## Appendix B

# 2013 Vegetation Monitoring Program Observation Monitoring Sites and Livestock Grazing Summary for the Kern Water Bank



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# 2013 Vegetation Monitoring Program Observation Monitoring Sites and Livestock Grazing Summary for the KERN WATER BANK



SUBMITTED TO:

KernWater Bank Authority

## PREPARED BY:



#### 2013 VEGETATION MONITORING PROGRAM OBSERVATION MONITORING SITES AND LIVESTOCK GRAZING SUMMARY for the KERN WATER BANK

Submitted to:

Kern Water Bank Authority 1620 Mill Rock Way, Suite 500 Bakersfield, CA 93311

Prepared by:

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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 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 2013 rain year (October 1, 2012 - September 30, 2013) for the KWB was approximately 3.13 inches (48% of normal). This marked the second successive below-average rainfall year. However, unlike what was observed during the 2012 rain year (October 1, 2011 - September 30, 2012) that brought very dry and very cold early conditions in November, December, and January that resulted in very little germination of vegetation, the 2013 rain year brought slightly more rain during the early months when plants are growing. More importantly, there were fewer frost days in 2013 so plants that germinated were not killed by frost. This allowed for early germination and growth of plants (Photograph 1); however, 2013 was very dry for the remainder of the year and vegetation did not become excessively dense (Photograph 2). One positive result of this rain pattern was that it contrasted significantly with the pattern in 2012 where a wet March and April resulted in tremendous Russian thistle (*Salsola tragus*) problems. Although Russian thistle growth did occur in 2013, it was much easier to manage and vegetation management including mowing and cattle grazing helped to lessen the impacts of Russian thistle over much of the KWB (Photographs 3 and 4).

Due to the presence of large amounts of standing vegetation present throughout much of the KWB, especially in the recharge areas at the end of the 2012 season, cattle grazing continued on the KWB in most sectors into early 2013. For the first couple of months in 2013, cattle were still mainly eating the prior season's growth. Once herbaceous vegetation was growing in 2013, grazing was monitored to make sure the appropriate level of grazing was occurring. SVB biologists met with the grazer (RCJ Cattle Company) on February 5, 2013 to observe all areas where cattle were grazing and formulate a strategy for adjusting cattle numbers in the coming weeks. This is always a challenging task as it is difficult to predict what the precipitation might be more than a few days into the future.

It was determined that for the areas that were being grazed (i.e., the North, West, Strand, Main, and South Areas), the current grazing levels appeared to be appropriate and no significant changes would likely be needed for several weeks in the Main, West and Strand Areas, as these areas still had abundant rank vegetation present, especially in some of the recharge basins (Photographs 5 and 6). However, cattle would need to be removed in the coming weeks from the North Area and cattle numbers would need to be reduced sharply in the South Area. Photographs 7 - 10 help illustrate conditions in some of the areas at or near the conclusion of the grazing season. Figure 2 illustrates the number of cattle, expressed in Animal Units or AU (an AU is one adult cow and one calf), that were present in an area for each month in 2013.

The last cow was removed from the KWB within the West Area in December 2013. At that time, it was decided that there was no need to continue grazing any of the areas and a "watch and see" strategy would be in place to monitor the precipitation and subsequent growth of vegetation. By the end of March 2014, very little rain had fallen. Only 1.87 inches of rain had fallen and almost no evidence of germination or growth of vegetation could be found. The exceptions were in large portions of the Strand Area and in the South Area. Russian thistle had begun to germinate in sufficient quantity to be of concern that if late rains in April and May were to occur, this plant may flourish similarly to what was observed in 2012. As a result, it was determined that cattle would be turned out in both of these areas in an attempt to try to minimize the growth and maturation of this troublesome weed. At the time of the completion of this report (May 23, 2014), the cattle have definitely grazed heavily on the young Russian thistle plants, and it will be interesting to see how effective this grazing effort is at reducing the growth and seed-set of Russian thistle in 2014.





Photograph 1. Herbaceous vegetation in a dry pond basin on March 28, 2013.



**Photograph 2**. Same area as shown in Photograph 1 on June 25, 2013. Vegetation did not reach excessively high density and heights from a combination of low rainfall and managed cattle grazing.



**Photograph 3**. Heavily infested area with Russian thistle on August 28, 2012. This was a common site in 2012 over much of the KWB.



**Photograph 4**. Same area as shown in Photograph 3 on June 25, 2013. A combination of lower late rains, early cattle grazing, and selected areas of mowing, combined to allow for a much better open habitat over much of the KWB in 2013.

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**Photograph 5**. Cattle grazing in the Strand Area in July 2013. The Strand Aera often experiences some of the densest rank vegetation build up. Cattle will eat the dry remains of many of these plants, helping to open the habitat up for native wildlife.



**Photograph 6**. One of the recharge ponds in the West Area with dense rank vegetation on July 5, 2013. Cattle remained in the West Area throughout the entire season in 2013 in an effort to knock down the dense plants.

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**Photograph 7**. The Strand Area on September 27, 2013 shortly after cattle grazing had concluded for the season.



**Photograph 8**. Pond basin in the Main Area on September 27, 2013. Cattle were removed the following month in October 2013.



**Photograph 9**. South Area on June 25, 2013. Only 14 cows and calves were present and all cattle were removed by the middle of September 2013.



**Photograph 10**. Same area as shown in Photograph 9 on September 27. 2013, just after cattle were removed.







**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 2013.

2013 Vegetation Monitoring Program Observation Monitoring Sites and Livestock Grazing Summary Report for the Kern Water Bank South Valley Biology Consulting LLC

## **ATTACHMENT 1**

Kern Water Bank 2013 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

|             | SURVEY DATE: 03/28/2013   | NORTH                    | EAST                     | SOUTH           | WEST                    |
|-------------|---|--------------------------|--------------------------|-----------------|-------------------------|
| 1ST QUARTER | TIME: 11:48 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.03 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 3 MPH<br>TEMPERATURE: 75 F<br>HUMIDITY: 45%<br>NOTES: DENSE & SHORT STAND OF CRE<br>WILDLIFE PRESENT: CALIFORNIA GROU<br>PLANTS PRESENT: AMSINCKIA MENZIES<br>SALIX GOODDINGII, TYPHA LATIFOLIA | ND SQUIRREL, LOGGERHEAD  | SHIRKE, MOURNING DOVE, N |                 | UTARIUM, RUMEX CRISPUS, |
|             |   | NORTH                    | EAST                     | SOUTH           | WEST                    |
| 2ND QUARTER | SURVEY DATE: 06/25/2013<br>TIME: 11:20 AM<br>MONITOR(S): J. JONES, Z. BRISCO<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: N<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 83 F<br>HUMIDITY: 22%  |                          |                          |                 |                         |
| 7           | NOTES: CALIFORNIA GROUND SQUIRRE<br>WILDLIFE PRESENT: BARN OWL, LOGGE<br>PLANTS PRESENT: DISTICHILIS SPICATA  | RHEAD SHIRKE, MOURNING D | OVE                      |                 | A                       |
| 3RD QUARTER | SURVEY DATE: 09/27/2013<br>TIME: 10:30 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 5 MPH<br>TEMPERATURE: 69 F<br>HUMIDITY: 34%  | NORTH                    | EAST                     | SOUTH           | WEST                    |
| ŝ           | NOTES: KANGAROO RAT BURROWS<br>WILDLIFE PRESENT: CALIFORNIA GROU<br>PLANTS PRESENT: ELEOCHARIS MACRO  |                          |                          | HISMUS ARABICUS |                         |
| 4TH QUARTER | SURVEY DATE: 11/15/2013<br>TIME: 9: 30 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: N<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 61 F<br>HUMIDITY: 50%   | NORTH                    | EAST                     | SOUTH           | WEST                    |
| 4TI         | NOTES: NUMEROUS CALIFORNIA GROU<br>WILDLIFE PRESENT: BLACK PHOEBE, CA<br>PLANTS PRESENT: ELEOCHARIS MACRC   | LIFORNIA GROUND SQUIRREL | , HOUSE FINCH, MOURNING  | DOVE            |                         |



#### 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

|                    | SURVEY DATE: 03/28/2013   | NORTH                                    | EAST                         | SOUTH                     | WEST  |
|--------------------|---|--|------------------------------|---------------------------|---|
|                    | TIME: 12:10 PM  |  | 1                            |                           | and the second |
|                    | MONITOR(S): J. JONES  |  | and the second second        | and the second second     |   |
| H                  | RAINFALL TO DATE: 3.03 IN   | and all all and and a                    |                              |                           |   |
| E                  | WIND DIRECTION: NW  |  | and the second second        | and the second second     |   |
| A                  | WIND VELOCITY: 5 MPH  |  | Contraction of the second    | ANNE -                    |   |
|                    | TEMPERATURE: 76 F   | A  | A State of the second second | SHELL ST                  | A TATI ATA  |
| ST QUARTER         | HUMIDITY: 43%   |  | A COMPANY AND A COMPANY      |                           |   |
| 15                 | NOTES: DITCH BOTTON HAS BEEN REC<br>WILDLIFE PRESENT: CALIFORNIA GROU<br>PLANTS PRESENT: BASSIA HYSSOPIFOI<br>TRAGUS  | JND SQUIRREL, RAVEN                      |                              |                           | IX GOODDINGII, SALSOLA  |
|                    |   | NORTH                                    | EAST                         | SOUTH                     | WEST  |
|                    | SURVEY DATE: 06/25/2013<br>TIME: 10:45 AM   |  | EAST                         | 500111                    | WEST  |
|                    | MONITOR(S): J. JONES, Z. BRISCO   |  |                              |                           | Number Manager a  |
| 2                  | RAINFALL TO DATE: 3.13 IN   | and the second second                    | STORE STORE                  | T T T                     | English States of the states  |
| 2ND QUARTER        | WIND DIRECTION: N   | E E / Mar                                |                              |                           |   |
| AB                 | WIND VELOCITY: 5 MPH  | A A A A A A A A A A A A A A A A A A A    |                              |                           | The second second second  |
|                    | TEMPERATURE: 74 F   |  |                              |                           |   |
|                    | HUMIDITY: 20%   |  |                              |                           | a las a sure  |
| 2N                 | NOTES: TUMBLEWEED DRIFTS IN CANA<br>WILDLIFE PRESENT: NORTHERN MOCK<br>PLANTS PRESENT: BASSIA HYSSOPIFOI  | INGBIRD, RAVEN                           | ICUM, LEYMUS TRITICOIDES,    | SALIX GOODDINGII, SALSOLA | A TRAGUS  |
|                    |   |  |                              |                           |   |
|                    | SUBVEY DATE: 09/27/2013   | NORTH                                    | EAST                         | SOUTH                     | WEST  |
|                    | SURVEY DATE: 09/27/2013<br>TIME: 11:15 AM   | NORTH                                    | EAST                         | SOUTH                     | WEST  |
|                    | SURVEY DATE: 09/27/2013<br>TIME: 11:15 AM<br>MONITOR(S): J. JONES   | NORTH                                    | EAST                         | SOUTH                     | WEST  |
| R                  | TIME: 11:15 AM  | NORTH                                    | EAST                         | SOUTH                     | WEST  |
| RTER               | TIME: 11:15 AM<br>MONITOR(S): J. JONES  | NORTH                                    | EAST                         | SOUTH                     | WEST  |
| ARTER              | TIME: 11:15 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN   | NORTH                                    | EAST                         | SOUTH                     | WEST  |
| QUARTER            | TIME: 11:15 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 10 MPH<br>TEMPERATURE: 72 F   | NORTH                                    | EAST                         | SOUTH                     | WEST  |
| D QUARTER          | TIME: 11:15 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 10 MPH  | NORTH                                    | EAST                         | SOUTH                     | WEST  |
| <b>3RD QUARTER</b> | TIME: 11:15 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 10 MPH<br>TEMPERATURE: 72 F<br>HUMIDITY: 27%<br>NOTES: DITCH FILLED WITH TUMBLEWI<br>WILDLIFE PRESENT: MOURNING DOVE  | EED DRIFTS                               |                              |                           |   |
| 3RD QUARTER        | TIME: 11:15 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 10 MPH<br>TEMPERATURE: 72 F<br>HUMIDITY: 27%<br>NOTES: DITCH FILLED WITH TUMBLEWI   | EED DRIFTS                               |                              |                           |   |
| 3RD QUARTER        | TIME: 11:15 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 10 MPH<br>TEMPERATURE: 72 F<br>HUMIDITY: 27%<br>NOTES: DITCH FILLED WITH TUMBLEWI<br>WILDLIFE PRESENT: MOURNING DOVE<br>PLANTS PRESENT: BASSIA HYSSOPIFOI   | EED DRIFTS                               |                              |                           |   |
| 3RD QUARTER        | TIME: 11:15 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 10 MPH<br>TEMPERATURE: 72 F<br>HUMIDITY: 27%<br>NOTES: DITCH FILLED WITH TUMBLEW<br>WILDLIFE PRESENT: MOURNING DOVE<br>PLANTS PRESENT: BASSIA HYSSOPIFOI<br>SALIX GOODDINGII, SALSOLA TRAGUS  | EED DRIFTS<br>LIA, ELEOCHARIS MACROSTACH | HYA, HELIOTROPIUM CURASS     | AVICUM, HIRSCHFELDIA INCA | ANA, LEYMUS TRITICOIDES,  |
| 3RD QUARTER        | TIME: 11:15 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 10 MPH<br>TEMPERATURE: 72 F<br>HUMIDITY: 27%<br>NOTES: DITCH FILLED WITH TUMBLEWI<br>WILDLIFE PRESENT: MOURNING DOVE<br>PLANTS PRESENT: BASSIA HYSSOPIFOI<br>SALIX GOODDINGII, SALSOLA TRAGUS   | EED DRIFTS<br>LIA, ELEOCHARIS MACROSTACH | HYA, HELIOTROPIUM CURASS     | AVICUM, HIRSCHFELDIA INCA | ANA, LEYMUS TRITICOIDES,  |
| R 3RD              | TIME: 11:15 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 10 MPH<br>TEMPERATURE: 72 F<br>HUMIDITY: 27%<br>NOTES: DITCH FILLED WITH TUMBLEWI<br>WILDLIFE PRESENT: MOURNING DOVE<br>PLANTS PRESENT: BASSIA HYSSOPIFOI<br>SALIX GOODDINGII, SALSOLA TRAGUS<br>SURVEY DATE: 11/15/2013<br>TIME: 10:25 AM  | EED DRIFTS<br>LIA, ELEOCHARIS MACROSTACH | HYA, HELIOTROPIUM CURASS     | AVICUM, HIRSCHFELDIA INCA | ANA, LEYMUS TRITICOIDES,  |
| R 3RD              | TIME: 11:15 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 10 MPH<br>TEMPERATURE: 72 F<br>HUMIDITY: 27%<br>NOTES: DITCH FILLED WITH TUMBLEWI<br>WILDLIFE PRESENT: MOURNING DOVE<br>PLANTS PRESENT: MOURNING DOVE<br>PLANTS PRESENT: BASSIA HYSSOPIFOI<br>SALIX GOODDINGII, SALSOLA TRAGUS<br>SURVEY DATE: 11/15/2013<br>TIME: 10:25 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: NW  | EED DRIFTS<br>LIA, ELEOCHARIS MACROSTACH | HYA, HELIOTROPIUM CURASS     | AVICUM, HIRSCHFELDIA INCA | ANA, LEYMUS TRITICOIDES,  |
| R 3RD              | TIME: 11:15 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 10 MPH<br>TEMPERATURE: 72 F<br>HUMIDITY: 27%<br>NOTES: DITCH FILLED WITH TUMBLEWI<br>WILDLIFE PRESENT: MOURNING DOVE<br>PLANTS PRESENT: BASSIA HYSSOPIFOI<br>SALIX GOODDINGII, SALSOLA TRAGUS<br>SURVEY DATE: 11/15/2013<br>TIME: 10:25 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 5 MPH   | EED DRIFTS<br>LIA, ELEOCHARIS MACROSTACH | HYA, HELIOTROPIUM CURASS     | AVICUM, HIRSCHFELDIA INCA | ANA, LEYMUS TRITICOIDES,  |
| R 3RD              | TIME: 11:15 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 10 MPH<br>TEMPERATURE: 72 F<br>HUMIDITY: 27%<br>NOTES: DITCH FILLED WITH TUMBLEWI<br>WILDLIFE PRESENT: MOURNING DOVE<br>PLANTS PRESENT: BASSIA HYSSOPIFOI<br>SALIX GOODDINGII, SALSOLA TRAGUS<br>SURVEY DATE: 11/15/2013<br>TIME: 10:25 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 5 MPH<br>TEMPERATURE:61 F   | EED DRIFTS<br>LIA, ELEOCHARIS MACROSTACH | HYA, HELIOTROPIUM CURASS     | AVICUM, HIRSCHFELDIA INCA | ANA, LEYMUS TRITICOIDES,  |
| R 3RD              | TIME: 11:15 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 10 MPH<br>TEMPERATURE: 72 F<br>HUMIDITY: 27%<br>NOTES: DITCH FILLED WITH TUMBLEWI<br>WILDLIFE PRESENT: MOURNING DOVE<br>PLANTS PRESENT: BASSIA HYSSOPIFOI<br>SALIX GOODDINGII, SALSOLA TRAGUS<br>SURVEY DATE: 11/15/2013<br>TIME: 10:25 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 5 MPH   | EED DRIFTS<br>LIA, ELEOCHARIS MACROSTACH | HYA, HELIOTROPIUM CURASS     | AVICUM, HIRSCHFELDIA INCA | ANA, LEYMUS TRITICOIDES,  |
| 3RD                | TIME: 11:15 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 10 MPH<br>TEMPERATURE: 72 F<br>HUMIDITY: 27%<br>NOTES: DITCH FILLED WITH TUMBLEWI<br>WILDLIFE PRESENT: MOURNING DOVE<br>PLANTS PRESENT: BASSIA HYSSOPIFOI<br>SALIX GOODDINGII, SALSOLA TRAGUS<br>SURVEY DATE: 11/15/2013<br>TIME: 10:25 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 5 MPH<br>TEMPERATURE:61 F<br>HUMIDITY: 48%  | EED DRIFTS<br>LIA, ELEOCHARIS MACROSTACH | HYA, HELIOTROPIUM CURASS     | AVICUM, HIRSCHFELDIA INCA | ANA, LEYMUS TRITICOIDES,  |
| R 3RD              | TIME: 11:15 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 10 MPH<br>TEMPERATURE: 72 F<br>HUMIDITY: 27%<br>NOTES: DITCH FILLED WITH TUMBLEWI<br>WILDLIFE PRESENT: MOURNING DOVE<br>PLANTS PRESENT: BASSIA HYSSOPIFOI<br>SALIX GOODDINGII, SALSOLA TRAGUS<br>SURVEY DATE: 11/15/2013<br>TIME: 10:25 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND VELOCITY: 5 MPH<br>TEMPERATURE:61 F<br>HUMIDITY: 48%<br>NOTES: DITCH IS FILLED WITH TUMBLE  | EED DRIFTS<br>LIA, ELEOCHARIS MACROSTACH | HYA, HELIOTROPIUM CURASS     | AVICUM, HIRSCHFELDIA INCA | ANA, LEYMUS TRITICOIDES,  |
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#### 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

|   | SURVEY DATE: 03/28/2013   | NORTH  | EAST   | SOUTH  | WEST  |
|---|---|--|--|--|---|
|   | TIME: 12:00 PM  |  |  | +  |   |
|   | MONITOR(S): J. JONES  |  | and the second   | al a state of the  |   |
| L C C C C C C C C C C C C C C C C C C C | RAINFALL TO DATE: 3.03 IN   | any a first the grant  | A THE AT A CARD  | Contraction of the State of the | and the second se   |
| E                                       | WIND DIRECTION: W   |  | Man He was to a  | A DECEMBER OF A  | the second se   |
| AF                                      | WIND VELOCITY: 5 MPH  |  |  |  | The second second second  |
|   | TEMPERATURE: 76 F   | and the second s |  |  | A STATE OF STATE  |
| ST QUARTER                              | HUMIDITY: 42%   | - Marine   |  |  |   |
| 1S                                      | NOTES: NO NEW TUMBLEWEED AT TH  |  |  |  |   |
|   | WILDLIFE PRESENT: ROADRUNNER  | IIS TIME, MAINT OLD TOMBLEWE   |  | ING, I EW SCALLERED RANG   |   |
|   | PLANTS PRESENT: BROMUS RUBENS,  | ERODIUM CICUTARIUM, HIRSCH   | FELDIA INCANA, HORDEUM   | MURINUM SSP. LEPORINUM,  | , LASTHENIA CALIFORNICA,  |
|   | SCHISMUS ARABICUS, SISYMBRIUM IF  | RIO  |  |  |   |
|   |   | NODTU  | FACT   | COLITIL  | WECT  |
|   | SURVEY DATE: 06/25/2013   | NORTH  | EAST   | SOUTH  | WEST  |
|   | TIME: 10:30 AM  |  |  |  |   |
| ~                                       | MONITOR(S): J. JONES, Z. BRISCO   |  |  |  |   |
| Ē                                       | RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: N  | and the second sec   | and and a stranger and the state of the stat | Ŧ  | · · · · ·   |
| R.                                      | WIND DIRECTION: N<br>WIND VELOCITY: 5 MPH   |  |  | many with my many  | A second |
| Π<br>1                                  | TEMPERATURE: 73 F   | and the second se  | and the second se  | The second se  |   |
| Ø                                       | HUMIDITY: 20%   | and the second second  |  |  |   |
| 2ND QUARTER                             |   | ADDRESS STATISTICS AND ADDRESS AND ADDR  |  |  |   |
| 2                                       | NOTES: DEAD TUMBLEWEED DRIFTS.  | SITE HAS BEEN MOWED SINCE L  | AST QUARTER. KANGAROO F  | RAT BURROWS PRESENT  |   |
|   | WILDLIFE PRESENT:   |  |  |  |   |
|   | PLANTS PRESENT: BROMUS RUBENS,  | SCHISMUS ARABICUS  |  |  |   |
|   |   |  |  |  |   |
|   |   | NODTU  |  |  | 1   |
|   | SURVEY DATE: 09/27/2013   | NORTH  | EAST   | SOUTH  | WEST  |
|   | SURVEY DATE: 09/27/2013<br>TIME: 11:00 AM   | NORTH  | EAST   | SOUTH  | WEST  |
|   | SURVEY DATE: 09/27/2013<br>TIME: 11:00 AM<br>MONITOR(S): J. JONES   | NORTH  | EAST   | SOUTH  | WEST  |
| R                                       | TIME: 11:00 AM  | NORTH  | EASI   | SOUTH  | WEST  |
| RTER                                    | TIME: 11:00 AM<br>MONITOR(S): J. JONES  | NORTH  | EASI   | SOUTH  | WEST  |
| IARTER                                  | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN   | NORTH  | EASI   | SOUTH  | WEST  |
| QUARTER                                 | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 70 F  | NORTH  | EASI   | SOUTH  | WEST  |
| D QUARTER                               | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH   | NORTH  | EASI   | SOUTH  | WEST  |
| 3RD QUARTER                             | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 70 F<br>HUMIDITY: 29%   |  |  | SOUTH  | WEST  |
| <b>3RD QUARTER</b>                      | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 70 F<br>HUMIDITY: 29%<br>NOTES: MOSTLY SMALL, DRY SCHISM  | US AND BARE GROUND. SPARSE   | KANGAROO RAT BURROWS   | SOUTH  | WEST  |
| 3RD QUARTER                             | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 70 F<br>HUMIDITY: 29%   | US AND BARE GROUND. SPARSE<br>MOURNING DOVE, SIDE-BLOTCH   | KANGAROO RAT BURROWS<br>ED LIZARD  |  |   |
| 3RD QUARTER                             | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 70 F<br>HUMIDITY: 29%<br>NOTES: MOSTLY SMALL, DRY SCHISM<br>WILDLIFE PRESENT: BLACK PHOEBE,   | US AND BARE GROUND. SPARSE<br>MOURNING DOVE, SIDE-BLOTCH   | KANGAROO RAT BURROWS<br>ED LIZARD  |  |   |
| 3RD QUARTER                             | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 70 F<br>HUMIDITY: 29%<br>NOTES: MOSTLY SMALL, DRY SCHISM<br>WILDLIFE PRESENT: BLACK PHOEBE,<br>PLANTS PRESENT: ERODIUM CICUTAN  | US AND BARE GROUND. SPARSE<br>MOURNING DOVE, SIDE-BLOTCH<br>RIUM, HIRSCHFELDIA INCANA, H   | KANGAROO RAT BURROWS<br>ED LIZARD<br>IORDEUM MURINUM SSP. LE   | PORINUM, SCHISMUS ARABI  | cus   |
| 3RD QUARTER                             | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 70 F<br>HUMIDITY: 29%<br>NOTES: MOSTLY SMALL, DRY SCHISM<br>WILDLIFE PRESENT: BLACK PHOEBE,<br>PLANTS PRESENT: ERODIUM CICUTAL<br>SURVEY DATE: 11/15/2013   | US AND BARE GROUND. SPARSE<br>MOURNING DOVE, SIDE-BLOTCH   | KANGAROO RAT BURROWS<br>ED LIZARD  |  |   |
| 3RD QUARTER                             | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 70 F<br>HUMIDITY: 29%<br>NOTES: MOSTLY SMALL, DRY SCHISM<br>WILDLIFE PRESENT: BLACK PHOEBE, J<br>PLANTS PRESENT: ERODIUM CICUTAI  | US AND BARE GROUND. SPARSE<br>MOURNING DOVE, SIDE-BLOTCH<br>RIUM, HIRSCHFELDIA INCANA, H   | KANGAROO RAT BURROWS<br>ED LIZARD<br>IORDEUM MURINUM SSP. LE   | PORINUM, SCHISMUS ARABI  | cus   |
| R 3RD QUARTER                           | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 70 F<br>HUMIDITY: 29%<br>NOTES: MOSTLY SMALL, DRY SCHISM<br>WILDLIFE PRESENT: BLACK PHOEBE, J<br>PLANTS PRESENT: ERODIUM CICUTAI<br>SURVEY DATE: 11/15/2013<br>TIME: 10:10 AM<br>MONITOR(S): J. JONES   | US AND BARE GROUND. SPARSE<br>MOURNING DOVE, SIDE-BLOTCH<br>RIUM, HIRSCHFELDIA INCANA, H   | KANGAROO RAT BURROWS<br>ED LIZARD<br>IORDEUM MURINUM SSP. LE   | PORINUM, SCHISMUS ARABI  | cus   |
| R 3RD                                   | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 70 F<br>HUMIDITY: 29%<br>NOTES: MOSTLY SMALL, DRY SCHISM<br>WILDLIFE PRESENT: BLACK PHOEBE,<br>PLANTS PRESENT: ERODIUM CICUTAI<br>SURVEY DATE: 11/15/2013<br>TIME: 10:10 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN  | US AND BARE GROUND. SPARSE<br>MOURNING DOVE, SIDE-BLOTCH<br>RIUM, HIRSCHFELDIA INCANA, H   | KANGAROO RAT BURROWS<br>ED LIZARD<br>IORDEUM MURINUM SSP. LE   | PORINUM, SCHISMUS ARABI  | cus   |
| R 3RD                                   | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 70 F<br>HUMIDITY: 29%<br>NOTES: MOSTLY SMALL, DRY SCHISM<br>WILDLIFE PRESENT: BLACK PHOEBE,<br>PLANTS PRESENT: ERODIUM CICUTAI<br>SURVEY DATE: 11/15/2013<br>TIME: 10:10 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: N   | US AND BARE GROUND. SPARSE<br>MOURNING DOVE, SIDE-BLOTCH<br>RIUM, HIRSCHFELDIA INCANA, H   | KANGAROO RAT BURROWS<br>ED LIZARD<br>IORDEUM MURINUM SSP. LE   | PORINUM, SCHISMUS ARABI  | cus   |
| R 3RD                                   | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 70 F<br>HUMIDITY: 29%<br>NOTES: MOSTLY SMALL, DRY SCHISM<br>WILDLIFE PRESENT: BLACK PHOEBE,<br>PLANTS PRESENT: ERODIUM CICUTAI<br>SURVEY DATE: 11/15/2013<br>TIME: 10:10 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN  | US AND BARE GROUND. SPARSE<br>MOURNING DOVE, SIDE-BLOTCH<br>RIUM, HIRSCHFELDIA INCANA, H   | KANGAROO RAT BURROWS<br>ED LIZARD<br>IORDEUM MURINUM SSP. LE   | PORINUM, SCHISMUS ARABI  | cus   |
| R 3RD                                   | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 70 F<br>HUMIDITY: 29%<br>NOTES: MOSTLY SMALL, DRY SCHISM<br>WILDLIFE PRESENT: BLACK PHOEBE,<br>PLANTS PRESENT: BLACK PHOEBE,<br>PLANTS PRESENT: ERODIUM CICUTAI<br>SURVEY DATE: 11/15/2013<br>TIME: 10:10 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: N<br>WIND VELOCITY: 5 MPH  | US AND BARE GROUND. SPARSE<br>MOURNING DOVE, SIDE-BLOTCH<br>RIUM, HIRSCHFELDIA INCANA, H   | KANGAROO RAT BURROWS<br>ED LIZARD<br>IORDEUM MURINUM SSP. LE   | PORINUM, SCHISMUS ARABI  | cus   |
| R 3RD                                   | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 70 F<br>HUMIDITY: 29%<br>NOTES: MOSTLY SMALL, DRY SCHISM<br>WILDLIFE PRESENT: BLACK PHOEBE,<br>PLANTS PRESENT: BLACK PHOEBE,<br>PLANTS PRESENT: ERODIUM CICUTAI<br>SURVEY DATE: 11/15/2013<br>TIME: 10:10 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: N<br>WIND VELOCITY: 5 MPH<br>TEMPERATURE: 68 F<br>HUMIDITY: 40%  | US AND BARE GROUND. SPARSE<br>MOURNING DOVE, SIDE-BLOTCH<br>RIUM, HIRSCHFELDIA INCANA, H   | KANGAROO RAT BURROWS<br>ED LIZARD<br>IORDEUM MURINUM SSP. LE<br>EAST   | PORINUM, SCHISMUS ARABI  | cus   |
| 3RD                                     | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 70 F<br>HUMIDITY: 29%<br>NOTES: MOSTLY SMALL, DRY SCHISM<br>WILDLIFE PRESENT: BLACK PHOEBE,<br>PLANTS PRESENT: BLACK PHOEBE,<br>PLANTS PRESENT: ERODIUM CICUTAI<br>SURVEY DATE: 11/15/2013<br>TIME: 10:10 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: N<br>WIND DIRECTION: N<br>WIND VELOCITY: 5 MPH<br>TEMPERATURE: 68 F<br>HUMIDITY: 40%<br>NOTES: DEAD TUMBLEWEEDS. CHOPP     | US AND BARE GROUND. SPARSE<br>MOURNING DOVE, SIDE-BLOTCH<br>RIUM, HIRSCHFELDIA INCANA, H   | KANGAROO RAT BURROWS<br>ED LIZARD<br>IORDEUM MURINUM SSP. LE<br>EAST   | PORINUM, SCHISMUS ARABI  | cus   |
| R 3RD                                   | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 70 F<br>HUMIDITY: 29%<br>NOTES: MOSTLY SMALL, DRY SCHISM<br>WILDLIFE PRESENT: BLACK PHOEBE, I<br>PLANTS PRESENT: BLACK PHOEBE, I<br>PLANTS PRESENT: ERODIUM CICUTAI<br>SURVEY DATE: 11/15/2013<br>TIME: 10:10 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: N<br>WIND DIRECTION: N<br>WIND VELOCITY: 5 MPH<br>TEMPERATURE: 68 F<br>HUMIDITY: 40%<br>NOTES: DEAD TUMBLEWEEDS. CHOPI | US AND BARE GROUND. SPARSE<br>MOURNING DOVE, SIDE-BLOTCH<br>RIUM, HIRSCHFELDIA INCANA, H   | KANGAROO RAT BURROWS<br>ED LIZARD<br>IORDEUM MURINUM SSP. LE<br>EAST   | PORINUM, SCHISMUS ARABI  | cus   |
| R 3RD                                   | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 70 F<br>HUMIDITY: 29%<br>NOTES: MOSTLY SMALL, DRY SCHISM<br>WILDLIFE PRESENT: BLACK PHOEBE,<br>PLANTS PRESENT: BLACK PHOEBE,<br>PLANTS PRESENT: ERODIUM CICUTAI<br>SURVEY DATE: 11/15/2013<br>TIME: 10:10 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: N<br>WIND DIRECTION: N<br>WIND VELOCITY: 5 MPH<br>TEMPERATURE: 68 F<br>HUMIDITY: 40%<br>NOTES: DEAD TUMBLEWEEDS. CHOPP     | US AND BARE GROUND. SPARSE<br>MOURNING DOVE, SIDE-BLOTCH<br>RIUM, HIRSCHFELDIA INCANA, H   | KANGAROO RAT BURROWS<br>ED LIZARD<br>IORDEUM MURINUM SSP. LE<br>EAST   | PORINUM, SCHISMUS ARABI  | cus   |
| R 3RD                                   | TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 70 F<br>HUMIDITY: 29%<br>NOTES: MOSTLY SMALL, DRY SCHISM<br>WILDLIFE PRESENT: BLACK PHOEBE, I<br>PLANTS PRESENT: BLACK PHOEBE, I<br>PLANTS PRESENT: ERODIUM CICUTAI<br>SURVEY DATE: 11/15/2013<br>TIME: 10:10 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: N<br>WIND DIRECTION: N<br>WIND VELOCITY: 5 MPH<br>TEMPERATURE: 68 F<br>HUMIDITY: 40%<br>NOTES: DEAD TUMBLEWEEDS. CHOPI | US AND BARE GROUND. SPARSE<br>MOURNING DOVE, SIDE-BLOTCH<br>RIUM, HIRSCHFELDIA INCANA, H   | KANGAROO RAT BURROWS<br>ED LIZARD<br>IORDEUM MURINUM SSP. LE<br>EAST   | PORINUM, SCHISMUS ARABI  | cus   |



#### 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

| 1ST QUARTER | SURVEY DATE: 03/28/2013<br>TIME: 11:30 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.03 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 5 MPH<br>TEMPERATURE: 75 F<br>HUMIDITY: 46%<br>NOTES: NUMEROUS SMALL TUMBLEWE | NORTH            | EAST                      | SOUTH                   | WEST                |
|-------------|--|------------------|---------------------------|-------------------------|---------------------|
|             | WILDLIFE PRESENT: RAVENS<br>PLANTS PRESENT: AMSINCKIA MENZIE:<br>RUMEX CRISPUS, SALSOLA TRAGUS, SIS  |                  | M CICUTARIUM, HIRSCHFELDI | A INCANA, HORDEUM MURIN | IUM SSP. LEPORINUM, |
| 2ND QUARTER | SURVEY DATE: 06/25/2013<br>TIME: 11:35 AM<br>MONITOR(S): J. JONES, Z. BRISCO<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: N<br>WIND VELOCITY: 7 MPH<br>TEMPERATURE: 84 F<br>HUMIDITY: 18%                         | NORTH            | EAST                      | SOUTH                   | WEST                |
| 2N          | NOTES: SITE IS MOWED. VERY LITTLE VE<br>WILDLIFE PRESENT: MOURNING DOVE,<br>PLANTS PRESENT: HELIOTROPIUM CUR   | WESTERN KINGBIRD | N .                       |                         |                     |
| 3RD QUARTER | SURVEY DATE: 09/27/2013<br>TIME: 12:05 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 5 MPH<br>TEMPERATURE: 73 F<br>HUMIDITY: 27%                                   | NORTH            | EAST                      | SOUTH                   | WEST                |
| 3RI         | NOTES: MOSTLY BARE GROUND FROM<br>WILDLIFE PRESENT:<br>PLANTS PRESENT: BASSIA HYSSPOIFOL   |                  | ICUM, SALSOLA TRAGUS      |                         |                     |
| 4TH QUARTER | SURVEY DATE: 11/15/2013<br>TIME: 11:00 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: N/A<br>WIND VELOCITY: 0 MPH<br>TEMPERATURE: 64 F<br>HUMIDITY: 42%                                  | NORTH            | EAST                      | SOUTH                   | WEST                |
| 4Th         | NOTES: SMALL TUMBLEWEED PLANTS /<br>WILDLIFE PRESENT:<br>PLANTS PRESENT: BROMUS RUBENS, H  |                  |                           |                         |                     |



#### 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: 03/28/2013  | NORTH  | EAST                                       | SOUTH  | WEST   |
|--------------------|--|--|--|--|--|
|                    | TIME: 11:15 AM   |  |  |  |  |
|                    | MONITOR(S): J. JONES   |  |  |  |  |
| <u>~</u>           | RAINFALL TO DATE: 3.03 IN  |  |  |  |  |
|                    | WIND DIRECTION: NW   | a manufaction  | States and the second second second second | and a second sec |  |
|                    | WIND VELOCITY: 3 MPH   |  | A CONTRACTOR                               | State State  | and the second s |
| A                  | TEMPERATURE: 73 F  | Median   |  | and the second second  |  |
| ð                  | HUMIDITY: 46%  | and the second sec | SUMPLY AND STREET                          |  | and the second   |
| ST QUARTER         | 10MiD11.40%  |  | The second second                          |  |  |
| 14                 | NOTES: SPARSE COVER OF HERBACEO  | US PLANTS WITH LAST SEASON   | N'S TUMBI EWEED                            |  |  |
|                    | WILDLIFE PRESENT: BLACK-TAILED JAG   |  |  |  |  |
|                    | PLANTS PRESENT: AMSINCKIA MENZIE   | ESII, BROMUS RUBENS, ERODIU  | M CICUTARIUM, HIRSCHFELDI                  | A INCANA, SALSOLA TRAGU  | IS, SCHISMUS ARABICUS  |
|                    |  |  |  |  |  |
|                    |  |  |  |  |  |
|                    | SURVEY DATE: 06/25/2013  | NORTH  | EAST                                       | SOUTH  | WEST   |
|                    | TIME: 11:50 AM   |  |  |  |  |
|                    | MONITOR(S): J. JONES, Z. BRISCO  |  |  |  |  |
| E E                | RAINFALL TO DATE: 3.13 IN  |  |  |  |  |
| L L                | WIND DIRECTION: N  | In the second  |  |  | Charles and the second se   |
| A                  | WIND VELOCITY: 5 MPH   |  |  | -  |  |
|                    | TEMPERATURE: 86 F  |  | and the second second                      | a and the second second  |  |
| ŏ                  | HUMIDITY: 18%  |  |  |  |  |
| 2ND QUARTER        |  |  |  |  |  |
|                    | NOTES: SEVERAL KANGAROO RAT BUR  | ROWS. OLD TUMBLEWEED DRI   | IFTS SCATTERED ABOUT                       |  |  |
|                    | WILDLIFE PRESENT:  |  |  |  |  |
|                    | PLANTS PRESENT: AMSINCKIA MENZIE   | ESII, HIRSCHFELDIA INCANA, SA  | ALSOLA TRAGUS, SCHISMUS AF                 | RABICUS  |  |
|                    |  |  |  |  |  |
|                    |  | NORTH  |  |  | •  |
|                    | SURVEY DATE: 09/27/2013  | NORTH  | EAST                                       | SOUTH  | WEST   |
|                    | SURVEY DATE: 09/27/2013<br>TIME: 12:30 PM  | NORTH  | EAST                                       | SOUTH  | WEST   |
|                    | TIME: 12:30 PM   | NORTH  | EAST                                       | SOUTH  | WEST   |
| R                  | TIME: 12:30 PM<br>MONITOR(S): J. JONES   | NORTH  | EAST                                       | SOUTH  | WEST   |
| TER                | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN  | NORTH  | EAST                                       | SOUTH  | WEST   |
| ARTER              | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW  | NORTH  | EAST                                       | SOUTH  | WEST   |
| UARTER             | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH  | NORTH  | EAST                                       | SOUTH  | WEST   |
| QUARTER            | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH<br>TEMPERATURE: 75 F   | NORTH  | EAST                                       | SOUTH  | WEST   |
| RD QUARTER         | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH  | NORTH  | EAST                                       | SOUTH  | WEST   |
| <b>3RD QUARTER</b> | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH<br>TEMPERATURE: 75 F   | 1000 - 2000<br>1000 - 2000   | EAST                                       | SOUTH  | WEST   |
| 3RD QUARTER        | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH<br>TEMPERATURE: 75 F<br>HUMIDITY: 25%<br>NOTES: SCATTERED KANGAROO RAT B<br>WILDLIFE PRESENT: AMERICAN KESTR   | URROWS<br>EL   |  | SOUTH  | WEST   |
| 3RD QUARTER        | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH<br>TEMPERATURE: 75 F<br>HUMIDITY: 25%<br>NOTES: SCATTERED KANGAROO RAT B   | URROWS<br>EL   |  | SOUTH  | WEST   |
| 3RD QUARTER        | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH<br>TEMPERATURE: 75 F<br>HUMIDITY: 25%<br>NOTES: SCATTERED KANGAROO RAT B<br>WILDLIFE PRESENT: AMERICAN KESTR   | URROWS<br>EL   |  | SOUTH  | WEST   |
| 3RD QUARTER        | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH<br>TEMPERATURE: 75 F<br>HUMIDITY: 25%<br>NOTES: SCATTERED KANGAROO RAT B<br>WILDLIFE PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMSINCKIA MENZIE   | URROWS<br>EL   |  | SOUTH  | WEST   |
| 3RD QUARTER        | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH<br>TEMPERATURE: 75 F<br>HUMIDITY: 25%<br>NOTES: SCATTERED KANGAROO RAT B<br>WILDLIFE PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>SURVEY DATE: 11/15/2013  | URROWS<br>EL<br>ESII, SALSOLA TRAGUS, SCHISM   | IUS ARABICUS                               |  |  |
| 3RD QUARTER        | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH<br>TEMPERATURE: 75 F<br>HUMIDITY: 25%<br>NOTES: SCATTERED KANGAROO RAT B<br>WILDLIFE PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>SURVEY DATE: 11/15/2013<br>TIME: 11:20 AM  | URROWS<br>EL<br>ESII, SALSOLA TRAGUS, SCHISM   | IUS ARABICUS                               |  |  |
|                    | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH<br>TEMPERATURE: 75 F<br>HUMIDITY: 25%<br>NOTES: SCATTERED KANGAROO RAT B<br>WILDLIFE PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>SURVEY DATE: 11/15/2013<br>TIME: 11:20 AM<br>MONITOR(S): J. JONES  | URROWS<br>EL<br>ESII, SALSOLA TRAGUS, SCHISM   | IUS ARABICUS                               |  |  |
|                    | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH<br>TEMPERATURE: 75 F<br>HUMIDITY: 25%<br>NOTES: SCATTERED KANGAROO RAT B<br>WILDLIFE PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>SURVEY DATE: 11/15/2013<br>TIME: 11:20 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN   | URROWS<br>EL<br>ESII, SALSOLA TRAGUS, SCHISM   | IUS ARABICUS                               |  |  |
|                    | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH<br>TEMPERATURE: 75 F<br>HUMIDITY: 25%<br>NOTES: SCATTERED KANGAROO RAT B<br>WILDLIFE PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>SURVEY DATE: 11/15/2013<br>TIME: 11:20 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: N  | URROWS<br>EL<br>ESII, SALSOLA TRAGUS, SCHISM   | IUS ARABICUS                               |  |  |
|                    | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH<br>TEMPERATURE: 75 F<br>HUMIDITY: 25%<br>NOTES: SCATTERED KANGAROO RAT B<br>WILDLIFE PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>SURVEY DATE: 11/15/2013<br>TIME: 11:20 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: N<br>WIND VELOCITY: 5 MPH  | URROWS<br>EL<br>ESII, SALSOLA TRAGUS, SCHISM   | IUS ARABICUS                               |  |  |
|                    | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH<br>TEMPERATURE: 75 F<br>HUMIDITY: 25%<br>NOTES: SCATTERED KANGAROO RAT B<br>WILDLIFE PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>SURVEY DATE: 11/15/2013<br>TIME: 11:20 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: N<br>WIND VELOCITY: 5 MPH<br>TEMPERATURE: 63 F   | URROWS<br>EL<br>ESII, SALSOLA TRAGUS, SCHISM   | IUS ARABICUS                               |  |  |
|                    | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH<br>TEMPERATURE: 75 F<br>HUMIDITY: 25%<br>NOTES: SCATTERED KANGAROO RAT B<br>WILDLIFE PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>SURVEY DATE: 11/15/2013<br>TIME: 11:20 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: N<br>WIND VELOCITY: 5 MPH  | URROWS<br>EL<br>ESII, SALSOLA TRAGUS, SCHISM   | IUS ARABICUS                               |  |  |
|                    | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH<br>TEMPERATURE: 75 F<br>HUMIDITY: 25%<br>NOTES: SCATTERED KANGAROO RAT B<br>WILDLIFE PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>SURVEY DATE: 11/15/2013<br>TIME: 11:20 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: N<br>WIND VELOCITY: 5 MPH<br>TEMPERATURE: 63 F   | URROWS<br>EL<br>ESII, SALSOLA TRAGUS, SCHISM   | IUS ARABICUS                               |  |  |
|                    | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH<br>TEMPERATURE: 75 F<br>HUMIDITY: 25%<br>NOTES: SCATTERED KANGAROO RAT B<br>WILDLIFE PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>SURVEY DATE: 11/15/2013<br>TIME: 11:20 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: N<br>WIND VELOCITY: 5 MPH<br>TEMPERATURE: 63 F<br>HUMIDITY: 36%<br>NOTES: ACTIVE KANGAROO RAT BURR<br>WILDLIFE PRESENT: RED-TAIL HAWK  | URROWS<br>EL<br>ESII, SALSOLA TRAGUS, SCHISM   | IUS ARABICUS                               |  |  |
|                    | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH<br>TEMPERATURE: 75 F<br>HUMIDITY: 25%<br>NOTES: SCATTERED KANGAROO RAT B<br>WILDLIFE PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND VELOCITY: 5 MPH<br>TEMPERATURE: 63 F<br>HUMIDITY: 36%<br>NOTES: ACTIVE KANGAROO RAT BURR | URROWS<br>EL<br>ESII, SALSOLA TRAGUS, SCHISM   | IUS ARABICUS                               |  |  |
| e e                | TIME: 12:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 6 MPH<br>TEMPERATURE: 75 F<br>HUMIDITY: 25%<br>NOTES: SCATTERED KANGAROO RAT B<br>WILDLIFE PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>PLANTS PRESENT: AMERICAN KESTR<br>SURVEY DATE: 11/15/2013<br>TIME: 11:20 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: N<br>WIND VELOCITY: 5 MPH<br>TEMPERATURE: 63 F<br>HUMIDITY: 36%<br>NOTES: ACTIVE KANGAROO RAT BURR<br>WILDLIFE PRESENT: RED-TAIL HAWK  | URROWS<br>EL<br>ESII, SALSOLA TRAGUS, SCHISM   | IUS ARABICUS                               |  |  |



#### 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

|             |   |                            |                            | <br> |
|-------------|---|----------------------------|----------------------------|------|
| 1ST QUARTER | SURVEY DATE: 03/25/2013<br>TIME: 1:45 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.03 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 10 MPH<br>TEMPERATURE: 82 F<br>HUMIDITY: 28%<br>NOTES: PLANTS & GRASSES ARE SHORT<br>WILDLIFE PRESENT:<br>PLANTS PRESENT: ATRIPLEX POLYCAR<br>CALIFORNICA, LEPIDIUM NITIDUM, PR | PA, BROMUS RUBENS, ERODIUM | I CICUTARIUM, GILIA TRICOL |      |
| 2ND QUARTER | SURVEY DATE: 06/25/2013<br>TIME: 12:30 PM<br>MONITOR(S): J. JONES, Z. BRISCO<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: N<br>WIND VELOCITY: 5 MPH<br>TEMPERATURE: 85 F<br>HUMIDITY: 18%<br>NOTES: SMALL AMOUNT OF KANGARG<br>WILDLIFE PRESENT: MOURNING DOVI<br>PLANTS PRESENT: ATRIPLEX POLYCAR                 | E                          |                            | WEST |
| 3RD QUARTER | SURVEY DATE: 09/27/2013<br>TIME: 1:30 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 3 MPH<br>TEMPERATURE: 78 F<br>HUMIDITY: 23%<br>NOTES: SCATTERED ACTIVE KANGARC<br>WILDLIFE PRESENT: BALCKTAILED JAC<br>PLANTS PRESENT: AMSINCKIA MENZII<br>CUS                  | CKRABBIT, RAVEN            |                            | WEST |
| 4TH QUARTER | SURVEY DATE: 11/15/2013<br>TIME: 12:20 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 10 MPH<br>TEMPERATURE: 64 F<br>HUMIDITY: 34%<br>NOTES: ACTIVE KANGAROO RAT BURRO<br>WILDLIFE PRESENT: LOGGERHEAD SH<br>PLANTS PRESENT: ATRIPLEX POLYCAR                        | IRKE                       |                            |      |

#### 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

|                         |  | NODTU  | EACT   | COLITIL                            | WECT                              |
|-------------------------|--|--|--|------------------------------------|-----------------------------------|
|                         | SURVEY DATE: 03/25/2013  | NORTH  | EAST   | SOUTH                              | WEST                              |
|                         | TIME: 1:05 PM<br>MONITOR(S): J. JONES  | 174  |  |                                    |                                   |
| ~                       | RAINFALL TO DATE: 3.03 IN  |  |  |                                    |                                   |
| ST QUARTER              | WIND DIRECTION: NW   |  | A TRANSPORT OF THE TAX AND |                                    |                                   |
| R                       | WIND VELOCITY: 8 MPH   |  | 1  |                                    | · ·                               |
| ۱ <i>۲</i>              | TEMPERATURE: 83 F  | And the second se  |  | and the second second              |                                   |
|                         | HUMIDITY: 26%  | and the second s | and the second second  |                                    | Carlo Carlos Carlos               |
| S                       |  |  |  |                                    |                                   |
|                         | NOTES: LAST SEASON'S DRIED TUMBLEWED DON   |  | ALL PLANT SPECIES ARE SHORT, LESS T                            | HAN 4-5 INCHES TALL. SEVERAL ACTIV | VE KANGAROO RAT BURROWS           |
|                         | WILDLIFE PRESENT: LOGGERHEAD SHI<br>PLANTS PRESENT: AMSINCKIA MENZIE   |  |  |                                    |                                   |
|                         | ARABICUS   | SII, DIOMOS RODENS, ERODIC   | IN CICOTANION, HONEDOWN  | NONINOW SSI. EEI ONINOW,           | SAESOLA MAGOS, SCHISHIOS          |
|                         |  |  | 1  |                                    |                                   |
|                         | SURVEY DATE: 06/25/2013  | NORTH  | EAST   | SOUTH                              | WEST                              |
|                         |  |  |  |                                    |                                   |
| ~                       | MONITOR(S): J. JONES, Z. BRISCO<br>RAINFALL TO DATE: 3.13 IN   | AT   |  |                                    | T                                 |
| μ                       | WIND DIRECTION: N  |  |  |                                    | La la Nill                        |
| AR                      | WIND VELOCITY: 5 MPH   | Testing of the   | and and a second second  |                                    |                                   |
| N<br>N                  | TEMPERATURE: 86 F  |  | and the second second  |                                    |                                   |
|                         | HUMIDITY: 18%  |  |  | and the second second              |                                   |
| 2ND QUARTER             |  |  |  |                                    |                                   |
|                         | NOTES: KANGAROO RAT BURROWS<br>WILDLIFE PRESENT:   |  |  |                                    |                                   |
|                         | PLANTS PRESENT: HORDEUM MURINU   | M SSP. LEPORINUM, SCHISMU  | S ARABICUS   |                                    |                                   |
|                         |  | ····   |  |                                    |                                   |
|                         |  | NORTH  | EAST   | SOUTH                              |                                   |
|                         |  |  |  |                                    |                                   |
|                         | SURVEY DATE: 09/27/2013  | NORTH  | EAST   | 300111                             | WEST                              |
|                         | TIME: 12:50 PM   |  | EAST   | 30011                              | WEST                              |
| æ                       | TIME: 12:50 PM<br>MONITOR(S): J. JONES   |  | EASI   | 30011                              | WEST                              |
| TER                     | TIME: 12:50 PM   |  | EASI   | 30011                              | WEST                              |
| ARTER                   | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN  |  |  | 30011                              | WEST                              |
| QUARTER                 | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW  |  |  | 30011                              | WEST                              |
| D QUARTER               | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH  |  |  | 30011                              | WEST                              |
| <b>3RD QUARTER</b>      | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 77 F<br>HUMIDITY: 24%  | The second secon |  |                                    |                                   |
| 3RD QUARTER             | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 77 F<br>HUMIDITY: 24%<br>NOTES: SEVERAL ACTIVE KANGAROO RAT BUF  | The second secon |  |                                    |                                   |
| 3RD QUARTER             | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 77 F<br>HUMIDITY: 24%  | RROWS. MOSTLY DRIED SCHISMUS A   | ND BARE GROUND FROM GRAZING                                    |                                    |                                   |
| 3RD QUARTER             | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 77 F<br>HUMIDITY: 24%<br>NOTES: SEVERAL ACTIVE KANGAROO RAT BUF<br>WILDLIFE PRESENT: HORNED LARK   | RROWS. MOSTLY DRIED SCHISMUS A   | ND BARE GROUND FROM GRAZING                                    |                                    |                                   |
| 3RD QUARTER             | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 77 F<br>HUMIDITY: 24%<br>NOTES: SEVERAL ACTIVE KANGAROO RAT BUF<br>WILDLIFE PRESENT: HORNED LARK<br>PLANTS PRESENT: DATURA WRIGHTIL, S   | ROWS. MOSTLY DRIED SCHISMUS A<br>SALSOLA TRAGUS, SCHISMUS  | ND BARE GROUND FROM GRAZING                                    |                                    |                                   |
| 3RD QUARTER             | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 77 F<br>HUMIDITY: 24%<br>NOTES: SEVERAL ACTIVE KANGAROO RAT BUF<br>WILDLIFE PRESENT: HORNED LARK<br>PLANTS PRESENT: DATURA WRIGHTII, S<br>SURVEY DATE: 11/15/2013  | RROWS. MOSTLY DRIED SCHISMUS A   | ND BARE GROUND FROM GRAZING<br>ARABICUS                        | . ONLY TUMBLEWEEDS ARE DRIED       | DRIFTS AGAINST PIPES, POLES, ETC. |
| 3RD QUARTER             | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 77 F<br>HUMIDITY: 24%<br>NOTES: SEVERAL ACTIVE KANGAROO RAT BUF<br>WILDLIFE PRESENT: HORNED LARK<br>PLANTS PRESENT: DATURA WRIGHTII, S<br>SURVEY DATE: 11/15/2013<br>TIME: 1:45 AM   | ROWS. MOSTLY DRIED SCHISMUS A<br>SALSOLA TRAGUS, SCHISMUS  | ND BARE GROUND FROM GRAZING<br>ARABICUS                        | . ONLY TUMBLEWEEDS ARE DRIED       | DRIFTS AGAINST PIPES, POLES, ETC. |
|                         | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 77 F<br>HUMIDITY: 24%<br>NOTES: SEVERAL ACTIVE KANGAROO RAT BUF<br>WILDLIFE PRESENT: HORNED LARK<br>PLANTS PRESENT: DATURA WRIGHTII, S<br>SURVEY DATE: 11/15/2013  | ROWS. MOSTLY DRIED SCHISMUS A<br>SALSOLA TRAGUS, SCHISMUS  | ND BARE GROUND FROM GRAZING<br>ARABICUS                        | . ONLY TUMBLEWEEDS ARE DRIED       | DRIFTS AGAINST PIPES, POLES, ETC. |
|                         | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 77 F<br>HUMIDITY: 24%<br>NOTES: SEVERAL ACTIVE KANGAROO RAT BUF<br>WILDLIFE PRESENT: HORNED LARK<br>PLANTS PRESENT: DATURA WRIGHTII, S<br>SURVEY DATE: 11/15/2013<br>TIME: 1:45 AM<br>MONITOR(S): J. JONES   | ROWS. MOSTLY DRIED SCHISMUS A<br>SALSOLA TRAGUS, SCHISMUS  | ND BARE GROUND FROM GRAZING<br>ARABICUS                        | . ONLY TUMBLEWEEDS ARE DRIED       | DRIFTS AGAINST PIPES, POLES, ETC. |
|                         | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 77 F<br>HUMIDITY: 24%<br>NOTES: SEVERAL ACTIVE KANGAROO RAT BUF<br>WILDLIFE PRESENT: HORNED LARK<br>PLANTS PRESENT: DATURA WRIGHTIL, S<br>SURVEY DATE: 11/15/2013<br>TIME: 1:45 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 28MPH  | ROWS. MOSTLY DRIED SCHISMUS A<br>SALSOLA TRAGUS, SCHISMUS  | ND BARE GROUND FROM GRAZING<br>ARABICUS                        | . ONLY TUMBLEWEEDS ARE DRIED       | DRIFTS AGAINST PIPES, POLES, ETC. |
|                         | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 77 F<br>HUMIDITY: 24%<br>NOTES: SEVERAL ACTIVE KANGAROO RAT BUF<br>WILDLIFE PRESENT: HORNED LARK<br>PLANTS PRESENT: DATURA WRIGHTIL, S<br>SURVEY DATE: 11/15/2013<br>TIME: 1:45 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 28MPH<br>TEMPERATURE: 65 F   | ROWS. MOSTLY DRIED SCHISMUS A<br>SALSOLA TRAGUS, SCHISMUS  | ND BARE GROUND FROM GRAZING<br>ARABICUS                        | . ONLY TUMBLEWEEDS ARE DRIED       | DRIFTS AGAINST PIPES, POLES, ETC. |
|                         | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 77 F<br>HUMIDITY: 24%<br>NOTES: SEVERAL ACTIVE KANGAROO RAT BUF<br>WILDLIFE PRESENT: HORNED LARK<br>PLANTS PRESENT: DATURA WRIGHTIL, S<br>SURVEY DATE: 11/15/2013<br>TIME: 1:45 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 28MPH  | ROWS. MOSTLY DRIED SCHISMUS A<br>SALSOLA TRAGUS, SCHISMUS  | ND BARE GROUND FROM GRAZING<br>ARABICUS                        | . ONLY TUMBLEWEEDS ARE DRIED       | DRIFTS AGAINST PIPES, POLES, ETC. |
| 4TH QUARTER 3RD QUARTER | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 77 F<br>HUMIDITY: 24%<br>NOTES: SEVERAL ACTIVE KANGAROO RAT BUF<br>WILDLIFE PRESENT: HORNED LARK<br>PLANTS PRESENT: HORNED LARK<br>PLANTS PRESENT: DATURA WRIGHTII, S<br>SURVEY DATE: 11/15/2013<br>TIME: 1:45 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 28MPH<br>TEMPERATURE: 65 F<br>HUMIDITY: 40%                                 | RROWS. MOSTLY DRIED SCHISMUS A<br>SALSOLA TRAGUS, SCHISMUS   | ND BARE GROUND FROM GRAZING<br>ARABICUS                        | . ONLY TUMBLEWEEDS ARE DRIED       | DRIFTS AGAINST PIPES, POLES, ETC. |
|                         | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 77 F<br>HUMIDITY: 24%<br>NOTES: SEVERAL ACTIVE KANGAROO RAT BUF<br>WILDLIFE PRESENT: HORNED LARK<br>PLANTS PRESENT: DATURA WRIGHTIL, S<br>SURVEY DATE: 11/15/2013<br>TIME: 1:45 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 28MPH<br>TEMPERATURE: 65 F   | RROWS. MOSTLY DRIED SCHISMUS A<br>SALSOLA TRAGUS, SCHISMUS   | ND BARE GROUND FROM GRAZING<br>ARABICUS                        | . ONLY TUMBLEWEEDS ARE DRIED       | DRIFTS AGAINST PIPES, POLES, ETC. |
|                         | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 77 F<br>HUMIDITY: 24%<br>NOTES: SEVERAL ACTIVE KANGAROO RAT BUF<br>WILDLIFE PRESENT: HORNED LARK<br>PLANTS PRESENT: DATURA WRIGHTII, S<br>SURVEY DATE: 11/15/2013<br>TIME: 1:45 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 28MPH<br>TEMPERATURE: 65 F<br>HUMIDITY: 40%<br>NOTES: MANY ACTIVE KANGAROO RAT                             | RROWS. MOSTLY DRIED SCHISMUS A<br>SALSOLA TRAGUS, SCHISMUS<br>NORTH  | ND BARE GROUND FROM GRAZING<br>ARABICUS                        | . ONLY TUMBLEWEEDS ARE DRIED       | DRIFTS AGAINST PIPES, POLES, ETC. |
|                         | TIME: 12:50 PM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 3.13 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 8 MPH<br>TEMPERATURE: 77 F<br>HUMIDITY: 24%<br>NOTES: SEVERAL ACTIVE KANGAROO RAT BUF<br>WILDLIFE PRESENT: HORNED LARK<br>PLANTS PRESENT: DATURA WRIGHTII, S<br>SURVEY DATE: 11/15/2013<br>TIME: 1:45 AM<br>MONITOR(S): J. JONES<br>RAINFALL TO DATE: 0.97 IN<br>WIND DIRECTION: NW<br>WIND VELOCITY: 28MPH<br>TEMPERATURE: 65 F<br>HUMIDITY: 40%<br>NOTES: MANY ACTIVE KANGAROO RAT<br>WILDLIFE PRESENT: RAVENS | RROWS. MOSTLY DRIED SCHISMUS A<br>SALSOLA TRAGUS, SCHISMUS<br>NORTH  | ND BARE GROUND FROM GRAZING<br>ARABICUS                        | . ONLY TUMBLEWEEDS ARE DRIED       | DRIFTS AGAINST PIPES, POLES, ETC. |



#### LOCATION INFORMATION LOCATION: OMS-8 SECTION: 16 TOWNSHIP/RANGE: 305/25E 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

