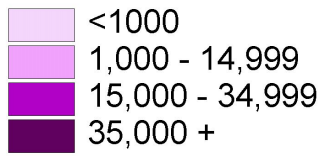


## **Appendix 6: Species Distribution by Survey Period**

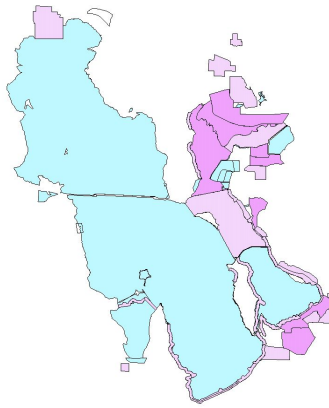
This group of maps shows how species are distributed around GSL by survey period for an average year. These data are comparable with the five-year mean numbers listed in the Species Accounts (Appendix 5) and the Survey Area Descriptions (Appendix 4). It should be noted that areas are various in size. Therefore, of two areas of differing size but with similar numbers of birds, the smaller area represents a greater density of that particular species.

## American avocet distribution by survey period.

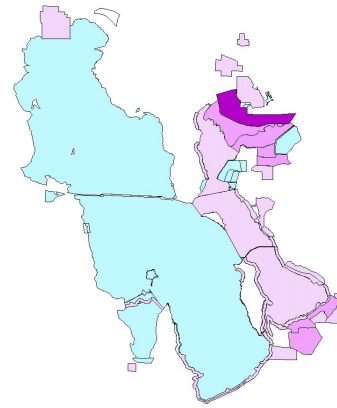
Numbers of AMAV



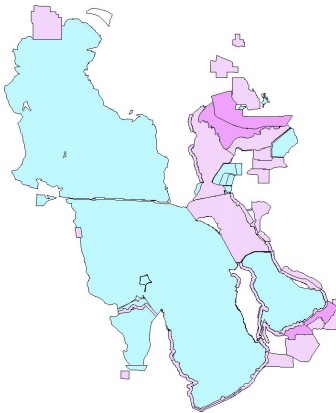
Period 1: April 6-15



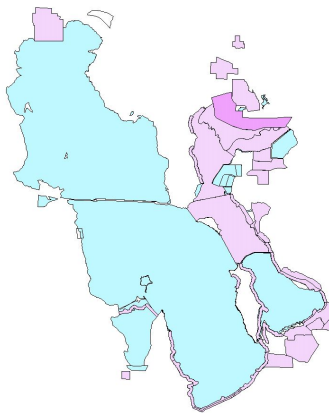
Period 2: April 16-25



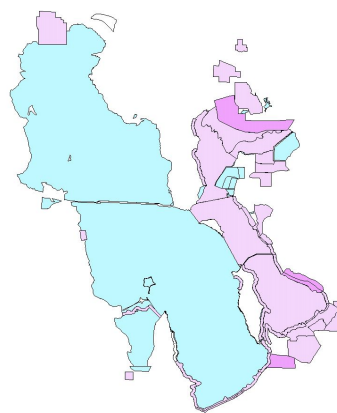
Period 3: April 26-May 5



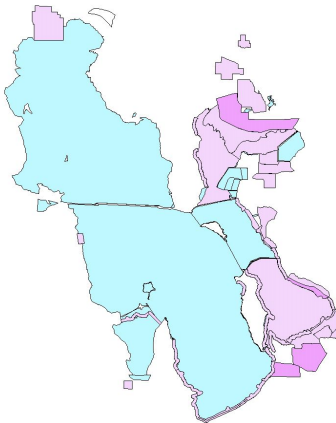
Period 4: May 6-15



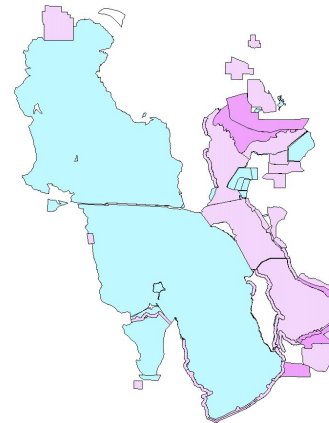
Period 5: May 16-25



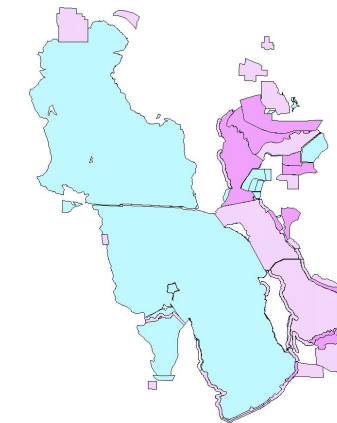
Period 6: May 26-June 4



Period 7: June 5-14



Period 8: June 15-24

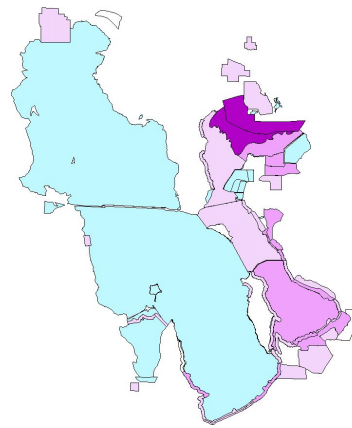
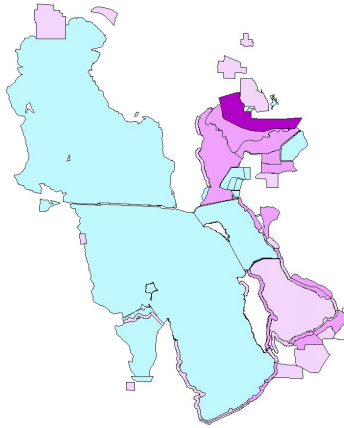
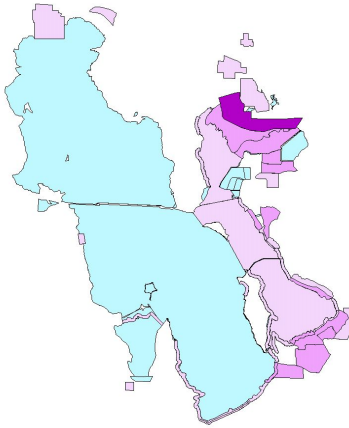


**American avocet distribution by survey period.**

Period 9: June 25-July 4

Period 10: July 5-14

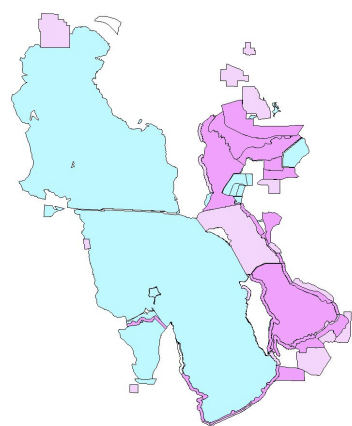
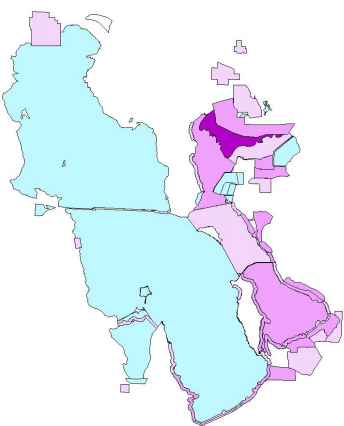
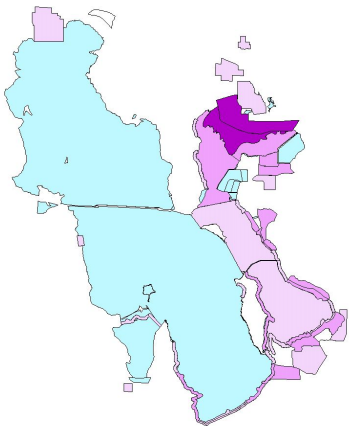
Period 11: July 15-24



Period 12: July 25-Aug 3

Period 13: Aug 4-13

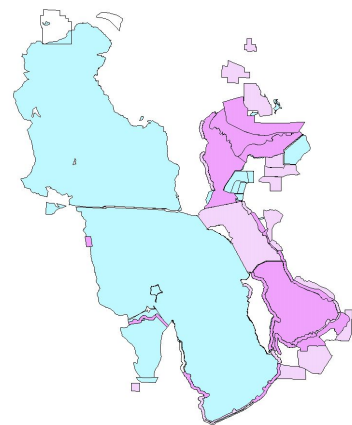
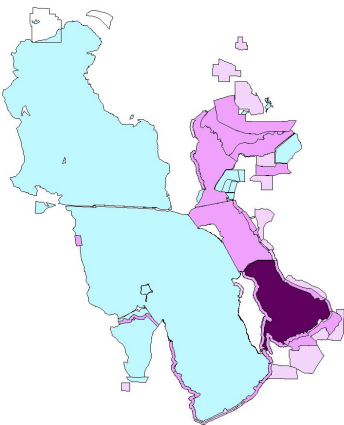
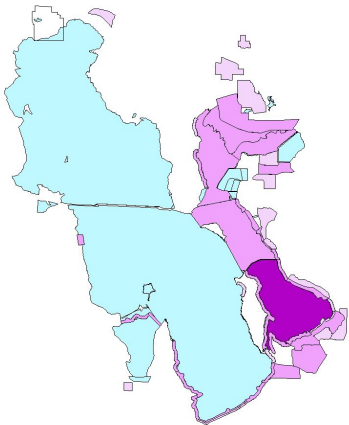
Period 14: Aug 14-23



Period 15: Aug 24-Sep 2

Period 16: Sep 3-12

Period 17: Sep 13-22

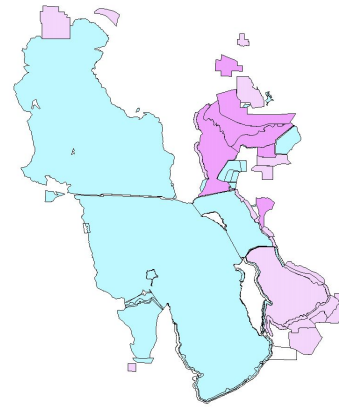
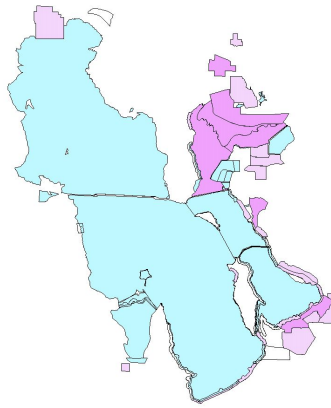
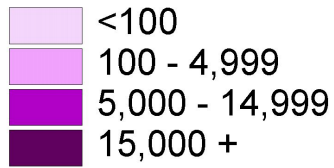


## American white pelican distribution by survey period.

Numbers of AWPE

Period 1: April 6-15

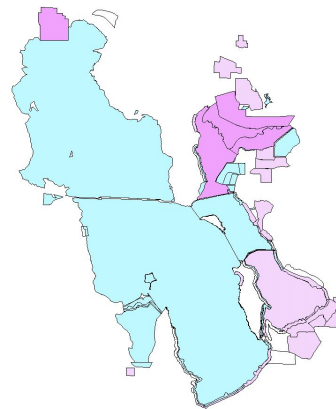
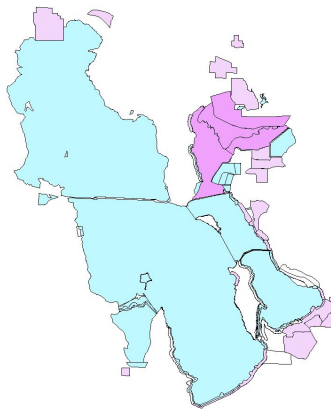
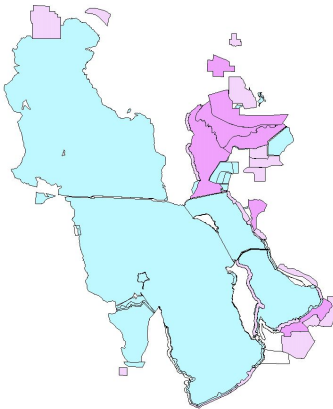
Period 2: April 16-25



Period 3: April 26-May 5

Period 4: May 6-15

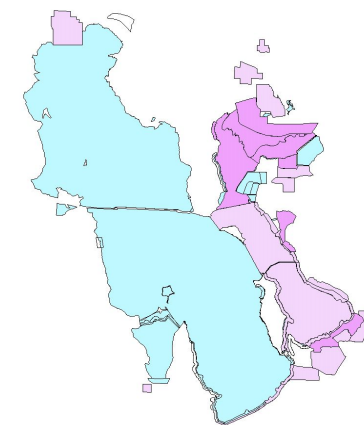
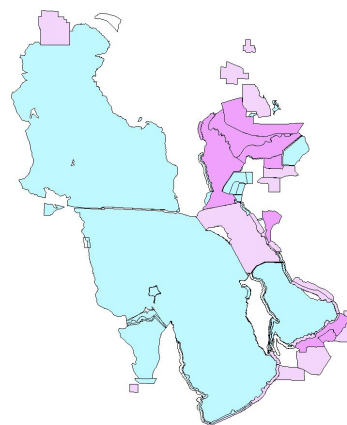
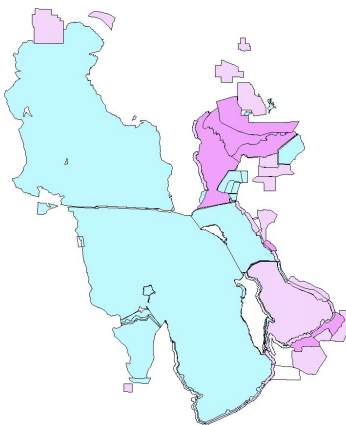
Period 5: May 16-25



Period 6: May 26-June 4

Period 7: June 5-14

Period 8: June 15-24



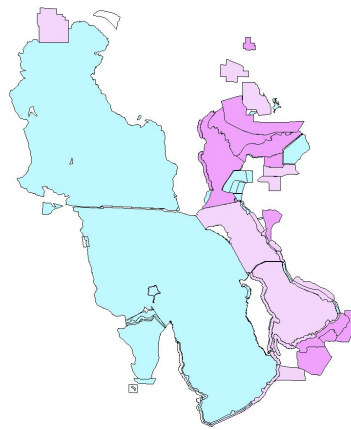
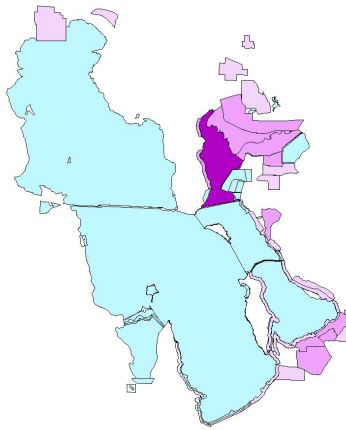
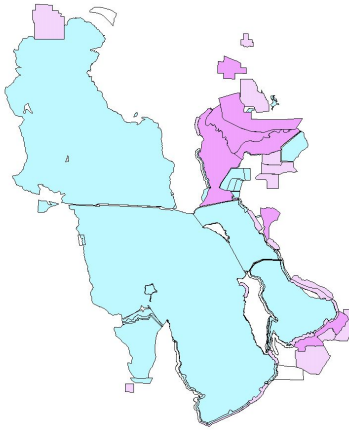


**American white pelican distribution by survey period.**

Period 9: June 25-July 4

Period 10: July 5-14

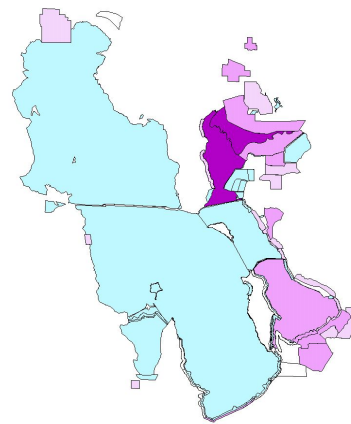
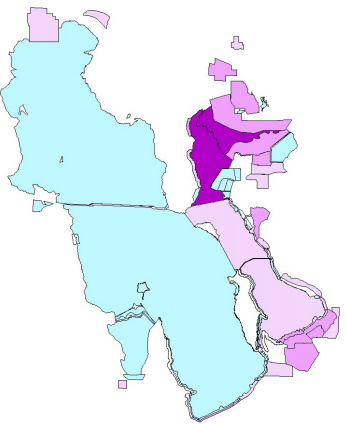
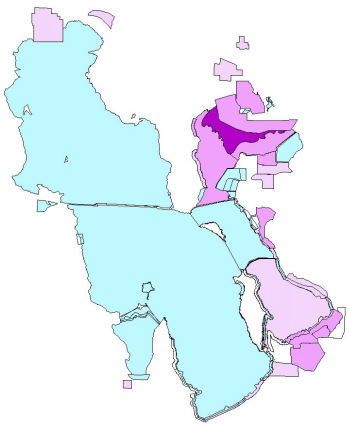
Period 11: July 15-24



Period 12: July 25-Aug 3

Period 13: Aug 4-13

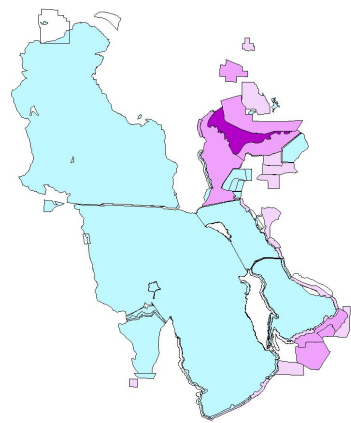
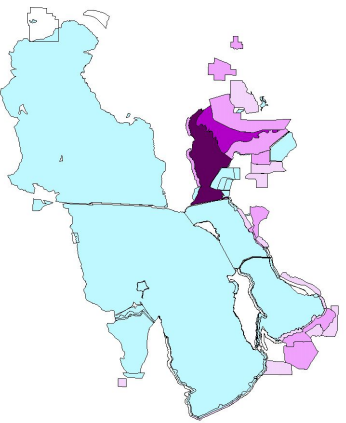
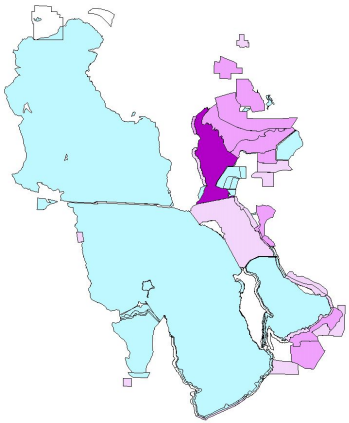
Period 14: Aug 14-23



Period 15: Aug 24-Sep 2

Period 16: Sep 3-12

Period 17: Sep 13-22

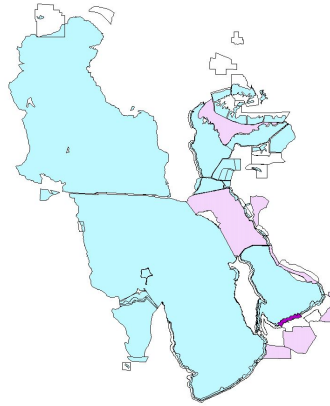


**Black-bellied plover distribution by survey period.** Because black-bellied plovers are at GSL in notable numbers during spring migration, only survey periods 1-5 are shown here.

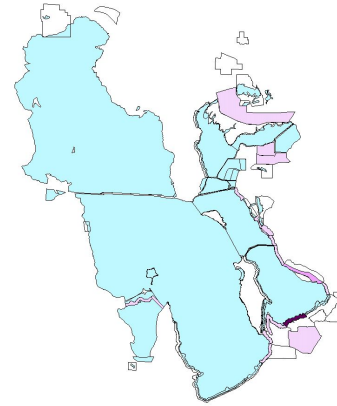
Numbers of BBPL



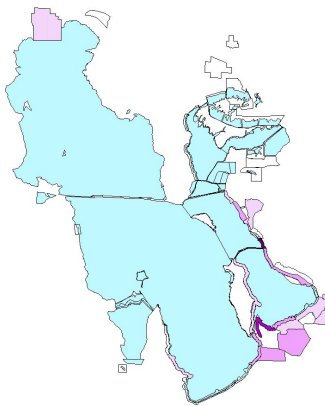
Period 1: April 6-15



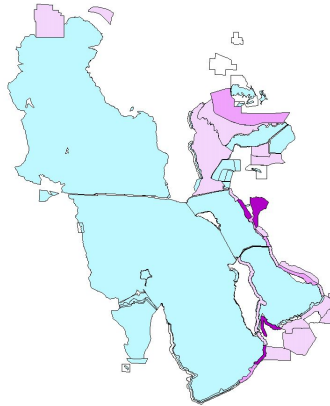
Period 2: April 16-25



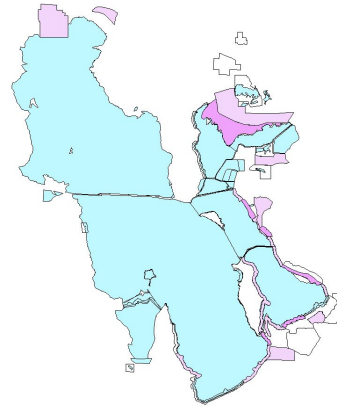
Period 3: April 26-May 5



Period 4: May 6-15

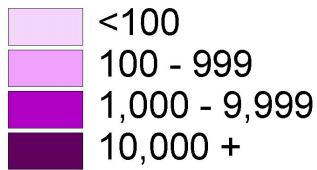


Period 5: May 16-25

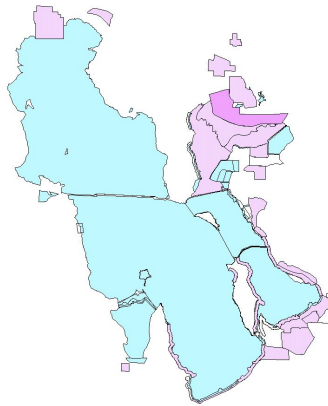


## Black-necked stilt distribution by survey period.

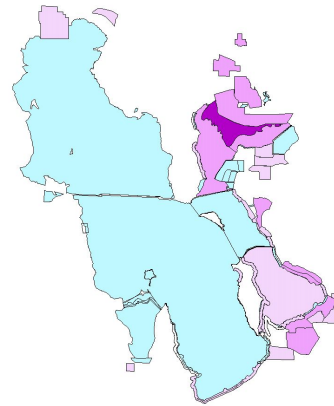
Numbers of BNST



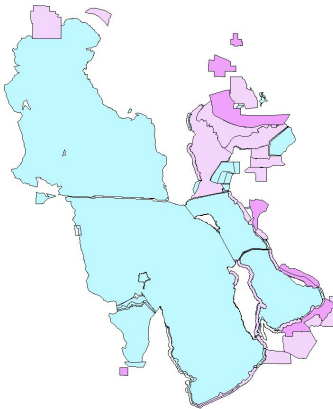
Period 1: April 6-15



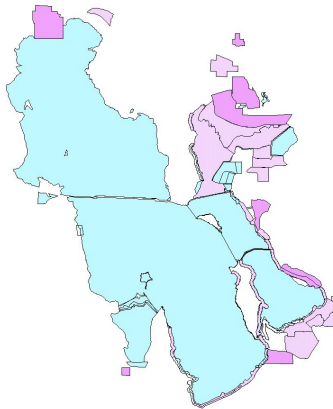
Period 2: April 16-25



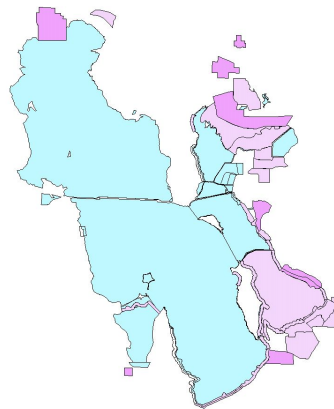
Period 3: April 26-May 5



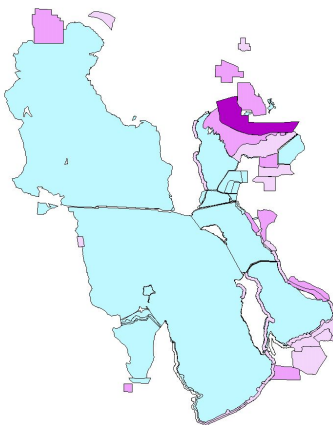
Period 4: May 6-15



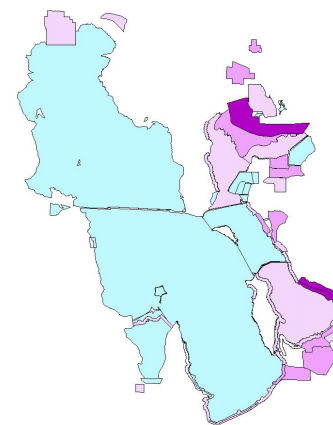
Period 5: May 16-25



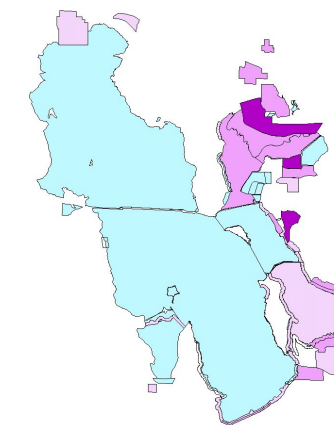
Period 6: May 26-June 4



Period 7: June 5-14



Period 8: June 15-24

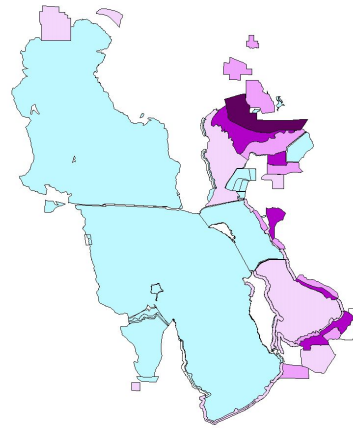
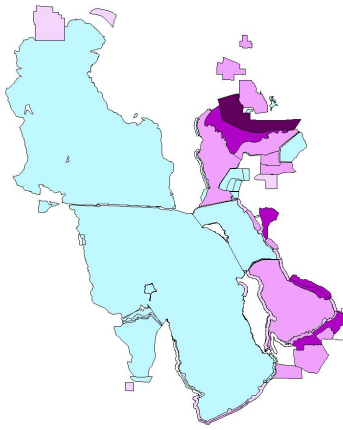
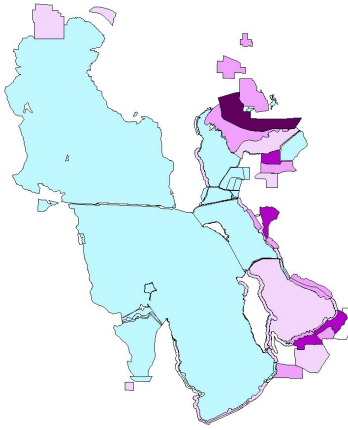


**Black-necked stilt distribution by survey period.**

Period 9: June 25-July 4

Period 10: July 5-14

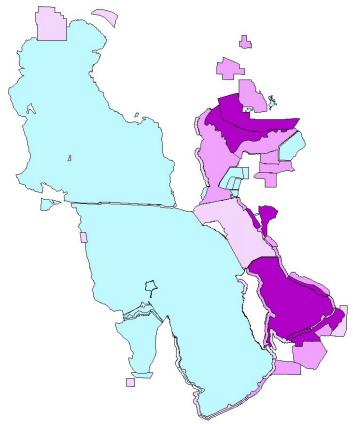
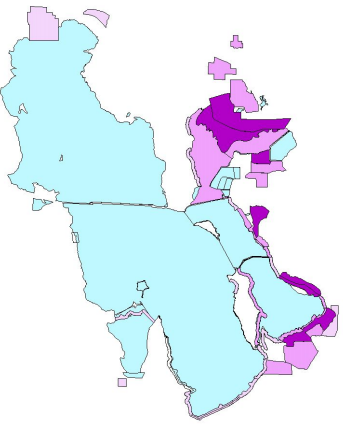
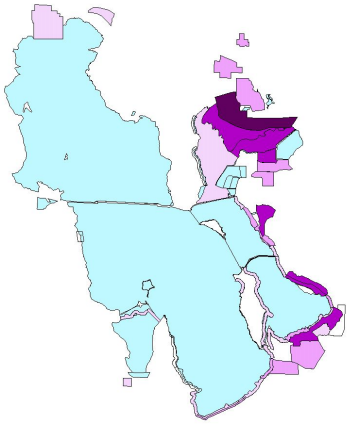
Period 11: July 15-24



Period 12: July 25-Aug 3

Period 13: Aug 4-13

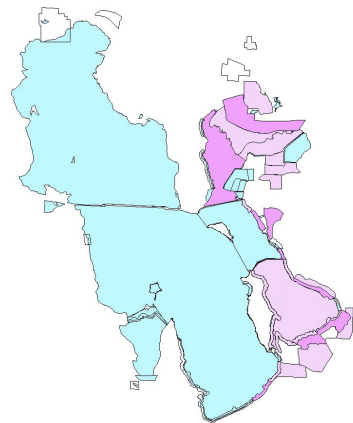
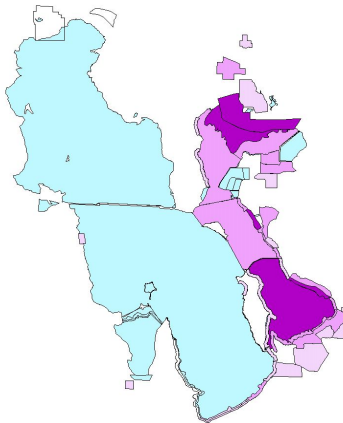
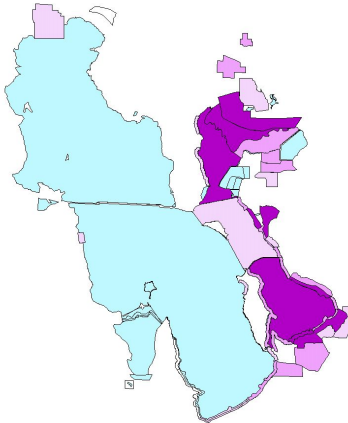
Period 14: Aug 14-23



Period 15: Aug 24-Sep 2

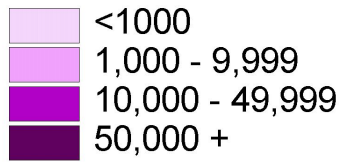
Period 16: Sep 3-12

Period 17: Sep 13-22

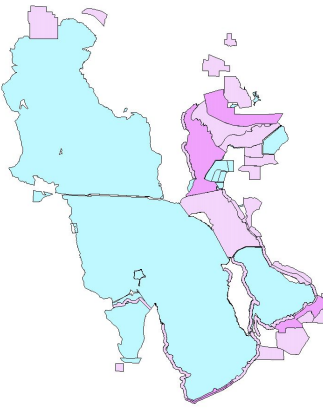


## California gull distribution by survey period.

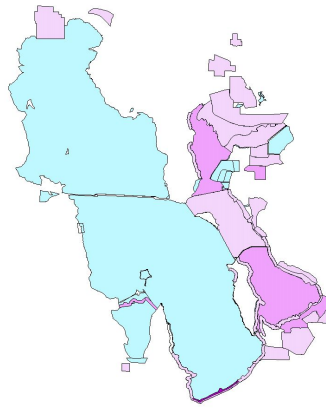
Numbers of CAGU



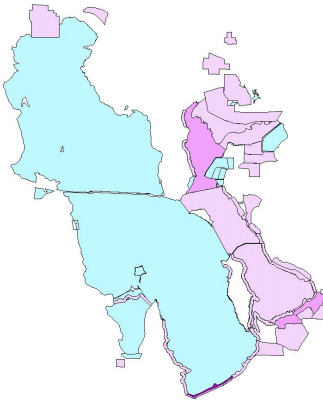
Period 1: April 6-15



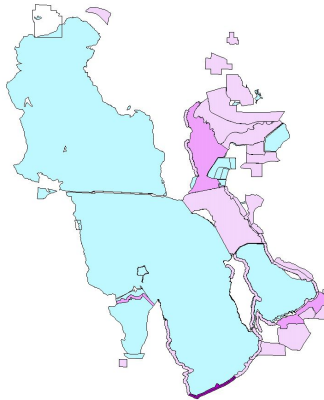
Period 2: April 16-25



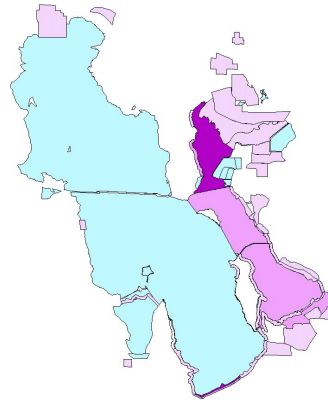
Period 3: April 26-May 5



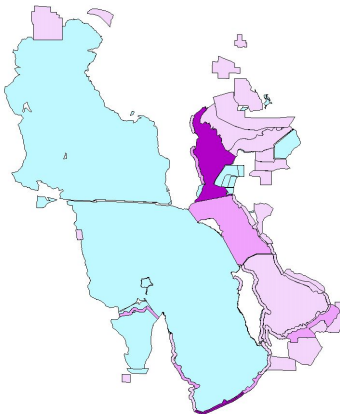
Period 4: May 6-15



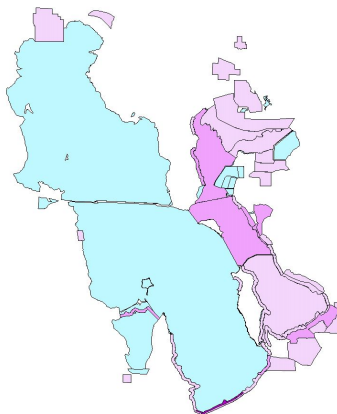
Period 5: May 16-25



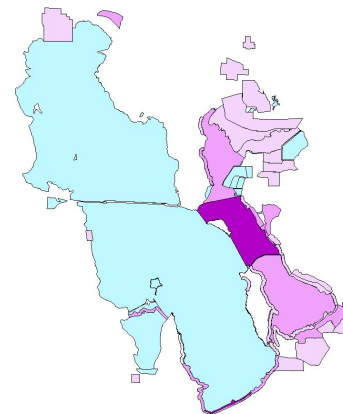
Period 6: May 26-June 4



Period 7: June 5-14



Period 8: June 15-24

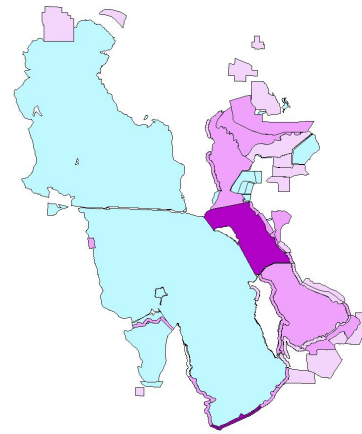
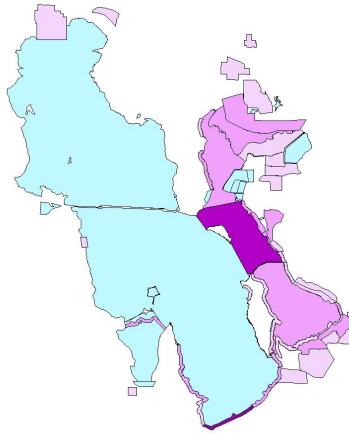
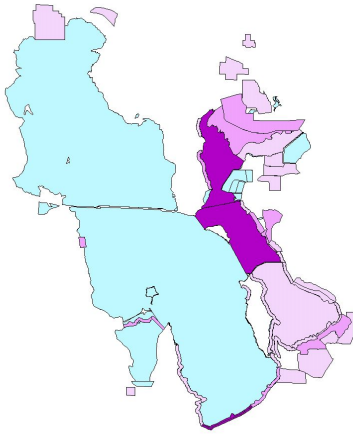


**California gull distribution by survey period.**

Period 9: June 25-July 4

Period 10: July 5-14

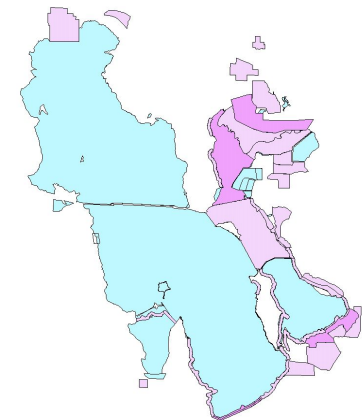
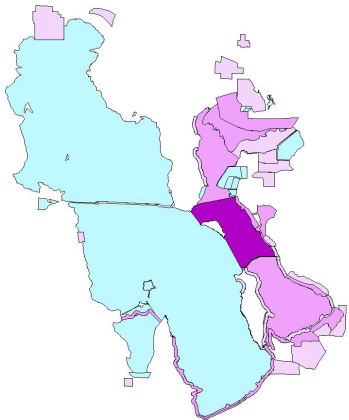
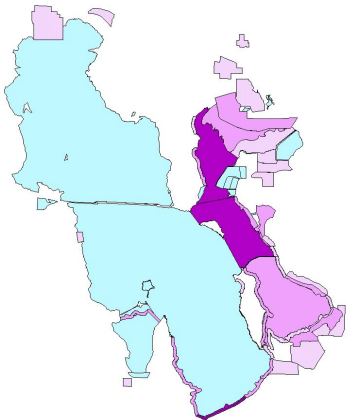
Period 11: July 15-24



Period 12: July 25-Aug 3

Period 13: Aug 4-13

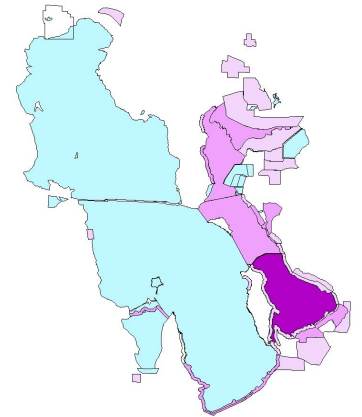
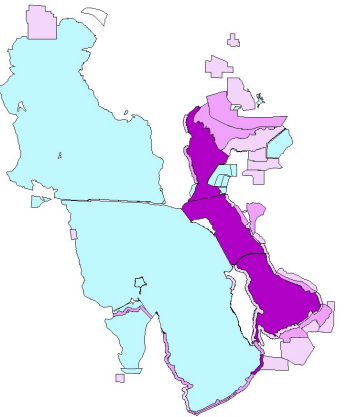
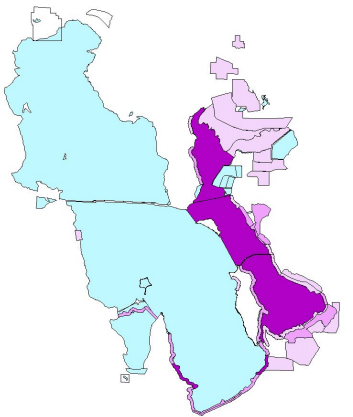
Period 14: Aug 14-23



Period 15: Aug 24-Sep 2

Period 16: Sep 3-12

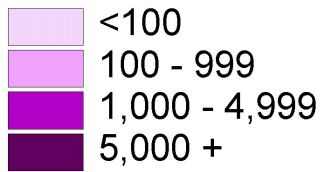
Period 17: Sep 13-22



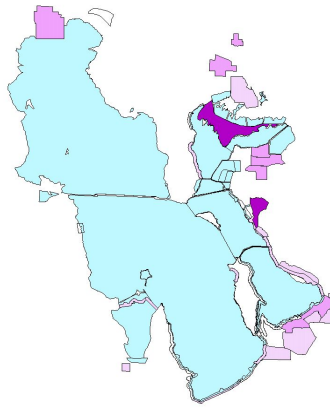


### Cinnamon teal distribution by survey period.

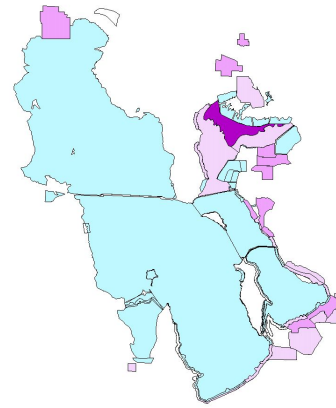
Numbers of CITE



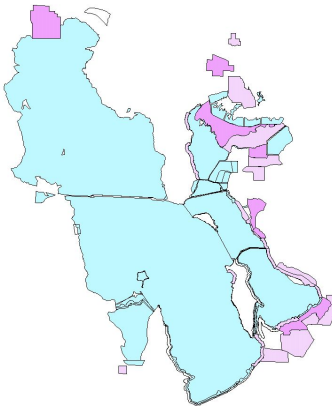
Period 1: April 6-15



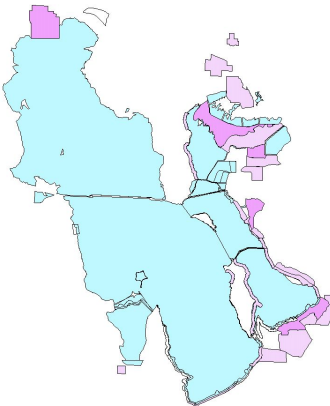
Period 2: April 16-25



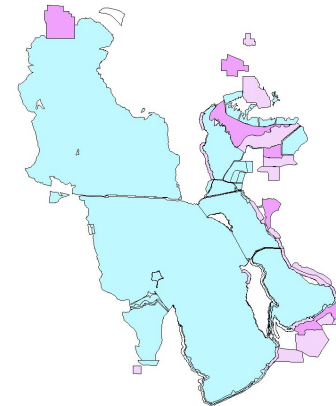
Period 3: April 26-May 5



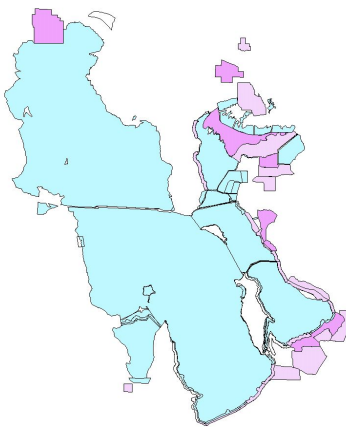
Period 4: May 6-15



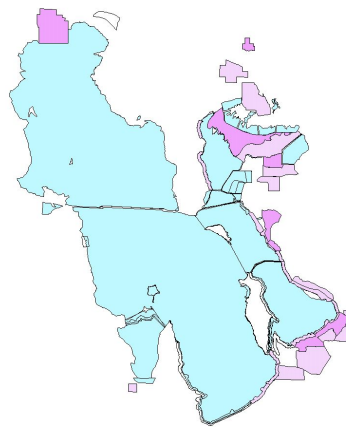
Period 5: May 16-25



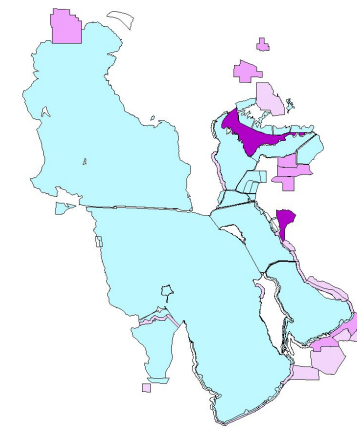
Period 6: May 26-June 4



Period 7: June 5-14



Period 8: June 15-24



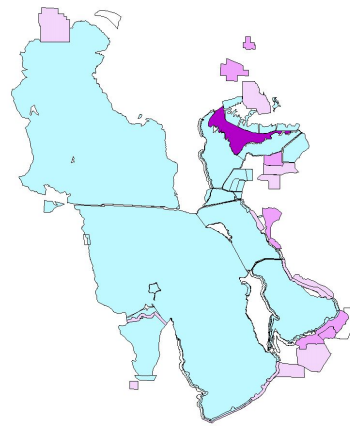
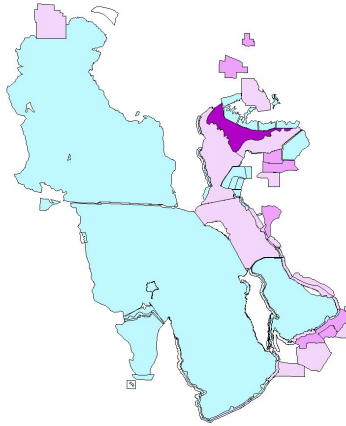
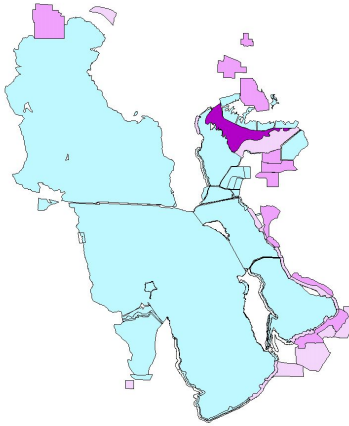


**Cinnamon teal distribution by survey period.**

Period 9: June 25-July 4

Period 10: July 5-14

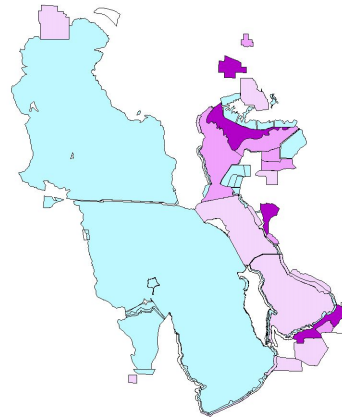
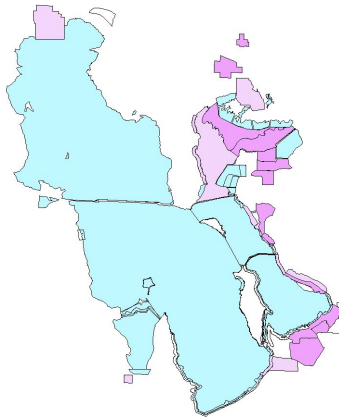
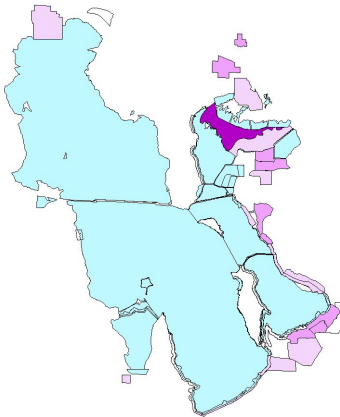
Period 11: July 15-24



Period 12: July 25-Aug 3

Period 13: Aug 4-13

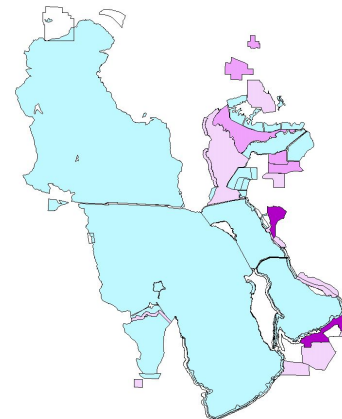
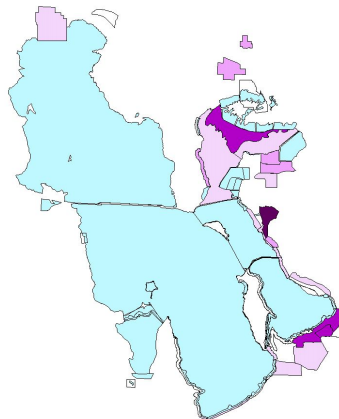
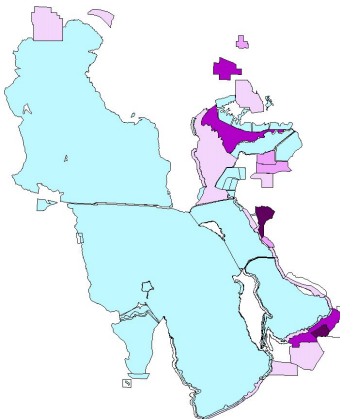
Period 14: Aug 14-23



Period 15: Aug 24-Sep 2

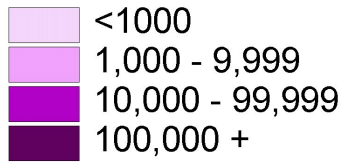
Period 16: Sep 3-12

Period 17: Sep 13-22

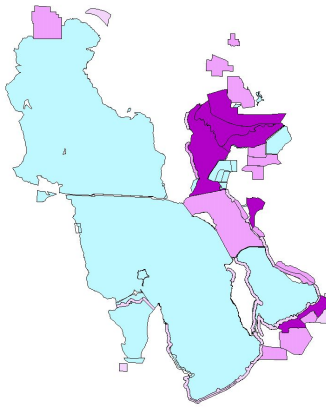


## Duck distribution by survey period.

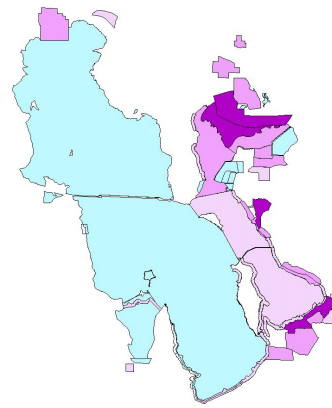
Numbers of Ducks



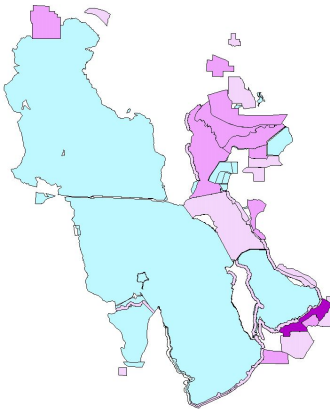
Period 1: April 6-15



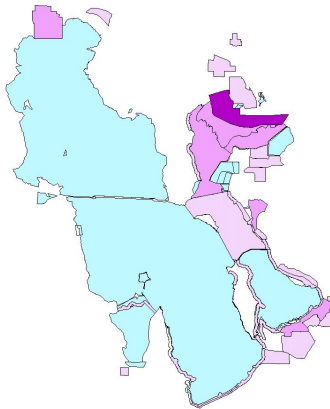
Period 2: April 16-25



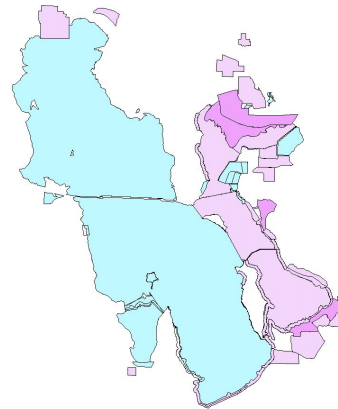
Period 3: April 26-May 5



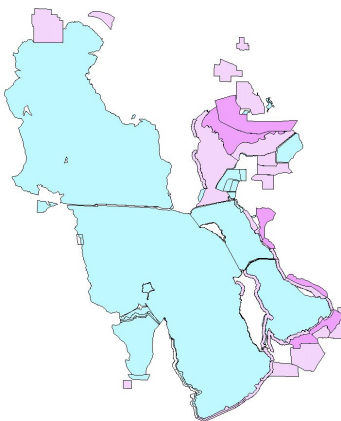
Period 4: May 6-15



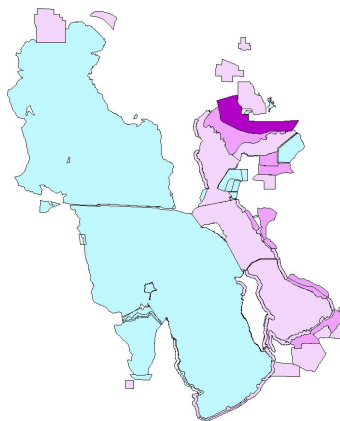
Period 5: May 16-25



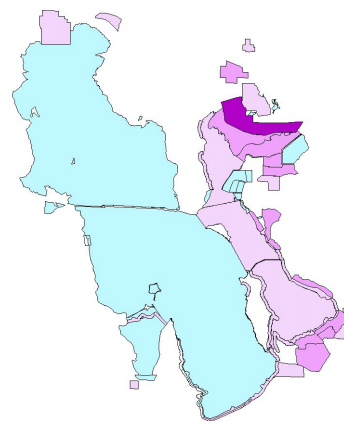
Period 6: May 26-June 4



Period 7: June 5-14



Period 8: June 15-24

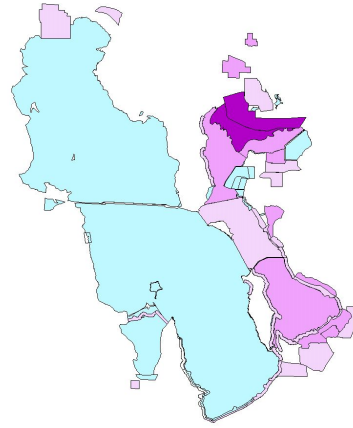
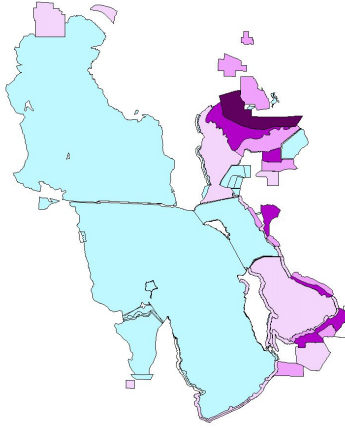
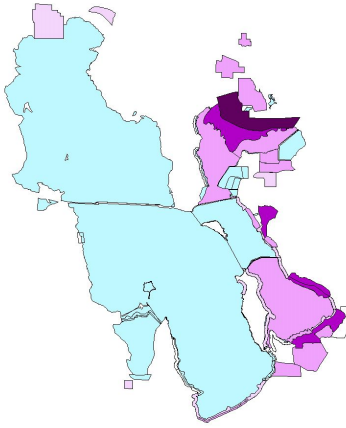


**Duck distribution by survey period.**

Period 9: June 25-July 4

Period 10: July 5-14

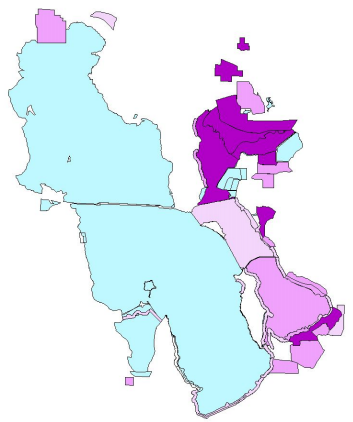
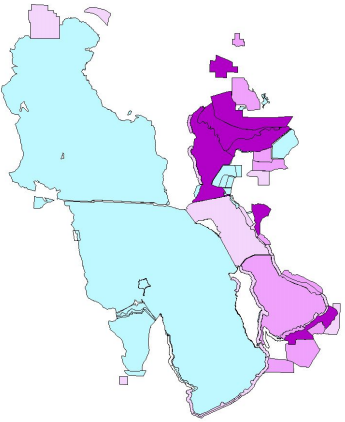
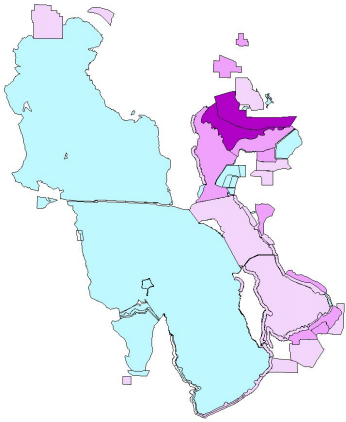
Period 11: July 15-24



Period 12: July 25-Aug 3

Period 13: Aug 4-13

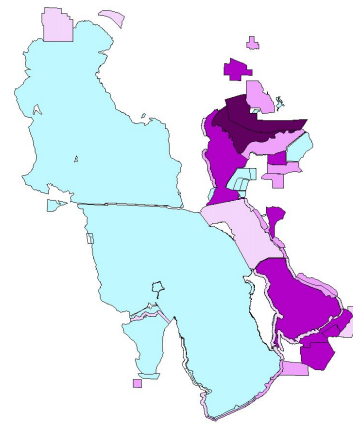
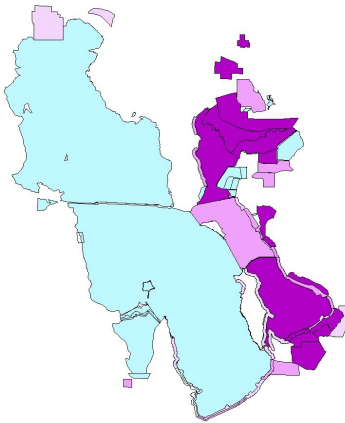
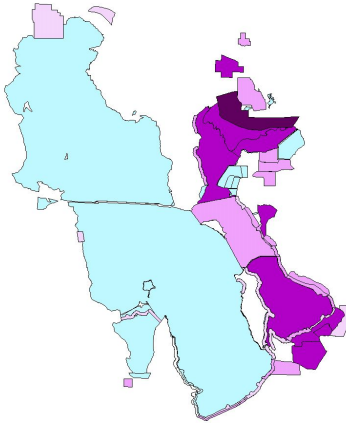
Period 14: Aug 14-23



Period 15: Aug 24-Sep 2

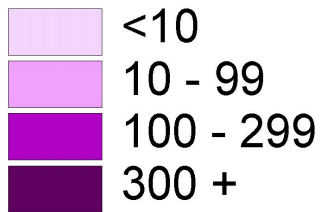
Period 16: Sep 3-12

Period 17: Sep 13-22

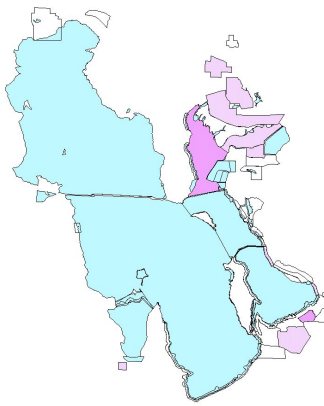


### Forster's tern distribution by survey period.

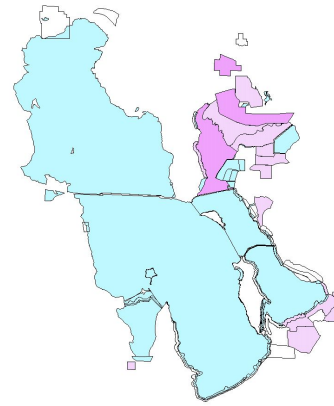
Numbers of FOTE



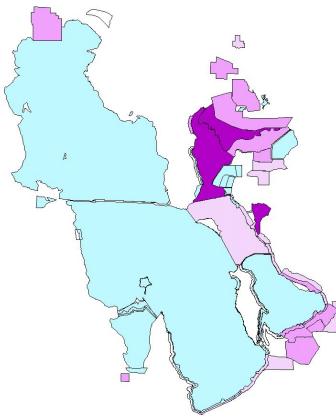
Period 1: April 6-15



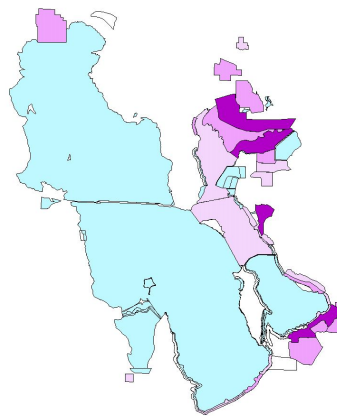
Period 2: April 16-25



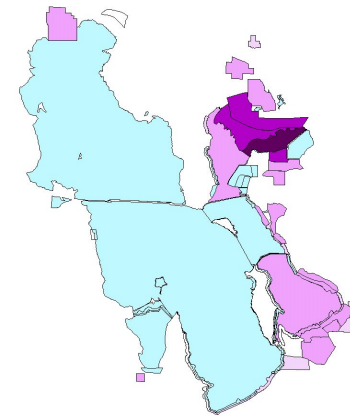
Period 3: April 26-May 5



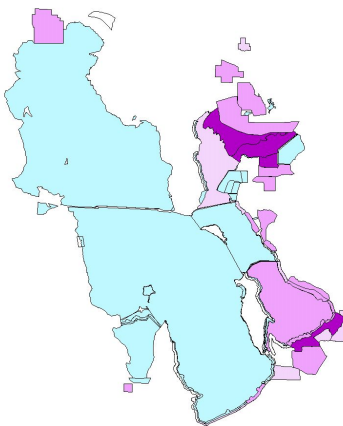
Period 4: May 6-15



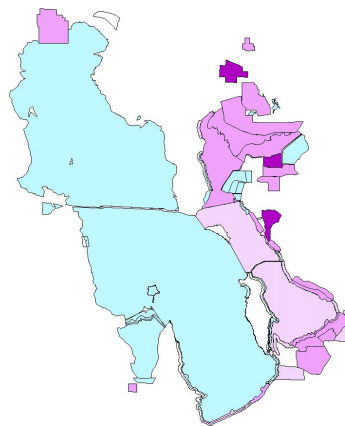
Period 5: May 16-25



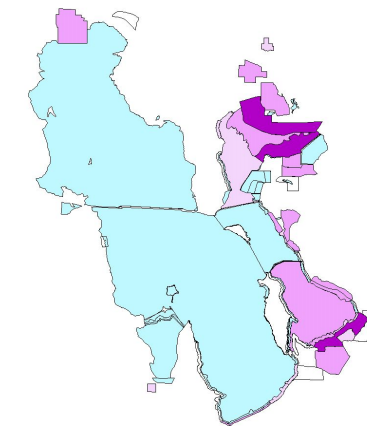
Period 6: May 26-June 4



Period 7: June 5-14



Period 8: June 15-24

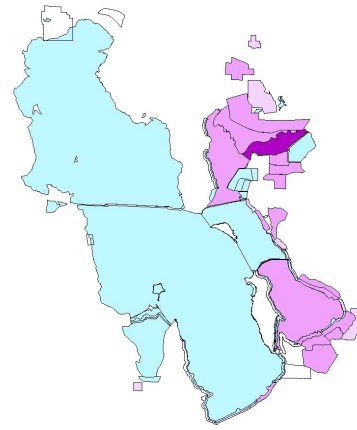
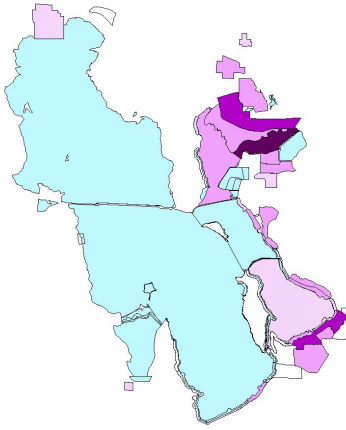
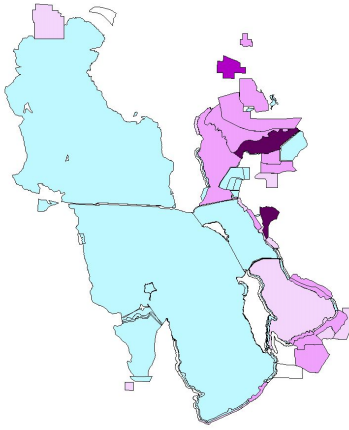


**Forster's tern distribution by survey period.**

Period 9: June 25-July 4

Period 10: July 5-14

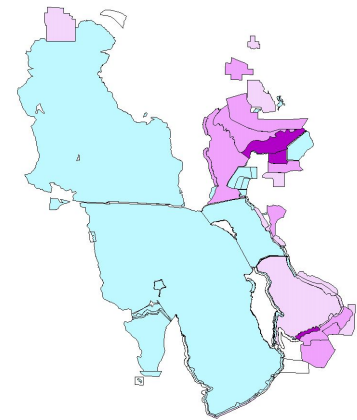
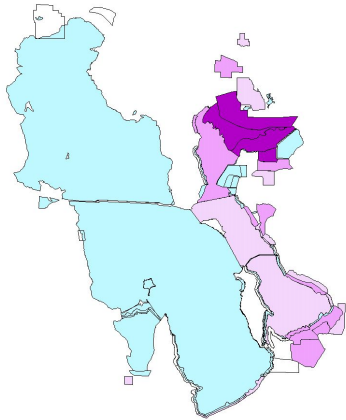
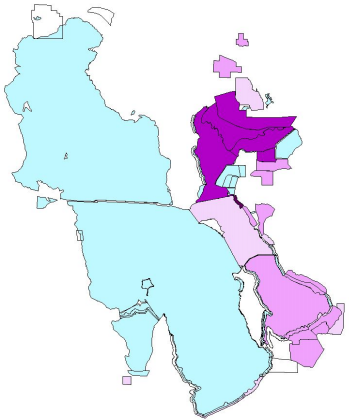
Period 11: July 15-24



Period 12: July 25-Aug 3

Period 13: Aug 4-13

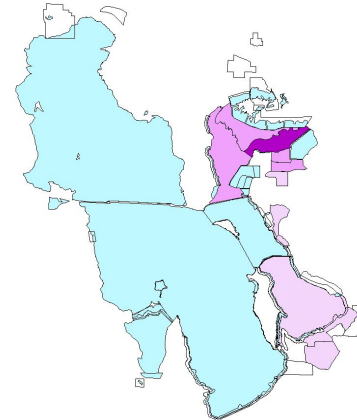
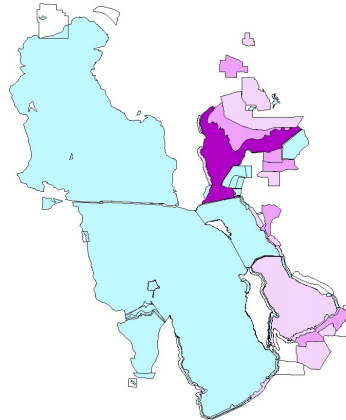
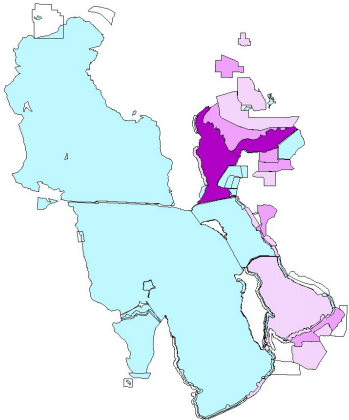
Period 14: Aug 14-23



Period 15: Aug 24-Sep 2

Period 16: Sep 3-12

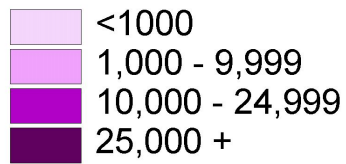
Period 17: Sep 13-22



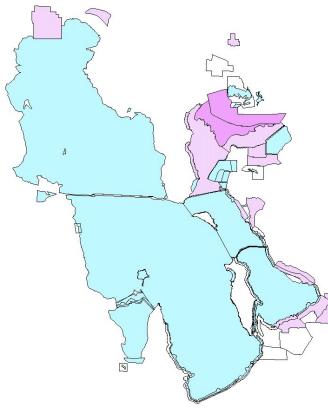


## Franklin's gull distribution by survey period.

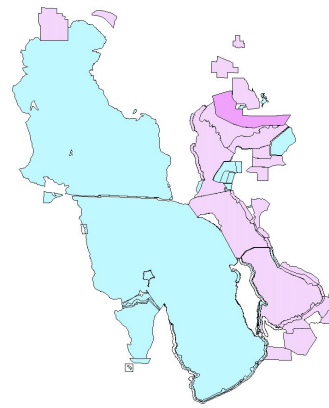
Numbers of FRGU



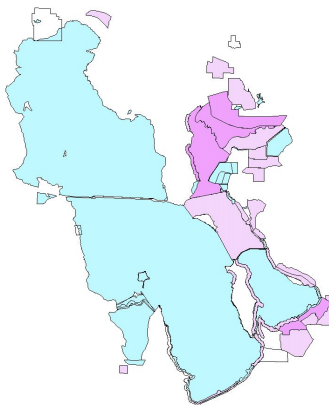
Period 1: April 6-15



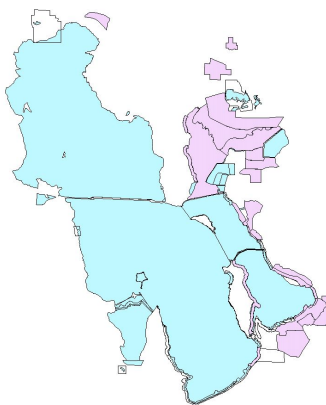
Period 2: April 16-25



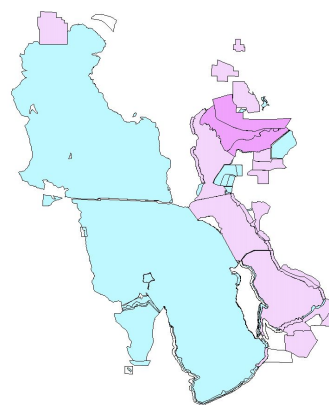
Period 3: April 26-May 5



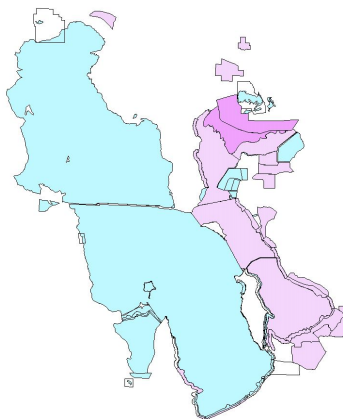
Period 4: May 6-15



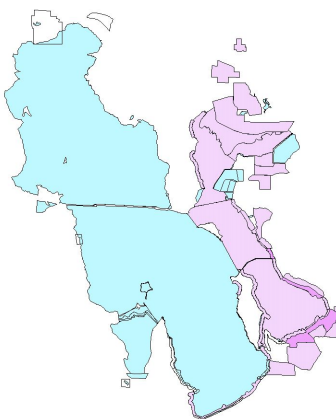
Period 5: May 16-25



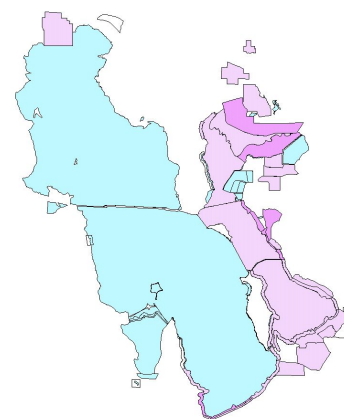
Period 6: May 26-June 4



Period 7: June 5-14



Period 8: June 15-24

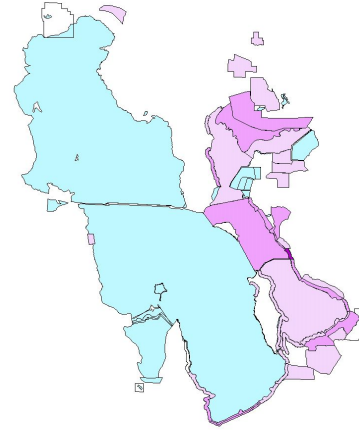
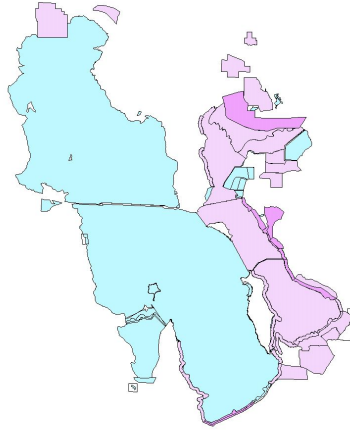
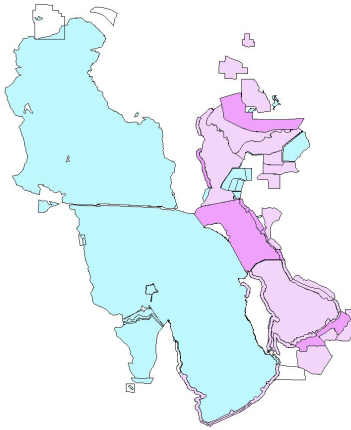


**Franklin's gull distribution by survey period.**

Period 9: June 25-July 4

Period 10: July 5-14

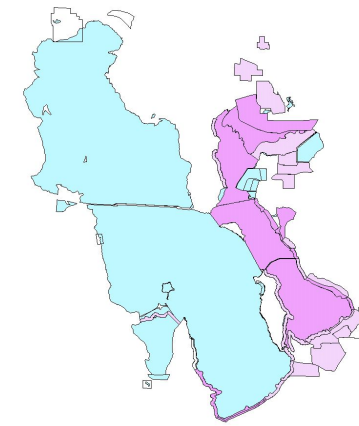
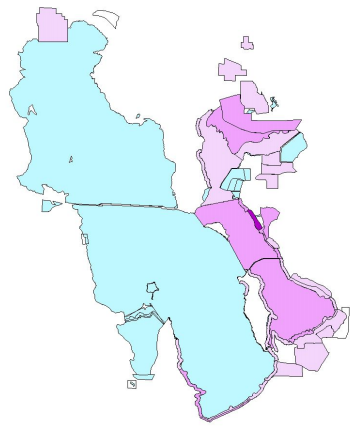
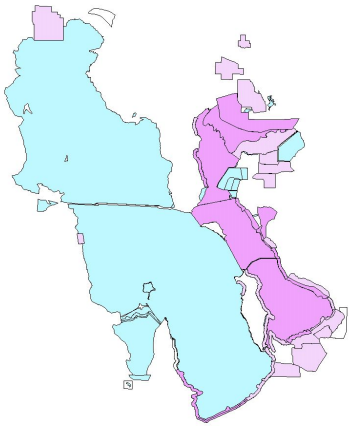
Period 11: July 15-24



Period 12: July 25-Aug 3

Period 13: Aug 4-13

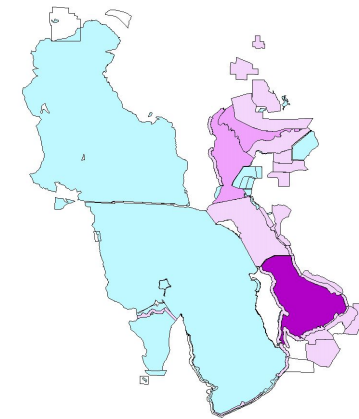
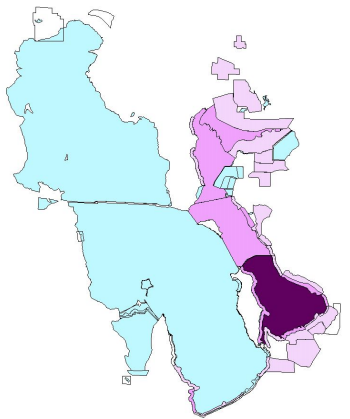
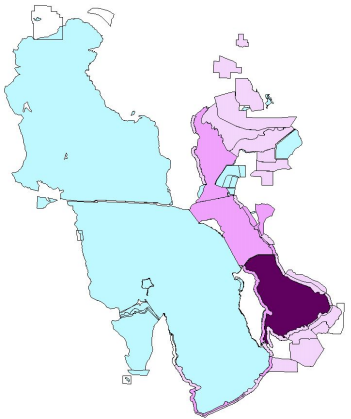
Period 14: Aug 14-23



Period 15: Aug 24-Sep 2

Period 16: Sep 3-12

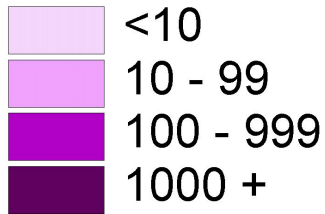
Period 17: Sep 13-22



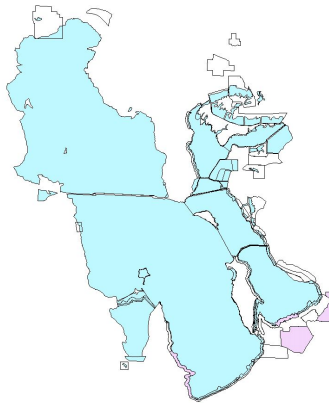


## Least sandpiper distribution by survey period.

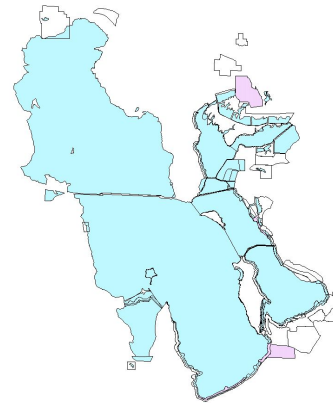
Numbers of LESA



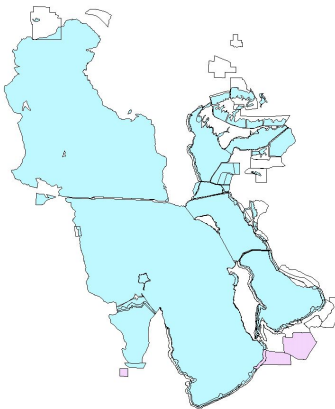
Period 1: April 6-15



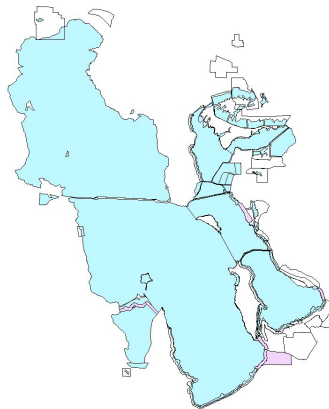
Period 2: April 16-25



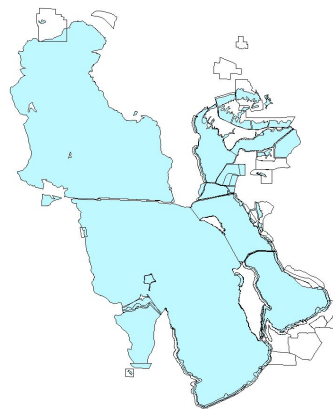
Period 3: April 26-May 5



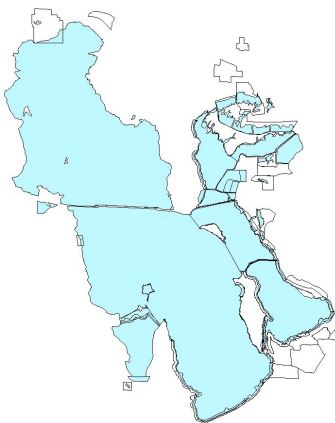
Period 4: May 6-15



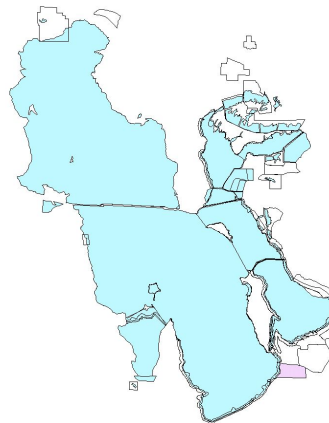
Period 5: May 16-25



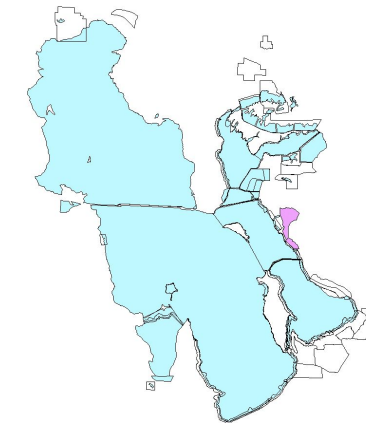
Period 6: May 26-June 4



Period 7: June 5-14



Period 8: June 15-24

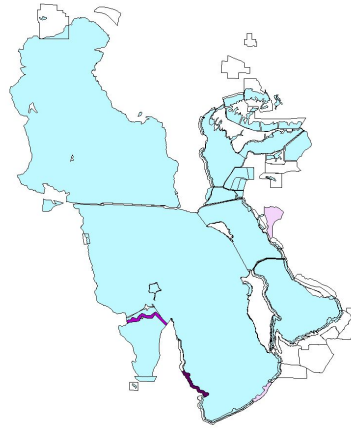
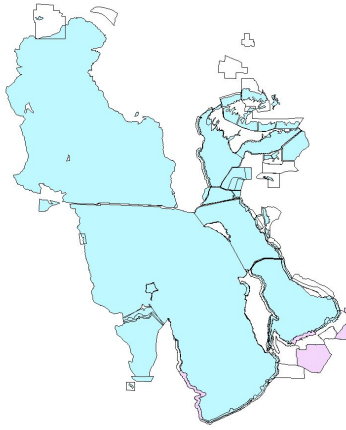
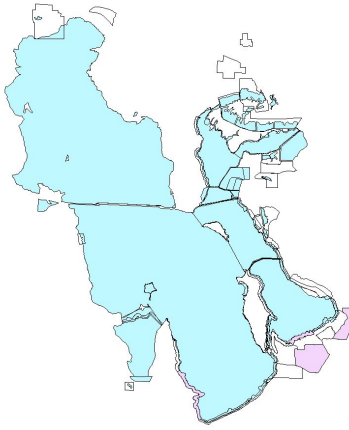


**Least sandpiper distribution by survey period.**

Period 9: June 25-July 4

Period 10: July 5-14

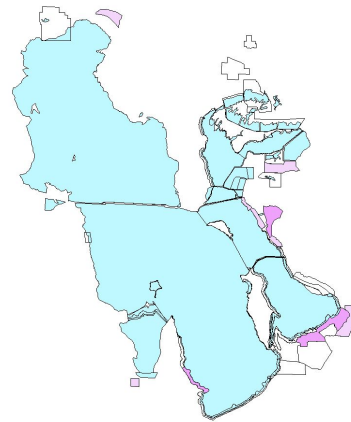
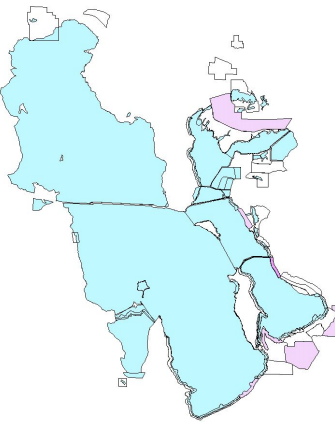
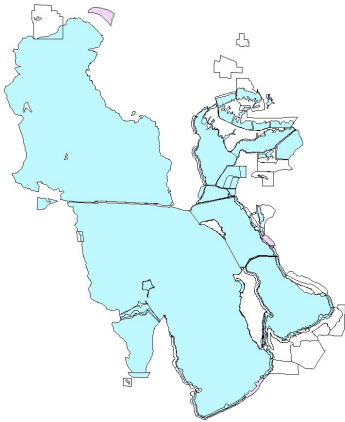
Period 11: July 15-24



Period 12: July 25-Aug 3

Period 13: Aug 4-13

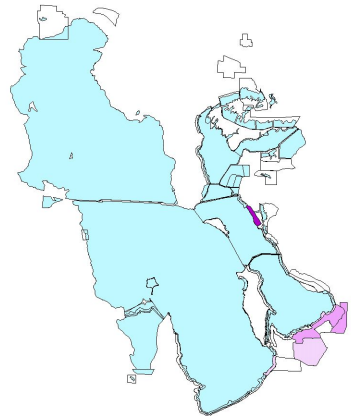
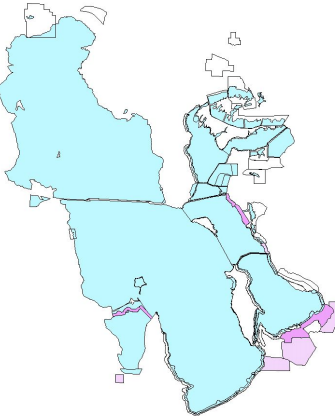
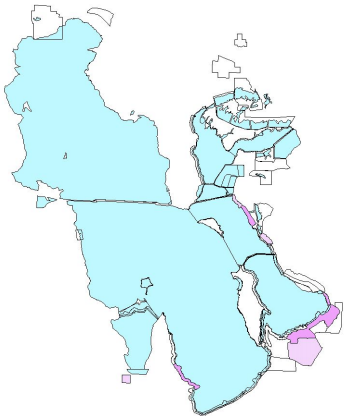
Period 14: Aug 14-23



Period 15: Aug 24-Sep 2

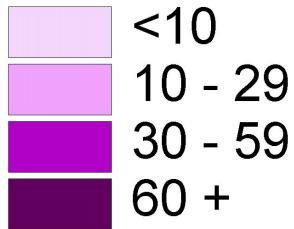
Period 16: Sep 3-12

Period 17: Sep 13-22

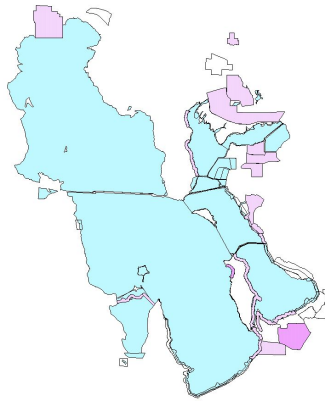


# **Long-billed curlew distribution by survey period.**

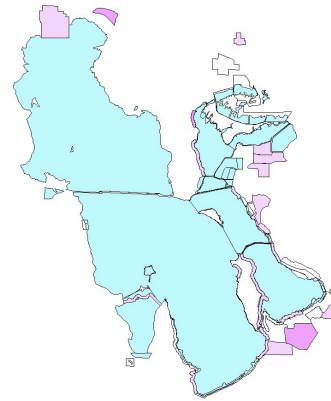
Numbers of LBCU



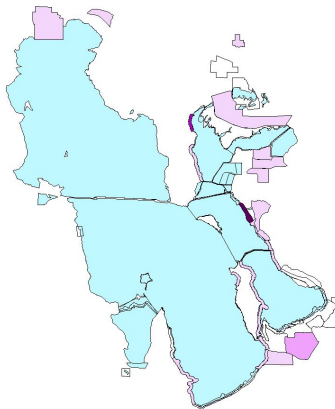
Period 1: April 6-15



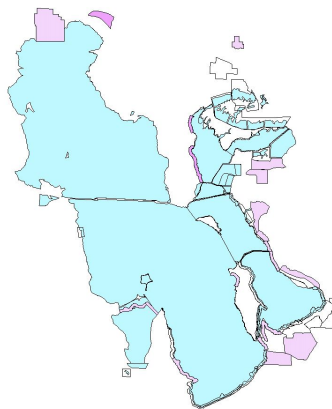
Period 2: April 16-25



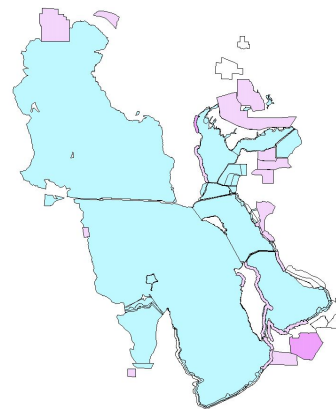
Period 3: April 26-May 5



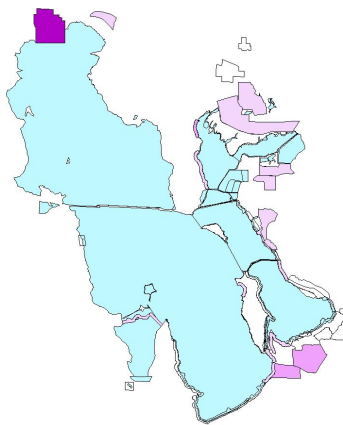
Period 4: May 6-15



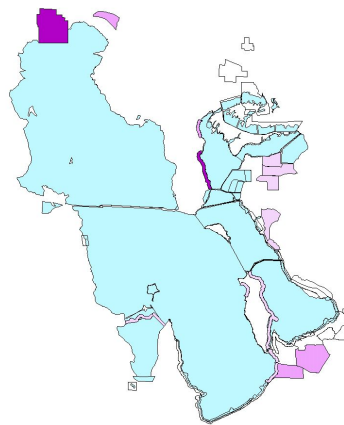
Period 5: May 16-25



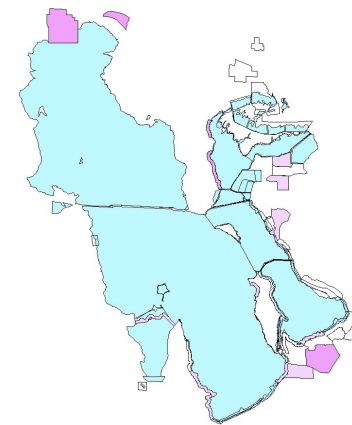
Period 6: May 26-June 4



Period 7: June 5-14



Period 8: June 15-24

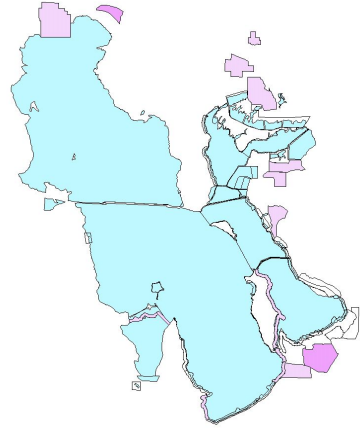
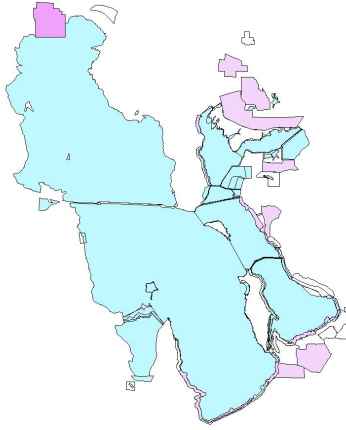
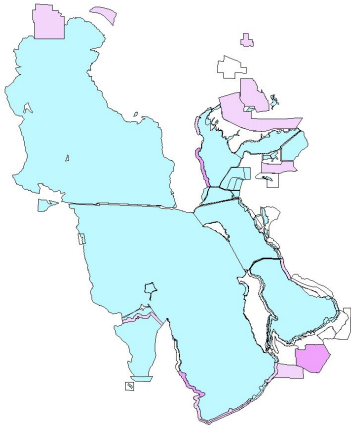


**Long-billed curlew distribution by survey period.**

Period 9: June 25-July 4

Period 10: July 5-14

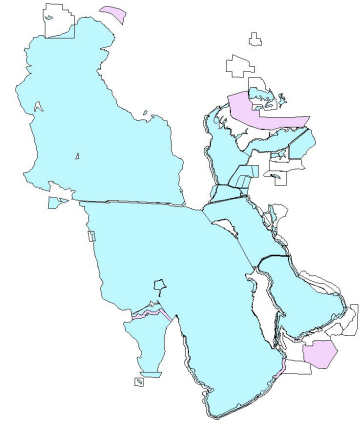
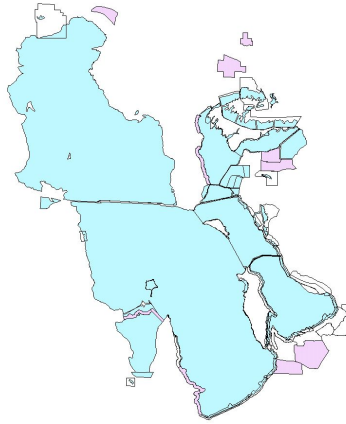
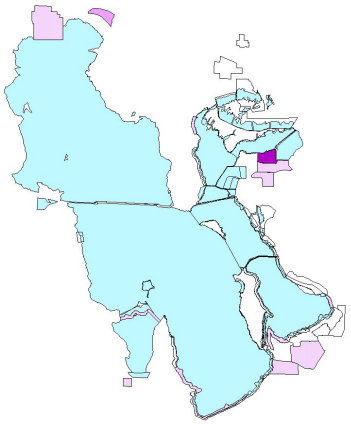
Period 11: July 15-24



Period 12: July 25-Aug 3

Period 13: Aug 4-13

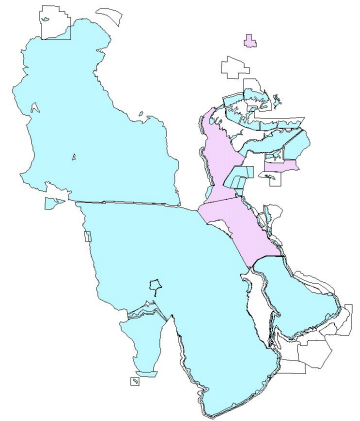
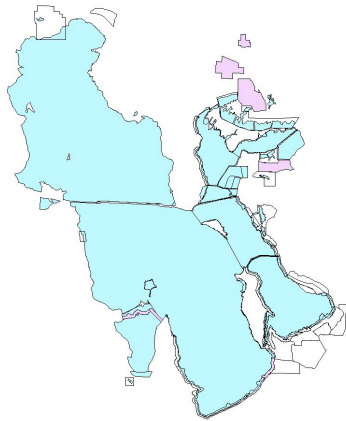
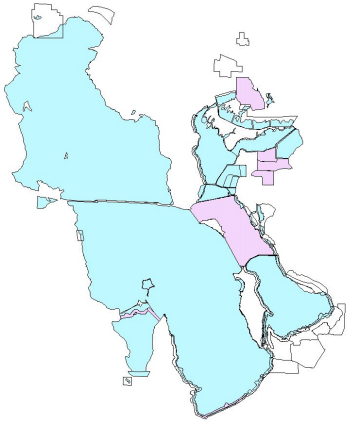
Period 14: Aug 14-23



Period 15: Aug 24-Sep 2

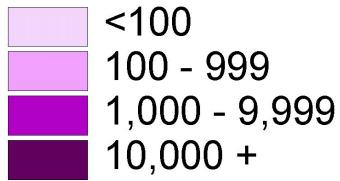
Period 16: Sep 3-12

Period 17: Sep 13-22

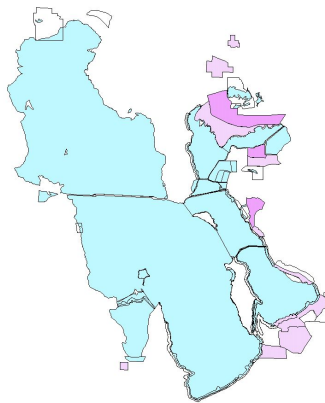


## Long-billed dowitcher distribution by survey period.

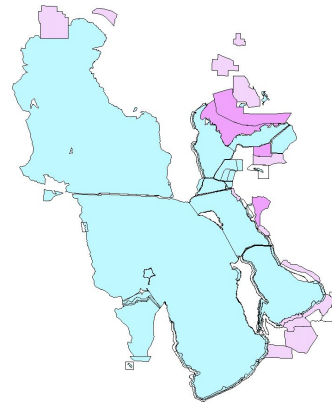
Numbers of LBDO



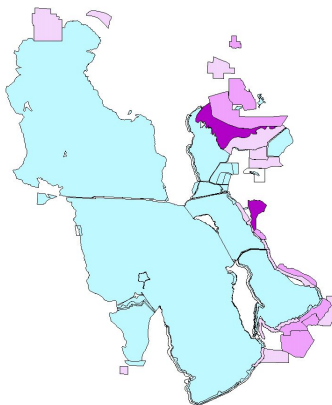
Period 1: April 6-15



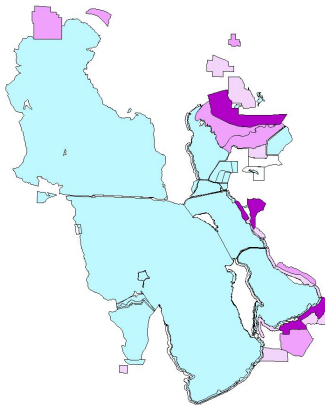
Period 2: April 16-25



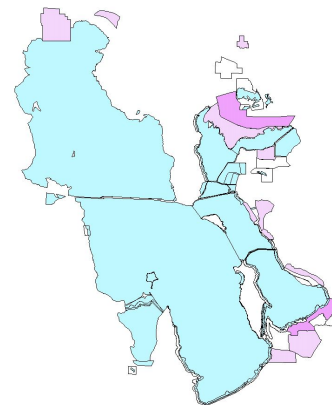
Period 3: April 26-May 5



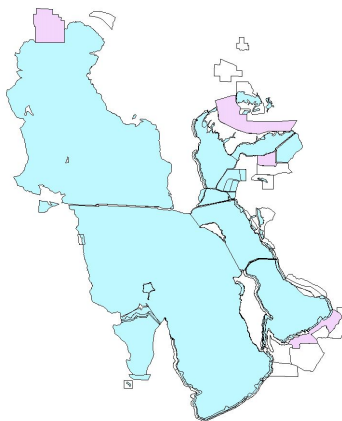
Period 4: May 6-15



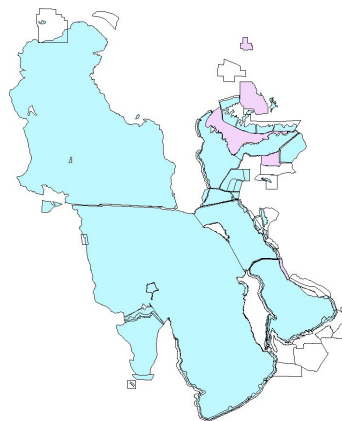
Period 5: May 16-25



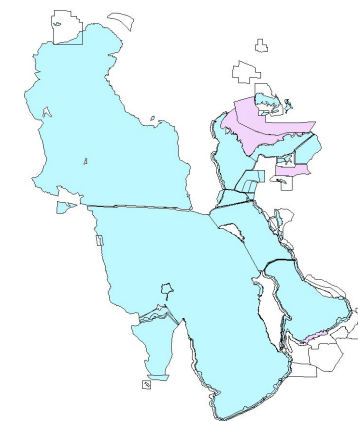
Period 6: May 26-June 4



Period 7: June 5-14



Period 8: June 15-24

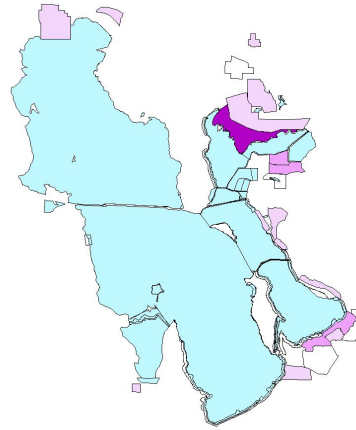
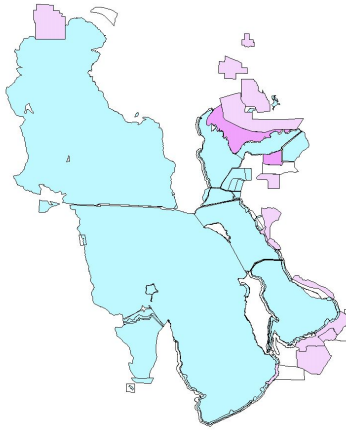
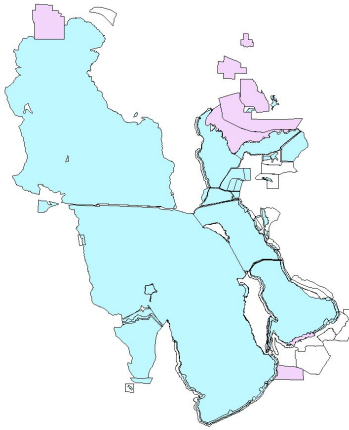


**Long-billed dowitcher distribution by survey period.**

Period 9: June 25-July 4

Period 10: July 5-14

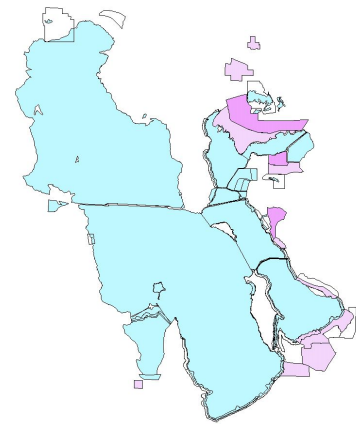
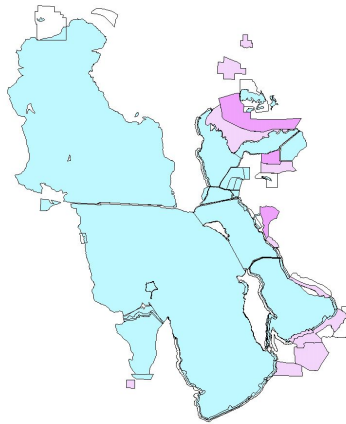
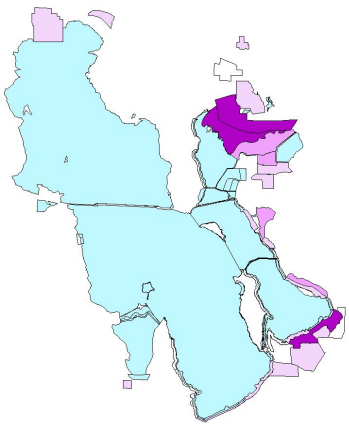
Period 11: July 15-24



Period 12: July 25-Aug 3

Period 13: Aug 4-13

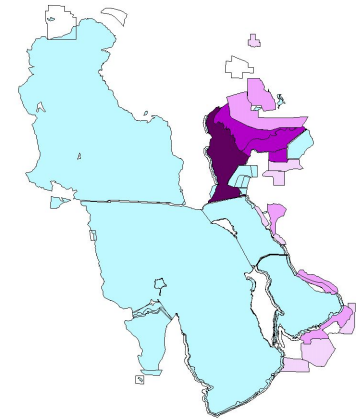
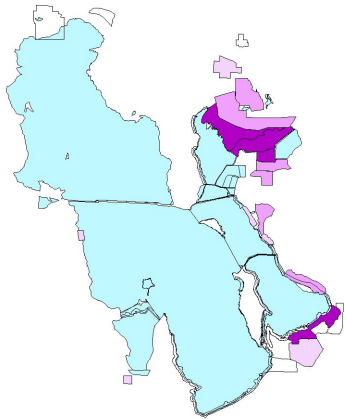
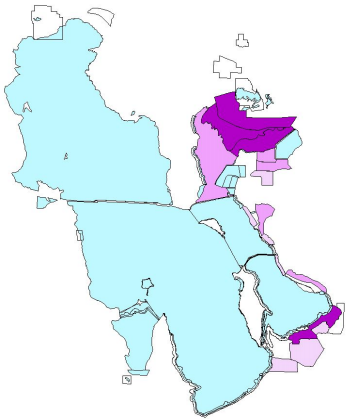
Period 14: Aug 14-23



Period 15: Aug 24-Sep 2

Period 16: Sep 3-12

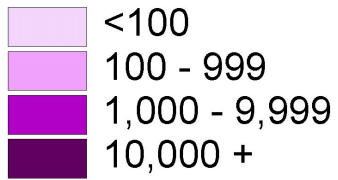
Period 17: Sep 13-22



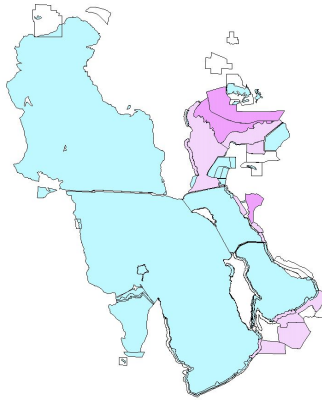


## Marbled godwit distribution by survey period.

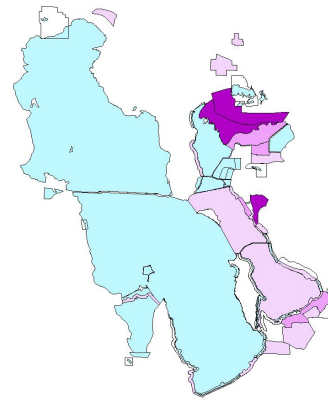
Numbers of MAGO



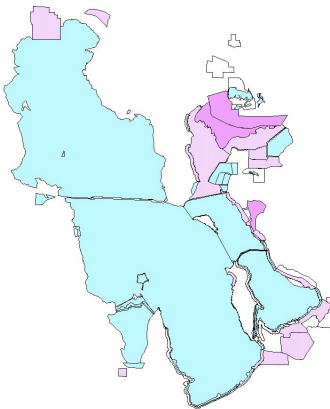
Period 1: April 6-15



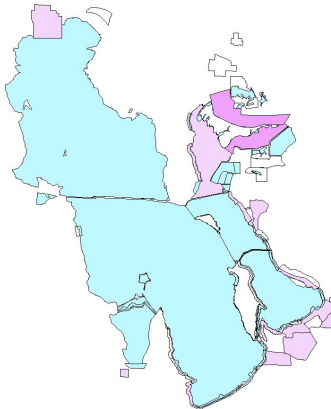
Period 2: April 16-25



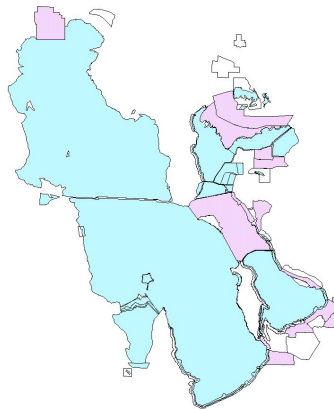
Period 3: April 26-May 5



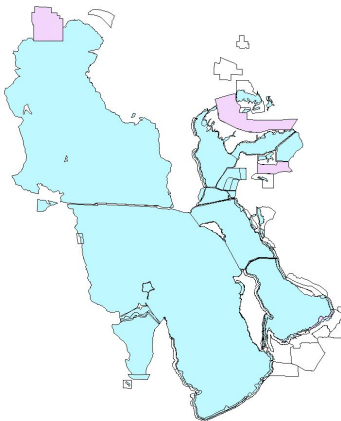
Period 4: May 6-15



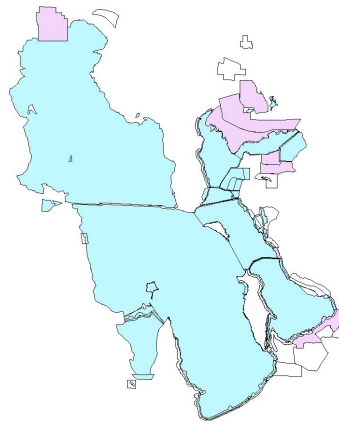
Period 5: May 16-25



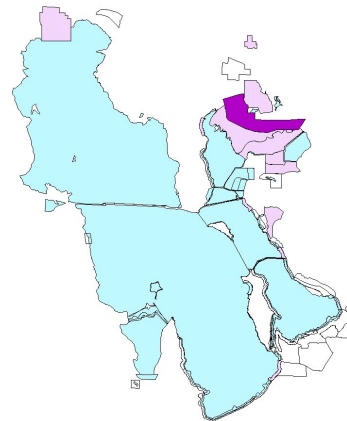
Period 6: May 26-June 4



Period 7: June 5-14



Period 8: June 15-24



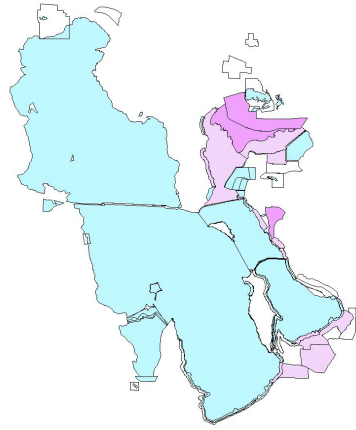
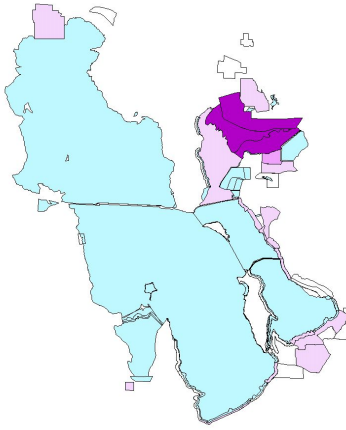
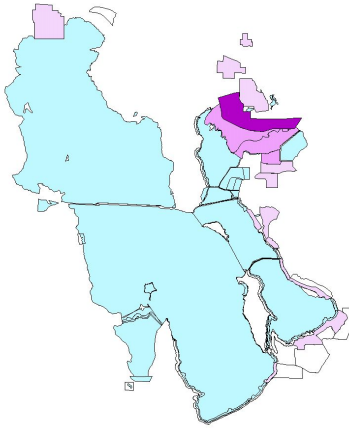


**Marbled godwit distribution by survey period.**

Period 9: June 25-July 4

Period 10: July 5-14

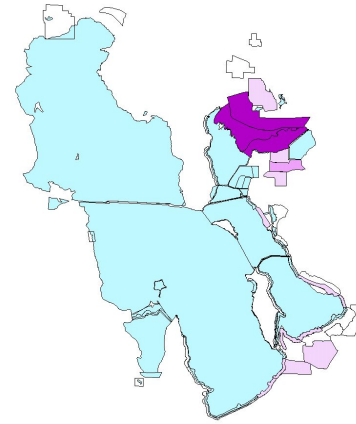
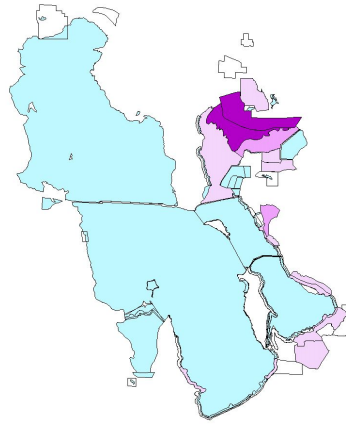
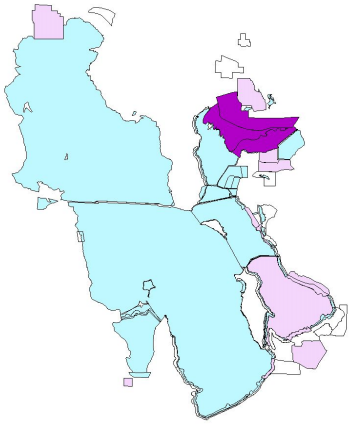
Period 11: July 15-24



Period 12: July 25-Aug 3

Period 13: Aug 4-13

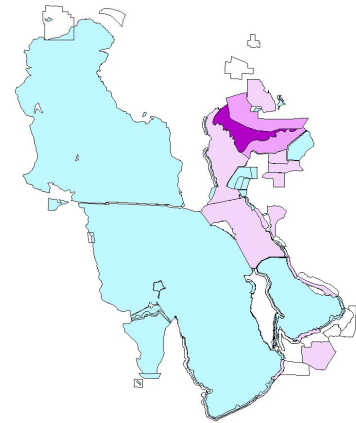
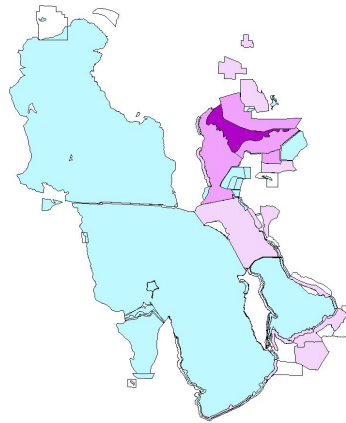
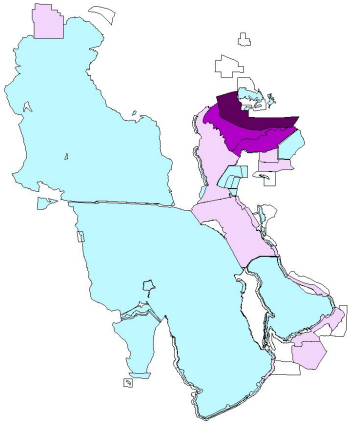
Period 14: Aug 14-23



Period 15: Aug 24-Sep 2

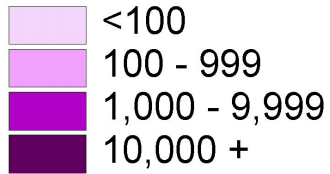
Period 16: Sep 3-12

Period 17: Sep 13-22

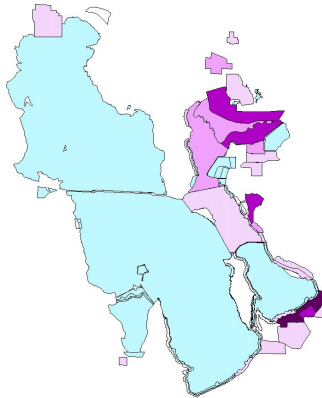


## Ruddy duck distribution by survey period.

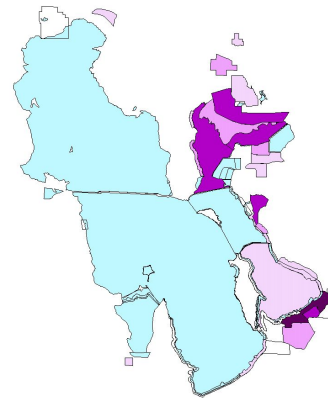
Numbers of RUDU



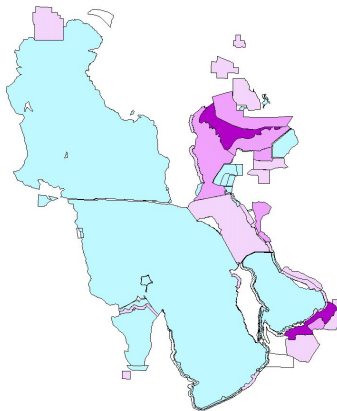
Period 1: April 6-15



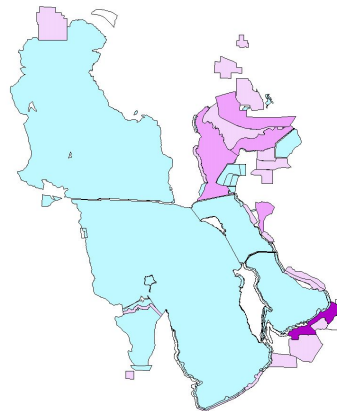
Period 2: April 16-25



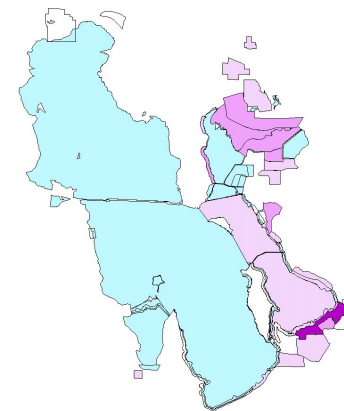
Period 3: April 26-May 5



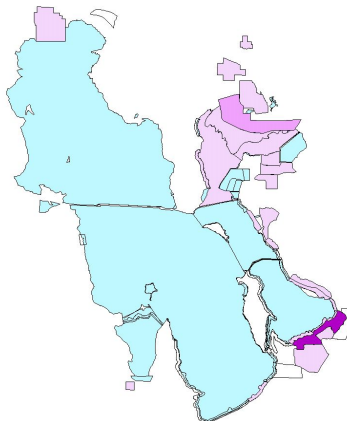
Period 4: May 6-15



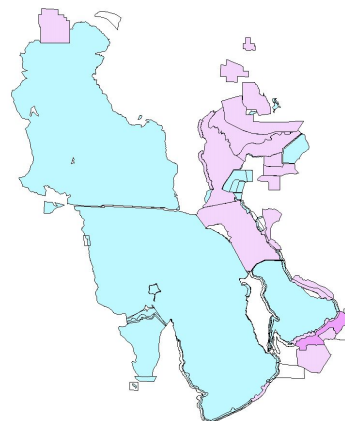
Period 5: May 16-25



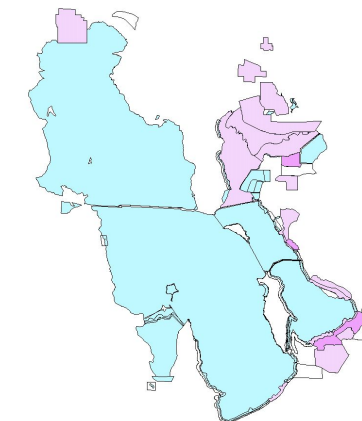
Period 6: May 26-June 4



Period 7: June 5-14



Period 8: June 15-24

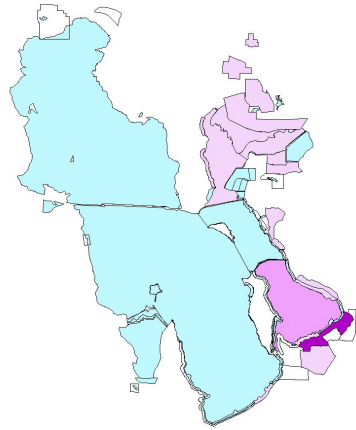
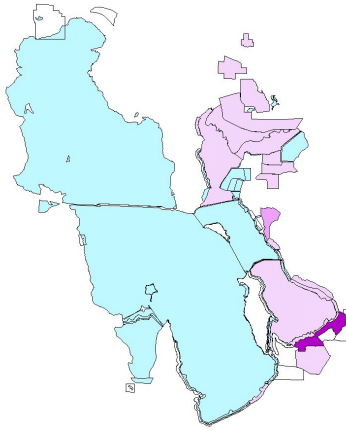
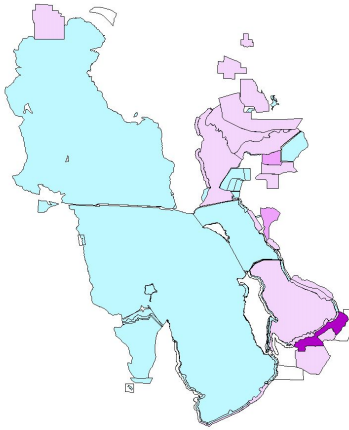


**Ruddy duck distribution by survey period.**

Period 9: June 25-July 4

Period 10: July 5-14

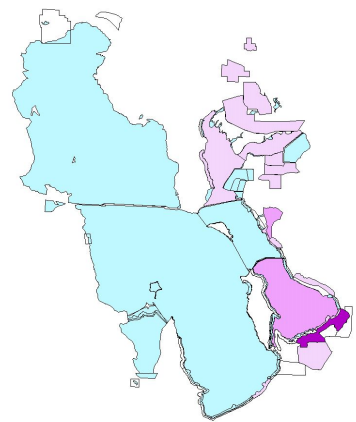
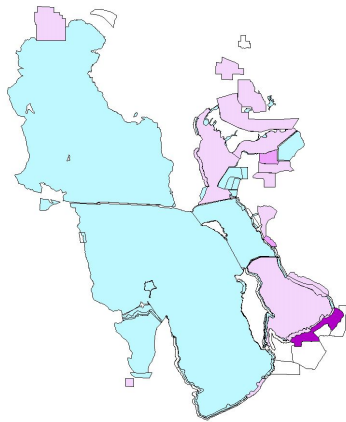
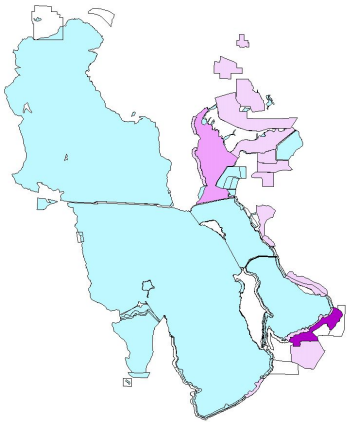
Period 11: July 15-24



Period 12: July 25-Aug 3

Period 13: Aug 4-13

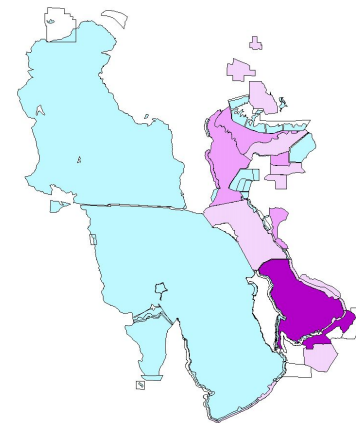
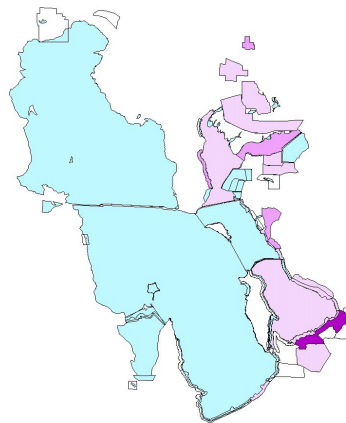
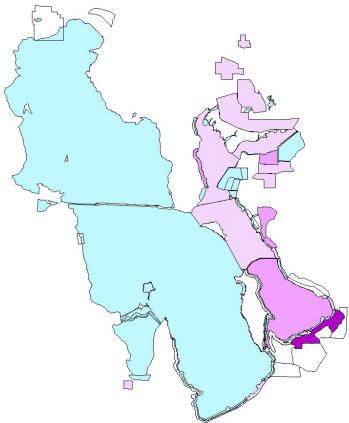
Period 14: Aug 14-23



Period 15: Aug 24-Sep 2

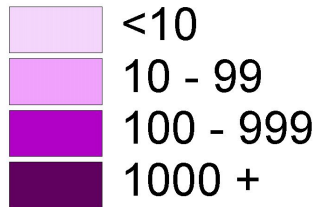
Period 16: Sep 3-12

Period 17: Sep 13-22

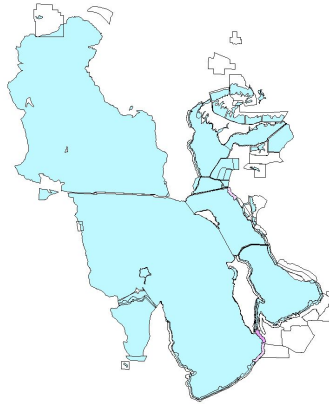


**Sanderling distribution by survey period.** Because sanderlings are at GSL in notable numbers during spring migration, only survey periods 1-5 are shown here.

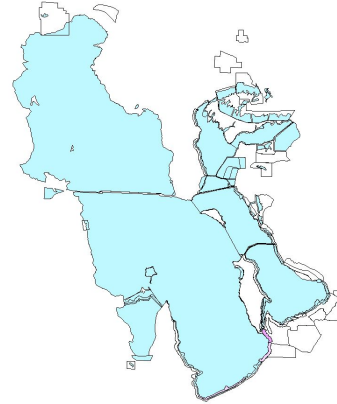
Numbers of SAND



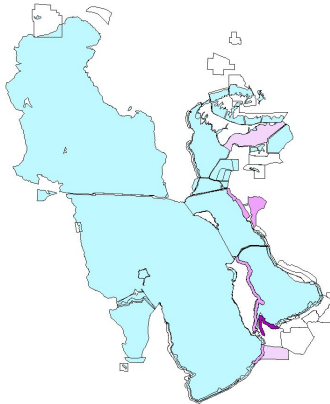
Period 1: April 6-15



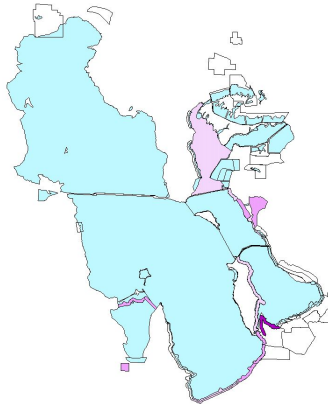
Period 2: April 16-25



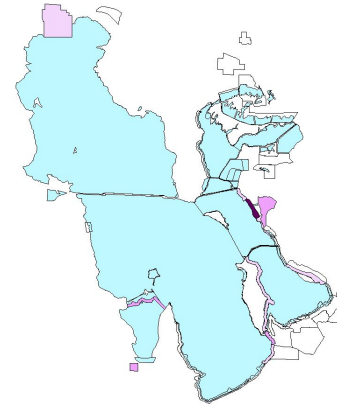
Period 3: April 26-May 5



Period 4: May 6-15

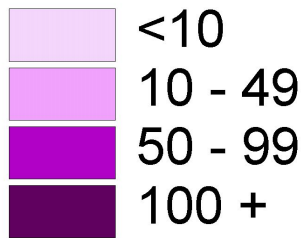


Period 5: May 16-25

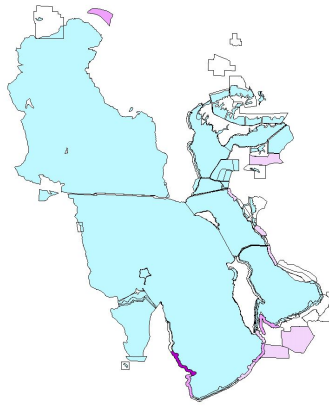


## Snowy plover distribution by survey period.

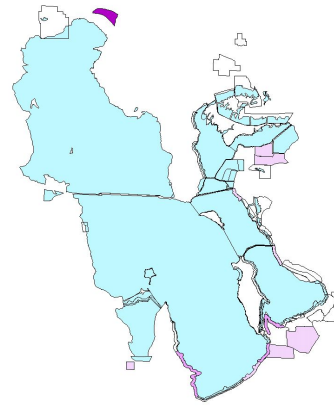
Numbers of SNPL



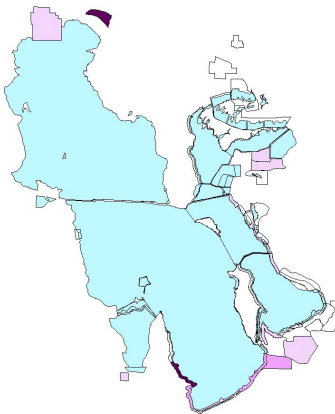
Period 1: April 6-15



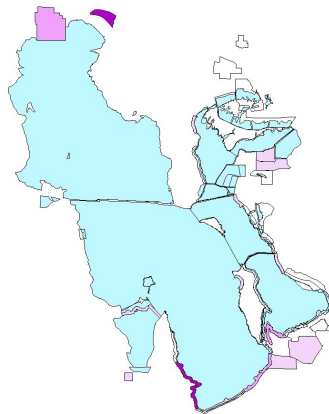
Period 2: April 16-25



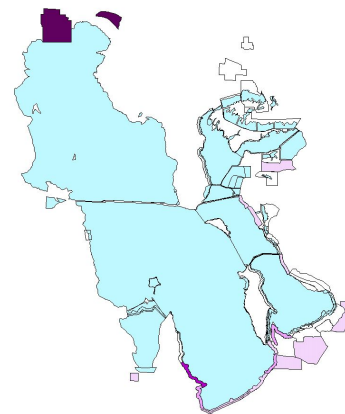
Period 3: April 26-May 5



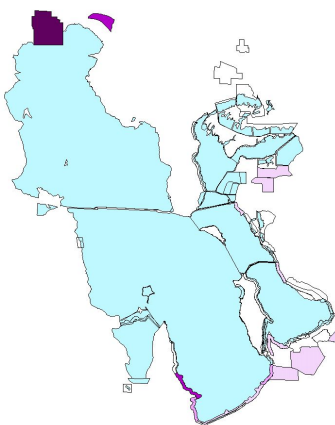
Period 4: May 6-15



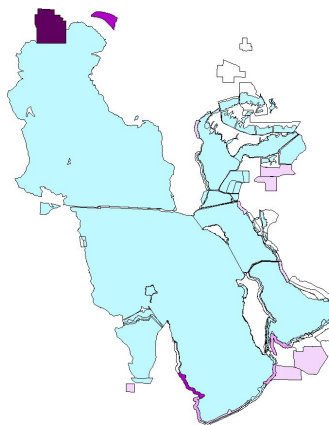
Period 5: May 16-25



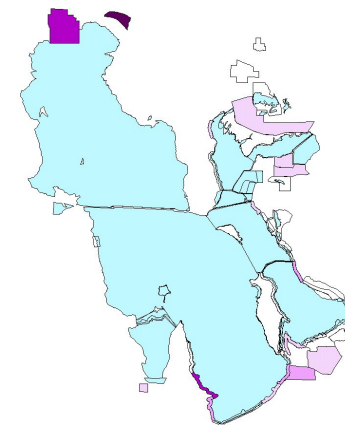
Period 6: May 26-June 4



Period 7: June 5-14



Period 8: June 15-24

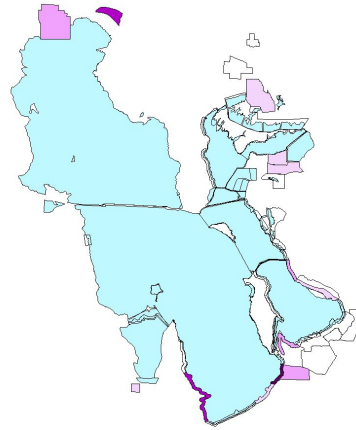
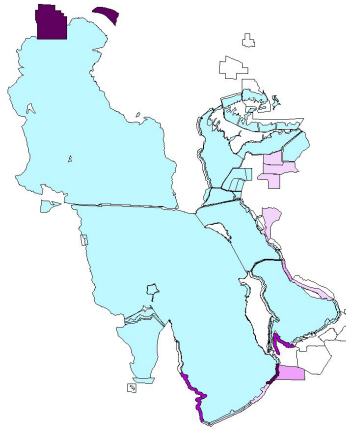
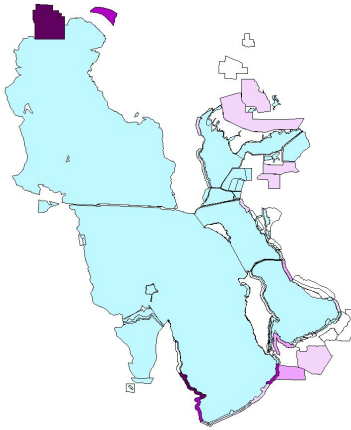


**Snowy plover distribution by survey period.**

Period 9: June 25-July 4

Period 10: July 5-14

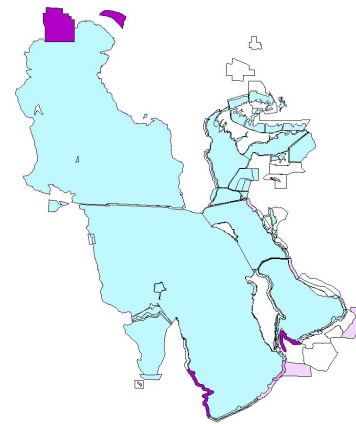
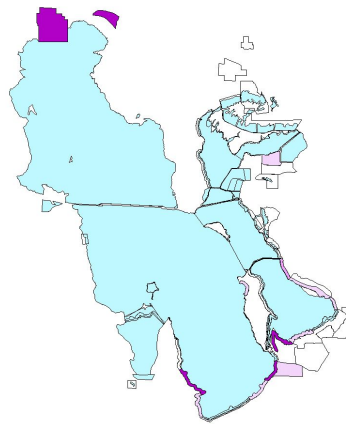
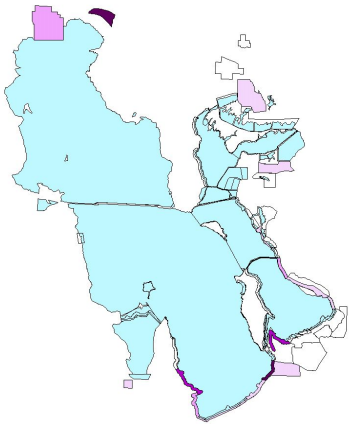
Period 11: July 15-24



Period 12: July 25-Aug 3

Period 13: Aug 4-13

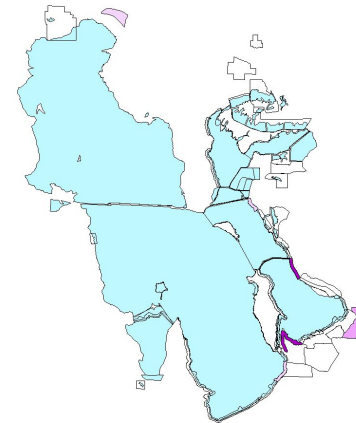
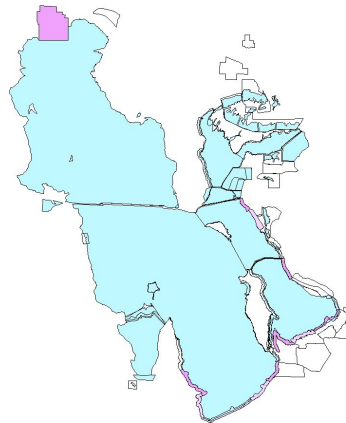
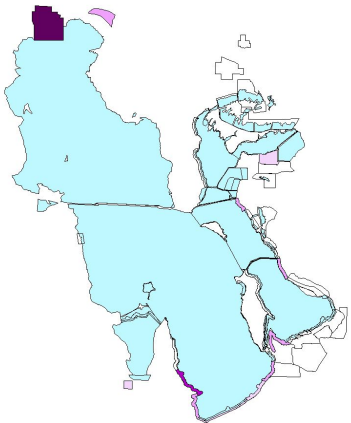
Period 14: Aug 14-23



Period 15: Aug 24-Sep 2

Period 16: Sep 3-12

Period 17: Sep 13-22



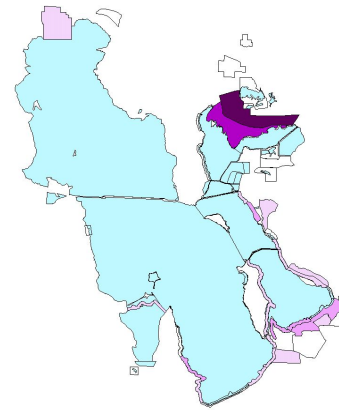
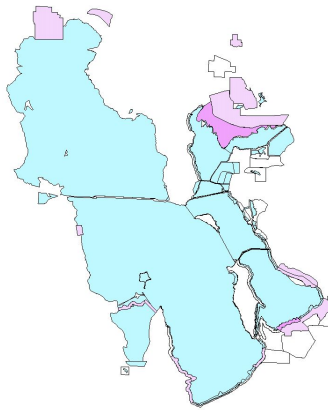
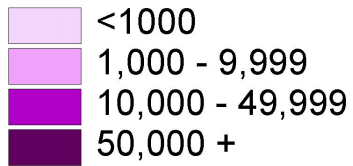


**Western sandpiper distribution by survey period.** The survey periods shown are times of western sandpiper presence at GSL.

Numbers of WESA

Period 9: June 25-July 4

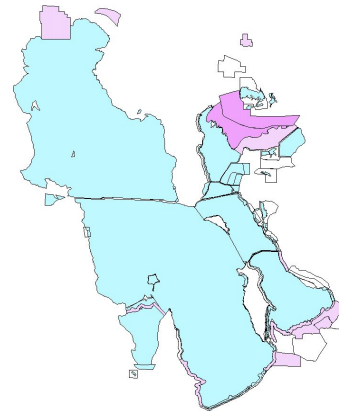
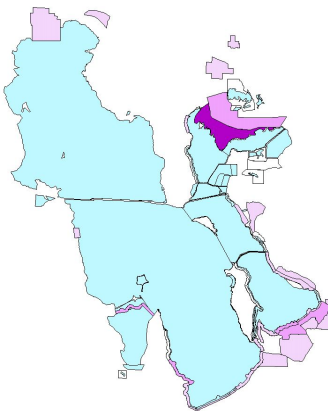
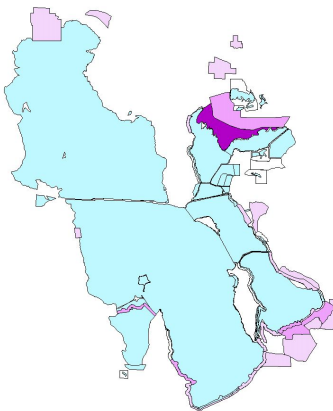
Period 10: July 5-14



Period 11: July 15-24

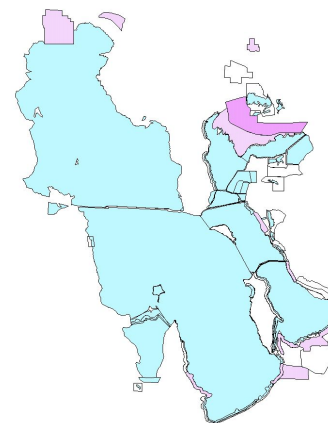
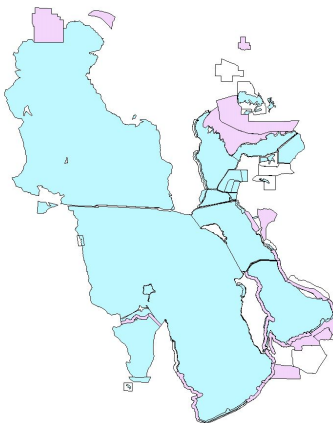
Period 12: July 25-Aug 3

Period 13: Aug 4-13



Period 14: Aug 14-23

Period 15: Aug 24-Sep 2



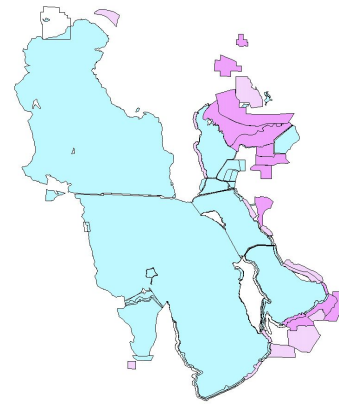
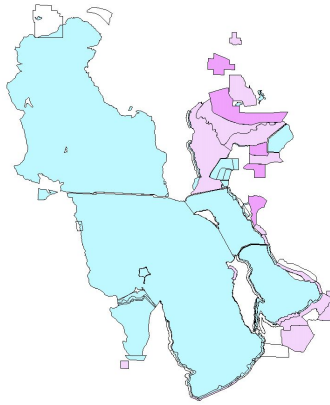
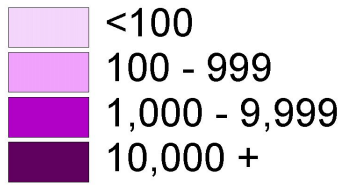


### White-faced ibis distribution by survey period.

Numbers of WFIB

Period 1: April 6-15

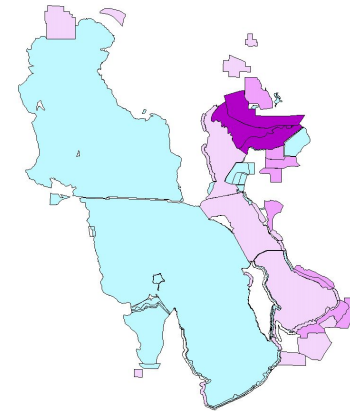
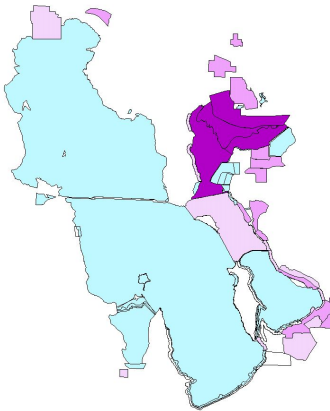
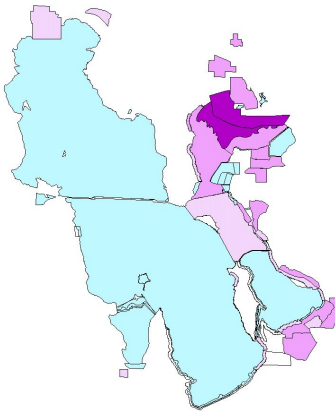
Period 2: April 16-25



Period 3: April 26-May 5

Period 4: May 6-15

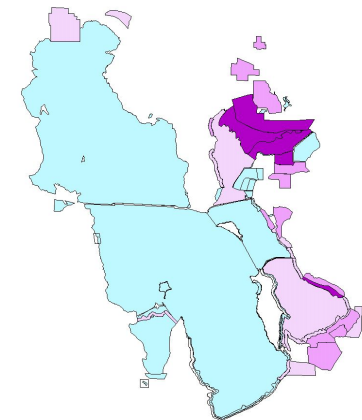
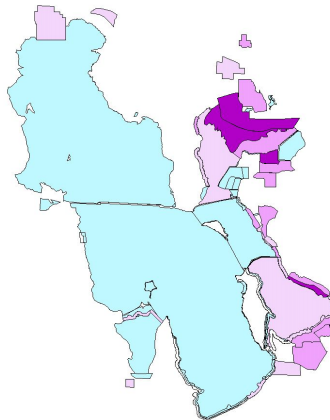
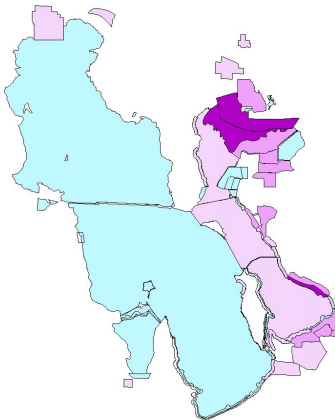
Period 5: May 16-25



Period 6: May 26-June 4

Period 7: June 5-14

Period 8: June 15-24

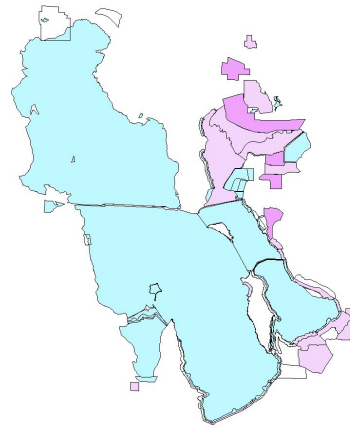
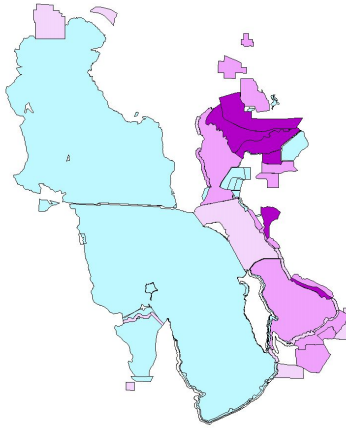
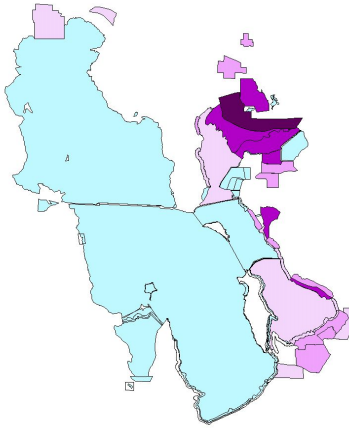


**White-faced ibis distribution by survey period.**

Period 9: June 25-July 4

Period 10: July 5-14

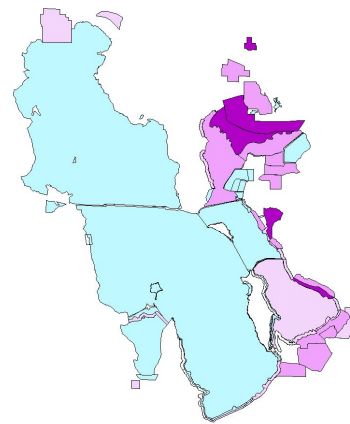
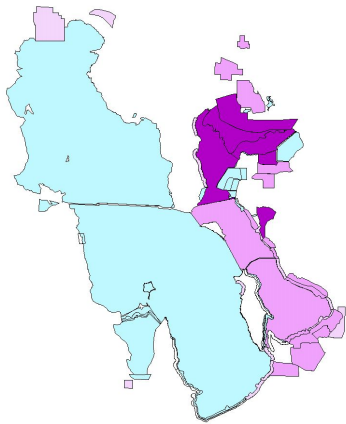
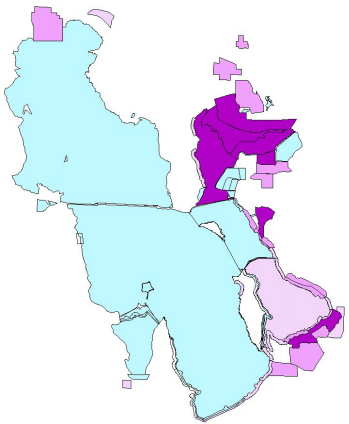
Period 11: July 15-24



Period 12: July 25-Aug 3

Period 13: Aug 4-13

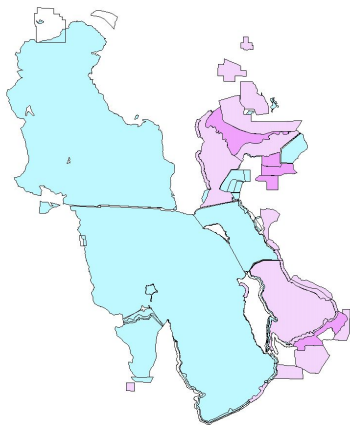
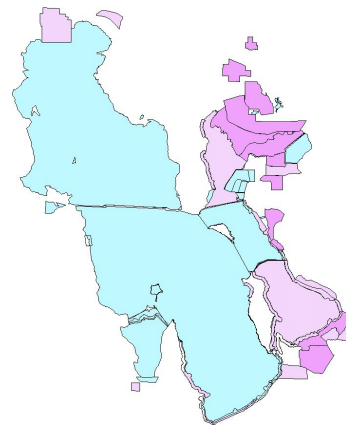
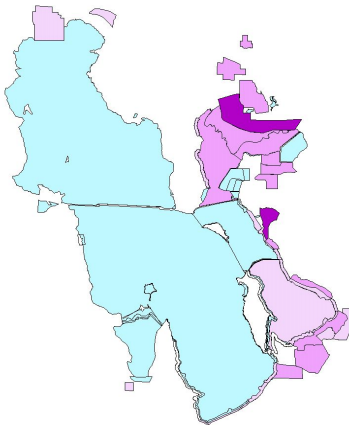
Period 14: Aug 14-23



Period 15: Aug 24-Sep 2

Period 16: Sep 3-12

Period 17: Sep 13-22

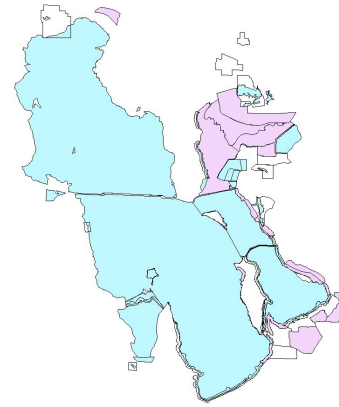
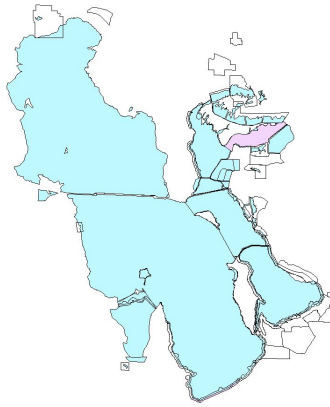
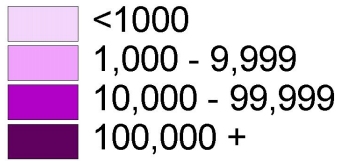


# Wilson's phalarope distribution by survey period.

Numbers of WIPH

Period 1: April 6-15

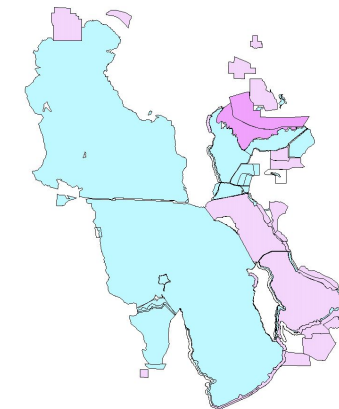
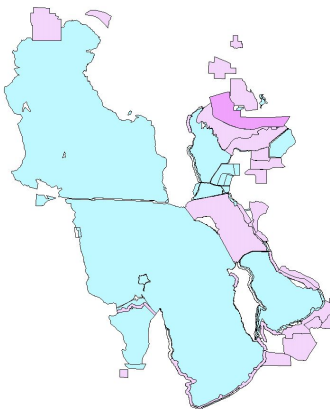
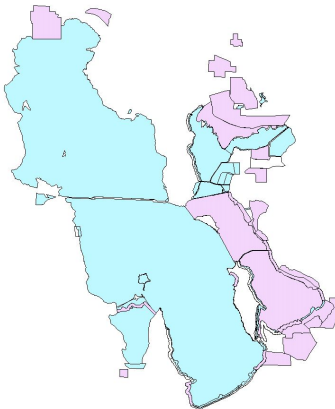
Period 2: April 16-25



Period 3: April 26-May 5

Period 4: May 6-15

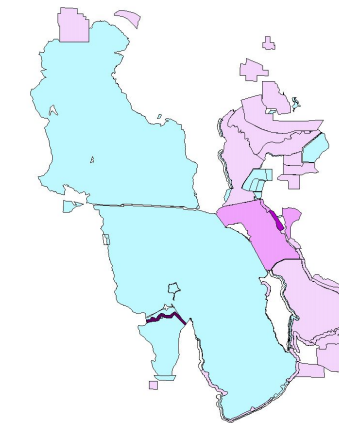
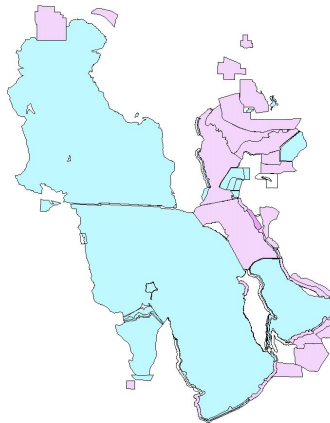
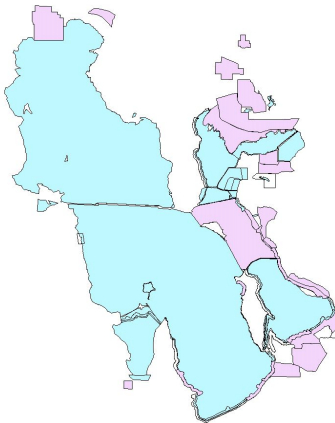
Period 5: May 16-25



Period 6: May 26-June 4

Period 7: June 5-14

Period 8: June 15-24

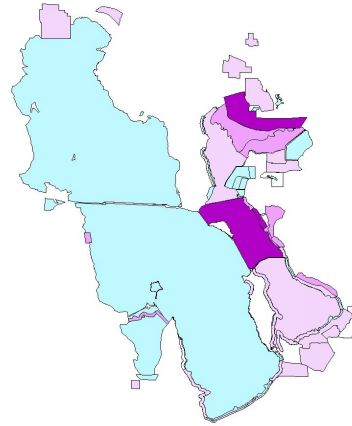
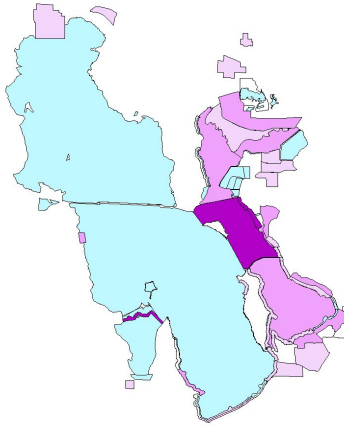
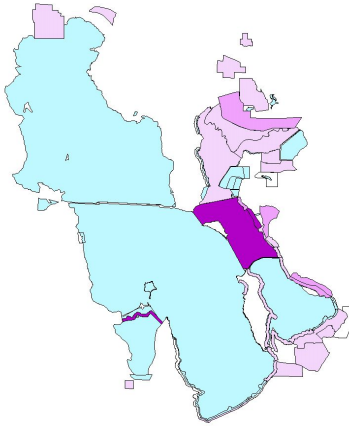


**Wilson's phalarope distribution by survey period.**

Period 9: June 25-July 4

Period 10: July 5-14

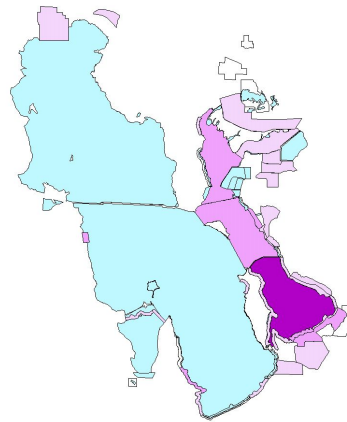
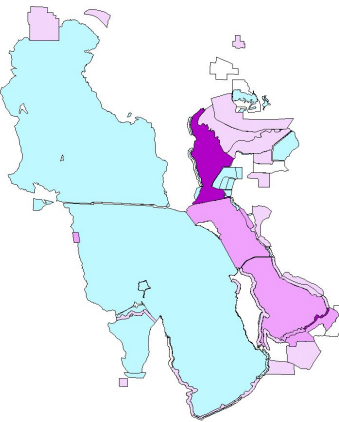
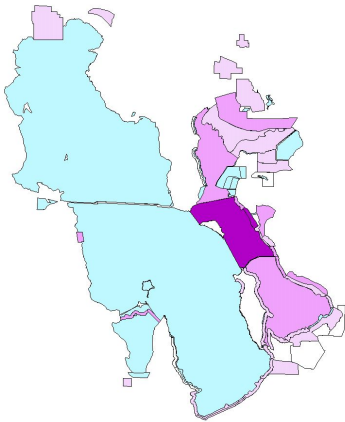
Period 11: July 15-24



Period 12: July 25-Aug 3

Period 13: Aug 4-13

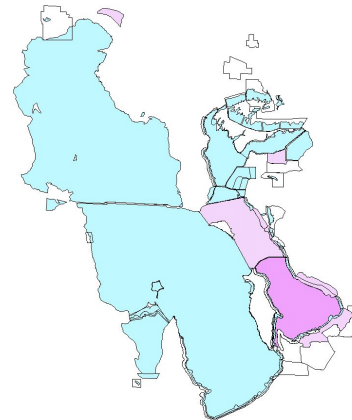
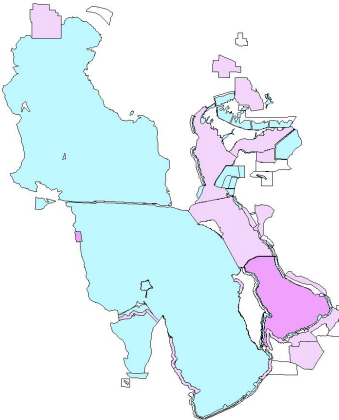
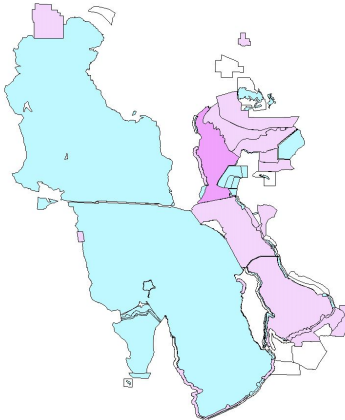
Period 14: Aug 14-23



Period 15: Aug 24-Sep 2

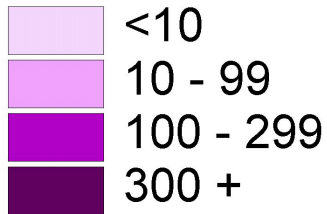
Period 16: Sep 3-12

Period 17: Sep 13-22

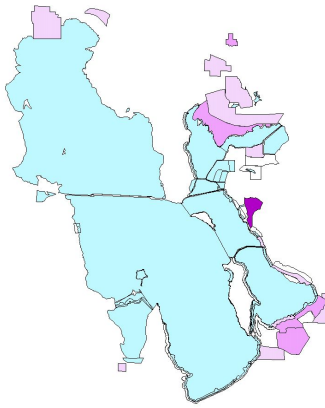


## Yellowlegs distribution by survey period.

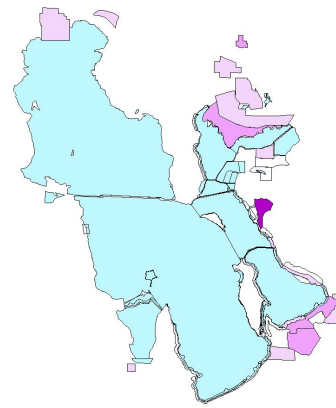
Numbers of YELLOW



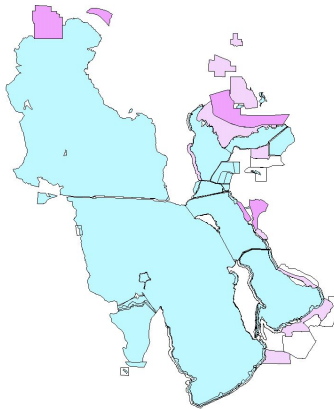
Period 1: April 6-15



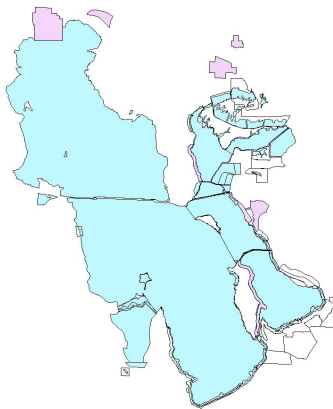
Period 2: April 16-25



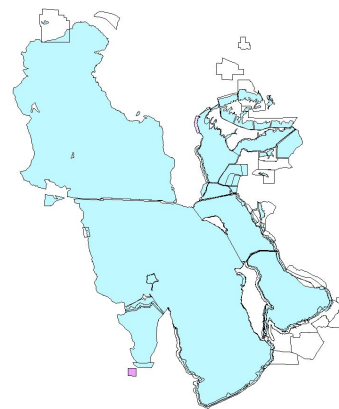
Period 3: April 26-May 5



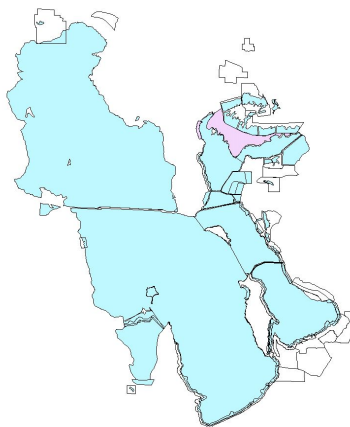
Period 4: May 6-15



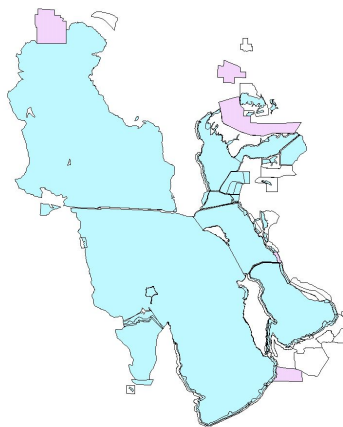
Period 5: May 16-25



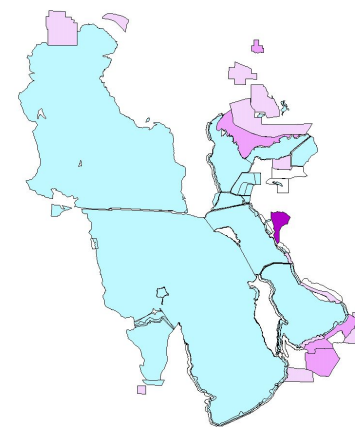
Period 6: May 26-June 4



Period 7: June 5-14



Period 8: June 15-24

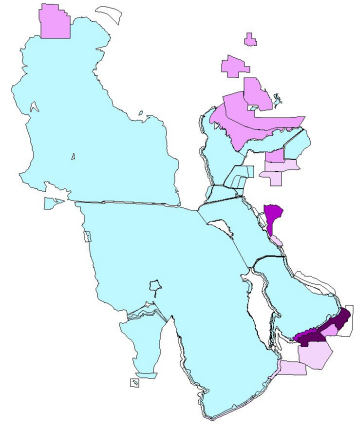
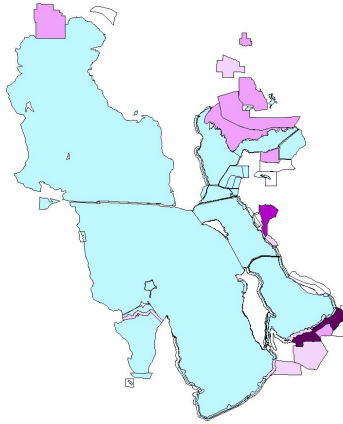
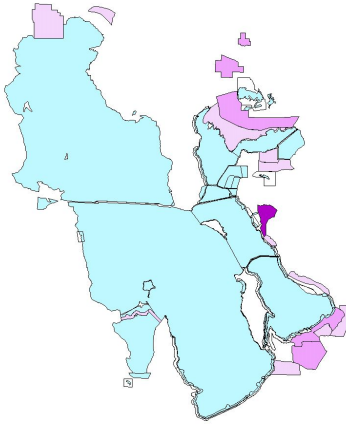


**Yellowlegs distribution by survey period.**

Period 9: June 25-July 4

Period 10: July 5-14

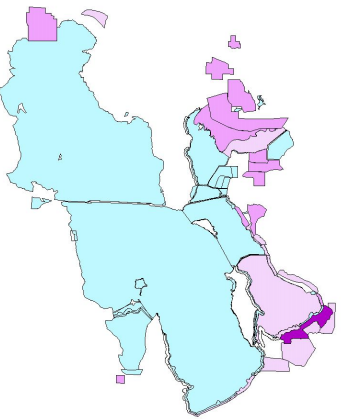
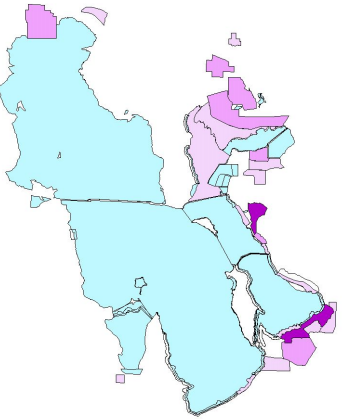
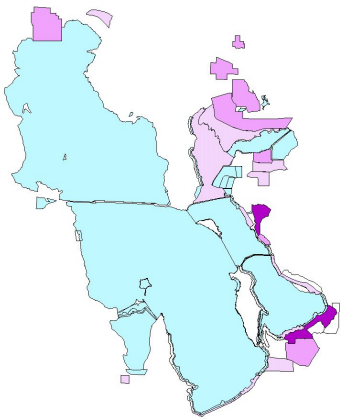
Period 11: July 15-24



Period 12: July 25-Aug 3

Period 13: Aug 4-13

Period 14: Aug 14-23



Period 15: Aug 24-Sep 2

Period 16: Sep 3-12

Period 17: Sep 13-22

