

Lake 11/2 3/29/12 7am MB (1hr. +)

- ✓ NOD1 11, 4, 4
- ✓ Sharptail - 4
- ✓ CAGO - 4, 5, 12, 19, 2, 4, 4, 4
- RNPH - 2
- ✓ CANV - 60 e, 10, 10, 2927, 60, 60, 200, 100, 60, 10
- ✓ REDH - 20 e, 20, 3, 5, 10, 20, 30, 10, 10
- ✓ RNDU - 1, 1, 2, 8
- ✓ QADW - 1
- ✓ CAGO - 2, 2, 7
- ✓ MALL - 2, 2, 6, 4, 10, 7, 5, 4
- ✓ WSHO - 1, 10, 5, 3
- ✓ AMCO - 1
- ✓ BUFF - 2, 1/1
- ✓ LESC - 2, 3, 2, 9, 3, 12
- ✓ AGWT - 10, 26, 2, 2
- ✓ AMWI - 2, 1
- ✓ TUSW - 4

Mallard Pond 8:30

- RNDU - 4, 16, 6, 10, 1
- AGWT - 10, 7
- CAGO - 2, 4
- MALL - 8
- REDH - 6
- LESC - 1
- BWTE - 1
- NOD1 - 8
- EAGR - 1
- AMWI - 2
- RBGU - 2

Med Lake 3/29/12 9:13

- TUSW - 6
- MALL - 6, 1
- AMCO - 2
- CAGO - 4
- CANV - 5
- LESC - 4

Avian Health Transects

VK

Location Lake 11/12 Date 3/29/12 Start Time 7 A

Observers M. Borgreen

Species Code	Total #	Comments
CANV	617	
GADW	1	
COGO	11	
REDH	128	
RNEA	2	
CANG	54	
STGR	4	
NODI	10	
TWSW	4	
NSHO	19	
AMCO	1	
BLFF	4	
LESC	20	
GWTE	20	
AMW	3	
MALL	40	
RNDU	12	

✓LE

Observers M. Borgheen

[illegible]

546

Observers M. Borggreen

[illegible]

Lake 11/12 S. Bargreen

4/5 10:00 am Bad light at beginning

CANG 8, 2, 4, 2, 5, 10, ~~2~~, 2, 2

UNDU 14, 3, 3, 8, 6

NOPI - 8, 6, 2, 4, 2, 3

MALL - 2, 2, 2, 2, 3, 2, 2, 2, 2, 3, 2, 2, 2, 2, 4

LESC - 6, 13, 5, 4, 5, 4, 11, 4, 3, 8, 11, 20, 10, 3, 3, 4, 10, 15, 30, 5, 10, 16, 16, 10, 8, 20, 10, 10, 12

RUDU - 2, 4, 30, 30

GWTE - 10

REDH - 2, 6, 10, 3, 2, 2, 2, 4, 5, 8

CANV - 2, 2, 4, 7, 5, 5, 8

AMCO - 12, 11, 5, 8, 3, 5

GADW - 2, 3, 1, 2

BUFF - 1, 2, 1, 2, 1, 3, 1

NSHO - 4, 2, 15, 2, 8, 9

BWTE - 1, 1

RNDU - 2, 2, 2, 4, 2, 8, 60

GADW - 2, 4, 1, 4, 9

AMWI - 3, 1

Jerde 4/5 12:30 pm

Amco - 300

PBGR - 1, 1

CANG - 6, 4, 4, 7

GWTE 3

CANV - 2

REDH - 4, 4

GADW - 2, 4

MALL - 2

Lots of emergent veg, visibility will be poor later.

most open area holding most ducks is the SE 1/4 of wetland.

Lots of coots.

actually center on further inspection of area

Wigeon slough 4/5 1:20 pm

LESC - 4, 2, 20, 8, 10

REDH - 20, 3

CANV - 6, 7

BUFF - 1, 2

Goldeneye - 1 hen, 4 (common), 13

RNDU - 4

NOPI - 15

GADW - 4

AMWI - 2

CANG - 3, 9

EAGR - 1

NSHO - 13, 9

WRS + 50 NOPI

50, 75 REDH

4 MALL

10 AMWI

50 GADW

75 LESC

2, 10 CANV

2, 5 COGO

3 NSHO

1 GADW couldn't fly - swam to middle of pond

Avian Health Transects

NO

Location Lakes 11/12 Date 4/5/12 Start Time 10A

Observers D. Borggreen

Species Code	Total #	Comments
GANG	39	Bad light @ beginning of Survey made duck ID difficult
AMCO	34	
CANV	33	
REDH	44	
GWTE	10	
RUDU	2	
LESC	355	
MALL	34	
NOPI	25	
GADW	8	
RN DU	86	
UNDU	34	
AMWI	3	
BWTE	2	
GADW	20	
BLFF	11	
NSHO	40	

140

Observers D. Borgreen

[illegible]

Avian Health Transects

Location Migeon Slough Date 4/5/12 Start Time 1:20p

Observers D. Bergreen

Species Code	Total #	Comments
MALL	4	West Wetland ↓
NSHO	3	
COGO	7	
CANV	12	
CANV	13	East ↓
AMWL	2	
GADW	56	West - one unable to fly East
GADW	4	
LESL	115	West
NOPI	15	East
RNDU	4	↓
CANG	12	
BUFF	3	
REDH	23	
LESC	44	
EAGR	1	↓
NSHO	22	
REDH	125	
NOPI	50	West ↓ East
AMWL	10	
COGO	18	

Avian Health Transects

Location Lakes 11/12 Date 4/12/12 Start Time 7:15
 Observers K. Emerson

Species Code	Total #	Comments
EAGR	16	
BWTE	2	
NSHO	428	
AMWI	2	
MALL	30	
LESC	625	
BUFF	19	
GADW	20	
NOPI	9	
CANG	30	
RUDU	4	
AINPE	14	
RNDU	109	
AMCO	73	
REOH	17	
CANV	8	

NE

Location Mallard Pond USA Date 4/12/12 Start Time 10 A

Observers K. Emerson

[illegible]

NO

Observers K. Emerson

[illegible]

ME

Start Time 9:45am

Observers E. Helmer

[illegible]

NE

Start Time 12:14 pm

Observers E. Helmers

Observed
E' of wetland

✓KE

Lakes 11/12 complete

E. Heilmers
4-18-12 9:45A

CANG	106 + 26	= 132
AMCO	9 + 108	117
MALL	17 + 42	59
NSHD	68 + 248	316
MPI	42 + 35	77
LESL	44 + 263	307
AMPE	10 + 7	17
TJW	2	2
GADW	9 + 97	106
CAGU	1 + 154	155
GWTE	4	4
FREGU	224	224
CANV	14	14
BUFF	4	4
DCCO	1	1

Avian Health Trans

MS

Location Ngear Slough Date 4/20/2 Start Time 9A

Observers D. Borggren, K. Emerson

Species Code	Total #		Comments
	east	west	cloudy & windy
LESC	2+12+20+16+2+50+10+20 (132)	14+8 (39) 14+6+4+3	
EAGR	4+1+1 (6)	1+1 (2)	
REDH	2+2+4+2+2+8+5 (25)	2+4 (6)	
NDPI	2+1+1+3+1 (8)	2+2 (4)	
RNDU	2 (2)		
CANG	4+2+2+2+9+1+19+1 (30)		
MAGO	1 (1)		
CANV	2+2+20 (24)		
MALL	3+4+3+2+2 (14)	2+2+2+2 (8)	
NSHD	6+2+1+2 (17)	4+2+4+2+2 (14)	
BUFF	1+2 (3)		
GADW	2+2+2 (6)	2+8+2+2+2+2 (18)	
KILL	1 (1)		
GUITE	6 (6)	1 (1)	
PBGU	1 (1)		
AMAV	20 (20)		
AMWI		2 (2)	
PBLR		1 (1)	

ME

Avian Health Transects

Location Mallard Pond Date 4/24/12 Start Time 11:15

Observers D. Borggren & K. Emerson

Species Code	Total #	Comments
AMCO	(30)	
CANG	3+2, 1 (6)	
LESC	30, 4, 1 (35)	
REDH	2 (2)	
RNDU	10 (10)	
GADW	4, 2, 2, 1, 4 (13)	
LEYE	(3)	
NSHO	(2)	
MALL	(2)	
AMWI	4, 4, 4, 4, 2 (18)	
CANN	(2)	
BWTE	4, 2 (6)	
MAGT	1, 1 (2)	
NOPI	(1)	
RNDU	(2)	

Avian Health Transects

Location Homestead Date 4/24/2012 Start Time 8:35A

Observers K. Emerson, D. Burgeen

Species Code	Total #	Comments
MALL	3, 1, 2, 4, 1, 3, 2, 2, 2, 1, 2, 2, 4, 1, 2, 2, 2, 2 (38)	
NOPI	1, 2, 6, 8, 2, 1, 1, 4, 4, 1, 3, 2, 2, 1, 1, 2, 2, 2, 1, 2, 2, 2, 2, 4, 2, 1, 3 (60)	
GADW	2, 3, 2, 4, 4, 2, 5, 2, 2, 2, 4, 2, 10, 2, 3, 8, 4, 2, 2, 2, 2, 2, 1, 2 (76)	
BWTE	3, 2, 1, 4, 2, 4, 4, 2, 1, 4, 2, 2, 2, 2 (35)	
NSHO	3, 1, 2, 2, 1, 4, 1, 2, 4, 2, 10, 14, 2, 2, 1, 12, 1, 10, 10, 12, 12, 10, 2, 2, 2, 12, 2 (139)	
CANG	1, 2, 2, 2, 3, 4, 2, 2, 2, 1, 3, 4, 2, 20, 2, 1, 3, 2, 2 (60)	
AMWI	2, 4, 1, 2, 2, 2, 4 (17)	
AMPE	6, 1, 10, 3, 4, 10 (34)	
FRGU	15, 12, 3, 15, 2, 2, 4, 3, 13, 24, 24 (117)	
RBGU	8, 12, 2, 2 (24)	
LEYE	12, 8 (20)	
MAGO	2, 1, 1, 2, 3, 1 (10)	
UNDR	60, 80, 25, 2, 8, 100, 30 (205)	backlight from sun. ID difficult
KILL	1, 2 (3)	
WILL	1, 1 (2)	
LESC	10, 2, 2, 6, 20, 20, 10 (70)	
GWTE	1, 1, 1, 16, 3, 2, 1, 2, 14, 2, 2 (45)	
AMAV	1, 2, 1 (4)	
RNDU	1 (1)	
BUFF	1 (1)	

Avian Health Transacts

VKE

Location Wigeon Slough Date 4/25/2012 Start Time 9A

Observers K. Emerson

Species Code	Total #		Comments
	East	West	
MALL	1, 4, 2 (20) 12, 2, 1, 2, 2, 2, 2	2, 1, 2 (5)	
LESC	4, 2, 5, 1 (8) 19, 2, 2, 10, 7, 32	40, 3, 1 (44)	
GADW	2, 2, 1, 1, 2 (8)	2, 4, 2, 1, 12, 4, 3, 1, 2 (49)	
CANV	2, 6, 4 (12)		
CANG	2, 5, 19, 3 (29)		
NSHD	16, 2, 1, 2, 2, 2 (36)	3, 4, 4, 2, 8, 2, 1, 1, 4 (33) 2	
GUWE	12, 8 (20)	4, 2, 2, 2 (10)	
AMAU	2 (2)		
FRGU	1 (1)	12, 2, 10 (24)	
EAGR	1, 4, 1, 2 (8)	2 (2)	
RBGU	2, 3 (5)	1 (1)	
RUDU	1, 1, 2, 6 (10)		
NOPI	2, 1, 2, 1 (6)	1, 1, 1, 2, 4, 1 (10)	
REDH	5 (5)	2, 2 (4)	
AMLO	4 (4)		
BLFF	2 (2)	1, 1 (2)	
BWTE		4, 4, 2, 4, 2 (16)	
KILL		1 (1)	west lake ~10ft of algae on southern edges
AMWI		2 (2)	
WILL		1 (1)	
UNDU		2 (2)	
WISH	1 (1)		

Avian Health Transects

Location Mallard Pond

Date 4/25/2012

Start Time 11:35A

NE

Observers K. Emerson

Species Code	Total #	Comments
LESC	2, 1, 2, 4, 4, 4, 7, 8, 1, 6, 1, 2, 2, 49	
AMCO	4, 2, 1, 2, 2, 1, 1, 2, 10, 1, 1, 2, 1, 1, 1, 2, 1, 35	
CANG	2, 2, 2, 1, 2, 1, 1, 1, 1, 14	
RUDU	1, 4, 1, 1, 7	
REDH	2, 1, 2, 1, 4, 2, 12	
MALL	1, 2, 2, 1, 1, 1, 1, 1, 2, 2, 2, 16	
EAGR	4, 4	
CANV	1, 1, 2, 4	
NDPI	1, 1, 1, 2, 2, 4, 11	
BWTE	1, 4, 5	
NDHO	11, 1, 4, 16	
GIADN	3, 2, 4, 2, 12, 23	
RNGR	1, 1	
AMWI	2, 8, 2, 4, 2, 2, 20	
KILL	1, 1	
FRGM	2, 2	

Avian Health Transects

Location Lakes 11/12

Date 4/26/2012 Start Time 7:40A

etc

Observers K. Emerson

Species Code	Total #	Comments
NSKO	1,12,1,34,7,7,4,2,2,12,20,20,10,35 2,2,2,4,2,2,4,3,2,13,2,4,2,30	(241)
AMWI	1,1	(2)
CANW	1,2,2,2	(7)
BWTE	2,1,2,2,6,2,6,11,9,3,2,2,6,3,12,7	(71)
CANG	2,2,10,2,2,2,18,1,2,2,2,1,2	(48)
LESC	1,2,6,3,4,4,4,5,25,3,3,35,25,20,1,40,6 3,4,10,20,1,6,12,9,2,12,1,15,19,5,12,6,6,8,5,9,4,12	(366)
BUFF	2,2,2,2,1	(9)
MALL	2,1,2,1,2,1,2,5	(17)
NOPI	2,4,1,2,2,2,2,3,2,2,1,4	(29)
AMLO	1,1,1,2,15,1,2,1,2,14,1,4,5,8,4,7,2, 10,20,2	(103)
RBGU	4,1,1	(6)
GADW	2,2,4,4,2,6,6,4,2,8,10,3,1,6,4,10	(74)
WEGG	1	(1)
REDH	2,4,4,4,8,4,2	(28)
EAGR	1,1,6,1,2,1,1,15,6,4	(40)
RUDU	12,45,2,1,1	(61)
FRGU	2	(2)
UNDU	12	(12)
WIPH	3	(3)
AMPE	2	(2)

too far, bad lighting

elle

Date 5/2/2012 **Start Time** 7:45A

Observers K. Emerson

Species Code	Total #	Comments
NSHO	2, 1, 2, 2, 2, 2, 9, 2, 2, 2, 4, 4, 35, 4, 12, 8, 2, 1, 1, 3, 2, 2, 45, 40, 2, 2, 8, 1, 4, 2, 20, 10, 5, 25, 8, 12, 1	320
MALL	2, 1, 2, 1, 1, 2, 2, 2, 1, 1, 1, 1, 2, 2, 4, 2, 3, 2	32
CAWTE	7, 1, 4, 5, 7, 3, 1	28
BWTE	2, 1, 2, 2, 3, 4, 2, 4, 1, 3, 10, 2, 16, 2, 5, 2, 2, 2, 3, 2, 3, 3, 3, 3	82
GADW	2, 2, 5, 2, 2, 2, 2, 2, 2, 4, 2, 2, 1, 1, 2, 8, 2, 16, 10, 4, 20, 4	99
LESL	2, 2, 8, 2, 9, 23, 12, 6	64
AMWI	2, 2, 1, 16	21
AMAV	15, 6, 1, 20, 30, 2, 7	81
FRGU	8, 14, 10, 4, 15, 12, 5	68
GRYE	7, 1	8
NOPI	2, 2, 2, 2, 3, 1, 2, 2, 1, 4, 2, 4, 2, 2, 2	33
KILL	1, 2, 1, 1, 1	6
CANG	4, 2, 3, 4, 1, 4, 4, 3, 7, 1, 1, 2, 1, 2, 1, 2, 2	44
AMPE	1, 3	4
MARGO	6, 25, 1, 1, 1, 1, 1, 2, 3	41
WINDU	40	40
REBLU	5, 11	16
WILL	1, 1, 2, 1, 1, 1	one willet on eastern pond with one leg - appears to get around fine 7
LEYE	3, 2	5
WPH	2, 2, 4, 3	11

Avian Health Transects

Location 11/12

Date 5/4/2012

Start Time 1:00p

Observers K. Emerson

Species Code	Total #	Comments
CANIG	4, 5, 4, 1, 2, 1, 2, 2, 8, 2, 2, 9, 4, 2, 2, 2, 1, 1, 1	80
AMCO	2, 3, 5, 3, 1, 1, 2, 3, 2, 2, 3, 1, 1, 2, 1, 2, 3, 7	90
BLME	2, 3, 2, 5, 2, 3, 3, 2, 2, 2, 2, 1, 2, 2, 4, 20, 4	178
LESL	2, 2, 2, 3, 2, 12, 24, 2, 2, 2, 2, 1, 2, 2, 4, 2, 8, 2, 1, 2, 8	316
MALL	3, 2, 1, 1, 1, 2, 6, 1, 1, 2, 2, 1, 2, 2, 1	29
NSHO	4, 1, 2, 2, 2, 2, 1, 2, 2, 2, 2, 1, 1, 1, 7, 1, 2, 2, 2, 4, 3	140
GADW	1, 2, 3, 2, 1, 2, 2, 2, 5, 2, 2, 1, 2, 2, 1, 2, 2, 5, 2, 5, 2, 2, 1	144
NOPI	2, 2, 1, 2, 2, 2, 1, 2, 1, 2, 1, 1, 2	21
RUDU	2, 2, 2, 1, 1, 4, 10, 20	53
FRGM	3, 1, 2, 2, 2, 3, 1, 1, 1, 2, 8, 9, 1, 4, 25, 5, 20	109
EAGR	1, 1, 2, 2, 1, 4, 8, 2, 20, 2, 12	47
UMPH	3, 2, 1, 2, 130, 3, 4, 1, 7, 5, 6	164
AMWI	2, 2, 2, 1, 1, 2, 2, 2, 3, 3, 2, 1, 2	25
BUFF	1, 2	3
RNDU	10, 6, 4, 3, 14, 10, 1, 8, 7	53
WEGR	2, 1	3
PBGR	1, 1, 2, 1	5
DCCO	7, 1, 1, 1	10
REDH	3, 5, 4, 12, 2, 2, 2, 2, 2	34
CANV	2, 3, 2, 3, 2, 1, 2	15

Avian Health Transects

Location Homestead Date 5-9-12 Start Time 7:10

Observers Megan Knapp Kim Emerson

Species Code	Total #	Comments
NSHO	5, 3, 2, 1, 2, 2, 3, 8, 2, 2, 1, 2, 1, 2, 2, 1, 5 3, 3, 1, 2, 4, 25, 30, 25, 15, 1, 20, 2	175
BWTE	1, 1, 1, 2, 1, 6, 2, 1, 2, 2, 3, 4, 1, 2, 2, 2, 2 2, 2, 8	47
MALL	1, 1, 2, 1, 1, 2, 2	11
WIPH	2, 1	3
GADW	2, 2, 2, 2, 2, 2, 2, 2, 2, 4, 6, 12	40
NOPI	1, 2, 1, 2, 2, 1, 2, 2, 2, 4	19
CANG	2, 2, 1, 2, 1, 1, 2, 2, 2	15
AMWI	2, 2, 2, 2, 3, 3, 2, 2	18
KILL	1, 1	2
GWTE	1, 3, 3	11
WILL	1, 2, 1, 1	5
EAGR	1, 10	11
REDX	3, 10, 6	19
AMAV	2, 1, 1, 2, 10, 2	14
UNDU	6	6
IESL	2, 10, 10	22
COTE	1	1
RBGR	40	40
MAGO	2, 1	3
CANV	2, 10, 20	32

NO

Date 5/9/12 Start Time 1:30

Observers Megan Krauss Kim Emedsal

[illegible]

Avian Health Transects

Location 11/12 Date 5/9/12 Start Time 12:10

Observers M. Knapp V. Emerson

Species Code	Total #	Comments
CANG	2, 3, 12, 5, 2, 2, 2, 2, 5, 2, 2	41
LESC	4, 5, 4, 9, 3, 12, 20, 10, 6, 6, 12, 20, 4, 6, 2, 8, 3, 10, 4, 2, 2	152
AMCO	2, 1, 1, 1, 2, 3, 3, 2, 4, 2, 5, 1, 2, 3, 2, 2, 3, 5	44
BWTE	1, 2, 3, 4, 4, 2, 2, 5, 8, 6, 2, 12, 2, 2, 1, 8	64
EAGR	1, 2, 10, 3, 4, 3	19
DCCO	4, 4, 12, 1, 1, 3	25
BUFF	2, 2	4
NSHO	3, 8, 6, 2, 3, 6, 4, 12, 6, 6, 12, 1, 5, 1, 2, 2, 2, 4, 8, 4, 2, 6	105
REFDH	8, 8, 4, 4, 4, 10, 4	42
NOPI	4, 2, 2, 2, 6, 2, 4, 2, 4, 2, 1	31
MALL	2, 1, 2, 2, 2, 2, 4, 4, 2, 2, 6, 4, 4	37
WEGR	3, 1, 2	6
AMPE	2	2
COTE	2	2
AMMI	2, 2, 4, 8, 2, 2, 8, 4, 2, 2, 1, 2	39
WIPX	2, 10, 5	17
GADW	4, 10, 4, 2, 4, 6, 4, 2, 2, 4, 2, 1, 2	47
CANV	12, 8	20
RUDW	20, 2	22
PBCGR	1	1

Avian Health Transects

Location urgeon Slough Date 5/1/2012 Start Time 8:1

Observers K. Emerson

Species Code	Total #		Comments
	<i>Fast</i>	<i>Rest</i>	
NOPI	2	1, 2, 2, 3	
MALL	2, 1, 2	2, 4, 2	
AMMW	1, 2, 2		
GADW	2, 1, 2, 4, 5, 2	6, 3, 2, 2, 2, 4, 6, 2	
MSHO	4, 2, 6, 7, 7, 2, 4, 6, 4	1, 1, 4, 2, 5, 2, 2, 2	
BWFE	2, 6, 4, 2, 2, 8, 2, 2, 2	2, 2, 2, 2, 2, 2, 6, 2	
LESC	2, 8, 6, 12, 7, 2, 8, 2	2, 2, 7	
WIPH	2, 6, 4, 2, 8, 6, 2	20, 15, 3, 2, 10	
EAGR	2, 1, 1, 2, 5, 2, 4, 20	3, 2, 5, 1, 2	
AMCO	3		
WILL	1, 1, 2	1, 1, 2	
AMAV	2, 1, 3, 1, 2	1, 2	
RUDU	5		
CANG	1, 2, 3, 10		
RBCU	1		
KILL	1, 1, 1		
MAED			

Avian Health Transects

Location 11/12

Date 5-15-2012 Start Time 1:30

Observers Emerson & Knaup

Species Code	Total #	Comments
NSHO	1,1,1,1,2,1,2,4,3,1,4,1,1,3,1,2,1,2,1,1,1,2,3 1,2,2,2,2,2,2,1,1,1,2,4,2,1,1,1,3,1,1,2,10,2,1,1,2,2	= 98
DCCO	1,1,1,1,4	= 8
AMCO	2,3,4,1,1,1,1,1,2,1,1,2,1,2,3,4,2,1,9 3,6,2,2,1,2,1,3,3,5,10,2,2,1,3,2,2,1,1,1,1,3,1,1,1	= 101
BWTE	7,8,3,2,2,3,3,2,2,2,1,4,2,1,1,1,2,1 1,2,4,2,9,1,2,2,1,1,1,1,2,3,3,2	= 84
RUDU	2,1,1,1,1,2,3,3,1,2,5,2,1,1,5	= 31
GADW	2,2,2,2,2,2,2,2,2,1,2,3,2,2,1,2,2,2,2,2,2 2,1,2,2,2,1,5,1,1,2,1,1,4,2,1,3,2,2	= 76
LESC	2,4,2,2,2,1,3,12,2,1,16,1,2,2,2 1,5,3,4,2,2,2,3,2,8,3,2,4,2,3	= 110
AMWI	1,2,2,2	= 7
MALL	1,4,4,1,2,2,2,2,1,2,4,1,1,2,4,2,2,3,2,2,2,1	= 47
CANV	2,1,2	= 5
CITE	2	= 2
REDH	2,3,2,2,2,2,1,2,2,5,3	= 26
PBGR	1,1	= 2
NOPI	2,2,1,1	= 6
RNDU	8,1	= 9
EAGR	2,2,1,1,2,1,1,1,1,1,2,1,2,3,2	= 29
CANG	6,2,2,2,2,2,1,1,3,8,1,2,2,9,17 2	= 69
AMAV	1	= 1
PBGH	3,1	= 4
WIPH	2	= 2

✓✓

Location Mallard Pond

Date 4/5/12

Start Time 1:00

Observers Knapp Emerson

[illegible]

Avian Health Trans

Location Homestead Date 5/23/12 Start Time 8A

Observers K. Emerson & M. Krump

[illegible]

E-MF

Avian Health Transects

Location Homestead Date 05-31-12 Start Time 8:45Observers M. Khan P

Species Code	Total #	Comments
GADW	1, 2, 1, 1, 3, 1, 1, 2, 2, 2, 1, 2, 3, 1, 2 7, 3, 3, 10, 10, 30, 5, 10, 4, 10, 7, 5, 5	109
LESC	2, 1, 1, 5, 5	14
WIPH	1, 1, 3, 5	10
NSMD	1, 2, 2, 3, 7, 12, 20, 4, 30, 6, 12, 10 7, 10, 10	163
MALL	2, 2, 2, 2, 2, 2, 4, 2	18
PEEP	4, 1, 10	15
BWTE	1, 1, 2, 2, 2, 2, 1, 2, 2, 5	20
AWPE	1, 2, 4	7
AMAV	1, 1	2
KILL	1	1
UNSH	1, 1, 5, 1, 1, 30, 5, 20	64
UNDU	8, 2, 2, 5, 2, 2, 5, 3, 3	32
SAND	1	1
MAGO	10	10
WEGR	20	20
EAGR	15	15
RUDU	5	5
CANG	4	4
CANV	10	10

E-MK

Avian Health Transects

Location 11/12Date 5-31-12 Start Time 10:45Observers M. Knapp

Species Code	Total #	Comments
CANV	2,4,2,2,0,1	17
GADW	5,2,2,1,2,3,2,5,1,2,5,4,1,1,2 1,2,2,1,1,1,3,2,2,2,1,0,4,4,2,2	72
LESC	4,9,4,3,2,2,3,3,8,7,3,8,5 1,2,2,2,1,3,2,2,3,4,4,5,7,5	34,1,7,2,2,2,4,2 3,1,7,2,4,3,3,6,2,2 173
AMLO	1,7,3,5,2,2,1,2,2,1,5,2,1,6 2,4,1,2,4,5,1,2	61
MALL	4,2,4,1,3,2	16
RUDV	1,1,1	3
BWTE	1,1,3,1,2,1,1	10
NSHO	1,2,1,2,1,3,1,1	12
EAGR	6,3,2,1,2,2,2,3,1,3,1,2,5 6,2,2,6,5,6,5,2,2,1,2,5,2	79
CANG	2,5,1,2	10
UNDU	7,3,1,3,2,4	20
NOPI	2,3,2,1,1	8
UNSM	2,2	4
WEGR	1	1
AMWI	5	5

Avian Health Transects

Observers *M. Kraus*

[illegible]

E-MK

Avian Health Transects

Location Wigeon Slough Date 06-4-12 Start Time 10:00E side Observers M. Knaup K. Emerson

Species Code	Total #	Comments
EAGR	7, 1, 2, 2, 1, 1, 2, 7, 5, 1, 2, 1, 2, 1, 1, 1, 2 1, 9, 6, 10, 1, 1, 1, 1, 2, 1, 3, 5, 2	101
BWTE	2, 2, 2, 1, 1, 1, 1, 1, 2, 1, 1, 2, 1, 1, 2, 2 2, 1, 3, 1, 1	31
NOPI	1, 1, 1, 1	4
GADW	1, 2, 2, 1, 2, 1, 1, 2, 2, 1, 2, 2, 1, 2, 3 2, 2, 1, 2, 4	36
WIPH	2, 3	5
NSHO	1, 2, 1, 2, 2	8
RBGU	2	2
AMAV	1, 1, 1, 1, 1, 1, 2, 1, 1, 1, 1, 1	13
MALL	2, 2, 2, 1, 2, 2, 2	13
AMWI	1, 1, 2, 1, 1	6
LESC	1, 2, 2, 2	7
AMCO	1, 1, 1, 2, 1, 1, 1, 2	10
CANG	1, 1, 2, 1, 47	61
REDH	2, 2, 3, 1	8
RUDU	3, 2	5
WILL	1, 1	2
UPSA	1	1
LILL	1	1

5055
0150

7-10

Location Mallard Pond

Date 6/7/22 Start Time 3:50P

Observers K. Flanagan M. Kraep

[illegible]

E-MK

Avian Health Transects

Location Homestead Date 6-7-12 Start Time 7:30Observers M. Knauf

Species Code	Total #	Comments
WIPH	2,1,1	4
MALL	2,1,1,1,1,2,3,1,10,2,	24
GADW	2,1,1,1,2,3,6,1,15,1,3,1,2,2 10,20,10,2,3,1	90
BWTE	2,1,1,1,2,3,1,5,2,2,1,10 10	41
NSHO	2,2,10,10,10,10,20,10,10 5,5	94
KILL	1,1,1	3
LESC	2,2,6,10	20
UNDU	10,20	30
AWPE	2,8	10
NOPI	1,10	11
MAGO	2,10	12
CANV	10,10,10	30
COTE	1	1
REDH	10,10,10	30
AMAV	10,5	15

E-MIC

Avian Health Transects

Location 11/12Date 6-7-12Start Time 9:20Observers M. Knapf

Species Code	Total #	Comments
CANG	17, 7, 7	31
GADW	2, 1, 3, 2, 1, 2, 1, 1, 2, 3, 3, 2, 5	75
AMCO	1, 1, 2, 1, 1, 1, 5, 2, 2, 2, 2	20
UNDU	1, 8, 1, 2, 2, 1, 9, 4, 10, 10, 2, 9	60
CANV	2, 2, 4, 2, 4, 2, 2, 2, 2, 2, 2	30
LESC	3, 1, 2, 2, 1, 2, 10, 1, 1, 1, 1, 2, 1	28
BUFE	2, 2, 2, 5, 2	13
DCCO	1, 1, 3	5
WIPM	1	1
NGMO	1	1
NOPI	1, 2, 1	4
WEGR	4, 1	5
RUDV	1, 1, 2, 1, 2	7
EAGR	2, 3, 3, 4, 4	16
AWPE	2	2
MALL	6, 5, 1, 1, 20, 2	35

Avian Health Transects

Location Wigeon Slough Date 5/15/12 Start Time 8:30 AM

Observers K. Emerson & M. Knauf

Species Code	Total #		Comments
	east	west	
CANG	25	16	
NSHD	19	16	
BWTE	20	33	
WIPH	6	2	
EAGR	39	21	
RUDV	2		
GADW	21	11	
AMCO	16	1	
WILL	3	2	
AMAV	3	5	
LESC	18	27	
NDPI	1	1	
KILL	1	4	
MALL	4	4	
AMWI		12	
REDH		4	
GWTE		1	

ENTERED

MK

Avian Health Transects

Location HanesteadDate 5/17/2012 Start Time 7:30Observers K. Emerson & M. Knapp

Species Code	Total #	Comments
NSHO	2,2,3,2,2,2,3,3,3,1,1,1,2,2,1,3,2,4,2 1,3,1,1,1,3,2,6,2,2,10,6	77
GADW	2,2,2,2,2,2,1,2,1,2,1,2,2,2,5,2,3,5 1,2,4,2,2,3	54
BWTE	2,1,2,2,2,2,2,3,2,1,1,1,2,2,1,2,2 2,11,2	46
NDPI	2,1,1,2,1,3,2,3	15
GAITE	1	1
MALL	1,1,2,1,2,1,1,2,1,3,3,2,2,2	24
MAGO	1,1,1,4,7,1	15
KILL	1,1,2,1,1	6
WILL	1,1	2
WIPA	2,10,6,2,20,12,9,2	113
DLLO	1	1
LESC	1,2,2,2,1,12,50	70
AMAV	1,1,1,2,1,4	10
CANB	3,3,2,2	10
ANPE	6,30	36
COTE	1	1
CANV	7,10	17
EAGR	3	3
REDH	2,4	6
FRGU	3	3

Avian Health Transects

Location 11/12

Date 6-11-12 Start Time 10:45

Observers M. Knapp

Species Code	Total #	Comments
AWPE	30, 15, 2	54
LESC	4, 2, 1, 3, 2, 2, 2, 1, 15, 4, 3, 3	42
GADW	4, 3, 1, 2, 1, 1, 10	25
BLUTE	3, 2, 1	6
MALL	2, 1, 6	9
NOPI	2, 2	4
AMCO	1, 1, 2, 2, 1, 1, 2, 1, 1	12
CANG	3	3
UNDU	2, 2, 5, 3, 2, 1, 2, 3	20
ETGR	1, 2, 2, 5, 5, 2, 2, 4	23
CAGV	2, 1	3
CANV	2, 1, 2, 1, 3	9
WELL	1	1
REDH	2, 2, 1	5
WIPH	1	1
AMWI	1, 1	2

Avian Health Transects

E-MK

Location Hornstead Date 6/70 Start Time 7:30

Observers KE + MK

Species Code	Total #	Comments
WODU	1	1
BUTE	2, 4, 1, 2, 1, 1, 2, 2, 2, 2, 8, 3	30
KILL	1, 1, 1, 1	4
MAIL	2, 1, 8	11
GADW	1, 1, 1, 2, 2, 20, 2, 12	41
AWPE	2, 20, 4, 1, 4	31
NSHO	2, 3, 2, 1, 1, 2, 5, 4, 12, 10	42
WILL	1, 2	3
FRGA	1, 1, 1, 1	4
MAGO	1, 1, 1, 1	4
UNDU	30	Sleeping @ a distance 30
NOPI	4, 1, 4, 2	11
GRYE	2	2
RUDU	1, 12	13
BCNH	1	1
LESC	10, 12, 1	23
REDH	25, 30, 20	75
CANV	6, 25, 30	61
UPSA	1	1
AMAV	4, 2, 60, 1, 1	68

E-MK

Observers Y E & MK

[illegible]

Avian Health Transects

E-MK

Location

11/12

Date

6/21

Start Time

1:40

Observers

K.E.

Species Code	Total #	Comments
DCCO	2, 1, 3, 1, 1	8
MAL	2, 2, 2, 1, 4, 2, 1, 2, 2, 3, 2, 35	58
LESC	6, 3, 6, 2, 4, 9, 12, 3, 2, 1, 1, 2, 9, 1, 1 6, 6, 4, 3, 2, 2, 4	89
AMCO	1, 1, 5, 1, 1, 1, 4, 2, 2, 3	21
BWTE	1, 1, 2, 1	5
RUDV	1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 1, 1, 2	17
EAGR	1, 1, 2, 6, 2, 3, 2, 3, 1, 2, 1, 1, 1, 1, 8, 1 2, 2	40
GADW	2, 2, 1, 5, 2, 5, 9, 4, 2	32
AMWI	1, 1, 3	5
REDH	2, 2, 2, 50, 2, 15	72 73
BUFF	1	1
COTE	1, 1, 1	3
CANV	6, 12, 2	20
RNDV	2, 4	6
NSHO	1	2

6-7-11

Location Wigcon West Date 5/22 Start Time 12:30

Observers

[illegible]

Avian Health Transects

Location Wigson Slough ^{east} Date 6-22 Start Time 12:30

Observers M. Knapp

Species Code	Total #	Comments
ANAN		
MALL	1, 6, 4	11
ANAN	1, 1	2
BLTE	2, 4	6
ANAN		
GADW	1, 1, 2, 1, 2, 1, 1	9
ANAN	2, 1	3
NSHO	1, 1, 1, 2, 1	6
EAGR	1, 1, 1, 1	4
LESL	1, 1, 2	4
REDH	1, 1	2
ANCO	1, 1	2
CAGN	1	1
KILL	1	1
IMPH	2, 1	3

Avian Health Transects

Location Momestead

Date 6-26-12 Start Time 11:45

Observers M. Knap

[illegible]

E-MK

Observers M. Khan

[illegible]

E-1111

Location Wigeon Slough Date 6-27-12 Start Time 8:45

Observers Mr. Knapp

[illegible]

Avian Health Transects

E-MR

Location 11/12

Date 7/2

Start Time 8:30A

Observers K.E.

Species Code	Total #	Comments
CANG	4	4
AWPE	3,3,1,1,7,2,3,2	22
MAU	4,1,2,25,12,2,4,1,2,2,4,2,1,1,1,3	68
LESC	5,1,1,3,4,3,2,2,22,5,1,2,7,25,20	85
BCCO	2,1,1	4
GAOW	3,1,22,2,12,3,3,10,7,8,10,15,2,2	109
AMCO	4,3,2 2,10,4,10,4,3,6,10,15,3,4,1,1,8,25 10,50,5,1	172
COTE	1,1,1,2,1,1,1,2	10
EAGR	4,3,2,2	11
BUFF	2,2	4
AMWI	2,1,1	4
NOPI	1,8,1,1	11
RUDU	2,1,2,3	8
BCNA	2	2
CANV	2,7	9
CAGU	1,1	2
NSHO	1,1	2
PBCR	1	1
BUTE	1,1,3,4,3	12
PBGU	1	1

E.MK

Avian Health Transects

Location Niger Date 7/2 Start Time 1:20Observers V.E

Species Code	Total #		Comments
	east	west	
BWTE	2,1,4,1,2,9,7 1,1,1	2,1,3,1	36
MAGO	1		1
ANAU	1,6,2	2,1	12
EAGR	3,3,1,5,1,5,1,3 1,1,1,1,1,2,2,1,5	4,7,1,10 4,12,7,3 5,2,2,1,9	106
GATW	1,1,2,4,2,1,2,1 a	9,7,3,4,7,6,1,1,1,1 5,7	76
MALL	1	2,1,1,1,1	7
AMCO	1,2,1,1,1,1,9,1,1	2,2,1,5,3,1,1,7,7,3,1	51
LESC	1,3,3,1,1,1	4,2,1,1,1,2,3	24
REDH	20,2	9,2,1,1,7,1	43
NOPI	2,2	2,2,1	9
NSHO	1	1,3,3	8
CANG	7,10		17
RUON		1,2,1,1,1,1	7
WILL		1	1
KILL		1,1	2
AMWI		1,1,1	3

Avian Health Transects

Location Homestead

Date 7-9-12 **Start Time** 12:00

Observers M. Kraup

[illegible]

Avian Health Transects

Location Wigeon Slough **Date** 7-13-12 **Start Time** 7:30

Observers M. Krump

[illegible]

CRK

Start Time 10:50

Observers M. Knauf

[illegible]

2. 1. 1.

Location Mallard Pond

Date 7-17-12

Start Time 2:15

Observers

[illegible]

Avian Health Transects

Location Mallard Pond

Date 7-25/12

Start Time 3:10

Observers M. Knapp & K. Emerson

[illegible]

7-11

Date 7-26-12

Observers Mr. Krump

7-11

EMK

Avian Health Transects

Location Wilgeon Slough Date 7-27-12 Start Time 8:45

Observers M. Knapp

[illegible]

Avian Health Transects

Location 11/12

Date 7-27-12

Start Time 6:50

Observers M. Knap

[illegible]

2. VAK

Location Mallard Pond Date 8-6-12 Start Time 3:30

Observers M. Kuang

[illegible]

2011

Location Wigeon Slough Date 8-7-12 Start Time 9:30

Observers M. Knapp

[illegible]

ek

Observers K. Emerson & A. Richardson

[illegible]

Avian Health Transects

Location Wigan Slough Date 8/22/12 Start Time 12:30

Observers K Emergent A Richardson

Species Code	Total #		Comments
	East	West	
AMCO	4, 5, 10, 2, 200 (221)	4, 1, 1, 2, 4 (12)	West covered w/ emergent veg - detectability very low
RUDU	2, 3 (5)		
LESC	1, 5 (6)		
CANV	1, (1)		
REDH	4, 19, 4 (27)		
AMWI	1, 1, 2 (4)	3 (3)	
BWTE	1, 2 (3)	4 (4)	
GADW	2 (2)		
NOPI	3, 2, 1 (6)	11 (11)	
MALL	1, 2 (3)	3, 9, 2, 1, 1 (16)	look up grebe!
CANG	3 (3)		
ELAGR	1 (1)	1, 2 (3)	
GBHE	1 (1)	2, 1, 2 (5)	
BUFF		1 (1)	
SAND		12 (12)	
WILL		1 (1)	
FRGA		2 (2)	

eke

Avian Health Transects

Location Lakes 11/2 Date 8/11/12 Start Time 1:10

Observers V. Emerson & A. Richardson

Species Code	Total #	Comments
UNDU	100, 100	bad lighting & too far away to ID
CAN G	1, 55, 12, 1	69
AWPE	2, 1, 1	4
DCCO	1, 1, 20, 1	23
AMWI	24, 2, 2, 8	36
GBHE	1, 2, 1	4
AMLO	12, 30, 4, 8, 3, 200, 7, 1, 3, 5, 125, 2, 2, 1	394
MAU	12, 30, 4, 2	48
EAGR	2	2
CANV	4, 36, 40, 20, 12, 100, 12, 10, 35, 30	299
WEGR	1, 4, 2, 4, 6, 3, 1	21
PEGR	1, 1, 1, 1	4
IMN	3	3
RBGM	30, 2	32
BWTE	2, 5, 4, 4, 1, 1	17
BUFF	2, 6, 1	9
RUDU	24, 1, 30, 5	42
LESS	12, 2, 4, 5, 3, 4, 2, 1, 3, 8, 1	45
FRGM	2	2
GADW	2, 5, 3, 10	20

eke

Observers V. Emerson

[illegible]

eve

Observers L. Emerson & A. Richardson

[illegible]

Avian Health Transects

Location

11/12

Date

8/27

Start Time

1:30

Observers

K. Emerson

Species Code	Total #	Comments
AWPE	30, 15, 2	47
DULO	15	15
CANG	35, 20	55
GBHE	11	2
BUTE	50, 20, 7, 5, 1, 2	85
MALL	75, 25, 5	105
AMCO	50, 25, 10, 20, 50, 150, 1	300
RUDU	50, 2	52
NOPI	25	25
LESC	30, 10, 12	52
CANV	70, 200, 200, 100, 30	600
RBLU	3	3
AMMI	3, 15, 20, 12	50
POGR	3	3
BUFF	1	1
REDH	12	12
EAGR	6	6

che

Observers K. Emerson

1

eke

Avian Health Transects

Location 11/12 Date 9/4/12 Start Time 11:00

Observers K. Emmonson

Species Code	Total #	Comments
MALL	700, 100, 250, 50, 3, 3, 6	1112
AMCO	30, 15, 75, 200, 5, 100, 300, 150, 20	895
CANG	3, 10, 12, 30, 50, 85	190
FRGU	25, 5	30
NSHO	2, 4, 20, 35, 1, 2, 1	67
CANV	12, 5, 150, 200, 50, 150, 500, 150, 30 50, 2	1299
EAGR	1, 2, 1, 3	7
NORI	2, 15, 1, 1	19
AWPE	15, 5	20
GBHE	1	1
REDH	5, 5, 12, 45	67
PBGR	1, 6	7
BUTE	2, 7, 3, 20	32
LESL	2, 5, 1, 2, 1, 37	48
RUDU	1, 3, 1, 2	7
BLUF	3, 8, 4	15
BLUF	3, 8, 4	15
AMM	3, 1	4

Observers K. Emerson

[illegible]

ek

Wigton Slough

9/13/2017

e 9A

K. Emerson

West = heavy emergent veg.
windy, cold, birds hunted down

all

Observers K. Emerson

[illegible]

eke

Avian Health Transects

Location 11/12 Date 9/14/2012 Start Time 8:30.4
 Observers V. Emerson

Species Code	Total #	Comments
MAU	750, 20, 5, 12	787
AUDE	15, 1	16
AMU	35, 12	47
AMC	120, 10, 150, 10, 15, 200	505
GAW	30, 2, 1	33
CAN	200, 550, 100, 20, 250, 75, 20, 100	1315
BUT	55, 10, 3, 20	88
NDP	20, 2, 5	27
LESC	70, 4, 3, 1	78
GBHE	1	1
NSK	7, 6, 1, 1	15
EGR	6, 3, 2	11
RUD	12	12
UEGR	1	2
DCC	1	1
REDH	15	15
CANG	12	12