Appendix B

2014 Vegetation Monitoring Program Observation Monitoring Sites and Livestock Grazing Summary for the Kern Water Bank



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2014 Vegetation Monitoring Program Observation Monitoring Sites and Livestock Grazing Summary for the KERN WATER BANK



SUBMITTED TO:

KernWater Bank Authority

PREPARED BY:



2014 VEGETATION MONITORING PROGRAM OBSERVATION MONITORING SITES AND LIVESTOCK GRAZING SUMMARY for the KERN WATER BANK

Submitted to:

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Vegetation Monitoring Program Observation Monitoring Sites and Livestock Grazing Summary

INTRODUCTION

The Kern Water Bank (KWB) vegetation monitoring program consists of eight permanently established vegetation monitoring sites (OMS), each one located in a representative habitat on the KWB (e.g., canal, ditch, pond, uplands, old farm lands, and conservation lands). The locations of monitoring sites have been unchanged since their establishment in the late 1990's. Their locations are indicated in Figure 1. The primary purpose of monitoring these sites is to provide a qualitative evaluation and documentation of the dynamic nature of the vegetation on the KWB. Data collected and observations made at the monitoring sites are used to help guide vegetation management decisions, particularly in regards to livestock grazing strategies, and to facilitate the application of successful adaptive management strategies for the KWB.

METHODS

All eight of the vegetation monitoring sites are visited each quarter by one or two biologists. The biologists collect data such as the observed plant and animal species, basic weather conditions, general vegetation conditions, and other pertinent information. Lastly, photographs from all four cardinal directions (North, East, West, and South) are taken to provide a visual representation of the conditions encountered at each site. This approach has resulted in many years of successive photographic data that help to illustrate the dynamic nature of the KWB. The data collected from each observation monitoring site is provided as Attachment 1.

RESULTS AND DISCUSSION

Rainfall during the 2014 rain year (October 1, 2013 - September 30, 2014) for the KWB was approximately 2.42 inches, that equates to just 37% of the long term average for the Bakersfield area. This marked the third successive below-average rainfall year, and the lowest rainfall total since 2008, when only 1.77 inches fell. Three years of drought conditions have had a dramatic effect on the KWB and in 2014 there was almost no primary production as can be seen from the quarterly photographs at almost all of the observation monitoring stations. Photographs 1 - 12 provide a visual illustration of the very dry conditions that prevailed at the KWB in 2014.

Due to the very low primary production from the low precipitation, very few cattle remained on the KWB at the beginning of 2014. In January and February of 2014, only 105 AU (an AU is an Animal Unit which is equivalent to one adult cow and one calf) were present in the River Area and just 25 AU were in the North Area. However, all cattle were removed from the North Area by the end of February (Figure 2), and cattle

were steadily reduced in number in the River Area in March and April until finally all cattle were completely removed from the River Area on April 23, 2014 (Figure 2).

Meanwhile, although the KWB experienced its third consecutive year of below normal precipitation, the pattern of the rainfall made for favorable conditions in some areas for the germination and growth of Russian thistle (Salsola tragus). Trying to control Russian thistle has long been a persistent problem at the KWB. The low rainfall early in the 2014 season led to very little germination and growth of herbaceous plants that would have otherwise provided good ground cover and competition against Russian thistle. The open, bare ground that resulted from the low rainfall likely made it easier for Russian thistle to compete. Then, when a few small storms occurred in March, April, and May, bringing nearly one full inch of rain, Russian thistle was beginning to dominate the landscape over large portions of the Strand and South Areas in particular. Because of this bloom of Russian thistle, the thought of returning some cattle to the two most problematic areas (the Strand and South Areas) in an effort to combat the abundant growth of this troublesome weed seemed worth of consideration. Range conditions were such that were it not for the abundant growth of Russian thistle in these areas, cattle grazing would not be considered. However, the grazer (RCJ Cattle Company) indicated that they had cattle that were accustomed to desert grazing and it was thought that these cattle would graze on not only the newly growing Russian thistle but that they may very well eat some of the older plants that had started to produce seed. It was therefore determined that a relatively small number of head would be returned to these areas and monitored closely to determine that they would graze the Russian thistle plants and not cause any unforeseen damage to trees or shrubs.

A total of 41 AU were returned to the South Area on April 28, 2014. These cattle remained in the South Area for just over a month grazing on Russian thistle until May 31, when all of the cattle were removed. The Strand Area is much larger than the South Area and the Strand Area is probably the most prone to Russian thistle explosions than most of the areas of the KWB. It was decided to try 135 AU in the Strand and these cattle were turned out in March of 2014 with the idea that they would be closely monitored to make sure they were in fact eating the Russian thistle and also that they were not damaging any of the Goodding's willows (*Salix gooddingii*) or other trees. Cattle remained in the Strand Area for the rest of the summer and into the fall. They definitely grazed heavily on the Russian thistle and in many areas cattle also topped the Russian knapweed (*Acroptilon repens*), which is also an undesirable non-native plant that can form dense stands in the summer and fall at the KWB. Photographs 13 - 16 illustrate cattle effectively grazing on Russian thistle Russian knapweed in the South and Strand Areas.

Although cattle definitely grazed the Russian thistle and Russian knapweed, it is difficult to state to what degree the grazing may have been effective at reducing the seed production of these plants. This is largely because the plants were not completely removed by the cattle, rather the cattle appeared to primarily eat the outer portions of most plants, probably because these would be the more palatable portions. Regardless, it is reasonable to assume that at a minimum, the grazed plants did not reach the size and vigor that they might otherwise have achieved were it not for being grazed, and this likely translated into less seed production for these plants.

At the time of the completion of this report, the 2014 - 2015 rain season has proven to be much better than the 2013 - 2014 rain year with over 5 inches of precipitation accumulating. Although that is still below normal, it has resulted in significantly higher primary production than any of the three prior years. However, there were significant storms in April and May that may benefit non-native summer and fall blooming species such as Russian thistle, as many of the native and desirable non-native herbaceous plants have already completed their growing season by the end of April. Cattle were turned out onto several of the areas at KWB beginning in mid-February when it was clear that abundant growth was occurring. Cattle are expected to continue to graze all areas of the KWB to help reduce the rank vegetation growth and to graze on Russian thistle plants in order to help reduce seed set and possibly lessen the severity of possible future infestations.





Photograph 1. Pond basin in Strand Area on March 7, 2014. No visible herbaceous growth.



Photograph 2. Same area as shown in Photograph 1 on April 9, 2014. Only the trees show any growth.



Photograph 3. Same area as shown on September 9, 2014. Again, only the trees show any growth.



Photograph 4. Same area as shown on November 7, 2014. Essentially no growth of herbaceous plants occurred throughout the season.

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Photograph 5. Sensitive habitat sector in the Southeast Area on March 12, 2014. No visible germination or growth of herbaceous plants.



Photograph 6. Same area as shown in Photograph 5 on April 23, 2014. The only visible growth is from the honey mesquite and some of the allscale shrubs.



Photograph 7. Same area on September 5, 2014. Visibly more growth on some of the allscale shrubs, but even the honey mesquite is losing much of its foliage.



Photograph 8. Same area on November 7, 2014. Very little change from what was observed at the site on September 5, 2014.

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Photograph 9. Area within the conservation bank sector of the KWB on March 7, 2014. No germination or growth of any herbaceous plants observed.



Photograph 10. Same area as shown in Photograph 9 on April 23, 2014. Still no visible growth observed, other than some Russian thistle plants are germinating and growing, mostly along the road edges.



Photograph 11. Same area on September 5, 2014. Conditions are similar to what was observed on April 23, 2014.



Photograph 12. Same area on November 7, 2014. Essentially identical conditions prevailed throughout the year.

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Photograph 13. Cattle grazing on Russian thistle in the Strand Area in August of 2014.

Photograph 14. Cow eating a mature tumbleweed within a pond basin.

Photograph 15. Grazed Russian thistle plant. This was often how the cattle would graze these mature plants, eating down to within a few inches of the ground but not eating the entire plant.

2014 Vegetation Monitoring Program Observation Monitoring Sites and Livestock Grazing Summary Report for the Kern Water Bank **Photograph 16**. Grazed Russian knapweed plant. Cattle typically only ate the outer margins of knapweed, including the flowers.







Figure 2. Charts showing the number of cattle, expressed as an Animal Unit (AU) which is one adult cow and one calf, that were present in each area by month during 2014.

2014 Vegetation Monitoring Program Observation Monitoring Sites and Livestock Grazing Summary Report for the Kern Water Bank

ATTACHMENT 1

Kern Water Bank 2014 Observation Monitoring Program Site Observations

LOCATION INFORMATION

LOCATION: OMS-1 SECTION: 3 TOWNSHIP/RANGE: 30S/25E COORDINATES (CA5-NAD83): 6181490, 2313744 NUMBER OF ACRES: 40 VEGETATION TYPE: EMERGENT WETLAND SPECIES PRESENT SITE TYPE: POND BASIN/POND LITTORAL ZONES

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LOCATION INFORMATION LOCATION: OMS-2 SECTION: 9 TOWNSHIP/RANGE: 30S/25E COORDINATES (CA5-NAD83): 6177540, 2308574 NUMBER OF ACRES: > 1 VEGETATION TYPE: EMERGENT WETLAND SPECIES PRESENT/MOSTLY DOMINATED BY ANNUAL GRASSES AND WEEDS SITE TYPE: DITCH BANK/DITCH BOTTOM





LOCATION INFORMATION

LOCATION: OMS-3 SECTION: 10 TOWNSHIP/RANGE: 30S/25E COORDINATES (CA5-NAD83): 6177656, 2311449 NUMBER OF ACRES: 80 VEGETATION TYPE: MOSTLY DOMINATED BY ANNUAL GRASSES AND WEEDS/DOMINATED BY RUSSIAN THISTLE AND/OR PRICKLY LETTUCE SITE TYPE: UPLAND-OLD FARM FIELD

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В	TIME: 11:40 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 8 MPH TEMPERATURE: 95 F HUMIDITY: 27% NOTES: BARE SOILS AND A FEW TUMI WILDLIFE PRESENT: PLANTS PRESENT: ISOCOMA ACRADE SURVEY DATE: 11/07/2014 TIME: 10:39 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 2.5 MPH TEMPERATURE: 71 F	BLEWEEDS. A FEW KANGAROO I ENIA, SALSOLA TRAGUS.	RAT BURROWS THAT APPEAR T	O BE ACTIVE.	
В	TIME: 11:40 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 8 MPH TEMPERATURE: 95 F HUMIDITY: 27% NOTES: BARE SOILS AND A FEW TUMI WILDLIFE PRESENT: PLANTS PRESENT: ISOCOMA ACRADE SURVEY DATE: 11/07/2014 TIME: 10:39 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 2.5 MPH	BLEWEEDS. A FEW KANGAROO I ENIA, SALSOLA TRAGUS.	RAT BURROWS THAT APPEAR T	O BE ACTIVE.	
	TIME: 11:40 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 8 MPH TEMPERATURE: 95 F HUMIDITY: 27% NOTES: BARE SOILS AND A FEW TUMI WILDLIFE PRESENT: PLANTS PRESENT: ISOCOMA ACRADE SURVEY DATE: 11/07/2014 TIME: 10:39 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 2.5 MPH TEMPERATURE: 71 F	BLEWEEDS. A FEW KANGAROO I ENIA, SALSOLA TRAGUS.	EAST	O BE ACTIVE.	
В	TIME: 11:40 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 8 MPH TEMPERATURE: 95 F HUMIDITY: 27% NOTES: BARE SOILS AND A FEW TUMI WILDLIFE PRESENT: PLANTS PRESENT: ISOCOMA ACRADE SURVEY DATE: 11/07/2014 TIME: 10:39 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 2.5 MPH TEMPERATURE: 71 F HUMIDITY: 56% NOTES: GROUND IS BARE WITH ONLY WILDLIFE PRESENT: RED-TAILED HAW	BLEWEEDS. A FEW KANGAROO I ENIA, SALSOLA TRAGUS. NORTH	EAST	O BE ACTIVE.	
Я	TIME: 11:40 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 8 MPH TEMPERATURE: 95 F HUMIDITY: 27% NOTES: BARE SOILS AND A FEW TUMI WILDLIFE PRESENT: PLANTS PRESENT: ISOCOMA ACRADE SURVEY DATE: 11/07/2014 TIME: 10:39 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 2.5 MPH TEMPERATURE: 71 F HUMIDITY: 56% NOTES: GROUND IS BARE WITH ONLY	BLEWEEDS. A FEW KANGAROO I ENIA, SALSOLA TRAGUS. NORTH	EAST	O BE ACTIVE.	
R	TIME: 11:40 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 8 MPH TEMPERATURE: 95 F HUMIDITY: 27% NOTES: BARE SOILS AND A FEW TUMI WILDLIFE PRESENT: PLANTS PRESENT: ISOCOMA ACRADE SURVEY DATE: 11/07/2014 TIME: 10:39 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 2.5 MPH TEMPERATURE: 71 F HUMIDITY: 56% NOTES: GROUND IS BARE WITH ONLY WILDLIFE PRESENT: RED-TAILED HAW	BLEWEEDS. A FEW KANGAROO I ENIA, SALSOLA TRAGUS. NORTH	EAST	O BE ACTIVE.	



LOCATION INFORMATION

LOCATION: OMS-4 SECTION: 11 TOWNSHIP/RANGE: 30S/25E COORDINATES (CA5-NAD83): 6186254, 2311943 NUMBER OF ACRES: 10 VEGETATION TYPE: MOSTLY DOMINATED BY ANNUAL GRASSES AND WEEDS/NON-NATIVE PLANTS SITE TYPE: DITCH BANK/DITCH BOTTOM

	SURVEY DATE: 03/07/2014	NORTH	EAST	SOUTH	WEST
	TIME: 10:42 AM				
	MONITOR(S): J. JONES		and the second se		
i cc	RAINFALL TO DATE: 0.90 IN	and the second s	- it is a summer of the second	And the second se	
Ë	WIND DIRECTION: W				and the second se
AB	WIND VELOCITY: 7 MPH			A CALL AND A DECEMBER OF A CALL	and the second s
	TEMPERATURE: 65 F	11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			
ST QUARTER	HUMIDITY: 50%				
S					
-	NOTES: GROUND IS BARE. HELIOTROPE				
	WILDLIFE PRESENT: HOUSE FINCH, NOI				
	PLANTS PRESENT: HELIOTROPIUM CUR	ASSAVICUM.			
	SURVEY DATE: 04/09/2014	NORTH	EAST	SOUTH	WEST
	TIME: 12:22 PM				1200
	MONITOR(S): J. JONES				
<u> </u>	RAINFALL TO DATE: 1.40 IN	Variation and the			
Ë	WIND DIRECTION: N		and have a star and all and	the second s	- In In
AB	WIND VELOCITY: 5 MPH			and the second second second	and the second sec
	TEMPERATURE: 84 F				and the second second
	HUMIDITY: 28%				
2ND QUARTER					
	NOTES: TOP OF BANKS HAVE PATCHY TU				
	WILDLIFE PRESENT: WESTERN KINGBIR				
	PLANTS PRESENT: HELIOTROPIUM CUR	ASSAVICUM, HIRSCHFELDIA IN	CANA, SALSOLA TRAGUS.		
	SURVEY DATE: 09/05/2014	NORTH	EAST	SOUTH	WEST
	SURVEY DATE: 09/05/2014 TIME: 12:15 PM	NORTH	EAST	SOUTH	WEST
	TIME: 12:15 PM	NORTH	EAST	SOUTH	WEST
К		NORTH	EAST	SOUTH	WEST
RTER	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO	NORTH	EAST	SOUTH	WEST
ARTER	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN	NORTH	EAST	SOUTH	WEST
QUARTER	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW	NORTH	EAST	SOUTH	WEST
) QUARTER	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 4 MPH	NORTH	EAST	SOUTH	WEST
RD QUARTER	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 4 MPH TEMPERATURE: 93 F HUMIDITY: 28%	NORTH	EAST	SOUTH	WEST
3RD QUARTER	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 4 MPH TEMPERATURE: 93 F HUMIDITY: 28% NOTES: MOSTLY BARE GROUND.	NORTH	EAST	SOUTH	WEST
3RD QUARTER	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 4 MPH TEMPERATURE: 93 F HUMIDITY: 28% NOTES: MOSTLY BARE GROUND. WILDLIFE PRESENT:			SOUTH	WEST
3RD QUARTER	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 4 MPH TEMPERATURE: 93 F HUMIDITY: 28% NOTES: MOSTLY BARE GROUND.			SOUTH	WEST
3RD QUARTER	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 4 MPH TEMPERATURE: 93 F HUMIDITY: 28% NOTES: MOSTLY BARE GROUND. WILDLIFE PRESENT:			SOUTH	WEST
3RD QUARTER	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 4 MPH TEMPERATURE: 93 F HUMIDITY: 28% NOTES: MOSTLY BARE GROUND. WILDLIFE PRESENT: PLANTS PRESENT: HELIOTROPIUM CUR			SOUTH	WEST
3RD QUARTER	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 4 MPH TEMPERATURE: 93 F HUMIDITY: 28% NOTES: MOSTLY BARE GROUND. WILDLIFE PRESENT:	ASSAVICUM, SALSOLA TRAGUS	5.		
3RD QUARTER	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 4 MPH TEMPERATURE: 93 F HUMIDITY: 28% NOTES: MOSTLY BARE GROUND. WILDLIFE PRESENT: PLANTS PRESENT: HELIOTROPIUM CUR SURVEY DATE: 11/07/2014	ASSAVICUM, SALSOLA TRAGUS	5.		
	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 4 MPH TEMPERATURE: 93 F HUMIDITY: 28% NOTES: MOSTLY BARE GROUND. WILDLIFE PRESENT: PLANTS PRESENT: HELIOTROPIUM CUR SURVEY DATE: 11/07/2014 TIME: 10:05 AM	ASSAVICUM, SALSOLA TRAGUS	5.		
	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 4 MPH TEMPERATURE: 93 F HUMIDITY: 28% NOTES: MOSTLY BARE GROUND. WILDLIFE PRESENT: PLANTS PRESENT: HELIOTROPIUM CUR SURVEY DATE: 11/07/2014 TIME: 10:05 AM MONITOR(S): J. JONES	ASSAVICUM, SALSOLA TRAGUS	5.		
	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 4 MPH TEMPERATURE: 93 F HUMIDITY: 28% NOTES: MOSTLY BARE GROUND. WILDLIFE PRESENT: PLANTS PRESENT: HELIOTROPIUM CUR SURVEY DATE: 11/07/2014 TIME: 10:05 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN	ASSAVICUM, SALSOLA TRAGUS	5.		
	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 4 MPH TEMPERATURE: 93 F HUMIDITY: 28% NOTES: MOSTLY BARE GROUND. WILDLIFE PRESENT: PLANTS PRESENT: HELIOTROPIUM CUR SURVEY DATE: 11/07/2014 TIME: 10:05 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW	ASSAVICUM, SALSOLA TRAGUS	5.		
	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 4 MPH TEMPERATURE: 93 F HUMIDITY: 28% NOTES: MOSTLY BARE GROUND. WILDLIFE PRESENT: PLANTS PRESENT: HELIOTROPIUM CUR SURVEY DATE: 11/07/2014 TIME: 10:05 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 2 MPH	ASSAVICUM, SALSOLA TRAGUS	5.		
	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 4 MPH TEMPERATURE: 93 F HUMIDITY: 28% NOTES: MOSTLY BARE GROUND. WILDLIFE PRESENT: PLANTS PRESENT: HELIOTROPIUM CUR SURVEY DATE: 11/07/2014 TIME: 10:05 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND DIRECTION: NW WIND VELOCITY: 2 MPH TEMPERATURE: 70 F HUMIDITY: 59%	ASSAVICUM, SALSOLA TRAGUS	EAST	SOUTH	
4TH QUARTER 3RD QUARTER	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 4 MPH TEMPERATURE: 93 F HUMIDITY: 28% NOTES: MOSTLY BARE GROUND. WILDLIFE PRESENT: PLANTS PRESENT: HELIOTROPIUM CUR SURVEY DATE: 11/07/2014 TIME: 10:05 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 2 MPH TEMPERATURE: 70 F HUMIDITY: 59% NOTES: GROUND IS MOSTLY BARE WITH	ASSAVICUM, SALSOLA TRAGUS	EAST	SOUTH	
	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 4 MPH TEMPERATURE: 93 F HUMIDITY: 28% NOTES: MOSTLY BARE GROUND. WILDLIFE PRESENT: PLANTS PRESENT: HELIOTROPIUM CUR SURVEY DATE: 11/07/2014 TIME: 10:05 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND DIRECTION: NW WIND VELOCITY: 2 MPH TEMPERATURE: 70 F HUMIDITY: 59% NOTES: GROUND IS MOSTLY BARE WITH WILDLIFE PRESENT: AMERICAN KESTRE	ASSAVICUM, SALSOLA TRAGUS	EAST EAST	SOUTH	
	TIME: 12:15 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 4 MPH TEMPERATURE: 93 F HUMIDITY: 28% NOTES: MOSTLY BARE GROUND. WILDLIFE PRESENT: PLANTS PRESENT: HELIOTROPIUM CUR SURVEY DATE: 11/07/2014 TIME: 10:05 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 2 MPH TEMPERATURE: 70 F HUMIDITY: 59% NOTES: GROUND IS MOSTLY BARE WITH	ASSAVICUM, SALSOLA TRAGUS	EAST EAST	SOUTH	



LOCATION INFORMATION

LOCATION: OMS-5 SECTION: 7 TOWNSHIP/RANGE: 30S/26E COORDINATES (CA5-NAD83): 6194387, 2306947 NUMBER OF ACRES: 50 VEGETATION TYPE: MOSTLY DOMINATED BY ANNUAL GRASSES AND WEEDS/NON-NATIVE PLANTS/RUDERAL VEGETATION SITE TYPE: UPLAND-OLD FARM FIELDS

	SURVEY DATE: 03/07/2014	NORTH	EAST	SOUTH	WEST
	TIME: 11:08 AM				
	MONITOR(S): J. JONES				
<u>~</u>	RAINFALL TO DATE: 0.90 IN		and the second second		Street and States and
ST QUARTER	WIND DIRECTION: NW		have a state of the second	the second second	and the second of the second second
2	WIND VELOCITY: 7 MPH	and the man where the second	and the second second second	State of the second	
A	TEMPERATURE: 63 F	and the second s			and the second sec
ð				and the second second	and the second se
	HUMIDITY: 46%				
13	NOTES: GROUND IS BARE WITH GERMI				
	WILDLIFE PRESENT: NORTHERN HARRI		TERFEARING JUST STARTING.	OCCASIONAL NANGANOO I	NAI BONNOWS.
	PLANTS PRESENT: ERODIUM CICUTARI		VAR TORREYANA		
	SURVEY DATE: 04/09/2014	NORTH	EAST	SOUTH	WEST
	TIME: 01:38 PM				
	MONITOR(S): J. JONES				and the second second
~	RAINFALL TO DATE: 1.40 IN	in the second			
世	WIND DIRECTION: NW		all and a second second second		
Ľ.	WIND VELOCITY: 2 MPH			And the second s	
	TEMPERATURE: 89 F	and the second s			
Ø	HUMIDITY: 22%		and the second second		and the second sec
2ND QUARTER	HUMIDIT 1: 22%				a three and the second s
R I	NOTES: GROUND IS BARE WITH DRYING				
	WILDLIFE PRESENT: RAVEN, SIDE-BLOT			EDS ODSERVED.	
	PLANTS PRESENT: ERODIUM CICUTARI		VAR TORREYANA SCHISMUS	ARABICUS	
	SURVEY DATE: 09/05/2014	NORTH	EAST	SOUTH	WEST
		NORTH	EAST	SOUTH	WEST
	TIME: 11:13 AM	NORTH	EAST	SOUTH	WEST
ж	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO	NORTH	EAST	SOUTH	WEST
TER	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN	NORTH	EAST	SOUTH	WEST
ARTER	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW	NORTH	EAST	SOUTH	WEST
UARTER	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH	NORTH	EAST	SOUTH	WEST
QUARTER	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F	NORTH	EAST	SOUTH	WEST
RD QUARTER	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH	NORTH	EAST	SOUTH	WEST
3RD QUARTER	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F HUMIDITY: 30%			0	WEST
3RD QUARTER	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F			0	WEST
3RD QUARTER	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F HUMIDITY: 30% NOTES: BARE SOIL, OCCASIONAL MESO	QUITE AND JIMSON WEED. VER	Y FEW INACTIVE KANGAROO F	0	WEST
3RD QUARTER	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F HUMIDITY: 30% NOTES: BARE SOIL, OCCASIONAL MESO WILDLIFE PRESENT:	QUITE AND JIMSON WEED. VER	Y FEW INACTIVE KANGAROO F	0	WEST
3RD QUARTER	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F HUMIDITY: 30% NOTES: BARE SOIL, OCCASIONAL MESO WILDLIFE PRESENT:	QUITE AND JIMSON WEED. VER PROSOPIS GLANDULOSA VAR.	Y FEW INACTIVE KANGAROO F TORREYANA.	RAT BURROWS.	
3RD QUARTER	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F HUMIDITY: 30% NOTES: BARE SOIL, OCCASIONAL MESO WILDLIFE PRESENT:	QUITE AND JIMSON WEED. VER	Y FEW INACTIVE KANGAROO F	0	WEST
3RD QUARTER	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F HUMIDITY: 30% NOTES: BARE SOIL, OCCASIONAL MESO WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, F	QUITE AND JIMSON WEED. VER PROSOPIS GLANDULOSA VAR.	Y FEW INACTIVE KANGAROO F TORREYANA.	RAT BURROWS.	
3RD QUARTER	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F HUMIDITY: 30% NOTES: BARE SOIL, OCCASIONAL MESC WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, F	QUITE AND JIMSON WEED. VER PROSOPIS GLANDULOSA VAR.	Y FEW INACTIVE KANGAROO F TORREYANA.	RAT BURROWS.	
	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F HUMIDITY: 30% NOTES: BARE SOIL, OCCASIONAL MESC WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, F SURVEY DATE: 11/07/2014 TIME: 11:35 AM	QUITE AND JIMSON WEED. VER PROSOPIS GLANDULOSA VAR.	Y FEW INACTIVE KANGAROO F TORREYANA.	RAT BURROWS.	
	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F HUMIDITY: 30% NOTES: BARE SOIL, OCCASIONAL MESO WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, F SURVEY DATE: 11/07/2014 TIME: 11:35 AM MONITOR(S): J. JONES	QUITE AND JIMSON WEED. VER PROSOPIS GLANDULOSA VAR.	Y FEW INACTIVE KANGAROO F TORREYANA.	RAT BURROWS.	
	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F HUMIDITY: 30% NOTES: BARE SOIL, OCCASIONAL MESO WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, F SURVEY DATE: 11/07/2014 TIME: 11:35 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN	QUITE AND JIMSON WEED. VER PROSOPIS GLANDULOSA VAR.	Y FEW INACTIVE KANGAROO F TORREYANA.	RAT BURROWS.	
	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F HUMIDITY: 30% NOTES: BARE SOIL, OCCASIONAL MESO WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, F SURVEY DATE: 11/07/2014 TIME: 11:35 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW	QUITE AND JIMSON WEED. VER PROSOPIS GLANDULOSA VAR.	Y FEW INACTIVE KANGAROO F TORREYANA.	RAT BURROWS.	
	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F HUMIDITY: 30% NOTES: BARE SOIL, OCCASIONAL MESO WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, F SURVEY DATE: 11/07/2014 TIME: 11:35 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 1.5 MPH TEMPERATURE: 72 F	QUITE AND JIMSON WEED. VER PROSOPIS GLANDULOSA VAR.	Y FEW INACTIVE KANGAROO F TORREYANA.	RAT BURROWS.	
	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F HUMIDITY: 30% NOTES: BARE SOIL, OCCASIONAL MESO WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, F SURVEY DATE: 11/07/2014 TIME: 11:35 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 1.5 MPH	QUITE AND JIMSON WEED. VER PROSOPIS GLANDULOSA VAR.	Y FEW INACTIVE KANGAROO F TORREYANA.	RAT BURROWS.	
4TH QUARTER 3RD QUARTER	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F HUMIDITY: 30% NOTES: BARE SOIL, OCCASIONAL MESO WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, F SURVEY DATE: 11/07/2014 TIME: 11:35 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 1.5 MPH TEMPERATURE: 72 F	PUITE AND JIMSON WEED. VER PROSOPIS GLANDULOSA VAR.	Y FEW INACTIVE KANGAROO F TORREYANA. EAST	RAT BURROWS.	
	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F HUMIDITY: 30% NOTES: BARE SOIL, OCCASIONAL MESC WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, F SURVEY DATE: 11/07/2014 TIME: 11:35 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 1.5 MPH TEMPERATURE: 72 F HUMIDITY: 53%	PUITE AND JIMSON WEED. VER PROSOPIS GLANDULOSA VAR.	Y FEW INACTIVE KANGAROO F TORREYANA. EAST	RAT BURROWS.	
	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F HUMIDITY: 30% NOTES: BARE SOIL, OCCASIONAL MESC WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, F SURVEY DATE: 11/07/2014 TIME: 11:35 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 1.5 MPH TEMPERATURE: 72 F HUMIDITY: 53% NOTES: GROUND IS BARE, BUT THERE A	PUITE AND JIMSON WEED. VER PROSOPIS GLANDULOSA VAR. NORTH	Y FEW INACTIVE KANGAROO F TORREYANA. EAST	RAT BURROWS. SOUTH EDON STAGE.	
	TIME: 11:13 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 89 F HUMIDITY: 30% NOTES: BARE SOIL, OCCASIONAL MESO WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, F SURVEY DATE: 11/07/2014 TIME: 11:35 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND DIRECTION: NW WIND VELOCITY: 1.5 MPH TEMPERATURE: 72 F HUMIDITY: 53% NOTES: GROUND IS BARE, BUT THERE A WILDLIFE PRESENT: RAVEN	PUITE AND JIMSON WEED. VER PROSOPIS GLANDULOSA VAR. NORTH	Y FEW INACTIVE KANGAROO F TORREYANA. EAST	RAT BURROWS. SOUTH EDON STAGE.	



LOCATION INFORMATION LOCATION: OMS-6 SECTION: 36 TOWNSHIP/RANGE: 30S/25E COORDINATES (CA5-NAD83): 6192992, 2287399 NUMBER OF ACRES: 160 VEGETATION TYPE: MIXED ANNUAL GRASSLAND WITH SCATTERED SHRUBS/SCATTERED SHRUBS-BARE SOIL SITE TYPE: UPLAND-SENSITIVE HABITAT

		NORTH	FACT	COLITIL	WEGT
	SURVEY DATE: 03/12/2014	NORTH	EAST	SOUTH	WEST
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~	MONITOR(S): J. JONES RAINFALL TO DATE: 0.90 IN		and the second and the second second	and service and and the	Y V
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E E	WIND DIRECTION. N WIND VELOCITY: 11 MPH	and the second second	the sales of the sales	Contraction of the local division of the loc	
N	TEMPERATURE: 75 F	and a second sec		the second second	
Ō	HUMIDITY: 22%				
1ST QUARTER		the state and		and the second sec	
-	NOTES: NO EVIDENCE OF GERMINATION (OF HERBS DUE TO LOW RAIN. GRO	OUND IS BARE BETWEEN SHRU	BS.	
	WILDLIFE PRESENT: LOGGERHEAD SHIP				
	PLANTS PRESENT: ATRIPLEX POLYCARP	A, BROMUS RUBENS, ERODIUN	I CICUTARIUM, PROSOPIS GL	ANDULOSA VAR. TORREYAN	IA.
	SURVEY DATE: 04/23/2014	NORTH	EAST	SOUTH	WEST
	TIME: 01:00 PM			新品	
	MONITOR(S): J. JONES			M M	The second secon
ER	RAINFALL TO DATE: 1.40 IN			Lapation that it is	ALL PROPERTY LAND
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IAI	WIND VELOCITY: 8 MPH		and all and a state of the stat		
b b	TEMPERATURE: 68 F	and the second second			the second se
2ND QUARTER	HUMIDITY: 32%	and the state of t			
5N	NOTES: NO HERBACEOUS PLANTS GRO	WING			
	WILDLIFE PRESENT: RAVEN, SIDE-BLOT				
	PLANTS PRESENT: ATRIPLEX POLYCARP		R. TORREYANA.		
	SURVEY DATE: 09/05/2014	NORTH	EAST	SOUTH	WEST
			LAJI	300111	
					WEST
	TIME: 10:30 AM			17	
R	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO				
TER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN			The second se	
ARTER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO	and the second second			
QUARTER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N				
) QUARTER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 1.5 MPH				
SRD QUARTER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 1.5 MPH TEMPERATURE: 85 F HUMIDITY: 28%				
3RD QUARTER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 1.5 MPH TEMPERATURE: 85 F HUMIDITY: 28% NOTES: NO LIVING HERBACEOUS PLANT	TS. KANGAROO RAT BURROWS	DO NOT APPEAR TO BE ACT	IVE.	
3RD QUARTER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 1.5 MPH TEMPERATURE: 85 F HUMIDITY: 28% NOTES: NO LIVING HERBACEOUS PLANT WILDLIFE PRESENT:			IVE.	
3RD QUARTER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 1.5 MPH TEMPERATURE: 85 F HUMIDITY: 28% NOTES: NO LIVING HERBACEOUS PLANT			IVE.	
3RD QUARTER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 1.5 MPH TEMPERATURE: 85 F HUMIDITY: 28% NOTES: NO LIVING HERBACEOUS PLANT WILDLIFE PRESENT:	A, PROSOPIS GLANDULOSA VA	NR. TORREYANA.		
3RD QUARTER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 1.5 MPH TEMPERATURE: 85 F HUMIDITY: 28% NOTES: NO LIVING HERBACEOUS PLANT WILDLIFE PRESENT: PLANTS PRESENT: ATRIPLEX POLYCARP SURVEY DATE: 11/07/2013			IVE. SOUTH	WEST
3RD QUARTER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 1.5 MPH TEMPERATURE: 85 F HUMIDITY: 28% NOTES: NO LIVING HERBACEOUS PLANT WILDLIFE PRESENT: PLANTS PRESENT: ATRIPLEX POLYCARP SURVEY DATE: 11/07/2013 TIME: 12:30 PM	A, PROSOPIS GLANDULOSA VA	NR. TORREYANA.		
	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 1.5 MPH TEMPERATURE: 85 F HUMIDITY: 28% NOTES: NO LIVING HERBACEOUS PLANT WILDLIFE PRESENT: PLANTS PRESENT: ATRIPLEX POLYCARP SURVEY DATE: 11/07/2013 TIME: 12:30 PM MONITOR(S): J. JONES	A, PROSOPIS GLANDULOSA VA	NR. TORREYANA.		
ER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 1.5 MPH TEMPERATURE: 85 F HUMIDITY: 28% NOTES: NO LIVING HERBACEOUS PLANT WILDLIFE PRESENT: PLANTS PRESENT: ATRIPLEX POLYCARP SURVEY DATE: 11/07/2013 TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN	A, PROSOPIS GLANDULOSA VA	NR. TORREYANA.		
ER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 1.5 MPH TEMPERATURE: 85 F HUMIDITY: 28% NOTES: NO LIVING HERBACEOUS PLANT WILDLIFE PRESENT: PLANTS PRESENT: ATRIPLEX POLYCARP SURVEY DATE: 11/07/2013 TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: W	A, PROSOPIS GLANDULOSA VA	NR. TORREYANA.		
ER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 1.5 MPH TEMPERATURE: 85 F HUMIDITY: 28% NOTES: NO LIVING HERBACEOUS PLANT WILDLIFE PRESENT: PLANTS PRESENT: ATRIPLEX POLYCARP SURVEY DATE: 11/07/2013 TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: W WIND VELOCITY: 2.8 MPH	A, PROSOPIS GLANDULOSA VA	NR. TORREYANA.		
ER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 1.5 MPH TEMPERATURE: 85 F HUMIDITY: 28% NOTES: NO LIVING HERBACEOUS PLANT WILDLIFE PRESENT: PLANTS PRESENT: ATRIPLEX POLYCARP SURVEY DATE: 11/07/2013 TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: W WIND VELOCITY: 2.8 MPH TEMPERATURE: 75 F	A, PROSOPIS GLANDULOSA VA	NR. TORREYANA.		
ER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 1.5 MPH TEMPERATURE: 85 F HUMIDITY: 28% NOTES: NO LIVING HERBACEOUS PLANT WILDLIFE PRESENT: PLANTS PRESENT: ATRIPLEX POLYCARP SURVEY DATE: 11/07/2013 TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: W WIND VELOCITY: 2.8 MPH	A, PROSOPIS GLANDULOSA VA	NR. TORREYANA.		
	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 1.5 MPH TEMPERATURE: 85 F HUMIDITY: 28% NOTES: NO LIVING HERBACEOUS PLANT WILDLIFE PRESENT: PLANTS PRESENT: ATRIPLEX POLYCARP SURVEY DATE: 11/07/2013 TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: W WIND VELOCITY: 2.8 MPH TEMPERATURE: 75 F	A, PROSOPIS GLANDULOSA VA	NR. TORREYANA.		
ER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 1.5 MPH TEMPERATURE: 85 F HUMIDITY: 28% NOTES: NO LIVING HERBACEOUS PLANT WILDLIFE PRESENT: PLANTS PRESENT: ATRIPLEX POLYCARP SURVEY DATE: 11/07/2013 TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: W WIND VELOCITY: 2.8 MPH TEMPERATURE: 75 F HUMIDITY: 47% NOTES: BARE GROUND BETWEEN SHRUB: WILDLIFE PRESENT: WESTERN MEADOW	A, PROSOPIS GLANDULOSA VA	AR. TORREYANA.		
ER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 1.5 MPH TEMPERATURE: 85 F HUMIDITY: 28% NOTES: NO LIVING HERBACEOUS PLANT WILDLIFE PRESENT: PLANTS PRESENT: ATRIPLEX POLYCARP SURVEY DATE: 11/07/2013 TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND VELOCITY: 2.8 MPH TEMPERATURE: 75 F HUMIDITY: 47% NOTES: BARE GROUND BETWEEN SHRUBS	A, PROSOPIS GLANDULOSA VA	AR. TORREYANA.		
ER	TIME: 10:30 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 1.5 MPH TEMPERATURE: 85 F HUMIDITY: 28% NOTES: NO LIVING HERBACEOUS PLANT WILDLIFE PRESENT: PLANTS PRESENT: ATRIPLEX POLYCARP SURVEY DATE: 11/07/2013 TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: W WIND VELOCITY: 2.8 MPH TEMPERATURE: 75 F HUMIDITY: 47% NOTES: BARE GROUND BETWEEN SHRUB: WILDLIFE PRESENT: WESTERN MEADOW	A, PROSOPIS GLANDULOSA VA	AR. TORREYANA.		



LOCATION INFORMATION

LOCATION: OMS-7 SECTION: 34 TOWNSHIP/RANGE: 30S/25E COORDINATES (CA5-NAD83):612246, 2290740 NUMBER OF ACRES: 160 VEGETATION TYPE: MOSTLY DOMINATED BY ANNUAL GRASSES AND WEEDS SITE TYPE: UPLAND-SENSITIVE HABITAT/UPLAND-OLD FARM FIELDS

	SURVEY DATE: 03/07/2014	NORTH	EAST	SOUTH	WEST
	TIME: 12:05 PM				
	MONITOR(S): J. JONES	r			
2	RAINFALL TO DATE: 0.90 IN				T
ST QUARTER	WIND DIRECTION: W		T.I. II. No.		
A R	WIND VELOCITY: 4 MPH			that a first state of the second	a second second
5	TEMPERATURE: 65 F	the second second	and the second second second		
	HUMIDITY: 49%				
ST		and the second se			
-	NOTES: GROUND IS BARE WITH REDST	EM FILAREE AND OTHER HERB	S GERMINATING.		
	WILDLIFE PRESENT: LOGGERHEAD SHI				
	PLANTS PRESENT: BROMUS RUBENS, E	RODIUM CICUTARIUM.			
		NORTH	EAST	SOUTH	WEST
	SURVEY DATE: 04/23/2014 TIME: 11:25 AM				
	MONITOR(S): J. JONES				
2	RAINFALL TO DATE: 1.40 IN		In the state of th	,	I and a local
끹	WIND DIRECTION: W			and the second s	a later the second and the second
"B	WIND VELOCITY: 2 MPH				The entrance
۱ <u>۲</u>	TEMPERATURE: 68 F		the set in all		
Ø	HUMIDITY: 34%	and the second s	A CONTRACT OF	-	
2ND QUARTER	10mibi11.34%		the stand in the stand of the stand		
5	NOTES: RUSSIAN THISTLE GERMINATIN	IG AND GROWING OVER MUCH	OF THE AREA. GRAZING MAY	' BE NEEDED.	
	WILDLIFE PRESENT:				
	PLANTS PRESENT: ERODIUM CICUTARI	IUM, SALSOLA TRAGUS, SCHISM	NUS ARABICUS, SISYMBRIUM	IRIO.	
		NORTH	EACT	COLITH	WECT
	SURVEY DATE: 09/05/2014	NORTH	EAST	SOUTH	WEST
	TIME: 10:55 AM	NORTH	EAST	SOUTH	WEST
~	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO	NORTH	EAST	SOUTH	WEST
ER	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN	NORTH	EAST	SOUTH	WEST
RTER	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N	NORTH	EAST	SOUTH	WEST
JARTER	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH	NORTH	EAST	SOUTH	WEST
QUARTER	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH TEMPERATURE: 87 F	NORTH	EAST	SOUTH	WEST
D QUARTER	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH	NORTH	EAST	SOUTH	WEST
3RD QUARTER	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH TEMPERATURE: 87 F HUMIDITY: 28%				
3RD QUARTER	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH TEMPERATURE: 87 F HUMIDITY: 28% NOTES: ONLY VISIBLE HERBACEOUS PL				
3RD QUARTER	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH TEMPERATURE: 87 F HUMIDITY: 28% NOTES: ONLY VISIBLE HERBACEOUS PL WILDLIFE PRESENT:	ANTS ARE TUMBLEWEEDS AND			
3RD QUARTER	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH TEMPERATURE: 87 F HUMIDITY: 28% NOTES: ONLY VISIBLE HERBACEOUS PL	ANTS ARE TUMBLEWEEDS AND			
3RD QUARTER	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH TEMPERATURE: 87 F HUMIDITY: 28% NOTES: ONLY VISIBLE HERBACEOUS PL WILDLIFE PRESENT:	ANTS ARE TUMBLEWEEDS ANE SALSOLA TRAGUS.	D JIMSON WEEDS. KANGAROO	D RAT BURROWS DO NOT AI	PPERAR TO BE ACTIVE.
3RD QUARTER	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH TEMPERATURE: 87 F HUMIDITY: 28% NOTES: ONLY VISIBLE HERBACEOUS PL WILDLIFE PRESENT:	ANTS ARE TUMBLEWEEDS AND			
3RD QUARTER	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH TEMPERATURE: 87 F HUMIDITY: 28% NOTES: ONLY VISIBLE HERBACEOUS PL WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII,	ANTS ARE TUMBLEWEEDS ANE SALSOLA TRAGUS.	D JIMSON WEEDS. KANGAROO	D RAT BURROWS DO NOT AI	PPERAR TO BE ACTIVE.
	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH TEMPERATURE: 87 F HUMIDITY: 28% NOTES: ONLY VISIBLE HERBACEOUS PL WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, 5 SURVEY DATE: 11/07/2014 TIME: 11:55 AM MONITOR(S): J. JONES	ANTS ARE TUMBLEWEEDS ANE SALSOLA TRAGUS.	D JIMSON WEEDS. KANGAROO	D RAT BURROWS DO NOT AI	PPERAR TO BE ACTIVE.
	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH TEMPERATURE: 87 F HUMIDITY: 28% NOTES: ONLY VISIBLE HERBACEOUS PL WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, J SURVEY DATE: 11/07/2014 TIME: 11:55 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN	ANTS ARE TUMBLEWEEDS ANE SALSOLA TRAGUS.	D JIMSON WEEDS. KANGAROO	D RAT BURROWS DO NOT AI	PPERAR TO BE ACTIVE.
	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH TEMPERATURE: 87 F HUMIDITY: 28% NOTES: ONLY VISIBLE HERBACEOUS PL WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, 5 SURVEY DATE: 11/07/2014 TIME: 11:55 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW	ANTS ARE TUMBLEWEEDS AND SALSOLA TRAGUS.	D JIMSON WEEDS. KANGAROO	D RAT BURROWS DO NOT AI	PPERAR TO BE ACTIVE.
	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH TEMPERATURE: 87 F HUMIDITY: 28% NOTES: ONLY VISIBLE HERBACEOUS PL WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, 5 SURVEY DATE: 11/07/2014 TIME: 11:55 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 2.8MPH	ANTS ARE TUMBLEWEEDS AND SALSOLA TRAGUS.	D JIMSON WEEDS. KANGAROO	D RAT BURROWS DO NOT AI	PPERAR TO BE ACTIVE.
	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH TEMPERATURE: 87 F HUMIDITY: 28% NOTES: ONLY VISIBLE HERBACEOUS PL WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTIL, 3 SURVEY DATE: 11/07/2014 TIME: 11:55 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 2.8MPH TEMPERATURE: 73 F	ANTS ARE TUMBLEWEEDS AND SALSOLA TRAGUS.	D JIMSON WEEDS. KANGAROO	D RAT BURROWS DO NOT AI	PPERAR TO BE ACTIVE.
	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH TEMPERATURE: 87 F HUMIDITY: 28% NOTES: ONLY VISIBLE HERBACEOUS PL WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, 5 SURVEY DATE: 11/07/2014 TIME: 11:55 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 2.8MPH	ANTS ARE TUMBLEWEEDS AND SALSOLA TRAGUS.	D JIMSON WEEDS. KANGAROO	D RAT BURROWS DO NOT AI	PPERAR TO BE ACTIVE.
	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH TEMPERATURE: 87 F HUMIDITY: 28% NOTES: ONLY VISIBLE HERBACEOUS PL WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, 3 SURVEY DATE: 11/07/2014 TIME: 11:55 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 2.8MPH TEMPERATURE: 73 F HUMIDITY: 47%	ANTS ARE TUMBLEWEEDS AND SALSOLA TRAGUS.	D JIMSON WEEDS. KANGAROO	D RAT BURROWS DO NOT AI	PPERAR TO BE ACTIVE.
4TH QUARTER 3RD QUARTER	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH TEMPERATURE: 87 F HUMIDITY: 28% NOTES: ONLY VISIBLE HERBACEOUS PL WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, SURVEY DATE: 11/07/2014 TIME: 11:55 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND VELOCITY: 2.8MPH TEMPERATURE: 73 F HUMIDITY: 47% NOTES: GROUND IS BARE, WITH WIDEL	ANTS ARE TUMBLEWEEDS AND SALSOLA TRAGUS.	D JIMSON WEEDS. KANGAROO	D RAT BURROWS DO NOT AI	PPERAR TO BE ACTIVE.
	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH TEMPERATURE: 87 F HUMIDITY: 28% NOTES: ONLY VISIBLE HERBACEOUS PL WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, 7 SURVEY DATE: 11/07/2014 TIME: 11:55 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND DIRECTION: NW WIND VELOCITY: 2.8MPH TEMPERATURE: 73 F HUMIDITY: 47% NOTES: GROUND IS BARE, WITH WIDEL WILDLIFE PRESENT:	ANTS ARE TUMBLEWEEDS AND SALSOLA TRAGUS. NORTH	D JIMSON WEEDS. KANGAROO	D RAT BURROWS DO NOT AI	PPERAR TO BE ACTIVE.
	TIME: 10:55 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 1.45 IN WIND DIRECTION: N WIND VELOCITY: 10 MPH TEMPERATURE: 87 F HUMIDITY: 28% NOTES: ONLY VISIBLE HERBACEOUS PL WILDLIFE PRESENT: PLANTS PRESENT: DATURA WRIGHTII, SURVEY DATE: 11/07/2014 TIME: 11:55 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.65 IN WIND VELOCITY: 2.8MPH TEMPERATURE: 73 F HUMIDITY: 47% NOTES: GROUND IS BARE, WITH WIDEL	ANTS ARE TUMBLEWEEDS AND SALSOLA TRAGUS. NORTH	D JIMSON WEEDS. KANGAROO	D RAT BURROWS DO NOT AI	PPERAR TO BE ACTIVE.



LOCATION INFORMATION LOCATION: OMS-8 SECTION: 16 TOWNSHIP/RANGE: 30S/25E COORDINATES (CA5-NAD83): 6173009, 2307209 NUMBER OF ACRES: 40 VEGETATION TYPE: MOSTLY DOMINATED BY ANNUAL GRASSES AND WEEDS/NON-NATIVE PLANTS SITE TYPE: POND BASIN



