1968

Form D1

Waterfowl Production Surveys

Units 1-23

Form D-1 BLAIR

Observer: CARROLL

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. 1

Year: 1968

Unit No.	Transect No.	First Observation: Date	Nest No.	Species	No. Eggs	Nest Status: Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Cover Type: Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Fate: Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back	
1	64	5/16/68	455	Ma(F)	8		X													X								6/13/68	X	8					60"W	1110
1	64	5/16/68	456	Ux (NF)	–					X										X								—							48"W	
1	62	5/16/68	404	Ma(NF)	3					X										X							X	6/13/68					X		ON LINE	1015
1	62	5/16/68	405	UK	1					X	X									X							X	—							4"W	1030
1	62	6/13/68	Co	Coot	7						X									X		X					X	7/16/68	X							
1	71	6/13/68	331	Mallard	9	X														X	X							7/16/68				X				
1	68	6/13/68	218	Mallard	8		X													X								7/16/68						X	Lost	
1	70	6/13/68	127	Pintail	2	X											X			X								7/16/68	X							
1	70	6/13/68	128	Mallard	7		X										X											7/16/68	X							
1	64	6/13/68	270	Mallard	7		X														X							7/16/68	X	7						

131 H
136

Form D-1 Field Form Unit No. 2

Observer: BLAIR WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1968

Unit No.	Transect No.	First Observation				Nest Status							Cover Type															Fate							
		Date	Nest No.	Species	No. Eggs	Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back
2	83	5/17/63	457	Ma (F)	5	X														X								6/14/68				X			60"W 0910
2	82	5/17/63	458	Ma (NF)	3				X	X										X															60"W 0920
2	73	6/14/68	219	Ma	7	X														X								7/16/68						X	Lost
2	74	"	129	Ma	7		X										X			X								7/16/68	X						
2	74	"	130	Ma	7		X													X								7/16/68						X	Lost

Form D-1 Observer: BLYTHE TREVINO DARNELL

Field Form File

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. 3

Year: 1968

Unit No.	Transect No.	First Observation: Date	Nest No.	Species	No. Eggs	Nest Status: Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Cover Type: Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Fate: Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back	
3	94	5/20/68	266	Ma (F)	9		X													X								6/19/68	X	4					37" W	1500
3	98	5/20/68	267	Ma (F)	6		X													X								"	X	4					1' W	1535
3	95	5/20/68	153	Ma (F)	9		X													X							X	"				X	X		30" W	1453
3	97	5/20/68	154	Ma (F)	8		X														X		X		X		X	6/19/68	X	5					21" W	1540
3	97	5/20/68	155	UX (NF)	—																X							5/20/68	6					?	75" E	1545
3	100	5/21/68	268	Ma (F)	9		X													X								6/19/68						X	84" E	1005
3	101	5/21/68	156	Ma (NF)	6					X										X			X					6/19/68						X	84" E	0957
3	101	"	157	Ma (NF)	4					X										X			X					6/19/68				X			72" E	0955
3	96	5/22/68	160	Pl (F)	8		X													X								"						X	60" E	1000
3	85	6/18/68	348	Pintail	6	X													X	X		X						7/10/68	X	4						
3	90	6/19/68	349	Unknown	5		X									X			X									7/18/68				X				
3	90	"	350	Pintail	7	X													X									7/18/68				X				
3	90	"	Co	Coot	5																X							7/18/68						X		
3	94	"	351	Mallard	7	X													X	X								7/10/68				X				
3	94	"	352	Tx	9		X										X				X							7/10/68	X	7						
3	93	"	353	Mallard	8	X													X	X								7/10/68	X	7						
3	98	"	354	Unknown	5					X										X								"	✓							
3	98	"	355	Unknown								X								X								"	✓							
3	98	"	356	Unknown																X		X	X					6/19/68	X	4	1					144
3	98	"	357	Unknown																X								6/19/68			1	4				
3	98	"	358	Mallard	7	X														X								7/10/68	✓							
3	98	"	359	Gadwall	5	X														X								7/10/68	✓							
3	98	"	360	Unknown	5					X										X								—								
3	97	"	361	Mallard	6	X														X		X						7/10/68	X							

Form D-1

Observer: _____

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. 3

Year: 1968

Unit No.	Transect No.	First Observation				Nest Status						Cover Type														Fate							
		Date	Nest No.	Species	No. Eggs	Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back
3	97	6/19/68	362	Mallard	11		X														(X)	X						7/10/68	✓						
3	97	"	363	Tx	1	X		X												(X)		X						"	✓						
3	101	"	364	Unknown	6			X								X				X								"	✓						
3	105	6/20/68	500	Unknown	8						X									(X)	X	X						—							
3	105	"	Co	Coot	9																X							"	✓						
3	105	"	501	Unknown	3					X						X	(X)											—							
3	86	6/18/68	281	Mallard	7		X							X						X									✓						
3	86	"	282	Tx	5	X														(X)									✓						
3	86	"	283	Tx	11		X													(X)									✓						✓
3	86	"	284	Mallard	4	X														(X)									✓						
3	87	"	285	Mallard	7	X								(X)															✓						
3	91	6/19/68	286	Mallard	8		X													(X)									✓						

Form D-1 Observer: DARNELL BLYTHE TREVINO

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. 4

Year: 1968

Unit No.	Transect No.	First Observation: Date	Nest No.	Species	No. Eggs	Nest Status: Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Cover Type: Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Fate: Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back	
4	108	5/21/68	207	Ma (F)	8		X													X								6/20/68						X	7'w	1220
4	119	5/21/68	158	Ma (NF)	1					X						X												—							18"w	1455
4	117	5/21/68	208	Ma (F)	7									X														6/20/68						X	8'w	1510
4	123	5/22/68	209	Ma (F)	2	X													X									7/17/68	X						30"w	0920
																															X					
4	110	6/30/68	502	Pintail	4	X										X	X			X																
4	109	"	503	Pintail	7	X														X		X						7/8/68	hayer			X				
4	117	"	504	Shoveller	9		X										X		X									7/9/68	X							
4	108	"	287	Mallard	8		X												X									7/9/68						X		
4	116	"	288	Mallard	7		X												X									7/9/68	X							

Form D-1 Field Form Unit No. 5

Observer: AKOMOTO WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1968

Unit No.	Transect No.	First Observation				Nest Status						Cover Type															Fate							
		Date	Nest No.	Species	No. Eggs	Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back
		No Nests First Run																																
		"		" 2nd		"																												

Form D-1 Field Form Unit No. 6

Observer: Pospahala WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1968

Unit No.	Transect No.	First Observation: Date	Nest No.	Species	No. Eggs	Nest Status: Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Cover Type: Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Fate: Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back)	
6	33	5/12	1	Pintail	4	✓								x		x												6/10	X	5					90"W 2:10	F
6	37	5/13	2	Unknown	8						X									X							X	5/13					X		9"E 11:20	N.F.
6	38	5/13	3	Pintail	7	X								X														6/11	X	7					59"W 12:35	F
6	41	5/14	4	Shoveler ~~Unknown~~	8 ~~4~~	X													X	X								~~6/11~~	~~x~~	~~3~~					3"W 9:15	N.F.
6	49	5/14	5	Mallard	7		X							X	X													6/11	X	3					11"E 12:20	F
6	37	5/16	10	Mallard	5	X								X														6/15	X	3					16"W 11:47	F
6	28	6/9	18	Unknown	1					X										X								6/9				X			87"W 10:08	N.F.
6	29	6/9	19	Unknown	5					X				X		X												6/9				X			91"E 11:48	N.F.
6	29	6/9	20	Unknown	1					X										X	X							6/9				X			63"W 12:12	N.F.
6	33	6/10	21	Mallard	6		X							X		X												7/6	X	6					75"W 10:13	N.F.
6	33	6/10	22	Mallard	8		X							X		X	X											7/6	X	7					59"W 10:32	F.
6	34	6/10	23	Shoveler	7	X														X								7/6	X	7					86"E 11:50	F
6	34	6/10	24	Tx	8		X?										X			X								7/6	X	8					32"E 12:10	F
6	36	6/10	25	Mallard	6		X							X						X								7/6	X	5					86"E 2:32	F
6	37	6/10	26	Unknown	3					X										X								7/7				X			75"W 3:10	N.F.
6	38	6/11	27	Tx	10		X							X		X				X								7/7			X				13"W 8:48	F
6	38	6/11	28	Gadwall	5	X															X							7/7			X				72"E 9:12	F
6	39	6/11	29	Unknown	?					X				X		X												6/11				X			52"E 9:55	N.F.
6	42	6/11	30	Mallard	8		X							X		X												7/7	X	8					95"E 12:28	F
6	46	6/11	31	Unknown	1	X														X								7/7						X	70"W 2:48	N.F.
6	33	6/15	39	Unknown	4					X										X								6/15				X			24"E 9:07	N.F.
6	28	7-6	46	Unknown	4									X		X												7-6	X	4					96"W 9:02	N.F.
6	43	7-7	47	Unknown	7									X		X												7-7	X	7					36"W 10:42	N.F.

Form D-1 Wilson Trevino

Observer: Blythe

Field Form File

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. 7

Year: 1968

Unit No.	Transect No.	First Observation: Date	Nest No.	Species	No. Eggs	Nest Status: Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Cover Type: Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Fate: Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back
7	53	5/17/68	151	VX	—														✓	(✓)								5/17/68	5						
7	62	5/15/68	103	Ma	1	✓													✓	(✓)								6/13/68			1	2			
7	63	"	104	Ma	3					✓										(✓)								—							
~~7~~	~~64~~	~~"~~	~~295~~	~~Ma~~	~~7~~	~~✓~~														(✓)							✓								
7	67	"	251	Ma	7		✓													(✓)								6/13/68	X	4	3				✓
7	68	"	105	Ma	10		✓													(✓)								6/13/68	X	10					
7	68	"	106	Ma	9		✓													(✓)								6/13/68				X			
7	55	"	202	Ma (F)	3	X														X								6/13/68				X			ON LINE 0915
7	45	6/13/68	60	Coot (NF)	5		X														(X)	X					X	7/8/68						X	8"W 1042
7	47	"	169	Ma (F)	6		X										X				(X)							7/8/68	X						61"W 1103
7	50	"	269	Ma (F)	9		X										X		(X)							X		7/8/68	X						6"E 1355
7	68	"	122	Mallard	8		X										X		(X)	(X)								7/8/68	X	8					
7	65	"	153	Mallard	6															(X)								7/8/68	X	6					
7	64	"	154	Pintail	10		X									(X)												7/8/68						X	
7	64	"	125	Unknown	1	X														(X)								7/8/68	X						
7	56	"	126	Mallard	7	X														(X)							X	7/8/68			X				
7	62	"	329	Mallard	2	X											X			(X)								7/8/68	X	1	1				
7	59	"	330	Redhead	10		X										X			(X)								7/8/68			X				
7	67	"	325	Redhead	8		X												X	(X)								7/8/68	X	8					
7	67	"	326	Tx	11		X										X			(X)								"	X	10	1				

Form D-1 Field Form Unit No. 7 cont.

Observer: _____ WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1968

Unit No.	Transect No.	First Observation				Nest Status						Cover Type														Fate							Remarks (No. & expl. on back
		Date	Nest No.	Species	No. Eggs	Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	
7	67	6/13/68	357	Mallard	8	X											X			(X)								7/8/68	X	6	2				
7	67	"	328	Mallard	6	X														(X)								"	X						
7	66	"	214	Mallard	8	X														(X)								"	X						
7	66	"	215	Unknown	0					X										(X)								—							
7	63	"	216	Mallard	4	X														(X)								7/8/68						X	
7	55	"	217	Mallard	6	X														(X)								7/8/68	X						

Form D-1 CARROL, OKAMOTO ; Field Form File Unit No. 8

Observer: BLAIR WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: MAY-1968 1968

Unit No.	Transect No.	First Observation: Date	Nest No.	Species	No. Eggs	Nest Status: Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Cover Type: Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Fate: Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back)	
8	78	5-17-68	459	ma	UK					✓				✓		✓												—								2'E
8	76	"	460	ma	1	✓														✓								6/14/68			X					NF 9'E 1130
8	74	"	461	ma	5	✓														✓			✓					6/14/68	X	3	2					31'E F 1342
8	76	"	462	ma	3								Check Again							✓			✓					~~6/14/68~~				X				NF 5'E 1355
8	77	"	403	Pi	13	✓														✓								6/14/68	X	?						F 1116 ONLINE
8	73	"	362	UNK	0				X											✓								—								NF 1140 24"E
8	73	"	363	MA	9		✓													✓								6/14/68	X	?						F 3"E 1202
8	75	"	364	MA	3	✓								✓		Check Again												7/17/68	X	3	2					F 8'E 1339
8	75	"	365	MA	8		✓							✓						✓								6/14/68	X	?					✓	F 6'W 1346
8	73	6/14/68	220	Mallard	5	✓														✓								7/11/68	X	6						
8	73	"	221	Mallard	9		✓							✓						✓								7/11/68						X	LOST	
8	73	"	222	Unknown	0					✓										✓								—								
8	73	"	223	Unknown	0					✓										✓								—								
8	75	"	224	Mallard	11		✓							✓						✓								7/11/68	X	10	1					
8	78	"	225	Unknown	5	✓														✓								7/11/68						X	LOST	
8	76	"	131	Mallard	5		✓													✓								7/16/68	X							
8	74	"	132	Mallard	7		✓							✓						✓								7/10/68	X	7						
8	77	"	133	Mallard	8	✓														✓								7/10/68	X	8						
8	77	"	134	Mallard	?					✓										✓								—								
8	80	"	135	Mallard	8		✓							✓					✓	✓								7/11/68	X							
8	80	"	136	Unknown	6	✓								✓		✓												7/16/68	X							

Form D-1 Field Form File Unit No. 9

Observer: WILSON BLYTHE TREVINO WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1968

	Unit No.	Transect No.	First Observation: Date	Nest No.	Species	No. Eggs	Nest Status: Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Cover Type: Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Fate: Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back)	
X	9	102	5/17/68	107	Ma	3	✓														X								6/18/68			X				7'3" E NF	1046
X	9	100	5/17/68	108	Ma	7		✓							X		✓												"				✓	X		6'4" W F	11:13
X	9	98	"	109	Ma	3	✓											✓			✓								"				✓	X		7'3" W NF	1:02
X	9	98	"	110	Pi	8		✓													✓							X	"	X	7	1				8'2" W F	1:37
X	9	96	"	111	Ma	7	✓														✓					✓			"	X	5	2				8'2" W F	2:17
X	9	94	"	112	Ma	7	✓								X		X									✓			"						X	8'2" W NF	3:40
X	9	92	5/17/68	113	Ma	1					✓				X						✓					✓			—								
X	9	107	5/16/68	252	Ma	2	✓								✓						✓					✓			6/17/68				X			5'1" W	NF 2:40
X	9	101	5/17/68	253	Ma	3	✓								✓														6/18/68				X			3'1" E	11:15 NF
X	9	101	"	254	Ma	2	✓								✓		✓												"				X			3'2" E	11:20 NF
X	9	101	"	255	Ma	7		✓													✓							✓	"				X			6' E NF	11:30
X	9	99	"	256	Ma	3	✓								✓													✓	"				X			1'6" E	1:40 NF
X	9	95	5/17/68	257	Ma	6		✓													✓							2	"	X	?					8'2" E F	3:20
X	9	95	"	258	Ma	8		✓							✓														"	X	?					4'8" W F	3:45
X	9	93	"	259	Pi	7		✓							✓													✓	6/18/68	X	?	1				8'3" W F	4:25
X	9	86	5/20/68	260	MA	6		✓													✓								6/19/68			X				4'8" E F	11:10
X	9	90	"	261	Pi	6		✓							✓														6/19/68	X	?					5'6" E F	1:00
X	9	89	"	152	Ma	13		X									Check				X	Again							7/10/68			X				12:46 8' W	(F)
X	9	91	"	262	TX	6	X								X						X								6/19/68	X	6					1320 5' W	(F)
X	9	91	"	263	VX	5					X		X								X								—							ON LINE 13:30	(NF)
X	9	91	"	264	TX	2															X								7/10/68	X	1	1				6' E 1350	(F)
X	9	91	"	265	TX	8		X													X								6/19/68	X	?					3'6" W 1355	(F)
X	9	91	5/20/68	205	Ma	1					X										X								—							1335 (NF)	
X	9	91	5/20/68	206	TX	10		✓									Check				X	Again							7/10/68	X	8	2				1340 (F)	1345
X	9	91	"	207	Ma	9		X													X							X	7/10/68	X	9						

Form D-1 Field Form File Unit No. 9 CONT.

Observer: _____ WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1968

Unit No.	Transect No.	First Observation: Date	Nest No.	Species	No. Eggs	Nest Status: Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Cover Type: Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Fate: Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back
9	106	6/17/68	137	~~Bwt~~ Tx	9	✓														⊘							✓	7/10/68	X	7	2				
9	102	6/18/68	138	Unknown	7					✓	✓									⊘								—							
9	101	"	139	Shoveller	10	✓											✓			⊘								"	X	8					
9	98	"	140	Pintail	5	✓														⊘							✓	"	X						
9	96	"	141	~~Bwt~~ Tx	9		✓										✓			⊘								"	X	7	2				
9	95	"	142	~~Bwt~~ Tx	8	✓														⊘							✓	"	X	6	2				
9	95	"	143	Mallard	10	✓														⊘							✓	"	X	9	1				
9	95	"	144	Pintail	4		✓										✓			⊘		✓						7/18/68	X						
9	95	"	145	Mallard	7		✓													⊘		✓						"	X	4	3				
9	95	"	146	Mallard	7		✓													⊘								7/18/68	X						
9	93	"	147	Mallard	8		✓							⊘		✓												7/10/68				X	X		
9	93	"	148	Mallard	7	✓														⊘								7/10/68				X	X		
9	93	"	149	Pintail	7	✓								⊘			✓					✓						7/10/68	X	7					
9	93	"	150	Unknown	4					✓										⊘								—							
9	88	6/19/68	600	Shoveller	9		✓													⊘		✓					✓	7/10/68	X	4	5				
9	88	"	601	Unknown Dump	10					✓										⊘							✓	"							
9	88	"	602	Mallard	11		✓													⊘	✓						✓	"				X	X		
9	88	"	603	Gadwall	9	✓														⊘							✓	"	X	6	3				
9	88	"	604	Pintail	5									⊘			✓										✓	6/19/68	X	5					
9	90	"	605	Mallard	8		✓													⊘							✓	7/10/68	X	8					
9	91	"	606	Unknown	6	✓														⊘		✓						"	X	3	3				
9	91	"	607	Mallard	9		✓													⊘								"	X						
9	91	"	608	Mallard	7	✓														⊘		✓					✓	"	X	7					
9	105	6/17/68	326	Mallard	5	✓														⊘								"	X	5					
~~9~~	~~97~~	~~6/17/68~~	~~327~~	~~Ma~~	~~9~~	✓														⊘								~~7/10/68~~	X						

Start on unhatched nests 7/10/68

Form D-1 Field Form Unit No. 9 CONT.

Observer: _____ WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1968

Unit No.	Transect No.	First Observation				Nest Status							Cover Type															Fate							Remarks (No. & expl. on back
		Date	Nest No.	Species	No. Eggs	Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	
9	97	6/17/68	227	Mallard	7	✓														✓								7/10/68	X						
9	94	"	228	Unknown	?					✓										✓								"	X	?	2				
9	94	"	229	Mallard	2	✓														✓								"	X		2				
9	94	"	230	Mallard	12		✓													✓								7/6/68			8				
9	92	6/18/68	231	Unknown	?					✓										✓								—							
9	87	6/19/68	232	Unknown	6	✓														✓								7/6/68	X	5	1				
9	87	"	233	Mallard	9		✓													✓								"	X	9					
9	89	"	234	Mallard	6	✓														✓								7/18/68						X	Lost
9	89	"	235	C-BWT	4	✓								✓														"	X	4					
9	89	"	236	Mallard	9		✓													✓								7/18/68			X				

Form D-1 CARRELL OKAMOTO

Observer: BLAIR

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. 10 10

Year: 1968 1968

Unit No.	Transect No.	First Observation: Date	Nest No.	Species	No. Eggs	Nest Status: Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Cover Type: Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Fate: Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back	
10	108	5-20-68	423	Pi	5	✓														✓								6/19/68				X				4'5" W F 1055
"	109	"	412	UK	1					✓										✓																5'6" W NF 1023
"	109	"	413	MA	5		✓													✓				✓				6/19/68					X			NF 1031 5' W
"	111	"	474	PI	8		✓							✓						✓								6/19/68	X							5' W F 1145
"	113	"	475	MA	1	✓														✓								"					X			NF 5'6" 1315
"	119	"	476	MA	7		✓							✓						✓								6/30/68					X			1' W F 1430
10	109	6/19/68	609	Mallard	7		✓													✓	✓						✓	9/9/68	✓	7						
10	120	6/20/68	610	Unknown	3				✓		✓									✓																
10	120	"	611	Mallard	9	✓														✓								9/9/68	✓	6	3				✓	

Form D-1 Observer: DARNELL BLYTHE TREVINO AKIMOTO

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. 11

Year: 1968

Unit No.	Transect No.	First Observation: Date	Nest No.	Species	No. Eggs	Nest Status: Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Cover Type: Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Fate: Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back)
11	131	5/22/68	159	Ma. (NF)	1					X										✓															54" W 1205
11	137	6/20/68	612	Unknown	2					X										✓								—							
11	137	"	613	Unknown	3					X										✓								—							
11	137	"	614	Unknown	?					X										✓								—							
11	137	"	615	Mallard	7	X													✓	✓								7/8/68				7				✓

Form D-1 Wilson Trevino

Observer: Blythe

Field Form File

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. 14

Year: 1968 May 13

Unit No.	Transect No.	First Observation				Nest Status						Cover Type														Fate							Remarks (No. & expl. on back)
		Date	Nest No.	Species	No. Eggs	Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Date	Hatched	No Hatch.	Desert.	Destr.	Flooded	Unknown	
14	33	5/14/68	102	Mallard	8		✓													✓								6-10-68	5		3				
14	33	5/14/68	X	Pheasant	10		✓									✓				✓								6-10-68						✓	
14	36	6/10/68	315	Unknown	?					✓				✓							✓							—							
14	37	6/11/68	211	~~Coot~~ Tx	10		✓													✓								7/9/68	X						

Form D-1 Observer: SHELDON CARROLL BLAIN OKAMOTO

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. 15

Year: 1968

Unit No.	Transect No.	First Observation: Date	Nest No.	Species	No. Eggs	Nest Status: Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Cover Type: Sx	Sve	Crx	Dst	Jx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Fate: Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back)
15	37	14 MAY 68	301	Ma	2	X													X	X								6/10/68				X			1
15	48	"	302	Ma	2	X								X													X	6/10/68			X				2
15	52	"	303	MA	10		X							X						X								6/12/68	X	8					
15	52	"	304	Ma	?		X			X				X														—				X			
15	46	5/14/68	405	Ma	11		X							X														6/11/68		-				X	1338
15	38	14/May/68	351	Unk	0				X											X								—						X	
15	45	"	353	Unk	0				X											X								—							
15	45	"	354	Mal(F)	8		X							X	X													7/15/68	X	3	5				
15	47	"	451	Ma	9		X							X														6/11/68				X			
15	49	"	452	Ma	7		X							X														6/10/68			X				
15	49	"	453	Ma	9		X							X										X				6/10/68	X	9					
15	39	6/10/68	116	Mallard	4		X													X								7/10/68	X	6					
15	40	6/10/68	116	Gadwall	10		X							X														7/10/68	X	10					
15	40	"	117	Gadwall	9	X								X						X								7/10/68	X	9					
15	41	"	212	Mallard	7	X								X						X								7/10/68	X	7					
15	45	"	118	Unknown	4	X													X	X								7/15/68			X				
15	46	"	119	Gadwall	10		X													X								5/10/68	X	10					
15	46	"	120	Mallard	11		X												X	X								7/10/68	X	11					
15	48	6/11/68	317	Mallard	8		X							X														7/15/68	X						
15	48	"	318	Unknown	3															X								6/11/68	3						
15	48	"	318	Unknown	2					X				X						X							X	—							

48

10:30 AM 102" F

1:35 P.M. 42" F

2:50 P.M. 15" F ON TRAN. NF 2:55PM

W 7'6"

10:45 A 4'6" E

1:50 PM 6' E

4:00P 6' W

ON TRANSECT F 1342

6'9" W 1426 F

5 F W 1500

1777777777777

Form D-1 BLAIR

Observer: CARROLL

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. 16

Year: 1968

Unit No.	Transect No.	First Observation: Date	Nest No.	Species	No. Eggs	Nest Status: Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Cover Type: Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Fate: Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back	
16	69	5/15/68	454	Ma	2	✓							X		B													6/12/68				✓				NF 1510 3 FEAST
16	60	5/15/68	402	Pi	6		✓							X														6/12/68				X			ON LINE 1043 F
16	68	5/15/68	403	Pi	6		✓							[redacted]						X								6/12/68	X	6					6' E 1515 FLUSH
16	56	6/12/68	121	Ma	5	X								X		X												7/9/68				X				
16	58	"	320	Unknown	5					X				X	X																					
16	61	"	321	Mallard	3	X								X						X								7/9/68				X				
16	61	"	322	Unknown	5					X										X																
16	61	"	323	Unknown	9		X							X						X								7/9/68	X							
16	59	"	213	Mallard	7	X								X						X								7/9/68	X						✓	
16	64	"	324	Gadwall	11		X													X								7/9/68	X							

Form D-1 Field Form Unit No. 17 17

Observer: WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1968 1968

Unit No.	Transect No.	First Observation: Date	Nest No.	Species	No. Eggs	Nest Status: Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Cover Type: Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Fate: Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back	
17	84	16 May	308	MA	8		X													X								6/14/68	X	8						105 PM 42"E F
17	85	"	309	MA	6	X														X								6/14/68					X			122 PM 52"E F
17	77	"	310	unk	9					X										X		Predated						May have hatched						X	or more	345 PM 47"E NF
17	76	"	311	MA	10		X													X								6/17/68				X				401 PM 50"W NF
17	81	"	357	MA	5	X	X													X								6/14/68				X				153 PM 75"E NF
17	79	"	358	MA	16		X													X								6/14/68	X	13						303 PM 81"E F
17	79	"	359	MA	3	X				X										X																309 PM 12"E NF
17	79	"	360	MA	9		X													X								6/14/68	X	4			4			317 PM 18"W F
17	75	17 May	361	MA	0	X														X								6/17/68						X	✓	8:35 A.M. 9'3" W(F)
17	81	6/14/68	332	Mallard	8		X													X	X							7/10/68				8				
17	81	"	333	Unknown	?															X								6/14/68	X	4						
17	78	"	334	Unknown	?					X										X																
17	78	"	335	Unknown	2					X						X				X																
17	78	"	336	Unknown	7		X													X								6/10/68	X	7						
17	76	6/17/68	337	Mallard	12		X									X			X	X								6/10/68	X	10						
17	76	"	338	Pintail	5	X														X								6/10/68	X	5					Just Hatching	
17	75	"	339	Mallard	8		X									X				X								6/10/68	X	7	1					
17	73	"	373	Mallard	6		X														X							7/10/68	X	6						
17	79	6/14/68	371	Pintail	9	X														X								7/10/68	X	9						
17	79	"	372	Mallard	6					X																										

Form D-1 BLAIR CARROLL

Observer: OKAMOTO

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. 18

Year: MAY-1968

Unit No.	Transect No.	First Observation: Date	Nest No.	Species	No. Eggs	Nest Status: Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Cover Type: Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Fate: Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back)	
18	88	5-17-68	366	MA (NF)	2	X		X									Check			X		Again						7/18/68			X				4'9"W	3:30p.m.
	89	"	463	MA (F)	7		X													X								6/18/68	X	5	1				5'E	3:25p.m.
	89	"	464	MA (F)	6		X													X								6/18/68	X	4					6'E	3:35p.m.
	89	"	465	MA (NF)										X						X	1							5-17-68	X						1'E	
	91	5-19-68	407	Pi (F)	7		X													X								6/18/68	X	7					1'W	9:23a.m.
	94	5-19-68	408	MA (F)	9		X																	X				6/18/68	X	8					7"E	10:04a.m.
	95	5-17-68	466	MA (NF)	8					X										X								7/10/68				X			1'E	10:40a.m.
	95	"	467	MA (F)	8		X													X								6/17/68				X			0" off	11:00a.m.
	96	5-19-68	367	Pi (F)	6		X							X		X				X								6/17/68				X			4'W	10:04a.m.
	96	"	368	UNK						X										X								7/10/68			X				3'W	10:20a.m.
	96	"	369	MA (F)	8		X													X								6/17/68	X	6	1				6'E	10:30a.m.
	96	"	370	MA (F)	4	X												Check		X		Again						7/10/68	X	4					8'9"E	10:35a.m.
	96	"	371	MA (NF)	4	X		X										Check		X		Again						"	X	3					18"W	10:37a.m.
	96	"	372	~~Ct~~ (F) Tx	8	X														X								6/17/68			X				5'6"W	10:58a.m.
	96	"	373	~~Ct~~ (F) Tx	5	X								X														6/17/68						X	5'W	11:53a.m.
	97	"	409	MA (F)	7	X														X								6/17/68	X	5	2				8'E	11:23a.m.
	98	"	410	MA (F)	1	X								X			X	Check				Again						7/10/68	X	1					7'6"E	12:22p.m.
	99	"	468	MA (F)	9		X							X														6/17/68	X	9					7'W	12:10p.m.
	99	"	469	MA (F)	11		X													X								"	X	11					8'W	12:20p.m.
	99	"	470	MA (NF)	1	X														X								7/10/68						X	7'E	12:25p.m.
	100	"	471	MA (F)	9		X													X								7/10/68						X	7'W	1:10p.m.
	102	"	374	MA (NF)	1					X										X								7/10/68			X				5'E	1:09p.m.
	103	5-20-68	411	MA (F)	10		X							X														6/17/68	X	10					6"E	9:13a.m.
	105	"	472	Pi (NF)						X				X														7/10/68				X	X		5'W	9:10a.m.

STILL NG.

(~~ONE SHEET ONLY~~)

Form D-1 Field Form Unit No. 18

Observer: _____ WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1968

Unit No.	Transect No.	First Observation: Date	Nest No.	Species	No. Eggs	Nest Status: Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Cover Type: Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Fate: Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back
18	104	6/17/68	274	Mallard	12		X							(X)														5/10/68			X				
18	104	"	275	Mallard	6		X													(X)								"			X				
18	98	"	276	Redhead	19		X													(X)								"				X	X		
18	98	"	277	Mallard	4		X						X															"	X	2					
18	95	"	278	Mallard	6		X													(X)								"	X	5					
18	94	"	279	Pintail	5															(X)								6/17/68	X	5					
18	94	"	280	Unknown	11		X													(X)								7/18/68						X	Lost
18	103	"	340	Mallard	7	X														(X)		X						7/10/68	X	7					
18	103	"	341	Unknown	10		X													(X)		X						"	X	9					
18	102	"	342	Gadwall	9	X											X			(X)	X							7/18/68	X						STILL INCUBATING
18	102	"	343	Unknown	?									(X)		X												6/17/68	X	4					
18	96	"	344	Tx	9		X													(X)	X		X					6/17/68	X						
18	89	6/18/68	345	Mallard	9	X													(X)									7/10/68			X				
18	89	"	346	Pintail	5	X													(X)									"	X	5					
18	88	"	347	Gadwall	8		X												(X)									"	X	7					

Form D-1 Observer: DARNELL WILSON BLYTHE TREVINO

Field Form FILE

Unit No. 19

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Year: 1968

Unit No.	Transect No.	First Observation: Date	Nest No.	Species	No. Eggs	Nest Status: Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Cover Type: Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Fate: Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back
19	1	5/10/68	X	Pheasant	3	✓								✓														6/10/68						X	
19	16	5/13/68	101	Pintail	5	✓								✓		✓												6/10/68			X				
~~19~~	~~16~~	~~5/13/68~~	~~X~~	~~Mallard~~	~~5~~																														
19	18	6/10/68	210	Mallard	9		✓													✓								9/10/68				X			
19	16	6/10/68	312	Unknown	4					✓										✓															
19	14	"	X	Pheasant	1					✓	✓									✓															
19	14	"	313	Unknown	3					✓										✓															
19	11	"	314	Pintail	3	✓								✓						✓								7/10/68	X	5					
19	17	"	114	Unknown	10		✓									✓				✓								7/9/68	X						✓
19	13	"	115	Mallard	9		✓													✓								7/9/68	X						

Form D-1 Wilson Blythe Crewno

Field Form File

Unit No. 20

Observer:

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Year: 1968 May

Unit No.	Transect No.	First Observation				Nest Status						Cover Type														Fate							Remarks (No. & expl. on back
		Date	Nest No.	Species	No. Eggs	Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	
20		FIRST		RUN	NONE																														
20		2nd	Run		NONE																														

No Nests

Form D-1 Wilson Trevino

Observer: Blythe

Field Form File

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. 21

Year: 1968 1st Run

Unit No.	Transect No.	First Observation: Date	Nest No. (Labeled 255)	Species	No. Eggs	Nest Status: Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Cover Type: Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Fate: Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back)
21	40	5/15/68	X	Pheasant	2	✓														✓								6/11/68				X	X		3'3"W 3:30 NF
21	41	5/16/68	203	Mallard	7	✓							R	E	C	E	C	K		✓		N	E	S	T		✓	6/11/68	3						9:05 E 2'6"E
21	53	5/16/68	X	Pheasant	1	✓														✓								6/11/68						X	4'8"W 1:00 NF
21	40	6/11/68	266	Ga [redacted] (NF)	3	✓														X								9/10/68	X	6					18"E 11:30
21	44	"	161	Ux (NF)	?					X										X								—							21"E 1346
21	45	"	162	Ma (F)	7		X							X		X			X									9/10/68	X						93"W 1430
21	51	"	267	Tx (F)	7		X													X								9/10/68	X	5	2				4' E 0930
21	51	"	268	Pi (F)	7		X													X								9/10/68	X						3'9"E 0935

Form D-1 Okanogan 305 Field Form Unit No. 22

Observer: Sullam WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1968

Unit No.	Transect No.	First Observation: Date	Nest No.	Species	No. Eggs	Nest Status: Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Cover Type: Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Fate: Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back	
22	60	15/May	305	MA	3	X														X								6/12/68				X				1057AM 84" E
"	57	"	306	MA	9		X							X		X												6/12/68	X	9		X				1127AM 52" E
"	57	"	307	MA	7		X												X	X								6/12/68	X			X				1138AM 12" E
"	55	"	355	unk	0				X							X				X								—								9AM 67" WNF
22	56	6/12/68	X	Pheasant	11		X													X								7/15/68	X							
22	59	6/12/68	163	Ma (F)	7		X													X								7/15/68	X						78" W	1140
	58	6/12/68	616	Ma (F)	6		X													X								7/15/68	X	6						

Form D-1 Field Form Unit No. 23

Observer: OKAMOTO WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: May-1968

	Unit No.	Transect No.	First Observation				Nest Status						Cover Type														Fate							Remarks (No. & expl. on back)
			Date	Nest No.	Species	No. Eggs	Laying	Incub.	Covered	Desert.	Destr.	Flooded	Unknown	Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Date	Hatched	No. Hatch.	Desert.	Destr.	Flooded	Unknown	
1	23	74	15 May 68	356	MA (F)	5		X									X				(X)								6/14/68				X			36"E 4:03 p.m.

Forms D3-D4

D3 – WPS Duck Brood Sample Data

D4 – WPS Duck Nesting Transects: Individual Unit Summaries

Form D-3
Observer: Wilson

WATERFOWL PRODUCTION SURVEY -- DUCK BROOD SAMPLE DATA

Year: 1968

Date	Mallard			Pintail			Gadwall			Shoveller			B-W Teal			G-W Teal			Redhead			Ruddy		
	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No. duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.
7/2/68	3		8							15		10												
7/2/68	15		10							15		12												
7/3/68	15		5	15		7																		
7/3/68				15		7																		
7/5/68	14		7																					
7/6/68	7		7	15		6																		
7/6/68	15		8																					
7/9/68	7		6																					
7/9/68	16		4																					
7/17/68	15		8	15		7				15		5												
7/17/68	21		10	14		4																		
7/17/68				15		1																		
7/20/68							7		8															
7/20/68							7		6															
7/22/68										7		7												
7/23/68	14		8							15		8												
7/23/68										15		4												
7/23/68	7		4				17		7	7		3				17		1	17		2	17		6
7/23/68	3		7	14		3				7		5												
7/24/68	15		7	6		5	15		6	17		8	9		2									
7/24/68	15		8	7		2				17		5												
7/24/68	3		6	1		3				3		3												
7/24/68	3		4																					
	17		117	10		45	4		27	11		70	1		2	1		1	1		2	1		6

Form D-3
Observer: Wilson

WATERFOWL PRODUCTION SURVEY -- DUCK BROOD SAMPLE DATA

Year: 1968

Date	Mallard			Pintail			Gadwall			Shoveller			B-W Teal			G-W Teal			Redhead			Ruddy		
	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No. duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.
7/26/68													15		8									
7/30/68	10		3	14		2	10		6				10		3									
7/30/68				20		4																		
8/2/68	21		9																					
8/2/68	16		4							15		5												
8/5/68	19		7							15		2												
8/7/68	17		2																					
8/8/68							7		4															
8/12/68													6		4									
	5		25	2		6	2		10	2		7	3		15									

Form D-3 Observer: Dick Pospahala

WATERFOWL PRODUCTION SURVEY -- DUCK BROOD SAMPLE DATA

Year: 1968

Date	Mallard			Pintail			Gadwall			Shoveller			B-W Teal			G-W Teal								
	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No. duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.
June	6		5	6		2	6		8	6		5	6		3									
July			3			5			8			9			5									
August			6			5			7			5			6									
			5			1			8			6			5									
			3			8			4			7												
			2			2			10			6												
			3			2			10			6												
			6			3			5															
			3			5			8															
			5			5			9															
			6			8																		
			6			5																		
			5			3																		
			5			7																		
			5			5																		
						2																		
						4																		
						7																		
						6																		
						3																		
						3																		
						5																		
						6																		
						6																		
	15		68	24		108	10		77	7		44		4	19									

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 7 Recorder: DARNELL {BLAIR / CARROLL} Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	6	3	50		2		1					1			4	1						1
Pintail	1	1	100												1							
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	2	0	0		2	2									2							1
Total	9	4	44		4	2	1					1			7	1						2
Coot	1	1	100												1							1

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 2 Recorder: DARNELL Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Nx	Jba	Cx	Zx	Tla	Sva	Dike	Ditch	Flooded
Mallard	5	1	20		2		2					1			4							
Pintail																						
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown																						
Total	5	1	20		2		2					1			4							
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 3 Recorder: DARNELL {BLYTHE TREDINO DARNELL} Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Nx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	16	10	62.5		5	1	1		1					1	12	2				1		2
Pintail	3	1	33		2		1							1	2							
Gadwall	1	1	100												1							
Shoveller																						
Teal B-W & Cinn.	4	4	100												3	1						
G-W Teal																						
Ruddy																						
Unknown	10	5	50		5						1	1			7	1						1
Total	34	21	61.8		12	2																
Coot	2	1	50				1									2						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 4 Recorder: DARNELL Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Mx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	6	2	33.3		1		3		1		1			3	1							
Pintail	2	0		1	1										2							
Gadwall																						
Shoveller	1	1	100									1										
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown																						
Total	9	3	33.3	1	2		3		1		1	1		3	3							
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 5 Recorder: DARNELL Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard																						
Pintail																						
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown																						
Total	0																					
Coot	0																					

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 6 Recorder: DARNELL (POSPAHALA) Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Nx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	6	6	% 100						6													
Pintail	2	2	100						2													
Gadwall	1	0	0	1												1						
Shoveller	2	2	100												2							
Teal B-W & Cinn.	2	1	50	1											2							
G-W Teal																						
Ruddy																						
Unknown	10	2	20		6	1	1		5						5							1
Total	23	13	57	2	6	1	1		13						9	1						1
Coot	0																					

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 7 Recorder: DARNELL {WILSON TREVINO BLYTHE} Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	17	11	65	3	2		1							1	16						1	2
Pintail	1	0	—				1				1											
Gadwall																						
Shoveller																						
Teal B-W & Cinn.	1	1	100												1							
G-W Teal																						
Ruddy																						
REDHEAD	2	1	50	1											2							
Unknown	3	2	67	1											3							
Total	24	15	63	5	2		2				1			1	22						1	2
Coot	1	—					1								1							1

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 8 Recorder: DARNELL Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	15	10	67	1	2		1		4						11							
Pintail	1	1	100												1							
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	5	1	20	2	3		1		1						4							
Total	21	12	57	2	5		2		5						16							
Coot	0																					

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 9 Recorder: DARNELL Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Mx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	33	13	39	6	12	5	2		9						24							4
Pintail	7	7	100						4						3							2
Gadwall	1	1	100												1							
Shoveller	2	2	100												2							1
Teal B-W & Cinn.	8	8	100						1						7							2
G-W Teal																						
Ruddy																						
Unknown	8	3	38		5	1									8							2
Total	59	34	58	6	17	6	2		14						46							11
Coot	0																					

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 10 Recorder: DARNELL Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	5	2	40		3	3									5							1
Pintail	2	1	50		1										2							
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	2	0			2										2							
Total	9	3	33		6	3																
Coot	0																					

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 11 Recorder: DARNELL Year: 1968

Transect Coverage in % ____ (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Nx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	2	0			2										2							
Pintail																						
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	3	0			3										3							
Total	5	0	0		5										5							
Coot	0																					

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 14 Recorder: PARNELL Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Nx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	1	1	100												1							
Pintail																						
Gadwall																						
Shoveller																						
Teal B-W & Cinn.	1	1	100												1							
G-W Teal																						
Ruddy																						
Unknown	1	0	0						1													
Total	3	2	67						1						2							
Coot	0																					

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 15 Recorder: DARNELL Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Nx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	13	7	54	2	3		1		9		1				3							
Pintail																						
Gadwall	3	3	100						2						1							
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	5	1	20	3	1										5							
Total	21	11	52	5	4		1		11		1				9							
Coot	0																					

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 16 Recorder: DARNELL Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Nx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	4	1	25		3			1	2						1							
Pintail	2	1	50		1			1							1							
Gadwall	1	1	100												1							
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	3	1	33		2				2						1							
Total	10	4	40		6			2	5						4							
Coot	0																					

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 17 Recorder: DARNELL Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	13	6	46		6	1	1								13							
Pintail	2	2	100												2							
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	5	2	40		3										5							
Total	20	10	50		9	1	1								20							
Coot	0																					

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 18 Recorder: Wilson Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	24	15	63	7			2	1	6						16				1			
Pintail	5	3	60		2	1			1						4							
Gadwall	2	2	100												2							
Shoveller																						
Teal B-W & Cinn.	3	1	33	1			1		1						2							
G-W Teal																						
Ruddy																						
Redhead	1	0			1	1									1							
Unknown	4	2	50		1		1		1						3							
Total	39	23	59	8	4	2	4	1	9						28					1		
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 19 Recorder: Wilson Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Nx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	2	1	50%		1										2							
Pintail	2	1	50%	1					1						1							
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	3	1	33⅓		2										3							
Total	7	3	43	1	3				1						6							
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 20 Recorder: DARNELL Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Nx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard																						
Pintail																						
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown																						
Total	0																					
Coot	0																					

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 21 Recorder: Wilson Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Nx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	2	2	100						1						1							1
Pintail	1	1	100												1							
Gadwall	1	1	100												1							
Shoveller																						
Teal B-W & Cinn.	1	1	100												1							
G-W Teal																						
Ruddy																						
Unknown	1				1										1							
Total	6	5	83		1				1						5							1
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 22 Recorder: DARNELL Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Nx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	5	4	80		1						1				4							
Pintail																						
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	1	0		1											1							
Total	6	4	67	1	1						1				5							
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 23 Recorder: Wilson Year: 1968

Transect Coverage in % 100 (All transects=100%, every other transect = 50%,etc.)

	Total Nests on Transects	Nests		No. Deserted	No. Destroyed	No. Flooded	Unknown	Sx	Primary Covery Type (No. of nests in each primary type)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	1	0			1										1							
Pintail																						
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown																						
Total	1	0			1										1							
Coot																						

*Obtain data from Field Form D-1

Forms D5-D10

D5 – Duck Nesting Transects: Refuge Annual Summary

D6 – Calculations for Determination of Corrected Species Composition

D6a – Calculations for Determination of Ducks Produced by Species

D7 – WPS Duck Nesting Transects: Habitat Unit Summary by Years

D8 – WPS Waterfowl Production Estimates: Refuge Summary by Years

D9 – WPS Primary Duck Nesting Cover Types: Refuge Annual Summary

D10 – WPS Primary Duck Nesting Cover Types:

Form D-5

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----REFUGE ANNUAL SUMMARY*

Recorder: DARNELL

Year: 1968

Transect Coverage in %100 (All transects 100%, every other transect 50%, etc.)

Species		Unit No. 1	2	3	4	5	6	7	8	9	10	11	14	15	16	17	18	19	20	21	22	23	Total
Mallard	(1)	6	5	16	6	0	6	17	15	33	5	2	1	13	4	13	24	2	0	2	5	1	176
	(2)																						
95	(3)	3	1	10	2	0	6	11	10	13	2	0	1	7	1	6	15	1	0	2	4	0	53.98
Pintail	(1)	1		3	2		2	1	1	7	2				2	2	5	2		1			31
	(2)																						
21	(3)	1		1	0		2	0	1	7	1				1	2	3	1		1			67.74
Gadwall	(1)			1			1			1				3	1		2			1			10
	(2)																						
9	(3)			1			0			1				3	1		2			1			90.00
Shov.	(1)				1		2			2													5
	(2)																						
5	(3)				1		2			2													100.00
B-W &	(1)			4			2	1		8			1				3			1			20
Cinn.	(2)																						
Teal 17	(3)			4			1	1		8			1				1			1			85.20
G-W Teal	(1)																						
	(2)																						
	(3)																						
Redhead	(1)							2									1						3
	(2)																						
1	(3)							1									0						33.33
Ruddy	(1)																						
	(2)																						
	(3)																						
____	(1)																						
	(2)																						
	(3)																						
____	(1)																						
	(2)																						
	(3)																						
Unknown	(1)	2		10			10	3	5	8	2	3	1	5	3	5	4	3	0	1	1		66
	(2)																						
20	(3)	0		5			2	2	1	3	0	0	0	1	1	2	2	1	0	0	0		30.30
Total	(1)	9	5	34	9	0	23	24	21	59	9	5	3	21	10	20	39	7	0	6	6	1	311
% Hatched	(2)	44%	20%	62	33	0	57	63	57	58	33	0	67	52	40	50	59	43	0	83	67	0	%
168	(3)	4	1	21	3	0	13	15	12	34	3	0	2	11	4	10	23	3	0	5	4	0	54.02
Coot	(1)	1	0	2				1									2						4
	(2)																						
	(3)	1	0	1				0									0						50.00

* Obtain data from Summary Form D-4

Form D-6

CALCULATIONS FOR DETERMINATION OF CORRECTED SPECIES COMPOSITION

(1) Species	Species Composition of Transect Data: (2) No. Nests From Form D-5)	(3) Sp. Comp. Known Nests in %	(4) Weight (Col. 3 x [redacted]. 2.	Species Composition of Breeding Population: (5) No. Breeding Ducks	(6) Sp. Comp. in %	(7) Weight (Col. 6 x 1)	(8) Weight (Col. 4 + Col. 7)	Corrected Sp. Comp. of Nests: (9) Sp. Comp. in % (Col. 8 / 3)	(10) Sp. Comp. in Nos. (Col. 9 x total
Mallard	176	71.8	143.6	18,000	73.5	73.5	217.1	72.3	4098.69
Pintail	31	12.7	25.4	1,200	5.0	5.0	30.4	10.2	578.20
Gadwall	10	4.1	8.2	1,500	6.3	6.3	14.5	4.9	277.78
Shoveller	5	2.0	4.0	800	3.4	3.4	7.4	2.5	141.72
Blue-W. Teal	3.38		16.9% 2.8	250	1.1	1.1	3.9	1.3	73.70
Cinn. Teal	12.62 20	8.2	23.1% 10.3 16.4	1,000	4.1	4.1	14.4	4.8	272.11
G.W. Teal	4.00 0	0	20% 3.3	300	1.3	1.3	4.6	1.5	85.03
Redhead	3	1.2	2.4	800	3.4	3.4	5.8	1.9	107.71
Ruddy	0			300	1.3	1.3	1.3	.4	22.68
Baldpate				150	.6	.6	.6	.2	11.34
(Total)	245								
Unknown	66								
TOTAL	311	100%	200%	24,555	100%	100	300	100%	5,669
Coot	4	100	200	2,230	100	100	300	100	

Form D-6a

CALCULATIONS FOR DETERMINATION OF DUCKS PRODUCED BY SPECIES

Species	(10) Sp. Comp. in Nos. (Col. 9 x total	Hatching Success of Nests: (11) No. Nests Hatched on Transects (From Form D-5)	(12) Hatching Success in % (Col.11 / Col. 2)	(13) Total Nests Hatched (Col. 10 x Col.12)	Average Class IIc & III Broods: (14) No. Broods Recorded (From Form D-3)	(15) No. Ducklings Recorded (From Form D-3)	(16) Average Brood Size (Col.15 / Col.14)	Sp.Comp.of Ducks Produced to Flight Age: (17) No. Ducks Produced (Cols.13 x 16)	(18) Sp. Comp. in %
Mallard	4098.69	95	53.98	221247	37	210	5.68	12,567	65.40
Pintail	578.24	21	67.74	391.70	36	159	4.42	1,731	9.01
Gadwall	277.78	9	90.08	250.00	16	114	7.13	1,783	9.28
Shoveller	141.72	5	100.00	141.72	20	121	6.05	857	4.46
B.W. Teal	73.70	(2.87)	(84.91)	62.58			(0.00) 5.41	339	1.76
Cinn. Teal	272.11	17 (10.73)	(85.02) 85.00	231.35	9	37	(4.11) 5.41	1,252	6.52
G.W. Teal	85.03	(3.40)	(85.00	72.28			(0.00) 5.41	394	2.05
Redhead	107.71	1	33.33	35.90	1	2	(2.00) 5.41	194	1.01
Ruddy	22.68		(0.00) 54.02	12.25	1	6	(6.00) 5.41	66	.34
Baldpate	11.34		(0.00) 54.02	6.13	0	0	5.41	33	.17
Unknown		20	30.30						
TOTAL	5,669	168	54.02	328935	120	649	5.41	19,216	100%
Coot	4	2	50						

17
65
12

Form D-7

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----HABITAT UNIT SUMMARY BY YEARS*

Recorder: _____ 1968

Year	(1) No. Nests (2) Corr. No. Nests** (3) % Hatch	% Coverage	Unit No. 1	2	3	4	5	6	7	8	9	10	11	14	15	16	17	18	19	20	21	22	23	Total
1964	(1)		2	2	12	2	0	11	20	21	30	6	10	8	24	5	27	62	4	5	5	5	0	261
	(2)																							
	(3)		100	50	25	50	–	45	25	43	30	67	80	25	58	100	85	66	50	60	40	80	–	54.8
1965	(1)		6	1	10	2	2	11	13	16	38	5	12	3	13	2	25	35	3	2	6	6	1	212
	(2)																							
	(3)		67	0	70	0	50	36	38	44	48	0	58	33	54	50	64	76	66	100	83	66	0	55.7
1966	(1)		5	2	17	2	0	23	9	4	54	13	4	10	17	11	20	38	4	5	12	8	1	259
	(2)																							
	(3)		60	100	88	0	0	48	67	100	98	54	75	80	82	64	55	71	75	20	68	38	100	77.0
1967	(1)		1	2	27	1	1	16	23	14	46	14	10	2	14	4	27	46	5	4	5	1	0	263
	(2)																							
	(3)		0	100	66	0	100	31	70	57	74	50	50	50	57	25	70	65	80	25	20	0	0	61.9
1968	(1)		9	5	34	9	0	23	24	21	59	9	5	3	21	10	20	39	7	0	6	6	1	311
	(2)																							
	(3)		44	20	62	33	0	57	63	57	58	33	0	67	52	40	50	59	43	0	83	67	0	54.02
1969	(1)																							
	(2)																							
	(3)																							
	(1)																							
	(2)																							
	(3)																							
	(1)																							
	(2)																							
	(3)																							
	(1)																							
	(2)																							
	(3)																							
	(1)																							
	(2)																							
	(3)																							

* Obtain data from Summary Form D-5

** Adjust figures to represent 100% transect coverage

Form D-8

WATERFOWL PRODUCTION SURVEY

WATERFOWL PRODUCTION ESTIMATES----REFUGE SUMMARY BY YEARS*

Recorder: _____

1968

Year	Mal-lard	Pin-tail	Gad-wall	Shov-eller	B-W Teal	Cinn. Teal	G-W Teal	Red-head	Ruddy	Bald-Pate	Ring-necked	Total	Conf. Limits of Data in %	Coot
1964	9,214	1,475	686	323	102	102	708	249	16	–	–	12,875	20.46	
1965	10,400	1,200	1,100	400	150	1,000	150	450	120	20	20	15,010		
1966	16,718	2,110	786	686	72	1,396	350	513	237	20	–	22,888	16.29	
1967	12,685	1,811	1,434	634	534	1,768	534	649	72	12	–	20,133	18.00	
1968	12,567	1,731	1,783	857	339	1,252	394	194	66	33		19,216	17.6	

* Obtain data from Column 17, Summary Form D-6a
Obtain confidence limits from calculation (C) in text

Form D-9

WATERFOWL PRODUCTION SURVEY

PRIMARY DUCK NESTING COVER TYPES----REFUGE ANNUAL SUMMARY*

Recorder: Wilson - Darnell Year: 1968

(1) No. Nests (2) % in Primary Type		Primary Type															
		Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	
Mallard	(1)	2	39		3	2		5	121	3			1	1		8	
	(2)	1.1	22.2		1.7	1.1		2.8	68.8	1.7			.58	.58		4.5	
Pintail	(1)	1	8		1			1	20								
	(2)	3.2	25.8		3.2			3.2	64.6								
Gadwall	(1)		2						7	1							
	(2)		20						70	10							
Shoveller	(1)					1			4								
	(2)					20			80								
B-W & Cinn. Teal	(1)		2						17	1						2	
	(2)		9.1						77.3	4.5						9.1	
G.W. Teal	(1)																
	(2)																
Redhead	(1)								3								
	(2)								100								
Ruddy	(1)																
	(2)																
Unknown	(1)		10		1	1			53	1							
	(2)		15.2		1.5	1.5			80.3	1.5							
	(1)																
	(2)																
Total	(1)	3	61		5	4		6	225	6			1	1		10	
	(2)	1.0	19.6		1.6	1.3		1.9	72.3	1.9			0.4	0.4		3.2	
Coot	(1)								2	2							
	(2)								50	50							

* Obtain data from Summary Form D-4

Form D-10

WATERFOWL PRODUCTION STUDY

PRIMARY DUCK NESTING COVER TYPES----REFUGE SUMMARY BY YEARS*

Recorder: _____ 1968

Year	(1) No. Duck Nests (2) % in Primary Type	Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
		Primary Cover Type														
1964	(1)	3	37		4	3		3	202	6		2		2	4	96
	(2)	1.15	14.20		1.50	1.15		1.15	77.40	2.30		1.96		1.96	3.92	36.78
1965	(1)															
	(2)															
1966	(1)		21	2	2	12		3	2.12	5	1		1	5		107
	(2)		8.1	.8		4.6		1.2	81.9	1.9	.4		.4	1.9		41.3
1967	(1)		23	3		4		1	2.25	2		2	3			102
	(2)		8.75	1.14		1.52		.38	85.55	.76		.76	1.14			38.78
1968	(1)	3	[illegible]	0	5	4	0	6	225	6	0	0	1	1	0	10
	(2)	1.0	[illegible]	0	1.6	1.3	0	1.9	72.3	1.9	0	0	0.4	.04	0	3.2
____	(1)															
	(2)															
____	(1)															
	(2)															
____	(1)															
	(2)															
____	(1)															
	(2)															
____	(1)															
	(2)															

* Obtain data from Summary Form D-9

WPS Canada Goose Nesting Data

WATERFOWL PRODUCTION SURVEY CANADA GOOSE NESTING DATA

Observer _____ Date _____

	First Observation		Nest Status					Cover Type											Location						Fate				
UNIT No.	Date	Nearest Transect Line Number	No. eggs	Laying	Incubating	Deserted	Destroyed	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike & road	Ditch	Island	Nest Struc.	Marsh	Meadow	No. Hatched	No. Desert.	No. Destroy.	Date	Remarks (Number and explain on back)
17	4/24/68	82-83	6		✓								✓	✓							✓								
17	4/24/68	83	5		✓			✓					✓						✓										
17	4/24/68	86	3	✓													✓						✓						WEST ON MUSKRAT HOUSE
18	4/24/68	106	7		✓					✓									✓										
18	4/24/68	105	6		✓			✓						✓					✓										
15	4/26/68	45-46	8		✓								✓						✓										
19	4/26/68	4	5		✓								✓						✓			✓						5/ /68	below dike in Box
19	4/26/68	5	5		✓								✓						✓						4	2		5/9/68	edge of road against fence
19	4/26/68	4	5		✓								✓						✓			✓							
19	4/26/68	4-5	5		✓								✓							✓									on bank of ditch to covered pen east of main Goose pond
19	4/29/68	5	4		✓								✓						✓										
19	4/30/68	5	4	—																						4		ABANDONED NEST	
19	5/1/68	5	5		✓								✓											✓					NEXT TO FENCE SMALL POND SIDE
19	5/2/68	6	3	✓									✓											✓					along fence side of East Pen
19	5/9/68	3	3	✓									✓						✓			✓							NORTH EDGE OF NORTH POND
19	5/9/68	2	2	✓									✓																IN STUMP PILE WEST OF RES.
19	5/13/68																								3			5/13/68	
1																									3			5/9/68	NEST LOCATION UNKNOWN
15	5/14/68																												

WATERFOWL PRODUCTION SURVEY CANADA GOOSE NESTING DATA Date 1968

Observer

	First Observation		Nest Status					Cover Type											Location						Fate				
UNIT No	Date	Nearest Transect Line Number	No. eggs	Laying	Incubating	Deserted	Destroyed	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike & road	Ditch	Island	Nest Struc.	Marsh	Meadow	No. Hatched	No. Desert.	No. Destroy.	Date	Remarks (Number and explain on back)
19	3/25/68	4 Goose pen	6		✓								✓						✓						4			4/26/68	SOUTH EDGE OF SOUTH POND
19	3/28/68	4 Goose pens	6		✓														✓			✓							
19	3/28/68	4 Goose pens	1	✓																✓					3	3		4/29/68	2 GOSLINGS PUT IN BROODER
19	4/2/68	3 Goose pen	3		✓														✓						3			5/3/68	TREE ROOT NEAR PIRSAL POND
19	4/10/68	4 "	4		✓														✓										BARE POND BANK
19	4/16/68	4 "			✓								✓								✓				3	1		5/9/68	
19	4/16/68	4 "			✓								✓								✓								
19	4/17/68	4 "	5		✓														✓						3	2		4/1/68	
19	4/17/68	4 "	4	✓									✓											✓					
19	4/17/68	4 "			✓								✓										✓		1	?		5/10/68	
19	4/17/68	4 "		✓															✓										
19	4/17/68	4 "	6	✓															✓			✓							
19	4/17/68	4 "		✓															✓			✓							
19	4/17/68	4 "		✓															✓			✓							
19	4/17/68	5 "	5	✓									✓						✓						5	5		5-2-68	
6	4/17/68	3 1	4		✓														✓										
6	4/17/68	5 1	2	✓															✓										
19	4/18/68	5	5	✓									✓											✓	6			5/9/68	
19	4/18/68	6	6	✓						✓														✓					
19	4/18/68	6	?	✓									✓											✓					
19	4/18/68	7	5	✓									✓									✓		✓					
19	4/18/68	7	6	✓									✓										✓	✓					

WATERFOWL PRODUCTION SURVEY CANADA GOOSE NESTING DATA

Observer _____ Date _____

	First Observation		Nest Status					Cover Type											Location						Fate				
UNIT NO.	Date	Nearest Transect Line Number	No. eggs	Laying	Incubating	Deserted	Destroyed	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike & road	Ditch	Island	Nest Struc.	Marsh	Meadow	No. Hatched	No. Desert.	No. Destroy.	Date	Remarks (Number and explain on back)
19	4/18/68	9	?										X								✓	✓							
19	4/18/68	13	5		✓								✓						✓										
19	4/18/68	13	6		✓						✓													✓					
23	4/18/68	73 ?	6		✓								✓								✓				5			4/29/68	1 egg left 4/30/64
17	4/18/68	85 ?			✓					✓											✓								
7	4/22/68	40 ?			✓								✓																
7	4/22/68	41	3	✓				✓											✓										
7	4/22/68	42 ?			✓								✓								✓	✓							
7	4/22/68	42	2	✓									✓							✓									
7	4/22/68	44 ?		✓									✓								✓								
7	4/22/68	45	5		✓								✓							✓									
7	4/22/68	54 ?			✓								✓								✓								
17	4/22/68	76 ?			?						✓										✓								
17	4/22/68	77	?	?							✓										✓								
17	4/22/68	78	?	?										✓							✓								
17	4/22/68	77	5		✓				✓															✓					
19	4/22/68	13	5		✓										✓						✓				✓				
19	4/22/68	13-14	5		✓										✓										✓				
14	4/22/68	37	5		✓				✓																✓	3		4/30/68	3 GOSLINGS
14	4/23/68	39	7		✓				✓						✓							✓							
17	4/24/68	81	3	✓											✓						✓								
17	4/24/68	81-82	5		✓										✓							✓							

Raw Data/Memos

"Rough" Nesting Information

Total nests found on all units =

Of these 311 nests: 169 H
119 D
23 U

The percentages are: 54.34 %
38.26 %
7.40 %

If the 27 nests of unknown fa
disregarded, the total number of ne
288. i.e. 169 Hatched, 119 Destro

These percentages are: 58
41.

Unit	Nests
1	9
2	5
3	24, 10 } 34
4	9
6	23
7	18, 6 } 24
8	21
9	25, 24, 10 } 59
10	9
11	5
14	3
15	21
16	10
17	20
18	24, 15 } 39
19	7
21	6
22	6
23	1
Total	311

Also found were 4 Coot nests
6 Pheasant nests

UNIT	Mallard		Pintail		Gadwall		Shoveler		Redhead		Teal		Unknown	
	H	NH	H	NH	H	NH	H	NH	H	NH	H	NH	H	NH
1	3	2^{1}	1	0									0	2
2	1	2^{2}												
3	11	3^{2}	1	1^{1}	1	0					4	0	5	5
4	1	2^{3}	0	2			1	0						
6	6	0	2	0	0	1	2	0			1	1	2	1^{1}
7	11	5^{1}	0	0^{1}					1	1	1	0	2	1
8	10	4^{1}	1	0									1	3^{1}
9	13	18^{2}	7	0	1	0	2	0			8	0	3	5
10	2	3	1	1									0	2
11	0	2											0	3
14	1	0									1	0	0	1
15	7	5^{1}			3	0							1	3^{1}
16	1	3	1	1	1	0							1	2
17	6	6^{1}	2	0									2	3
18	15	7^{2}	3	2	2	0			1	0	1	1^{1}	2	1^{1}
19	1	1	1	1									1	2
21	2	0	1	0	1	0					1	0	0	1
22	4	1											0	1
23	0	1												
Total	95	65^{16}	21	8^{2}	9	1	5	0	2	1	17	2^{1}	20	42^{9}
Grand Total	176		31		10		5		3		20		66	

Colorado Cooperative Wildlife Research Unit

Cooperative Units Building
Colorado State University
FORT COLLINS, COLORADO 80521

COOPERATORS
Bureau of Sport Fisheries and Wildlife
Colorado Game, Fish and Parks Department
Colorado State University
Wildlife Management Institute

FISH & WILDLIFE SERVICE
Monte Vista Refuge
APR 18 1968
RECEIVED

April 17, 1968

Mr. Charles Bryant
Manager
Monte Vista National Wildlife Refuge
P. O. Box 566
Monte Vista, Colorado 81144

Dear Pete:

Attached are the D-3 forms which I am returning for your files. I made copies of these sheets and have them in my files. Thanks very much for your help.

You'll be interested to know that the data for 64-67 incl. will be punched on IBM cards next week. One more year's data and we'll be in a position to start an analysis.

I'll be down to see you about May 20.

Sincerely,

Fred

Fred A. Glover
Leader

FAG/dk
Enclosures

Form D-3 Mickelson
Observer: Darnell

WATERFOWL PRODUCTION SURVEY -- DUCK BROOD SAMPLE DATA

Year: 1967

Date	Mallard (132)			Pintail (143)			Gadwall (135)			Shoveller (142)			B-W Teal (140)			G-W Teal (139)			REDHEAD (146)			WIDGEON (132)			COOT (221)	
	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No. duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.		
8/2/67	14						18		6																18	3
				18		6	18		6																18	2
				3		5																			3	5
				3		5																				
				15		9																				
8/3/67	14	P4	5	15		10	14	P3	6	15		4	7		6											
	14		7	15		5	15		8																	
	14		8	15		6																				
	7		6	7		5	7		6	7		5														
	14		7	7		5				14		5														
				14		4																				
8/4/67	22		9																							
8/7/67	19		7	19		4				14		4							7		4				3	4
8/8/67	15		7	15		7	15		10	3		10	3		6				15		6	14		6		
	15		9	15		9				15		7														
	15		4	14		5	14		7	14		4														
	14		8							14		6														
	14		6							16		5														
	14		6																							
	14		5																							
	15		7																							
	4		5																							

Form D-3 DARNELL
Observer: MICKELSON

WATERFOWL PRODUCTION SURVEY -- DUCK BROOD SAMPLE DATA

167

Year: 1967

Date	Mallard			Pintail			Gadwall			Shoveller			B-W Teal			G-W Teal			RUDDY					
	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No. duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.
8/9/67							18		9															
							17		4															
							15		9															
8/11/67				15		5																		
8/16/67	17		9	17		7	18		6				18		8				17		2			
				17		4	17		7				17		4									
							17		9				17		8									
							17		6															
							17		7															
8/17/67	15		7	15		7	15		9															
							15		6															
							15		9															
							14		9															
8/19/67				14		6																		
8/20/67				14		7	14		9															
							18		8				15	P2	5									
				15		8	15		9				15		7									
							14		10															
8/22/67							18		6															

Form D-3 Observer: MICKELSON DARNELL

WATERFOWL PRODUCTION SURVEY -- DUCK BROOD SAMPLE DATA

Year: 1967

Date	Mallard			Pintail			Gadwall			Shoveller			B-W Teal			G-W Teal			REDHEAD			RUDDY			COOT	
	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No. duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.	Unit No.	Pond No.	No.duckl. Class IIc & III Br.		
6/28/67	18		14																							
6/29/67	14		2	1		6																				
"				15		7																				
7/10/67	21		9																							
7/10/67	19		6																							
"	19		5																							
7/11/67	14		7																							
"	21		6																							
7/12/67				17		5																				
7/13/67	15		5							15		7														
7/17/67				15		6																				
7/18/67				4		5				10		8	4		7											
7/19/67	7		6																							
7/20/67	14		7																							
7/31/67	14		5	14		6				14		2														
"	15		7							17		5														
"	15		5										3		6											
"	17		7																						17	3
8/1/67	17		5										17		9										17	3
8/1/67	17		11							17		5							17		4				17	2
"	17		9							14		8							17		9				17	3
"	14		6	14		9																17		5		
"	14		8																							
	19		13			7				6			3						2			1				

Colorado Cooperative Wildlife Research Unit

Cooperative Units Building
Colorado State University
FORT COLLINS, COLORADO 80521

COOPERATORS
Bureau of Sport Fisheries and Wildlife
Colorado Game, Fish and Parks Depar
Colorado State University
Wildlife Management Institute

October 24, 1968

RECEIVE
NOV 5 1968
WILDLIFE MANAGEME
BIOLOGIST - REFUG

Mr. Mitchell Sheldon
Wildlife Biologist
Division of Wildlife Refuges
Dureau of Sport Fisheries
and Wildlife
P. O. Box 1306
Albuquerque, New Mexico 87130

Dear Red:

In tabulating the Monte Vista waterfowl data (form D-1), we have noted the following omissions:

Nest 207, Unit 9 - no cover type, no nest status (Jba) Ex
Nest 159, Unit 11 - no cover type, no date, no fate
Nest 319, Unit 15 - no nest status
Nest 333, Unit 17 - no nest status
Nest 272, Unit 17 - no cover type
Nest 465, Unit 18 - no nest status
Nest 279, Unit 18 - no nest status
Nest 343, Unit 18 - no nest status
Nest 161, Unit 21 - no cover type

If you can shed any light on the above, please let me know, otherwise these data will have to be dropped from the 1968 tabulation.

Sincerely,

Fred

Dr. Fred A. Glover
Leader

FAG:em

Answered 11/8/68 WSH

Regional Director, Bureau of Sport
Fisheries & Wildlife
Albuquerque, New Mexico 87103

July 31, 1968

Attn: Red Shelden

Refuge Manager, Monte Vista Refuge
Monte Vista, Colorado 81144

Field Forms B-1, Monte Vista Refuge for reproduction.

Field forms for the 1968 Monte Vista Refuge Duck Nesting Survey are attached.

We have not recorded any of the data. As soon as these are duplicated will you please return them.

Charles R. Bryant

Monte Vista National Wildlife Refuge
P.O. Box 511
Monte Vista, Colorado 81144

July 30, 1968

Mr. Richard Hopper
Game Research Center
P.O. Box 567
Ft. Collins, Colorado 80522

Dear Mr. Hopper:

The following list of nests is our completed transect run for 1968.

	Hatched	Not Hatched	Unknown	Total
Mallard	95	65	16	176
Pintail	21	8	2	31
Gadwall	9	1	0	10
Shoveler	5	0	0	5
Redhead	2	1	0	3
Teal species	17	2	1	20
Unknown species	20	42	4	66
Total	169	119	23	311

Sincerely yours,

Charles R. Bryant

CRB/mg

cc: Mitchell Sheldon

Hatching Success 54.3%
SURVEY FACTOR 18.2%
ESTIMATED HATCH OF UNKNOWN NESTS 13
169 + 13 = 182 SUCCESSFUL NESTS
ESTIMATED AVERAGE = 6
182 X 18.2 = 3312 NESTS
3312 X 6 = 19,872 ESTIMATED NESTS

Monte Vista National Wildlife Refuge
P.O. Box 511
Monte Vista, Colorado 81144

June 26, 1968

Mr. Richard Hopper
Game Research Center
P.O. Box 567
Ft. Collins, Colorado 80522

Dear Mr. Hopper:

The list of hatched nests from the May run of the 1968 nesting survey was omitted from my letter of June 24.

The fate of some of these nests is still in doubt so the ratio of successful to destroyed nests is not yet accurate.

Mallard ... 30 hatched nests
Pintail ... 9 hatched nests
Unknown teal 2 hatched nests
Unknown ... 2 hatched nests

Sincerely yours,

Robert L. Darnell
Acting Refuge Mgr.

RLD/mg

Monte Vista National Wildlife Refuge
P.O. Box 511
Monte Vista, Colorado 81144

June 24, 1968

Mr. Richard Hopper
Game Research Center
P.O. Box 567
Ft. Collins, Colorado 80522

Dear Mr. Hopper:

The following list of nests were recorded on our second nesting transect run which was accomplished June 10 through June 21, 1968.

Mallard	- 82 nests
Pintail	- 16 nests
Gadwall	- 9 nests
Shoveler	- 4 nests
Redhead	- 4 nests
Unknown teal	- 14 nests
Unknown species	- 51 nests
Coot	- 4 nests
Total	184 nests

Sincerely yours,

Robert L. Darnell
Acting Refuge Mgr.

WJW/mg

Monte Vista National Wildlife Refuge
P.O. Box 511
Monte Vista, Colorado 81144

June 17, 1968

Mr. Richard Hopper
Game Research Center
P.O. Box 567
Ft. Collins, Colorado 80522

Dear Mr. Hopper:

Last week, Mr. Funk requested a list of the duck nests by species which we found on Monte Vista Refuge. The following list of nests was recorded on our first nesting transect, run May 13 through 23, 1968.

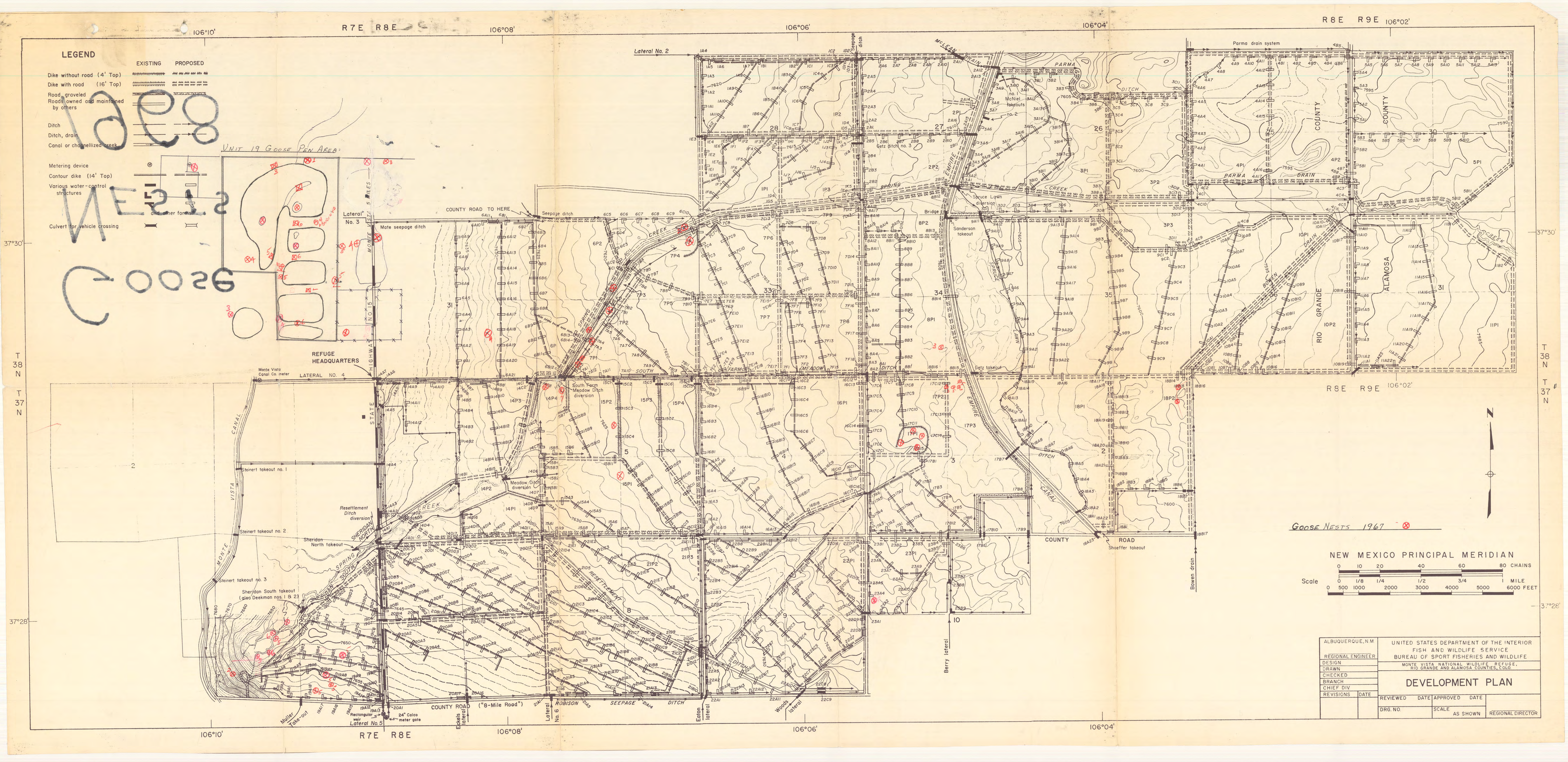
Mallard	- 89 nests
Pintail	- 13 nests
Unknown teal (BW or Cinnamon)	- 4 nests
Unknown species	- 12 nests
Total	118 nests

Sincerely yours,

Charles R. Bryant

RLD/mg

Maps


LEGEND
EXISTING
PROPOSED
Dike without road (4' Top)
Dike with road (16' Top)
Road, graveled
Roads owned and maintained by others
Ditch
Ditch, drain
Canal or channellized creek
Metering device
Contour dike (14' Top)
Various water-control structures
Culvert for vehicle crossing
Unit 19 Goose Pen Area
Goose Nests 1967
NEW MEXICO PRINCIPAL MERIDIAN
Scale
CHAINS
MILE
FEET
UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE
MONTE VISTA NATIONAL WILDLIFE REFUGE,
RIO GRANDE AND ALAMOSA COUNTIES, COLO.
DEVELOPMENT PLAN
ALBUQUERQUE, N.M.
REGIONAL ENGINEER
DESIGN
DRAWN
CHECKED
BRANCH
CHIEF DIV
REVISIONS
DATE
REVIEWED
APPROVED
DRG. NO.
SCALE
AS SHOWN
REGIONAL DIRECTOR
R7E R8E
R8E R9E
T 38 N
T 37 N
106°10'
106°08'
106°06'
106°04'
106°02'
37°30'
37°28'
REFUGE HEADQUARTERS
LATERAL NO. 4
Lateral No. 2
Lateral No. 3
Lateral No. 5
Lateral No. 6
COUNTY ROAD TO HERE
COUNTY ROAD ("8-Mile Road")
COUNTY ROAD
Seepage ditch
Mate seepage ditch
Parma drain system
Monte Vista Canal Co. meter
Steinert takeout no. 1
Steinert takeout no. 2
Steinert takeout no. 3
Sheridan North takeout
Sheridan South takeout (also Deekman nos. 1 & 2)
Resettlement Ditch diversion
Meadow Ditch diversion
South Farm Meadow Ditch diversion
Sanderson takeout
Getz takeout
Shaeffer takeout
McNiel takeouts
Bowen drain
Berry lateral
Edon lateral
Woods lateral
Eckels lateral
Miller Take-out
Rectangular weir
24" Calco meter gate
MONTE VISTA CANAL
STATE HIGHWAY NO. 15
SHERIDAN NORTH
SHERIDAN SOUTH
SPRING CREEK
ROBISON SEEPAGE DITCH
FARM MEADOW DITCH
PARMA DITCH
PARMA DRAIN
COUNTY DRAIN
RIO GRANDE
ALAMOSA
EMPIRE CANAL
MCLEAN DRAIN
ROCK CREEK
RESETTLEMENT