Dales/Fell					
10. Haflinger					
11. Warmblood 1- Western Europe					
12. Quarter Horse					
13. Standardbred					
14. Thoroughbred					
15. Irish breeds					
16. North American 1- Rocky Mtn, Mountain Pleasure					
17. Exmoor					
18. North American 2- Morgan, Saddlebred					
19. Brazilian breeds					
20. Tennessee Walker					
21. Warmblood 2- Eastern Europe					
22. Nordic- Fjord, Icelandic					
23. Heavy Draft 1- Belgian etc.					
24. Heavy Draft 2- Shire, Clydesdale					
25. Pony 3- Shetland, Hackney etc.					

**Note: Missouri Foxtrotter is included in North American 1**