

Coordinated Resource Management Plan

Ranch/Allotment Name

- 76 Ranch

Coordinated Plan Participants

- Bonita Ranch LLC, Jay Whetten, owner
- Bureau of Land Management (BLM), Safford Field Office
- Natural Resource Conservation Service (NRCS)
- Arizona Game and Fish Department (AZGFD)
- United States Forest Service (USFS), Safford Ranger District
- Arizona State Land Department (ASLD)
- Arizona Natural Resource Conservation Districts State Association (AZNRCD)
- Gila Valley Natural Resource Conservation District (NRCD)

Description of Ranch and Location

According to available records, a Mr. Bell started the 76 Ranch. Then, W.T. Webb acquired the ranch around 1889, lost the ranch for a short period of time, and then got it back and ran it until his death in 1938. His wife Claire Noelke Webb ran the ranch until she died in 1954. During part of the time the Webb's had the ranch, it was operated as a working ranch and a guest ranch. At Claire's death, her brother, Buster Noelke, operated the ranch until it was sold to the brothers Alfred, Milton, and John Stansberry in the 1950s. Alfred and Mary Stansberry later bought the ranch from his brothers and they ran it until David Gard bought it. Daryl Wolfswinkel acquired the ranch in 2003, and doubled the size of the ranch to the west with the purchase of a portion of the Eureka Springs Ranch in 2006. Bonita Ranch LLC, Jay Whetten acquired the ranch in 2010.

The ranch is currently run as a cow-calf operation of approximately 800 head with mainly Angus crossbreed cows and Angus bulls. Cows are bred to calve from February 1st to May 1st. Cattle are rotated depending on forage in each pasture and where water is available. Fecal analysis is done in each pasture regularly and supplement is formulated to provide proper nutrients according to fecal analysis results. Ideally, the bull to cow ratio is about 1:20-25.

An Allotment Management Plan for the three USFS administered allotments was signed October 14, 2010, and is still in effect. For a list of existing improvements see Appendix A.

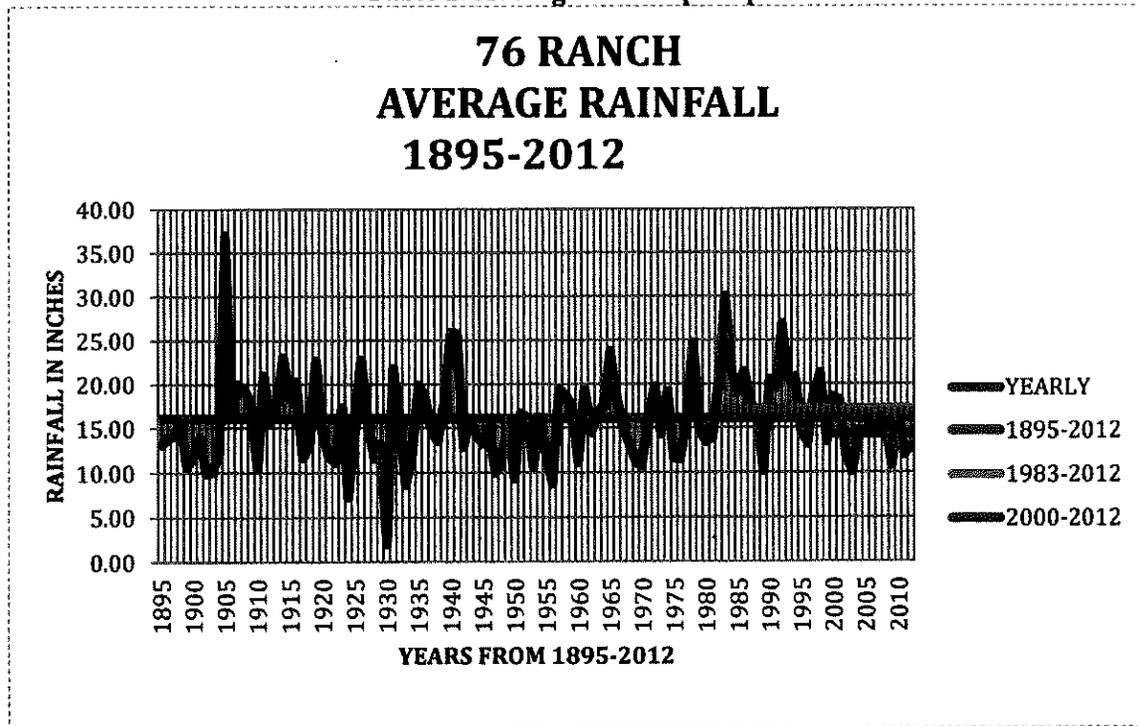
The 76 Ranch is located about 6 miles northwest of Bonita, Arizona. It lies mainly north of the Klondyke Road towards Klondyke for about 16 miles (See Map 1). The lowest point is on the west side of the ranch (3,910 feet above sea level) where Kennedy Falls Wash intersects the Klondyke Road on the west side. The highest point is on the Coronado National Forest at about 8,000 feet above sea level on the northeast side of the ranch. The ranch lies entirely in Graham County.

The ranch is situated within two Major Land Resource Areas: 38 Mogollon Transition and 41 Southeastern Arizona Basin and Range. The area includes Major Land Resource Area 38-1 Lower Mogollon Transition (12-16 inches annual precipitation), Major Land Resource Area 38-2 (16-20

inches annual precipitation), 41-3 Chihuahuan-Sonoran Semi-desert Grassland (12-16 inches annual precipitation), and MLRA 41-1 (Mexican Oak-Pine Forest and Oak Savannah, 16-20 inches annual precipitation). Vegetation ranges from scrub grasslands in the lower elevations to Oak/Juniper woodlands at the higher elevations.

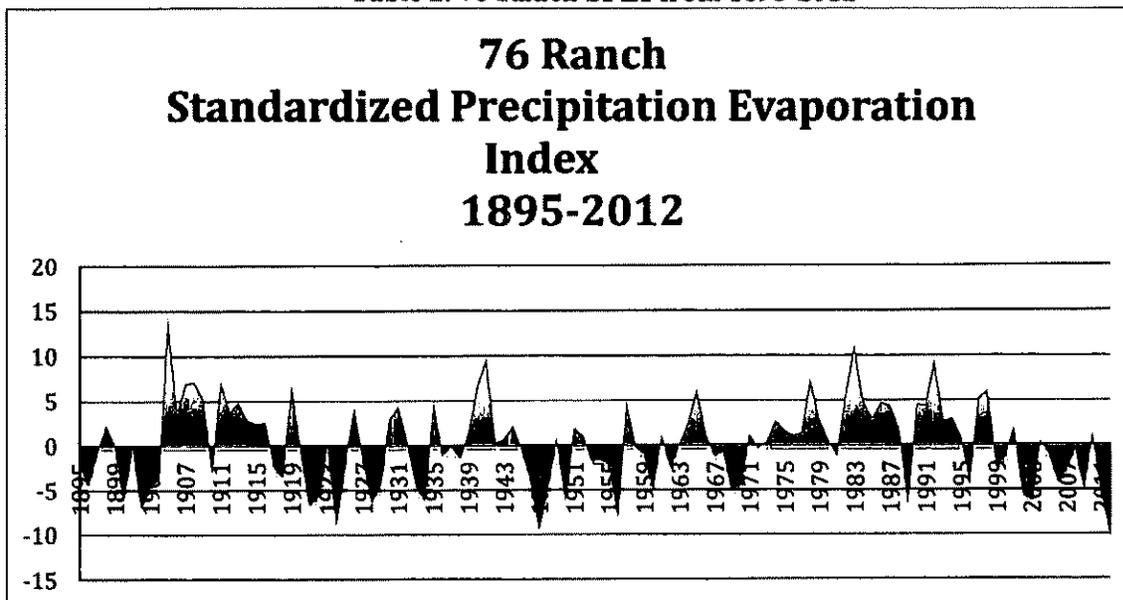
Precipitation records have been kept at the ranch headquarters for the last two years. The NOAA Western Regional Climate Center West Wide Drought Tracker (www.wrcc.dri.edu/wwdt/time/) PRISM climate mapping model was used to estimate monthly precipitation at the center of the allotment from 1895 through 2012. PRISM uses a 4-kilometer grid for modeling purposes. The 1895-2012 average annual precipitations for the center of the ranch were 16.09 inches (See Table 1) Average precipitation from 1983-2012 was 17.14 inches and from 2000-2012 the average annual precipitation was 14.32 inches. The last figures show how drought has reduced the average annual precipitation in the last 12 years by about two inches.

Table 1. Average annual precipitation



The Standardized Precipitation-Evapotranspiration Index (SPEI) is a drought index beginning to be used in the western United States because it is thought to be more sensitive than the older Palmer Drought Severity Index. The SPEI shows that the area has been in a drought since about 1998 and the drought severity is more severe than any drought since 1895.

Table 2. 76 Ranch SPEI from 1895-2012



The effects of this long-term drought are being reflected on the landscape by long-term springs and wells going dry, and by mortality of vegetation throughout the ranch.

Land Status

Ownership	Acres	Permit/Lease #
Private Controlled	9,800	
Private Uncontrolled		
BLM		
Forest Service	15,432	
State Trust	45,759.14	05-101925, 05-111635
Tribal		
Other		

The USFS administers three allotments adjacent to the state and private lands on the 76 Ranch: Two Troughs, Cedar Springs, and 76 Ranch. Inventories were not done on USFS lands; improvements are planned for the USFS allotments and are shown in the proposed improvements. *Permitting and Environmental Analysis required for projects on the National Forest are the responsibility of the USFS.*

Benchmark Condition

Benchmark conditions were determined by NRCS and a Technical Service Provider contracted by the AZNRCD. At each location species composition and production in pounds/acre were estimated. This information was used to calculate a similarity index comparing present vegetation on the site to reference conditions. At each location, range health, or Rangeland Health Evaluation (RHE), was

evaluated using a subjective rating of 17 factors associated with the soil stability, hydrologic function, and biotic integrity of the present situation compared to reference conditions for the site. A Wildlife Habitat Evaluation Guide (WHEG) for Upland Habitat was also completed. The WHEG evaluates wildlife food, cover, water, and habitat fragmentation to determine conditions suitable for wildlife.

MLRAs are used with Ecological Site Descriptions to determine the reference plant community and document any departure from the Historic Climax Plant Community (HCPC).

Similarity Indices

Annual production and percent composition of each species are estimated for each transect. Plant species are scored by percent of annual production and a percent of the reference plant community as stated for the Ecological Site Guide for each ecological site (NRCS Ecological Site Description). Each plant scored—whether they are grasses, trees, shrubs, or forbs—must be given a percentile, which, when combined, total to 100% of the plant community. A similarity index (SI) is formed from the percent of reference plant community of individual species and conveys the likeness of the current site to its potential or HCPC. Inventory points were established on each ecological site on the ranch. These inventory points are not permanent sites and are not used to monitor vegetation annually.

The similarity index can be used as an assessment of the current plant community in relationship to the desired or potential plant community. Indices that are collected over time can depict the trend or direction of change the current plant communities are heading in relationship to the desired plant community. Management practices may have to be adjusted or implemented to maintain or improve a site in order to meet management goals. Plant condition—productivity, health, and vigor—is considered a resource concern when the SI is less than 60 and/or the Rangeland Health Attribute Rating for Biotic Integrity is considered moderate or high departure from the Ecological Site Description.

**Table 3. Rangeland Health Assessment, Similarity Index, and RHE
(WGS 84 datum used for inventory points)**

N-S = none to slight, S-M = slight to moderate, M = moderate,
M-E = moderate to extreme departures from expected

Transect #	Location	Ecological Site	SI	RHE Soil	RHE Hydrolic	RHE Biotic
2A	579256 3614184	Sandy Wash 41-3	48	M-E	M-E	M-E
3A	578986 3614013	Limy Slopes 41-3	54	N-S	N-S	N-S
T5	580129 3628179	Granitic Hills 38-2	23	N-S	N-S	S-M
T6	579485 3629868	Granitic Upland 38-2	33	S-M	S-M	M
T7	577618 3629511	Sandy Wash (QUEM) 38-2	72	N-S	N-S	N-S

Transect #	Location	Ecological Site	SI	RHE Soil	RHE Hydrolic	RHE Biotic
T8	576016 3621525	Limy Slopes 38-1	48	N-S	N-S	M
T9	575590 3620200	Sandy Wash 41-3	18	S-M	M	M-E
T10	580124 3623046	Loamy Upland 38-1	47	N-S	N-S	M
T13	575824 3624351	Limy Slopes 38-1	65	N-S	N-S	N-S
T14	574831 3622858	Limy Slopes 38-1	85	N-S	N-S	N-S
T15	574072 3622297	Sandy Loam Deep 41-3	36	M	M	M-E
DF2	580762 3619934	Loamy Slopes 41-3	71	N-S	N-S	N-S
DF9	583317 3620106	Volcanic Hills Clayey 38-1	55	N-S	N-S	M
DF10	581495 3618927	Clayey Slopes 38-1	51	N-S	N-S	N-S
LS1	577574 3622265	Limy Slopes 38-1	70	N-S	N-S	N-S
76-1	585212 3619158	Sandy Loam Upland 41-3	23	S-M	S-M	M
76-2	583503 3614700	Loamy Slopes 41-3	32	N-S	N-S	N-S
76-3	585101 3613604	Clay Loam Upland 41-3	36	N-S	S-M	M
76-4	587675 3616461	Loamy Upland 41-3	26	N-S	N-S	S-M
76-5	587675 3616461	Loamy Upland 41-3		S-M	S-M	M
76-6	589190 3613728	Sandy Loam Deep 41-3	28	N-S	S-M	M
76-7	584788 3611064	Loamy Bottom 41-3	77	S-M	S-M	S-M
76-8	587747 3612313	Loamy Upland 41-3	14	S-M	M	M
76-9	590987 3614905	Granitic Hills 41-1	44	N-S	N-S	S-M
WT-2	589272 3607904	Sandy Loam Upland 41-3		M	M-E	M-E
WT-3	590161 3607070	Sandy Loam Deep 41-3		M	M	M
WT-5	589255 3607167	Sandy Loam Upland 41-3		M-E	M-E	E
WT-7	585268 3608312	Limy Slopes 41-3		S-M	M	M

Transect #	Location	Ecological Site	SI	RHE Soil	RHE Hydrologic	RHE Biotic
WT-9	585813 3608219	Sandy Loam Upland 41-3		M-E	M-E	E

*Ecological Site Description not yet developed.

The above sites were inventoried at different times. The sites labeled with a "T" or "DF" were originally inventoried in 2000, when the west side of the present ranch was under different ownership and management. The sites labeled beginning "76" were inventoried in 2013, and the sites labeled "WT" were inventoried in 2012. Each of the sites originally inventoried were re-inventoried in 2013 to check the validity of the previous surveys.

Discussion of Ecological Sites

The MLRA 38 (Mogollon Transition) ecological sites included on the ranch are 38-1 with 12-16 inches annual precipitation and 38-2 receiving 16-20 inches of precipitation annually. The MLRA 41 (Southeastern Arizona Basin and Range) ecological site present is 41-3, 12-16 inches annual precipitation. These two MLRAs meet at the north end of the 76 Ranch. The main difference between the two MLRAs is that MLRA 38 has a greater percentage of winter rainfall vs. summer rainfall than MLRA 41. This is manifested by MLRA 38 ecological sites having the potential to produce greater amounts of cool season plants than MLRA 41. MLRA 38 soils tend to have thicker, dark colored A horizons, than MLRA 41. MLRA 38 sites are generally higher in elevation than MLRA 41 and therefore slightly cooler, allowing for the accumulation of more organic matter in the soil profile. The differences between the two MLRAs on the 76 Ranch are relatively minor, especially in areas immediately adjacent to the MLRA boundaries.

MLRA 38-1 Limy Slopes – 4,684 acres:

The Limy Slopes ecological site occurs on the west side of the ranch, on steep slopes where the granitic alluvium top layer of soil has eroded, exposing the calcareous older alluvium from old lakebed sediments. The similarity index of this ecological site varies from 45 to 85, with most sites being well above 60. This area of the ranch has historically had very light livestock use, mainly from lack of permanent water. Brush management is planned for this ecological site because of prickly pear invasion along 2E Wash. A total of about 500 acres of herbicide treatment is recommended for this area. Prescribed fire at long intervals might help reduce shrubby species. Several areas in the Kennedy Falls Wash area are approaching HCPC. This site has a high diversity of perennial grasses. The Rangeland Health Evaluation for this site shows all three factors (soil, hydrologic, and biotic) in moderate or lower categories, illustrating an ecological site with no resource concerns.

MLRA 38-1 Volcanic Hills, Clayey – 2,396 acres:

The Volcanic Hills ecological site lies on the northeast side of the ranch, next to the USFS boundary. The similarity index of this site (approximately 60) was calculated in 2000, and re-checked in 2013. This site lies closer to historic waters and has consequently had greater grazing pressures over time. No brush management is planned for this site. It contains a high diversity of grasses. The Rangeland

Health Evaluation showed all three factors in a moderate or lower category reflecting a lack of resource concern for this site.

MLRA 38-1 Granitic Upland – 1,521 acres:

The Granitic Upland ecological site occurs on the extreme north and east side of the ranch. An ecological site description has not been approved for this site. It was evaluated using the Granitic Hills Ecological Site Description. The Similarity Index was estimated to be in the low 20s. It has been historically over used due to its proximity to water and slopes less than 15 percent. In a Historic Climax Plant Community state, this site should be at least 60 percent perennial grasses. There are currently few perennial grasses to be found.

The Rangeland Health Evaluation showed a slight to moderate departure for soil factors, primarily because of sheet erosion, a slight to moderate departure from normal for hydrologic factors, and a moderate departure for biotic factors.

MLRA 38-1 Loamy Hills – 2,085 acres:

A Loamy Hills Ecological Site Description has not been developed. When compared to a Loamy Upland Description and a Schist Hills Description, estimates of the probable Similarity Index can be made. It is estimated the Similarity Index is between 47 and 62 for this site. Brush species are higher than HCPC and have increased on the site over time. Invading species are not to the point that brush management is recommended. Prescribed burning would help increase perennial grasses and reduce brushy species thus increasing the Similarity Index.

The Rangeland Health Evaluation revealed none to slight departures from normal for soil and hydrologic factors and a moderate deviation for the biotic factor. Grazing management and possible prescribed burning may help improve this site.

MLRA 38-1 Loamy Upland – 1,400 acres:

The Loamy Upland ecological site lies on granitic alluvial fans on the eastern side of the ranch near the headwaters of Sheep Wash. Even though this site has been historically overused by livestock, due to the proximity of perennial water, it still has a SI of 47. The site contains a wide variety of grasses and an increase in shrubby species, mainly catclaw acacia and wait-a-bit bush. The invading species do not warrant brush management.

A Rangeland Health Evaluation shows the soil and hydrologic factors in the none to slight categories and the biotic factor in the moderate category. Proper grazing management and favorable climatic conditions may allow this site to improve its SI into the 60s.

MLRA 38-1 Sandy Loam Upland – 375 acres:

A small expanse of Sandy Loam Upland lies next to the USFS lands. An Ecological Site Description has not been developed for this ecological site. It is estimated to have a low SI due to historic overgrazing and proximity to yearlong livestock water. No transect was completed in this

ecological site. Planned grazing management is the only practice recommended to address resource concerns. Rangeland Health Evaluation was not completed on this unit.

MLRA 38-1 Sandy Wash – 538 acres:

This ecological site occurs on the north side of the ranch. No transect was inventoried in MLRA 38-1 since it was similar to the Sandy Wash site T9. It lies in broad washes near the western boundary. The similarity index is estimated to be from 18 to 25. This site was overgrazed historically due to its flat topography and proximity to permanent water.

Over time, this ecological site has lost much of its perennial grasses and trees, and shrubs have increased. Even with planned grazing management, this site may not improve to a much higher similarity index. After planned grazing management is in place for a number of years, perennial grasses may increase enough to allow prescribed fire to reduce shrubs and trees, and improve the condition. Mechanical or chemical brush management is not recommended.

The Rangeland Health Evaluation would be similar to the T9 transect. It shows a slight to moderate departure for the soil category, moderate departure for hydrologic, and moderate to extreme departure for the biotic resource.

MLRA 38-1 Clayey Slopes – 2,563 acres:

The Clayey Slopes unit is found on breaks downslope from the Sandy Loam Upland ecological site. Slopes are 15 to 45 percent. The similarity index is 51. A representative area is on the slopes of 2E wash. Portions of this ecological site are planned for brush management (chemical treatment of prickly pear). Due to the slope and distance from permanent water it has not been historically overgrazed. The reduction in similarity index is primarily from increases in prickly pear cactus.

MLRA 38-1 Clay Loam Upland – 152 acres:

The Clay Loam Upland unit lays downslope from the Sandy Loam Upland ecological site. Slopes are somewhat greater than on the Sandy Loam Upland and the Sandy Loam surface has eroded over time leaving a Clay Loam Upland. A transect was not conducted on this site. However, a visual estimate shows that the site probably has a SI in the mid-60s.

A Rangeland Health Evaluation was not completed on this site, but it is similar to the rangeland health evaluation done for the 41-3 Clay Loam Upland. All three categories, soil, hydrologic, and biotic, would be in the none to slight category. No brush management is recommended for this site.

MLRA 38-1 Sandy Loam Deep – 76 acres:

This is a minor unit in the 38-1 MLRA. An ecological site description has not been developed for this site and a transect was not completed.

MLRA 38-2 Granitic Hills – 1,844 acres:

This ecological site lies on the north end of the ranch. It has a similarity index of approximately 23, due to historic overgrazing. An Ecological Site Description has not been developed for MLRA 38-2, so it was compared to the MLRA 38-1 site. It has been invaded by brushy species with a loss of perennial grasses. The most noxious invading species is wait-a-bit bush and it has increased on most of the unit.

On the east side of the ranch, wait-a-bit bush (*Mimosa aculeaticarpa* var. *biuncefera*) has invaded the site. This is the primary ecological site proposed for Tebuthiuron spraying. The proposed treatment would cover 1,092 acres on State Trust Lands, 825 acres on the USFS Two Troughs Allotment, and 1,548 on the USFS Cedar Springs Allotment, for a total of 3,465 acres.

At the transect location the Rangeland Health Evaluation showed none to slight departure from HCPC for the soil and hydrologic factors, and a slight to moderate departure for the biotic factor. However, several hundred acres show an extreme to total departure for biotic factors due to the increase in wait-a-bit bush. After treatment and recovery of the site, prescribed fire could be used to maintain the site consistent with HCPC.

MLRA 38-2 Volcanic Hills – 1,563 acres:

A Volcanic Hills site for MLRA 38-2 (16-20" precip.) has not been written. This site should be a Volcanic Hills Loamy site. The site was compared to a Volcanic Hills Loamy site in MLRA 41-3 and a SI of 55 was estimated. Once the ecological site is developed for this site, it may be that the similarity index is actually higher than estimated.

The Rangeland Health Evaluation showed a none to slight departure for soil and hydrologic factors, and a moderate departure for the biotic factor. Planned grazing management with scheduled rest may allow this site to improve.

MLRA 38-2 Granitic Upland – 1,193 acres:

This site was described as Granitic Upland (16-20" precipitation) in the 2000 inventory. No ecological site description has been developed. It was estimated to have a similarity index of 33. It still supports some remnant perennial grass species but has been overgrazed in the past, to the detriment of the perennial grasses. This is due to the proximity to water and topography that allows livestock access to the entire area. It occurs on the extreme northern end of the ranch. Portions of the unit invaded by wait-a-bit bush are proposed for chemical treatment.

A Rangeland Health Evaluation showed slight to moderate departure from normal for soil and hydrologic factors and a moderate departure for the biotic factor. Sheet erosion is the primary agent for degradation on this site.

MLRA 38-2 Sandy Wash (QUEM) – 352 acres:

This site occurs on Underwood Wash on the north end of the ranch. This ecological site has a similarity index of 72, which is surprising considering the historic livestock grazing in the area relatively close to permanent water.

The Rangeland Health Evaluation showed none to slight departure from normal in all three criteria. No brush management is planned for this area. Prescribed grazing is the only treatment proposed.

MLRA 41-1 Granitic Hills – 2,405 acres:

The principal location of this ecological site is on Battle Mountain and the surrounding Granitic Hills next to USFS lands. It has a similarity index of 44, primarily due to the increase in brushy species on the site. Lack of fire has allowed shrubs and trees to increase contributing to the lowered SI. Invading Lehman's lovegrass has also contributed to the lowered SI.

The Rangeland Health Evaluation determined the soil and hydrologic factors with a none to slight departure from expected, and the biotic factor was slight to moderate departure due to the increase in brushy species. Prescribed fire, along with planned grazing, would improve this ecological site.

MLRA 41-3 Loamy Upland – 13,568 acres:

This is the largest ecological site on the ranch. It occurs on the south portion in the area known as 76 Flat and is intermingled with Sandy Loam Upland and Sandy Loam Deep sites. It has been grazed heavily for over the last 100 years. The similarity index is 14. Mesquite has invaded the site and perennial grasses and forbs have been drastically reduced. Mechanical brush management is planned for this ecological site. On neighboring ranches, mechanical treatment (grubbing) for mesquite has resulted in dramatic improvement in the site. A total of 7,212 acres of grubbing is planned for the Loamy Upland, Sandy Loam Deep and Sandy Loam Upland ecological sites.

Rangeland Health Evaluations showed a slight to moderate departure from normal for the soil factor, with sheet erosion being present. The hydrologic and biotic factors rated moderate departure from expected.

MLRA 41-3 Limy Slopes – 9,771 acres:

This site is found primarily on the limy breaks on the south and west side of the allotment. It has a Similarity Index varying from about 70 to the mid 80s. This ecological site has apparently never been heavily grazed by livestock in most locations due to steeper slopes and distance from permanent water.

Rangeland Health Evaluation depicts a slight to moderate departure for the soil factor, and moderate departure for the hydrologic and biotic factors.

MLRA 41-3 Loamy Bottom – 2,740 acres:

Loamy Bottom ecological sites occur on the southern portion of the ranch near the Bonita-Klondyke Road and extend up the major washes. It has a similarity index of 77, but areas do show increases in mesquite higher than allowed for the site in HCPC. Some of the bottoms have active gullies present, threatening the site. Structural dikes and erosion control structures are planned for several locations to stop headcutting and gully erosion.

Rangeland Health Evaluation revealed a healthy condition with all three factors in slight to moderate category. Periodic prescribed fire would aid in reducing mesquite invasion and may improve health of the sacaton grass.

MLRA 41-3 Sandy Loam Deep – 2,307 acres:

This ecological site occurs on the south east side of the allotment on 76 Flat. The similarity index is in the 20s. It has been degraded by historic overgrazing, suffered subsequent mesquite invasion, and loss of perennial grass species. This site is a prime candidate for brush management (grubbing) and is planned.

The Rangeland Health Evaluation showed none to slight departure for the soil component, slight to moderate for the hydrologic and moderate for the biotic. Primary soil loss comes from sheet erosion.

MLRA 41-3 Loamy Slopes – 2,180 acres:

The Loamy Slopes ecological sites are found in the southwest portion of the ranch, in a “breaks” area between the large alluvial fans and the Loamy Bottoms. The similarity index is 32. The site condition has been degraded over time by historic livestock grazing and possibly also a lack of fire. Planned grazing management is the only treatment planned for this site. The presence of soils high in gypsum has resulted in areas with accelerated erosion on the “breaks” next to the Klondyke Road. If ground cover is reduced, these soils tend to erode rapidly.

The Rangeland Health Evaluation documented the soil component having a none to slight departure from normal, hydrologic component having a none to slight departure, and the biotic component being slight to moderate departure from normal. Brushy species have increased at the expense of perennial grasses and some areas have been invaded by Lehmann’s lovegrass. With proper grazing management this site could improve appreciably, but the presence of the invading Lehmann’s lovegrass would preclude drastic improvement.

MLRA 41-3 Sandy Loam Upland – 3,436 acres:

This ecological site occurs in the central portion of the ranch on alluvial fans derived from granitic materials. It also occurs on the southern boundary. The similarity index is in the 20s due to historic overgrazing on the gentle topography and easy access to water. Lehmann’s lovegrass has also invaded the site, further lowering the similarity index. Planned grazing management, along with pasture fencing and water development is planned on this site.

Rangeland Health Evaluations showed the soil factor displaying scores from slight to moderate to moderate to extreme, depending on location. Hydrologic and biotic factors exhibit the same variation, depending on location and extent of previous historic grazing.

MLRA 41-3 Clay Loam Upland – 437 acres:

This is a unit of minor extent occurring where the thicker sandy loam texture has been removed by erosion, leaving the finer textured surface. The largest extent is about two miles up Van Valer Wash from the Klondyke Road. The SI is 36. Planned grazing management is recommended for this unit.

The Rangeland Health Evaluation showed a none to slight score for the soil factor, slight to moderate for the hydrologic factor, and a moderate score for the biotic factor.

MLRA 41-3 Sandy Wash – 280 acres:

This minor unit occurs in ephemeral washes, such as President Canyon. The similarity index is 18 and the Rangeland Health Evaluation shows a slight to moderate departure for soil, moderate departure for hydrologic, and a moderate to extreme score for the biotic factor.

Arizona Wildlife Habitat Evaluation Guides for Upland Habitat

An Arizona Wildlife Habitat Evaluation Guide for Upland Habitat (WHEG) worksheet was completed for each location where a similarity index and rangeland health evaluation was prepared. In the scoring system any category with a score of 0.5 or greater meets minimum requirements for upland wildlife habitat.

Table 4. Wildlife Habitat Evaluation (WGS 84 datum used for inventory points)

Transect #	Location	Ecological Site	WHEG Food	WHEG Cover	WHEG Water	WHEG Fragmentation
2A	579256 3614184	Sandy Wash 41-3	1.0	0.7	0.3	0.7
3A	578986 3614013	Limy Slopes 41-3	1.0	0.8	0.4	0.8
T5	580129 3628179	Granitic Hills 38-2	1.0	0.9	0.4	0.9
T6	579485 3629868	Granitic Upland 38-2	1.0	1.0	0.3	0.7
T7	577618 3629511	Sandy Wash (QUEM) 38-2	0.8	1.0	0.9	0.4
T8	576016 3621525	Limy Slopes 38-1	1.0	0.9	0.9	0.7
T9	575590 3620200	Sandy Wash 41-3	1.0	0.8	0.8	0.7
T10	580124 3623046	Loamy Upland 38-1	1.0	0.8	0.7	0.8
T13	575824 3624351	Limy Slopes 38-1	1.0	1.0	0.3	0.9
T14	574831 3622858	Limy Slopes 38-1	1.0	1.0	0.3	0.9
T15	574072 3622297	Sandy Loam Deep 41-3	1.0	1.0	0.3	0.9
DF2	580762 3619934	Loamy Slopes 41-3	1.0	1.0	0.4	1.0
DF9	583317 3620106	Volcanic Hills Clayey 38-1	1.0	1.0	0.7	0.7
DF10	581495 3618927	Clayey Slopes 38-1	1.0	1.0	0.4	0.8

Transect #	Location	Ecological Site	WHEG Food	WHEG Cover	WHEG Water	WHEG Fragmentation
LS1	577574 3622265	Limy Slopes 38-1	1.0	0.8	0.3	0.8
76-1	585212 3619158	Sandy Loam Upland 41-3	0.8	0.9	0.4	0.7
76-2	583503 3614700	Loamy Slopes 41-3	0.8	0.9	0.5	0.8
76-3	585101 3613604	Clay Loam Upland 41-3	0.9	0.8	0.5	1.0
76-4	587675 3616461	Loamy Upland 41-3	0.8	0.8	0.4	0.9
76-5	587675 3616461	Loamy Upland 41-3	0.7	0.8	0.3	0.7
76-6	589190 3613728	Sandy Loam Deep 41-3	0.9	0.8	0.6	0.7
76-7	584788 3611064	Loamy Bottom 41-3	0.8	0.8	0.5	0.7
76-8	587747 3612313	Loamy Upland 41-3	0.8	0.7	0.5	0.7
76-9	590987 3614905	Granitic Hills 41-1	0.9	0.8	0.5	0.6
WT-1	588493 3606453	Loamy Swale 41-3	0.4	0.2	0.3	0.6
WT-2	589272 3607904	Sandy Loam Upland 41-3	0.4	0.2	0.6	0.6
WT-3	590161 3607070	Sandy Loam Deep 41-3	0.3	0.1	0.6	0.4
WT-4	529209 3610886	Loamy Swale 41-3	0.4	0.3	0.6	0.2
WT-5	589255 3607167	Sandy Loam Upland 41-3	0.4	0.2	0.6	0.4
WT-7	585268 3608312	Limy Slopes 41-3	1.3	0.8	0.5	0.8
WT-8	585139 3608339	Loamy Swale 41-3	0.1	0.5	0.5	0.6
WT-9	585813 3608219	Sandy Loam Upland 41-3	0.3	0.1	0.4	0.7

In general, upland habitat for wildlife is in functioning condition. However, the WHEG's identified the lack of reliable yearlong water available for wildlife and a lack of wildlife escape ramps as problems to be addressed. Roads and power lines are responsible for "Fragmentation" category scores below 0.5. Proposed pipelines providing permanent water for livestock and wildlife would alleviate this problem. Fragmentation scores would not improve. Brush treatments, both chemical and mechanical may improve habitat for antelope and quail. Another wildlife concern is the woven wire fences around Mistero Pasture, which can impede wildlife movement. The operator doesn't want to change this fence because Mistero Pasture is used to wean calves in and the woven wire holds weaner calves much better than barbed wire.

Range Trend Analysis

There are no established trend studies on the Arizona State Trust lands or private lands on the ranch. However the USFS has monitored the Two Troughs, Cedar Springs, and 76 Allotments with established key areas since at least 1986.

Two Troughs and Cedar Springs Allotments have one key area each, and 76 Allotment has three key areas. These allotments were monitored three times between 2006 and 2013. They all show similar data in terms of frequencies of perennial grass species. The data show that perennial grass species have increased from 2006 to 2010, but some drastically reduced in 2013. Analysis of precipitation data from the same time periods show persistent drought as the primary cause. During 2010, there occurred above average winter (October–March) precipitation, while the summers (April–September) of 2009–2011, were below average in precipitation. Only the summer of 2006 was extremely wet (approximately 2 ½ inches above normal), and summers of 2007, 2008, and 2012, were near normal. This persistence of drought, during both summer and winter, has had a drastic detrimental effect on perennial grasses.

The establishment of key areas and the monitoring of trend is a part of the planned grazing management. Key areas would be established after all planned fences and waters are installed.

Resource Concerns

The major resource concern on the ranch is lack of dependable, permanent water for livestock and wildlife. This is the overriding concern and restricts the options available for improving the vegetation resource and achieving proper livestock management. Because of the lack of dependable waters, livestock have been concentrated resulting in overused and underused areas. Areas overused for long periods of time have experienced an increase in undesirable shrubs and the exotic Lehmann's lovegrass.

Sheet erosion has increased where perennial grasses have been removed and gully erosion has increased on some of the bottoms where livestock have concentrated and reduced herbaceous cover. Isolated gully erosion is also occurring where roads have not been maintained.

As shown in the climate section above, long-term persistent drought since 1998 has exacerbated the major existing resource concerns. Springs that were considered dependable have gone dry. The operator is currently grazing only about 60% of the livestock the ranch could be permitted for. Dry winters have reduced the amount of spring forage and dry summers have reduced production on warm season grasses. The operator has wisely reduced his herd and may rebuild livestock numbers as water and forage production concerns are solved.

Goals

- Establish an adequate, dependable water supply for both livestock and wildlife to allow the development of a livestock grazing system and improvement of the forage resource.
- Increase forage available for livestock harvest.
- Improve and maintain wildlife habitat.

- Preserve and protect cultural resources.
- Stabilize the watershed.

Objectives

- Increase the number and reliability of livestock waters.
- Continue to develop and improve upon a rotational grazing system with the addition of new waters to disperse livestock.
- Install new fences to reduce the size of pastures, providing for better livestock distribution.
- Use structural improvements to control gully erosion.
- Improve vegetation conditions for both livestock and wildlife.
- Continue to improve efficiency of ranch operation to develop a profitable livestock operation.

Alternatives

Three alternatives have been considered for this Coordinated Resource Management Plan.

- **No Action**
This alternative would not provide for needed water improvements. Coordinated Resource Management Planning would not continue. Lack of permanent water would impact livestock and wildlife if resource concerns are not addressed.
- **Alternative 1*: Partial Implementation of the Rangeland Resource Management System Alternative**
Adoption of this alternative would address all livestock management concerns, resource concerns, and all wildlife concerns except for alteration of existing fences to allow better wildlife movement.
- **Alternative 2: Full Implementation of the Rangeland Resource Management System Alternative**
Under this alternative all the proposed improvements would be done, including modifying existing fences for passage of pronghorn and other wildlife. The rangeland resource and upland wildlife habitat would improve.

**Bonita Cattle, LLC has selected the partial implementation of the Rangeland Resource Management system alternative.*

Plan/Schedule of Improvements

The general priority for construction of improvements is: (1) wells, (2) pipelines, (3) fences, and (4) brush management. Proposed improvements include 47.3 miles of pipeline, 29.7 miles of fence and 6 wells. The Plan also includes 11,176 acres of brush management. Practices are enumerated below by pasture.

Planned Practices:

Pasture	Project Descriptions	Ownership
Pasture 20 (Cedar Springs Allotment)	Iron Tank:	USFS
	8,050 ft. of pipeline	
	2 Troughs, 1,000 gallons each	
	2 storage tanks, 20,000 gallons each	

Pasture	Project Descriptions	Ownership
	1,548 acres of Brush Management (MIACB)	
	Lindsay Well Pipeline:	
	2,600 ft. of pipeline	
	2 Troughs, ??? Gallons each	
	1 Storage tank, 10,000 gallons	
Pasture 19 (Two Troughs Allotment)	Holdout Canyon:	USFS
	10,500 ft. of pipeline	
	7 Troughs, 500 gallons each	
	2 Storage Tanks, ~20,000 gallons	
	Solar Powered Pump	
	825 acres of Brush Management (MIACB)	
Pasture 18 (Underwood Wash)	Underwood Canyon Well:	ASLD
	Solar Powered Pump	
	8,000 ft. of pipeline	
	1 Storage Tank, ~20,000 gallons	
	2 Troughs, 1,000 gallons each	
	Well, 800 ft.	
	1,091 acres of Brush Management (Mibi)	
	Cedar Springs Camp Well Extension:	ASLD
	1,500 ft. of pipeline	
	1 Trough, 1,000 gallons	
	Pasture Division Fence 10,500 ft.	ASLD
Pasture 14 (Sheep Wash)	Sheep Wash Pipeline Extension:	ASLD
	8,500 ft. of pipeline	
	2 Troughs, 500 gallons each	
	Kennedy Falls Well:	ASLD
	Well, 800 ft.	
	Solar Powered Pump	
	13,100 ft. of pipeline	
	1 Storage Tank, 20,000 gallons	
	4 Troughs, 1,000 gallons each	
	Mineral Exploration Well(s):	ASLD
	Associated Practices TBD	
	Pasture Division Fence (North/South), 18,500 ft.	ASLD
	Pasture Division Fence (West/East), 11,500 ft.	ASLD
Pasture 11 (Lindsey Canyon)	Mesa Windmill Extension:	ASLD
	2 Storage Tanks, ~10,000 gallons each	
	South Spur:	

Pasture	Project Descriptions	Ownership
	3,800 ft. of pipeline	
	1 Trough, 1,000 gallons	
	East Spur:	
	2,000 ft. of pipeline	
	2 Troughs, 1,000 gallons each	
	North Spur:	
	8,000 ft. of pipeline	
	2 Troughs, 1,000 gallons each	
	Lindsey Canyon Well: (Location TBD)	Private/ASLD
	Well, 800 ft.	
	10,000 ft. of pipeline	
	1 Storage Tank, ~10,000 gallons	
	1 Trough, 1,000 gallons	
	2E Canyon Mineral Exploration Well:	ASLD
	Associated Practices TBD	
	500 acres of Brush Management (Opuntia Spp.)	ASLD
	Pasture Division Fence, 14,500 ft.	ASLD
Pasture 28 (KH Canyon)	Section 36 Well (near Old Corral):	ASLD
	Well, 600 ft.	
	Solar Powered Pump	
	1 Storage Tank, ~10,000 gallons	
	West Spur:	
	1,000 ft. of pipeline	
	1 Trough, 1,000 gallons	
	South Spur:	
	1,600 ft. of pipeline	
	1 Trough, 1,000 gallons	
	East Spur:	
	6,500 ft. of pipeline	
	1 Storage Tank, ~10,000 gallons	
	2 Troughs, 1,000 gallons each	
	Pasture Division Fence, 14,500 ft.	ASLD
Pasture 9 (Oak Tank)	KH Butte Pipeline Extension:	Private, ASLD
	1 Storage Tank, 10,000 gallons (at KH Well)	
	1 Trough, 1,000 gallon	
	1,000 ft. of pipeline	
	Compadres Extension:	ASLD
	5,500 ft. of pipeline	
	Solar Powered Pump	
	Well, 800 ft.	
	1 Storage Tank, ~10,000 gallons	
	2 Troughs, 1,000 gallons each	

Pasture	Project Descriptions	Ownership
	Cuates, South Extension:	
	9,300 ft. of pipeline	
	2 Troughs, 1,000 gallons each	
	Cuates Trap Pipeline:	
	5,800 ft. of pipeline	
	1 Storage Tank, ~20,000 gallons	
	3 Troughs, 1,000 gallons each	
	Cuates/Solito Pipeline:	
	17,000 ft. of pipeline	
	3 Storage Tanks, ~10,000 gallons each	
	3 Troughs, 1,000 gallons each	
	Oak Tank to Van Valer Pipeline:	
	6,500 ft. of pipeline	
	Solar Powered Pump	
	1 Storage Tank, ~10,000 gallons	
	1 Trough, 1,000 gallon	
	1,500 ft. of fence (Water Lot)	
	Oak Tank to Solito Pipeline:	
	6,400 ft. of pipeline	
	2 Troughs, 1,000 gallons each	
	East Pipeline:	
	Stage 2 (Battle Mtn. Storage to Winegar Well/Storage)	
	8,000 ft. of pipeline	
	Solito Spur:	
	1,500 ft. of pipeline	
	1 Trough, 1,000 gallons	
	KH Butte Division Fence, 11,500 ft.	ASLD
	Quates Trap Division Fence, 12,500 ft.	ASLD
	Compadres Division Fence, 10,000 ft.	ASLD
	Cuates Division Fence, 12,500 ft.	ASLD
	Oak Tank/Solito Division Fence, 13,500 ft.	ASLD
Pasture 2 (Headquarters)	East Pipeline:	Private
	1 Storage Tank, 20,000 gallons	
	USFS Extension:	Private/ASLD/USFS
	9500 ft. of pipeline	
	1 Trough, 1,000 gallons	
	1 Storage Tank, ~10,000 gallons	
	South Taylor Pipeline:	Private/USFS
	4,900 ft. of pipeline	
Pasture 24 (Ranch Pasture)	East Pipeline:	Private/ASLD
	Stage 1 (Hq's to Planned Storage west of Saddle in Battle Mtn. Pasture):	

Pasture	Project Descriptions	Ownership
	9,600 ft. of pipeline	
	1 Storage Tank (OPEN RIM for USFS), ~10,000 gallons	
	3 Troughs, 1,000 gallons each	
	Babcock Spur:	
	5,000 ft. of pipeline	
	1 Trough, 1,000 gallon	
	Homack Well Pipeline:	
	3,200 ft. of pipeline	
	Solar Powered Pump	
	5,500 ft. of pipeline	
	1 Storage Tank, ~10,000 gallons	
	2 Troughs, 1,000 gallons each	
Pasture 25 (Battle Mountain Pasture)	East Pipeline:	ASLD
	1 Storage Tank, ~20,000 gallons	
	1 Trough, 1,000 gallons	
	Battle Mountain Spur:	
	7,000 ft. of pipeline	
	1 Storage Tank, ~10,000 gallons	
	1 Trough, 1,000 gallons	
Pasture 5 (76 Flat)	Section 24 Well, in the Planned "Centro Pasture":	Private
	Well, 800 ft.	
	Solar Powered Pump	
	East Pipeline:	ASLD
	Stage 3:	
	10,000 ft. of pipeline	
	1 Storage Tank, ~20,000 gallons	
	Durkee (Terminates North of Durkee USGS Marker):	Private
	5,500 ft. of pipeline	
	1 Storage Tank, ~10,000 gallons	
	2 Troughs, 1,000 gallons each	
	Weaning Spur:	ASLD
	5,500 ft. of pipeline	
	1 Storage Tank, ~10,000 gallons	
	2 Troughs, 1,000 gallons each	
	Stage 4	
	8,800 ft. of pipeline	
	1 Storage Tank, ~10,000 gallons	
	2 Troughs, 1,000 gallons each	
	Section 1 Spur:	
	4,300 ft. of pipeline	
	1 Storage Tank, ~10,000 gallons	

Pasture	Project Descriptions	Ownership
	1 Trough, 1,000 gallons	
	Section 23 Spur:	Private/ASLD
	3,900 ft. of pipeline	
	1 Storage Tank, ~10,000 gallons	
	1 Trough, 1,000 gallons	
	Solito Spur:	ASLD
	3,300 ft. of pipeline	
	1 Storage Tank, ~10,000 gallons	
	1 Trough, 1,000 gallons	
	Southwest Spur:	
	9,700 ft. of pipeline	
	1 Storage Tank, ~10,000 gallons	
	1 Trough, 1,000 gallons	
	Canyon Spur:	
	1,500 ft. of pipeline	
	1 Trough, 1,000 gallons	
	Southwest Corner Spur:	
	5,100 ft. of pipeline	
	1 Storage Tank, ~10,000 gallons	
	1 Trough, 1,000 gallons	
	Canyon Spur:	
	1,500 ft. of pipeline	
	1 Trough, 1,000 gallons	
	Centro Pasture Division Fence, 16,800 ft.	ASLD
	Canyon Pasture Division Fence, 9,000 ft.	ASLD
Pasture 3 (Mistero Pasture)	Mistero Well:	Private
	Solar Powered Pumping Plant	
	3,600 ft. of pipeline (to Shipping Corrals)	
Pasture 26 (BoyA Pasture)	Homack Well Pipeline:	Private/ASLD
	3,600 ft. of pipeline	
	1 Storage Tank, ~10,000 gallons	
	1 Trough, 1,000 gallons	
BoyA, Mistero, and Ranch Pasture	Brush Management (Prosopis Spp.):	Private/ASLD
	2,606 Acres	
Centro, 76 Flat, and Mistero Pastures	76 Flat Brush Management (Prosopis Spp.):	Private/ASLD
	4,606 Acres	

Prescribed Grazing Plan

Authorized Use*

Current authorized use on the ranch is for a total of 1,355.7 Animal Units Yearlong (AU/YL), or 16,268.6 Animal Unit Months (AUMs) broken down as follows:

Ownership	AUMs	AUs/YLs
Private Controlled	1,860	155
Private Uncontrolled		
BLM		
Forest Service	2,675	535
State Trust	11,733.6	977.8
Tribal		

Although the Ranch is authorized 1,355.7 AUs, it is only stocked at this time with approximately 800 animal units. As waters are developed and pasture fences built, livestock numbers could be increased to approximately 1,100 mother cows plus bulls. The owner could fluctuate numbers according to rangeland conditions.

Grazing Management

The proposed grazing system is shown below. Mainly, three herds would be placed on the USFS grazing allotments (Two Troughs, Cedar Springs, and 76) for 5 months in the winter and spend the remaining 7 months on State and private lands. The 76 heard would need to be split into two herds on State and private lands. A fifth heard would rotate solely on private and State Lands. Birdcage Pasture would be used as a heifer pasture. Misterio Pasture would be used for weaning calves, mainly because of its central location and the woven wire fence surrounding the area. Canyon Pasture would be used as a bull pasture when bulls are not in pastures with the cows. The various traps are not included in the grazing schedule, but would be used as "hospital" pastures for livestock and for gathering.

The proposed grazing system for each herd shows livestock moves from pasture to pasture, based on month of the year. This schedule is simply a guide and moves would vary depending upon an analysis of many types of information including: duration of grazing, intensity, timing, season of use, weather patterns, amount of precipitation, previous year's actual utilization, and long-term trend.

USFS is currently evaluating a proposal to extend the grazing season by one month on the three allotments.

Proposed Grazing System

Grazing System for the Two Troughs Herd- Herd #1-100 Head

PASTURE/YEAR												
2014	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
Underwood East	X	X	X									
Underwood West	X	X	X									
Kennedy				X	X	X	X					
Upper Sheep Wash				X	X	X	X					

PASTURE/YEAR													
Two Troughs									X	X	X	X	X
2015	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
Underwood East					X	X	X						
Underwood West					X	X	X						
Kennedy	X	X	X	X									
Upper Sheep Wash	X	X	X	X									
Two Troughs									X	X	X	X	X
2016	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
Underwood East	X	X	X										
Underwood West	X	X	X										
Kennedy				X	X	X	X						
Upper Sheep Wash				X	X	X	X						
Two Troughs									X	X	X	X	X

Grazing System for Herd 2-265 Head

PASTURE/YEAR													
2014	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
Lower Sheep	X	X	X										
Lindsay West				X	X	X							
Lindsay East							X	X	X				
Chivero										X	X	X	
2015	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
Lower Sheep										X	X	X	
Lindsay West							X	X	X				
Lindsay East	X	X	X										
Chivero				X	X	X							
2016	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
Lower Sheep										X	X	X	
Lindsay West	X	X	X										
Lindsay East				X	X	X							
Chivero							X	X	X				
2017	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
Lower Sheep				X	X	X							
Lindsay West							X	X	X				
Lindsay East										X	X	X	
Chivero	X	X	X										

Grazing System for the Cedar Springs Herd -150 Head

PASTURE/YEAR													
2014	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
2E	X	X	X										
Compadre				X	X								
Conejo						X	X						

PASTURE/YEAR													
Cedar Springs									X	X	X	X	X
2015	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
2E			X	X	X								
Compadre						X	X						
Conejo	X	X											
Cedar Springs									X	X	X	X	X
2016	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
2E						X	X						
Compadre	X	X	X										
Conejo				X	X								
Cedar Springs									X	X	X	X	X
2017	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
2E	X	X											
Compadre			X	X	X								
Conejo						X	X						
Cedar Springs									X	X	X	X	X

Grazing System for 1st Part of the Seventy Six Herd-180 Head

PASTURE/YEAR													
2014	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
Oak Tank	X	X	X										
Cuates				X	X								
Solito				X	X								
Centro						X	X						
Seventy Six								X	X	X	X	X	
2015	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
Oak Tank					X	X	X						
Cuates	X	X											
Solito	X	X											
Centro			X	X									
Seventy Six								X	X	X	X	X	
2016	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
Oak Tank			X	X	X								
Cuates						X	X						
Solito						X	X						
Centro	X	X											
Seventy Six								X	X	X	X	X	
2017	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
Oak Tank	X	X	X										
Cuates						X	X						
Solito						X	X						

PASTURE/YEAR												
Centro				X	X							
Seventy Six								X	X	X	X	X

Grazing System for 2nd part of the Seventy Six Herd-105 Head

PASTURE/YEAR												
2014	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
Ranch	X	X										
Box A			X	X								
76 Flat					X	X	X					
Battle Mtn.												
Seventy Six								X	X	X	X	X
2015	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
Ranch				X	X							
Box A						X	X					
76 Flat												
Battle Mtn.	X	X	X									
Seventy Six								X	X	X	X	X
2016	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
Ranch												
Box A				X	X							
76 Flat	X	X	X									
Battle Mtn.						X	X					
Seventy Six								X	X	X	X	X
2017	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
Ranch	X	X										
Box A												
76 Flat			X	X	X							
Battle Mtn.						X	X					
Seventy Six								X	X	X	X	X

Flexibility

Flexibility is the key in making this system work. The operator would have to continue to monitor grazing closely and time moves to take advantage of precipitation on one portion of the ranch when other parts remain dry. It would be necessary to adjust numbers in each of the herds once waters and fences are installed and livestock develop use patterns in each pasture. In fact, numbers would probably have to be adjusted annually depending on rainfall patterns. It is expected that herd numbers may fluctuate over the years depending on climatic conditions. Conceivably, herd size may fluctuate from about 800 to over 1,200 once the brush management treatments recover and produce more forage.

Monitoring

The participants in this Coordinated Resource Management Plan agree to participate in monitoring on the ranch. Plan participants will develop and agree to a monitoring schedule that is suitable to all participants.

The current monitoring locations on USFS lands should be continued to provide continuity of the studies for further evaluations.

New monitoring sites would be established so that key areas are established in each of the five herd areas on dominant and/or important ecological sites. These key areas would be determined after new waters and pasture fences are installed, and livestock have become adjusted to the new improvements, should proposed actions take place.

Permittee Shall:

1. Participate with ASLD, USFS, BLM, and NRCS in developing a Coordinated Resource Management Plan (CRMP) where conservation practices are to be installed on the ranch.
2. Participate with ASLD, USFS, BLM, and NRCS in possible annual reviews of the CRMP by:
 - a. Submitting annual livestock numbers/use documentation to ASLD, USFS, and/or NRCS.
 - b. Update the plan participants of planned livestock movement.
 - c. Update plan participants of changes in pasture fences, changes in watering sources, management improvements, etc. for plan documentation.
 - d. Notify plan participants of issues concerning vegetation quality in pastures and/or issues with trespass (non-lessee owned) livestock on the ranch.
3. Notify ASLD and/or USFS of any desired planned improvements on agency owned lands to establish needs and allow time for the proper requirements to be met. If financial assistance is sought from NRCS, producer must:
 - a. Submit an application for program assistance to NRCS; discuss justification, placement and time frame of planned improvements desired.
 - b. Notify ASLD and/or USFS of intentions to place improvements and establish possible time frames with agencies.
 - c. File all appropriate paperwork with the Farm Service Agency (FSA) to assure compliance and program qualification. Annually confirm with FSA to assure paperwork is up to date and complete.
 - d. Submit an Application to Place Improvement for State Trust land where applicable.
 - e. Notify USFS of the need to place an improvement on USFS *before* NRCS financial assistance is sought to ensure completion of appropriate documentation and assist in funding of planned practices.
 - f. Participate in appropriate flagging of practices, surveys, clearances, engineering, and design of planned practices with ASLD, USFS, and NRCS.
 - g. Install practices compliant to USFS and/or NRCS standards and specifications in a timely manner. Assist in field visits to modify plans, certify practices, and submit all necessary documentation relevant to installed practices to the appropriate agency.
 - h. Submit copies of approved permits and/or documentation to NRCS to assure legal requirements are fulfilled.
 - i. Monitor program compliance and timelines. Notify ASLD, USFS, and/or NRCS if practice will not be installed within the original timeline planned for practices.

- j. Submit a Report of Improvement to the necessary agency, ensuring the installed practice will be recorded as installed.
- k. Maintain practices for efficient use and repair damages from vandalism if applicable.
- 4. Participate with ASLD, USFS, and/or NRCS in conducting status reviews and monitoring of installed practices.
- 5. Participate with the plan participants in conducting annual monitoring of key areas established on the ranch.

ASLD Shall:

- 1. Participate with the lessee, USFS, and NRCS in developing a CRMP where conservation practices are to be installed on State land.
- 2. Participate with the lessee, USFS, and NRCS in possible annual reviews of the CRMP.
- 3. Provide NRCS with written concurrence that the lessee is in compliance with ASLD lease policies/regulations and authorization to apply selected conservation practices on State land if financial assistance is sought by the lessee. Authorization will assure NRCS that all legal requirements have been met prior to contract formulation, implementation and practice certification.
- 4. Accept and review Applications to Place Improvement upon State land submitted by the lessee.
- 5. Complete necessary clearances for cultural resources, protected native plants and sensitive wildlife species for all projects to be conducted on State land. Notify the lessee in writing that practices applied for may be installed and produce a timetable for completion.
- 6. Participate with NRCS and the lessee if possible in conducting status reviews and monitoring of planned and installed practices.
- 7. Participate with the plan participants and the lessee in conducting annual monitoring of key areas established on the ranch.

NRCS Shall:

- 1. Participate with the producer, ASLD, and USFS in developing a CRMP where conservation practices are to be installed on the ranch.
- 2. Participate with the producer, ASLD, and USFS in possible annual reviews of the CRMP.
- 3. Accept applications for participation in NRCS cost share programs. Where installation of conservation practices on State land, USFS, or private lands is indicated, NRCS will coordinate with ASLD and USFS to:
 - a. Insure that the participant has a valid lease and all NEPA requirements are fulfilled *before* contract formulation.
 - b. Ensure compliance with NRCS program requirements and policies.
 - c. Develop or review submitted plans required in development of an NRCS Program contract, with the producer as mutually agreed upon with ASLD and/or USFS.
 - d. NRCS will confirm in writing acceptance of USFS NEPA documentation for any financial assistance on USFS lands.
 - e. Ensure environmental planning requirements for installation of conservation practices on State Trust land, USFS, and private lands can be completed within appropriate timeframes established under contract.
 - f. Develop and administer contracts, accept practice certification, and make recipient payments in a timely manner.
- 4. Participate with the producer, ASLD, and/or USFS in conducting status reviews, and monitor installed practices.

5. Participate with the plan participants and the producer in conducting annual monitoring of key areas established on the ranch.
6. Complete and/or review engineering designs for planned practices associated with NRCS financial programs.

USFS Shall:

1. Participate with the producer, ASLD, and NRCS in developing a CRMP where conservation practices are to be installed on USFS Lands.
2. Participate with the producer, ASLD, and NRCS in possible annual reviews of the CRMP.
3. Oversee and ensure completion of environmental planning process for projects to be conducted on USFS lands by:
 - a. Providing biological assessments and/or evaluations, archeological surveys, and any other clearances required under applicable laws and regulations.
 - b. Coordinate with the producer and/or NRCS on progress of environmental planning.
 - c. Prepare and approve decision documents and Term Grazing Permit modifications as applicable.
 - d. Prepare documents and maps necessary for applicable clearances.
 - e. Notify the participants in writing that they may install planned practices.
 - f. Coordinate with the producer and NRCS to determine the format of structural practices design/specification documents where applicable.
 - g. Coordinate with the producer and/or NRCS to design conservation practices that meet USFS standards and NRCS Field Office Technical Guide (FOTG) Section IV standards and specifications.
 - h. Review structural practice designs with the producer.
 - i. Provide NRCS written authorization to apply selected conservation practices on USFS lands. Authorization will assure NRCS that all legal requirements, including NEPA and cultural resource clearances have been met prior to contract development.
 - j. Certify planned practices are installed correctly and that practices meet NRCS standards and specifications for contract item payment if applicable.
4. Participate with the producer, ASLD, and/or NRCS in conducting status reviews and monitoring of installed practices.
5. Participate with the producer and the plan participants in conducting annual monitoring of key areas established on the ranch.

Appendix A. Approved Existing Range Improvements



mp_release
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ARIZONA STATE LAND DEPARTMENT IMPROVEMENT / LAND TREATMENT (BY RIE LEASE)

FROM: 005-111835- THRU: 005-111839-

RELEASE#	IMPROVEMENT	RP#	OWNERSHIP	COMMENT / LAND#	STATUS DATE	CODE
005-111835-00	0185 CORRAL	32150	9999 OWNERSHIP NOT ASSIGNED	08-0-8-21-0-E-38-05-030-1002	04-Apr-1995	Pending
005-111835-00	0185 CORRAL	32174	9999 OWNERSHIP NOT ASSIGNED	09-0-9-22-0-E-08-05-031-1002	04-Apr-1995	Complete
005-111835-00	0243 DRINKER	32128	10 LESSEE	08-0-9-21-0-E-13-05-031-1002 08-0-9-21-0-E-14-05-031-1002 08-0-9-21-0-E-14-05-033-1002 08-0-9-21-0-E-23-05-031-1002	00-Jun-2005 00-Jun-2005 09-Jun-2005 00-Jun-2005	Complete Complete Complete Complete
005-111835-00	0245 DRINKER	32490	9999 OWNERSHIP NOT ASSIGNED	NEGLE-0MM4 08-0-9-21-0-E-13-05-031-1002	07-Dec-2008	Pending
005-111835-00	0245 DRINKER	32491	9999 OWNERSHIP NOT ASSIGNED	SWANW4SE4 08-0-9-21-0-E-19-05-030-1002	07-Dec-2008	Pending
005-111835-00	0248 DRINKER	32493	9999 OWNERSHIP NOT ASSIGNED	KNASW4NW4 08-0-9-21-0-E-24-05-031-1002	07-Dec-2008	Pending
005-111835-00	0285 FENCE - ELEC	32137	9999 OWNERSHIP NOT ASSIGNED	08-0-9-21-0-E-13-05-031-1002 08-0-9-21-0-E-14-05-031-1002 08-0-9-21-0-E-23-05-031-1002 08-0-9-21-0-E-27-05-031-1002	01-Mar-1991 01-Mar-1991 01-Mar-1991 01-Mar-1991	Pending Pending Pending Pending
005-111835-00	0290 FENCE - WIRE	32102	10 LESSEE	N SIDE 07-0-8-21-0-E-25-05-033-1002	20-Sep-1952	Complete
005-111835-00	0290 FENCE - WIRE	32105	10 LESSEE	SW/S2 07-0-8-21-0-E-38-05-030-1002	20-Sep-1952	Complete
005-111835-00	0290 FENCE - WIRE	32108	10 LESSEE	NWA THRU TO SE4 07-0-8-22-0-E-29-05-033-1002	20-Sep-1952	Complete
005-111835-00	0290 FENCE - WIRE	32107	10 LESSEE	N SIDE 07-0-8-22-0-E-30-05-031-1002	03-Apr-1995	Complete
005-111835-00	0290 FENCE - WIRE	32108	10 LESSEE	E SIDE 07-0-8-22-0-E-31-05-033-1002	20-Sep-1952	Complete
005-111835-00	0290 FENCE - WIRE	32112	10 LESSEE	N/2 SW THRU S2 08-0-9-21-0-E-01-05-033-1002	20-Sep-1952	Complete

The Arizona State Land Department makes NO WARRANTIES, implied or expressed, with respect to information shown on this report.

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**ARIZONA STATE LAND DEPARTMENT
IMPROVEMENT / LAND TREATMENT (BY KB LEASE)**

FROM: 005-111635- THRU: 005-111635-

RELEASE#	IMPROVEMENT	INV#	OWNERSHIP	COMMENT / LAND#	STATUS DATE	CODE
005-111635-00	0200 FENCE - WIRE	32113	10 LESSEE	W2 08-D-8-21.0-E-01-05-031-1000	20-Sep-1952	Complete
005-111635-00	0200 FENCE - WIRE	32115	10 LESSEE	08-D-8-21.0-E-02-05-030-1000	20-Sep-1952	Complete
005-111635-00	0200 FENCE - WIRE	32116	10 LESSEE	W SIDE OF NENE W2E2 08-D-8-21.0-E-03-05-031-1000	20-Sep-1952	Complete
005-111635-00	0200 FENCE - WIRE	32120	10 LESSEE	THRU CENTER 08-D-8-21.0-E-12-05-031-1000	20-Sep-1952	Complete
005-111635-00	0200 FENCE - WIRE	32121	10 LESSEE	W SIDE 08-D-8-21.0-E-13-05-031-1000	20-Sep-1952	Complete
005-111635-00	0200 FENCE - WIRE	32122	10 LESSEE	DIAG THRU NENE IN W2E2 08-D-8-21.0-E-11-05-031-1000	20-Sep-1952	Complete
005-111635-00	0200 FENCE - WIRE	32123	10 LESSEE	SWNW & SW, SE2W & NESE 08-D-8-21.0-E-19-05-053-1000	20-Sep-1952	Complete
005-111635-00	0200 FENCE - WIRE	32125	10 LESSEE	LOT 1-4 S2W2 SE & SW LY E OF BOWHOLLOW RD 08-D-8-21.0-E-02-05-030-1000	20-Jun-2003	Complete
005-111635-00	0200 FENCE - WIRE	32142	10 LESSEE	NE CORNER TO SW CORNER 08-D-8-21.0-E-16-05-030-1000	20-Sep-1952	Complete
005-111635-00	0200 FENCE - WIRE	32159	10 LESSEE	NWSE 08-D-8-22.0-E-19-05-031-1000	20-Sep-1952	Complete
005-111635-00	0200 FENCE - WIRE	32160	10 LESSEE	E SIDE NEWS THRU NW & NE 08-D-8-22.0-E-05-05-031-1000	20-Sep-1952	Complete
005-111635-00	0200 FENCE - WIRE	32181	10 LESSEE	NESW THRU SWW & NE4 08-D-8-22.0-E-07-05-031-1000	03-Apr-1993	Complete
005-111635-00	0200 FENCE - WIRE	32182	10 LESSEE	E SIDE 08-D-8-22.0-E-05-05-031-1000	20-Sep-1952	Complete
005-111635-00	0200 FENCE - WIRE	32183	10 LESSEE	E SIDE OF S2NW 08-D-8-22.0-E-29-05-053-1000	20-Sep-1952	Complete
005-111635-00	0200 FENCE - WIRE	32185	10 LESSEE	N SIDE 08-D-8-22.0-E-30-05-053-1000	20-Sep-1952	Complete

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FROM: 005-111835- THRU: 005-111835-

RELEASE#	IMPROVEMENT	DN#	OWNERSHIP	COMMENT / LAND#	STATUS DATE	CODE
005-111835-00	0200 FENCE - WIRE	32167	10 LESSEE	DIAO THRU MARK IN W/2NE NW N/2SW 00 0-0-22 0-E-21 05-053-1002	20-Sep-1952	Complete
005-111835-00	0200 FENCE - WIRE	32168	10 LESSEE	ALONG W SIDE IN E2 00 0-0-22 0-E-19 05-053-1002	20-Sep-1952	Complete
005-111835-00	0200 FENCE - WIRE	32169	10 LESSEE	N/2SW THRU N/2SE & S/2NE IN E2 00 0-0-22 0-E-19 05-053-1002	20-Sep-1952	Complete
005-111835-00	0200 FENCE - WIRE	32170	10 LESSEE	S/2SE 00 0-0-22 0-E-20 05-012-1002	20-Sep-1952	Complete
005-111835-00	0200 FENCE - WIRE	32171	10 LESSEE	S/2SW 00 0-0-22 0-E-21 05-053-1002	20-Sep-1952	Complete
005-111835-00	0200 FENCE - WIRE	32172	10 LESSEE	N/2NW 00 0-0-22 0-E-25 05-053-1002	20-Sep-1952	Complete
005-111835-00	0200 FENCE - WIRE	32173	10 LESSEE	N/2E 00 0-0-22 0-E-20 05-012-1002	20-Sep-1952	Complete
005-111835-00	0200 FENCE - WIRE	32202	10 LESSEE	00 0-0-21 0-E-13 05-031-1002 00 0-0-21 0-E-14 05-031-1002 00 0-0-21 0-E-14 05-053-1002 00 0-0-21 0-E-22 05-031-1002 00 0-0-21 0-E-25 05-031-1002 00 0-0-21 0-E-27 05-031-1002 00 0-0-21 0-E-35 05-031-1002 00 0-0-21 0-E-36 05-030-1002 00 0-0-21 0-E-02 05-030-1002	03-Apr-2005 03-Apr-2006 03-Apr-2006 03-Apr-2003 03-Apr-2006 03-Apr-2006 03-Apr-2006 03-Apr-2006 03-Apr-2006 03-Apr-2006	Complete Complete Complete Complete Complete Complete Complete Complete Complete
005-111835-00	0200 FENCE - WIRE	32304	10 LESSEE	N/2SW THRU S/2W N/2 00 0-0-22 0-E-17 05-053-1002	20-Sep-1952	Complete
005-111835-00	0200 FENCE - WIRE	32305	10 LESSEE	E & N SIDES OF E2SE 00 0-0-22 0-E-20 05-053-1002	03-Apr-1920	Complete
005-111835-00	0200 FENCE - WIRE	32308	10 LESSEE	S/4 00 0-0-21 0-E-02 03-030-1002	20-Sep-1952	Complete
005-111835-00	0400 PIPELINE	32114	40 NON-REIMBURSABLE/NO PTLOR APPR	SE CORNER TO NW CORNER NE4 00 0-0-21 0-E-01 03-031-1002	11-Apr-1960	Filed

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ARIZONA STATE LAND DEPARTMENT
IMPROVEMENT / LAND TREATMENT (BY LEASE)

FROM: 003-111835- THRU: 003-111836-

RELEASE#	IMPROVEMENT	DW#	OWNERSHIP	COMMENT / LAND#	STATUS DATE	CODE
003-111835-00	0485 PIPELINE	32117	10 LESSEE	SE1/4SE4; SW1/4SE4 08.0-8-21.0-E-03-05-031-1002	25-Jul-1955	Complete
003-111835-00	0485 PIPELINE	32118	10 LESSEE	NW1/4NE4; SE1/4NW4; SW1/4NW4; NW1/4SW4 08.0-8-21.0-E-10-05-031-1002	25-Jul-1955	Complete
003-111835-00	0486 PIPELINE	32124	10 LESSEE	NE1/4SE4; NW1/4SE4; NE1/4SW4; SE1/4SW4; SW1/4SW4 08.0-8-21.0-E-13-05-031-1002	25-Jul-1955	Complete
005-111835-00	0485 PIPELINE	32130	10 LESSEE	08.0-8-21.0-E-13-05-031-1002 08.0-8-21.0-E-14-05-031-1002 08.0-8-21.0-E-14-05-033-1002 08.0-8-21.0-E-22-05-031-1002 08.0-8-21.0-E-23-05-031-1002	09-Jun-2005 09-Jun-2005 09-Jun-2005 09-Jun-2005 09-Jun-2005	Complete Complete Complete Complete Complete
003-111835-00	0485 PIPELINE	32139	10 LESSEE	SE1/4E4 08.0-8-21.0-E-34-05-031-1002	11-Jun-1957	Complete
003-111835-00	0485 PIPELINE	32140	10 LESSEE	N1/4NE4; SE1/4NW4; SW1/4NW4 08.0-8-21.0-E-35-05-031-1002	11-Jun-1957	Complete
003-111835-00	0485 PIPELINE	32141	10 LESSEE	SE1/4NE4; NE1/4SE4; NW1/4SE4; NE1/4SW4 08.0-8-21.0-E-38-05-031-1002	11-Jun-1957	Complete
003-111835-00	0485 PIPELINE	32145	10 LESSEE	NW1/4NW4; SW1/4SW4 08.0-8-21.0-E-34-05-031-1002	25-Jul-1955	Complete
003-111835-00	0485 PIPELINE	32151	10 LESSEE	NE1/4 & SW1/4E4 & NE1/4SW4 08.0-8-21.0-E-38-05-033-1002	15-May-1952	Complete
003-111835-00	0485 PIPELINE	32157	10 LESSEE	SW1/4 & NE1/4 08.0-8-22.0-E-07-05-031-1002	05-Apr-1951	Complete
003-111835-00	0485 PIPELINE	32240	10 LESSEE	SW1/4SE4E4 07.0-8-21.0-E-08-05-033-1002	01-Jul-1950	Complete
003-111835-00	0540 RESERVOIR	32143	10 LESSEE	N ON E LINE & W THRU CENTER 08.0-8-21.0-E-31-05-031-1002	20-Sep-1952	Complete
003-111835-00	0540 RESERVOIR	32147	10 LESSEE	DIFT 08.0-8-21.0-E-38-05-031-1002	20-Sep-1952	Complete
003-111835-00	0620 STOCKTANK	32158	10 LESSEE	08.0-8-22.0-E-20-05-013-1002	20-Sep-1952	Complete

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**ARIZONA STATE LAND DEPARTMENT
IMPROVEMENT / LAND TREATMENT (BY RE LEASE)**

FROM: 005-111835- THRU: 005-111850-

RELEASE#	IMPROVEMENT	INV#	OWNERSHIP	COMMENT / LAND#	STATUS DATE	CODE
005-111835-00	0543 TANK - ABOVE GRD	32234	10 LESSEE	DRY TANK 05-0-8-21 0-E-24-05-031-1002	31-Dec-1942	Complete
005-111835-00	0545 TANK - ABOVE GRD	32230	10 LESSEE	MID SE4SE4SE4 SW4SE4SE4 07-0-8-21 0-E-36-05-030-1002	28-Apr-1950	Complete
005-111835-00	0683 TANK - WATER	32156	10 LESSEE	NON2 SE4W 05-0-8-21 0-E-11-05-031-1002	29-Sep-1952	Complete
005-111835-00	0705 TROUGH - WATER	32119	10 LESSEE	SE4NW4 & SW4NW4 08-0-8-21 0-E-10-05-031-1002	20-Sep-1952	Complete
005-111835-00	0705 TROUGH - WATER	32126	10 LESSEE	NE4SE4 & SE4SW4 08-0-8-21 0-E-13-05-031-1002	11-Jun-1957	Complete
005-111835-00	0705 TROUGH - WATER	32152	10 LESSEE	DR-0-8-21 0-E-36-05-030-1002	19-May-1952	Complete
005-111835-00	0705 TROUGH - WATER	32154	10 LESSEE	4 SETS 08-0-8-21 0-E-11-05-031-1002	20-Sep-1952	Complete
005-111835-00	0705 TROUGH - WATER	32237	10 LESSEE	SW4SE4NE4 09-0-8-22 0-E-07-05-031-1002	05-Apr-1961	Complete
005-111835-00	0705 TROUGH - WATER	32238	10 LESSEE	NE4NE4SW4 08-0-8-21 0-E-36-05-030-1002	18-Aug-1950	Complete
005-111835-00	0775 WTR SPRD DEVELOP	32103	10 LESSEE	SESE 07-0-8-21 0-E-36-05-030-1002	31-Dec-1952	Complete
005-111835-00	0775 WTR SPRD DEVELOP	32128	10 LESSEE	NE4NE 08-0-8-21 0-E-13-05-053-1002	31-Dec-1952	Complete
005-111835-00	0775 WTR SPRD DEVELOP	32133	10 LESSEE	N4NW 08-0-8-21 0-E-14-05-031-1002	31-Dec-1952	Complete
005-111835-00	0785 WELL	32104	10 LESSEE	SESE 07-0-8-21 0-E-36-05-030-1002	31-Dec-1952	Complete
005-111835-00	0785 WELL	32144	10 LESSEE	SWNE 08-0-8-21 0-E-22-05-031-1002	31-Dec-1952	Complete
005-111835-00	0785 WELL	32148	10 LESSEE	NE4W 08-0-8-21 0-E-26-05-031-1002	31-Dec-1958	Complete

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**ARIZONA STATE LAND DEPARTMENT
IMPROVEMENT / LAND TREATMENT (BY RE LEASE)**

FROM: 005-111835- THRU: 005-111850-

RELEASE#	IMPROVEMENT	INV#	OWNERSHIP	COMMENT / LAND#	STATUS DATE	CODE
005-111835-00	0785 WELL	32207	10 LESSEE	NE4W 08-0-8-21 0-E-24-05-031-1002	31-Dec-1942	Complete
005-111835-00	0785 WELL	32488	0000 OWNERSHIP NOT ASSIGNED	NE4SE4NW4 08-0-8-21 0-E-13-05-031-1002	07-Dec-2008	Pending
005-111835-00	0785 WELL	32490	0000 OWNERSHIP NOT ASSIGNED	SW4NW4 08-0-8-21 0-E-13-05-053-1002	07-Dec-2008	Pending
005-111835-00	0785 WELL	32492	0000 OWNERSHIP NOT ASSIGNED	NE4SE4NW4 08-0-8-21 0-E-24-05-031-1002	07-Dec-2008	Pending
005-111835-00	0805 WINDMILL	32143	10 LESSEE	NE4W 08-0-8-21 0-E-26-05-031-1002	31-Dec-1958	Complete
005-111835-00	0805 WINDMILL	32153	10 LESSEE	NON2 SE4W 08-0-8-21 0-E-11-05-031-1002	31-Dec-1940	Complete
REPORT TOTAL NUMBER OF IMPROVEMENTS / TREATMENTS:			63			

DATE: May, 25, 13
TIME: 12:31 PM

**ARIZONA STATE LAND DEPARTMENT
IMPROVEMENT / LAND TREATMENT (BY KB LEASE)**

FROM: 005-101825- THRU: 005-101825-

RELEASE#	IMPROVEMENT	IN#	OWNERSHIP	COMMENT / LAND#	STATUS DATE	CODE
005-101825-00	0183 CORRAL	24724	10 LESSEE	NW4 09 0-8-22 0-E-03-03-009-1002	31-Dec-1951	Complete
005-101825-00	0183 CORRAL	24725	10 LESSEE	NW4 08 0-8-22 0-E-13-05-031-1002	31-Dec-1951	Complete
005-101825-00	0210 OAM	24726	10 LESSEE	09 0-8-22 0-E-21-05-053-1002 09 0-8-22 0-E-22-05-053-1002 08 0-8-22 0-E-28-05-053-1002	09-May-1978 09-May-1978 09-May-1978	Complete Complete Complete
005-101825-00	0210 OAM	24727	10 LESSEE	EAST SIDE 09 0-8-22 0-E-23-05-009-1002	31-Dec-1951	Complete
005-101825-00	0219 ONE	24728	10 LESSEE	09 0-8-22 0-E-21-05-053-1002 09 0-8-22 0-E-22-05-053-1002 08 0-8-22 0-E-28-05-053-1002	09-May-1978 09-May-1978 09-May-1978	Complete Complete Complete
005-101825-00	0200 FENCE - WIRE	24729	10 LESSEE	EAST SIDE 09 0-8-22 0-E-23-05-009-1002	31-Dec-1951	Complete
005-101825-00	0250 FENCE - WIRE	24730	10 LESSEE	VARIOUS LOCATIONS 08 0-8-23 0-E-05-03-009-1002 08 0-8-23 0-E-06-03-009-1002 08 0-8-23 0-E-17-05-031-1002 08 0-8-23 0-E-18-05-033-1002 08 0-8-23 0-E-21-05-009-1002 10 0-8-22 0-E-01-03-009-1002	31-Dec-1951 31-Dec-1951 31-Dec-1951 31-Dec-1951 31-Dec-1951 31-Dec-1951	Complete Complete Complete Complete Complete Complete
005-101825-00	0200 FENCE - WIRE	24731	10 LESSEE	VARIOUS LOCATIONS 08 0-8-22 0-E-04-03-031-1002 08 0-8-22 0-E-18-05-030-1002 08 0-8-22 0-E-28-05-053-1002 09 0-8-22 0-E-33-05-053-1002 08 0-8-22 0-E-36-05-030-1002	31-Dec-1951 31-Dec-1951 31-Dec-1951 31-Dec-1951 31-Dec-1951	Complete Complete Complete Complete Complete
005-101825-00	0250 FENCE - WIRE	24732	10 LESSEE	ALONG WEST SIDE 09 0-8-22 0-E-09-03-031-1002	31-Dec-1951	Complete
005-101825-00	0200 FENCE - WIRE	24733	10 LESSEE	DIAG. ACROSS NW24 08 0-8-22 0-E-13-05-031-1002	31-Dec-1951	Complete
005-101825-00	0200 FENCE - WIRE	24734	10 LESSEE	DIAG. ACROSS SW44 09 0-8-22 0-E-14-03-031-1002	31-Dec-1951	Complete

DATE: May 23, 13
TIME: 10:34 PM

**ARIZONA STATE LAND DEPARTMENT
IMPROVEMENT / LAND TREATMENT (BY RE LEASE)**

FROM: 005-101925- THRU: 005-101925-

RELEASE#	IMPROVEMENT	DIV#	OWNERSHIP	COMMENT / LAND#	STATUS DATE	CODE
005-101925-00	0290 FENCE - WIRE	24735	10 LESSEE	CENTER OF SECTION N-8 ALONG S SIDE SW4 09 0-8-22.0-E-16-05-031-1002	31-Dec-1951	Complete
005-101925-00	0600 PUMP	24736	10 LESSEE	WEST SIDE SW CORNER 09 0-8-22.0-E-09-05-031-1002	31-Dec-1951	Complete
005-101925-00	0500 PUMP	24737	10 LESSEE	APPROX CENTER LINE 09 0-8-22.0-E-13-05-031-1002	31-Dec-1951	Complete
005-101925-00	0845 TANK - BELOW GRD	24738	10 LESSEE	DIRTY TANK NE4 09 0-8-22.0-E-17-05-031-1002	31-Dec-1951	Complete
005-101925-00	0845 TANK - BELOW GRD	24739	10 LESSEE	DIRTY TANK SW4 09 0-8-22.0-E-10-05-031-1002	31-Dec-1951	Complete
005-101925-00	0848 TANK - BELOW GRD	24740	10 LESSEE	DIRTY TANK NEAR NORTH BOUNDARY LINE 09 0-8-22.0-E-11-05-031-1002	31-Dec-1951	Complete
005-101925-00	0863 TANK - WATER	24741	10 LESSEE	NE4 09 0-8-22.0-E-09-05-031-1002	31-Dec-1951	Complete
005-101925-00	0863 TANK - WATER	24742	10 LESSEE	NN4 09 0-8-22.0-E-13-05-031-1002	31-Dec-1951	Complete
005-101925-00	0785 WELL	24743	10 LESSEE	NE4 09 0-8-22.0-E-09-05-031-1002	31-Dec-1951	Complete
005-101925-00	0785 WELL	24744	10 LESSEE	APPROX CENTER LINE 09 0-8-22.0-E-13-05-031-1002	31-Dec-1951	Complete
005-101925-00	0785 WELL	20579	10 LESSEE	NEW - NESESE 09 0-8-22.0-E-34-05-031-1002	28-Feb-2004	Complete
005-101925-00	0785 WELL	28630	9999 OWNERSHIP NOT ASSIGNED	NEW - SWWAME 09 0-8-22.0-E-11-05-031-1002	20-Apr-2004	Pending
005-101925-00	0785 WELL	28631	9999 OWNERSHIP NOT ASSIGNED	REPLACEMENT - NESESEW 09 0-8-22.0-E-13-05-031-1002	20-Apr-2004	Pending
005-101925-00	0785 WELL	28632	9999 OWNERSHIP NOT ASSIGNED	NEW - NWBANNW 09 0-8-22.0-E-33-05-031-1002	20-Apr-2004	Pending
005-101925-00	0785 WELL	28904	9999 OWNERSHIP NOT ASSIGNED	NESESEW DEEPER EXISTING WELL 09 0-8-22.0-E-13-05-031-1002	28-Nov-2005	Pending

DATE: May 23, 13
TIME: 10:34 PM

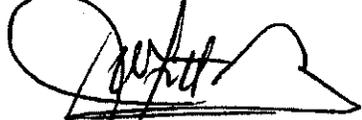
**ARIZONA STATE LAND DEPARTMENT
IMPROVEMENT / LAND TREATMENT (BY RE LEASE)**

FROM: 005-101925- THRU: 005-101925-

RELEASE#	IMPROVEMENT	DIV#	OWNERSHIP	COMMENT / LAND#	STATUS DATE	CODE
005-101925-00	0855 WINDMILL	24746	10 LESSEE	WEST SIDE SW CORNER 09 0-8-22.0-E-29-05-031-1002	31-Dec-1951	Complete
005-101925-00	0805 WINDMILL	24748	10 LESSEE	APPROX CENTER LINE 09 0-8-22.0-E-13-05-031-1002	31-Dec-1951	Complete
005-101925-00	0955 SEEDING	24747		E3 09 0-8-22.0-E-23-05-031-1002	21-Oct-1951	Filed
005-101925-00	0955 SEEDING	24748		VARIOUS LOCATIONS 09 0-8-22.0-E-13-05-031-1002 09 0-8-22.0-E-23-05-031-1002 09 0-8-22.0-E-25-05-031-1002 09 0-8-22.0-E-29-05-031-1002	21-Oct-1952 21-Oct-1952 21-Oct-1952 21-Oct-1952	Pending Pending Pending Pending
005-101925-00	0955 SEEDING	24749		N2 09 0-8-22.0-E-36-05-031-1002	31-Dec-1957	Complete
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Plan Approval

The undersigned, have participated in the development of the **76 Ranch** Coordinated Resource Management Plan, concur with the plan and those responsibilities assigned to us, and will act to implement it to the best of our ability.

Name	Representing	Date
 Jay Whetten	76 Ranch	1/30/2014

Plan Approval

The undersigned, have participated in the development of the 76 Ranch/Jay Whetten Coordinated Resource Management Plan, concur with the plan and those responsibilities assigned to us, and will act to implement it to the best of our ability.

Name	Representing	Date
<u><i>Rpl Wince</i></u>	Natural Resource Conservation Service	<u>2/18/14</u>

Plan Approval

The undersigned, have participated in the development of the 76 Ranch/Jay Whetten Coordinated Resource Management Plan, concur with the plan and those responsibilities assigned to us, and will act to implement it to the best of our ability.

Name

Representing

Date

Paul A. Vige

3-25-14

Arizona Game and Fish

Plan Approval

The undersigned, have participated in the development of the **76 Ranch/Iay Whetten** Coordinated Resource Management Plan, concur with the plan and those responsibilities assigned to us, and will act to implement it to the best of our ability.

Name

Representing

Date

Kent C. Ellett

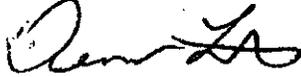
United States Forest Service

4-21-2014

Plan Approval

The undersigned, have participated in the development of the 76 Ranch/Jay Whetten Coordinated Resource Management Plan, concur with the plan and those responsibilities assigned to us, and will act to implement it to the best of our ability.

Name



Representing

Gila Valley NRCD

Date

4-1-14

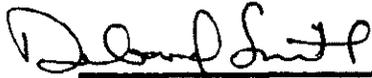
Plan Approval

The undersigned, have participated in the development of the **76 Ranch/Iay Whetten** Coordinated Resource Management Plan, concur with the plan and those responsibilities assigned to us, and will act to implement it to the best of our ability.

Name

Representing

Date



Arizona Natural Resource Conservation Districts

5/15/2014

Plan Approval

The undersigned, have participated in the development of the 76 Ranch/Jay Whetten Coordinated Resource Management Plan, concur with the plan and those responsibilities assigned to us, and will act to implement it to the best of our ability.

Name

Representing

Date



Bureau of Land Management

3/18/14