1967

Form D1

Waterfowl Production Surveys

Units 1-23

UNIT 1

Form D-1 Field Form

Observer: DARNELL STUDENTS WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1967

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	67	5/23	611	Mal	6		X													X								6/13/67				6			18" W 9:05

UNIT 2

Form D-1 DARNELL — Field Form

Observer: CLARK / DAVIS — WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA — Year: _____

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
	COMPLETED	5/17/67																																	
2	79	6/14/67	193	Mo	7		X													X							X	7/12/67	X	7					4'W 11:10 A.M.
2	74	6/14/67	194	Ma	6	X							058 Transect							X								7/12/67							7'W 12:00 A.M.
	79	7/12/67	457	Mal.	7		X													X								8/8/67	X	7					1'6" E 11:00

UNIT 17

Form D-1 DARNELL MICKELSON

Observer: CLARK DAVIS

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Year: June 13, 1967

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	81	6/13/67	216	GA	9		X													X							X	7/11/67	X	5					
17	81	"	217	MA	2	X														X								7/11/67			X				
17	81	7/11/67	452	unk	1				X											X								—							6"E 9:05
17	84	7/11/67	143	Co	4		X													X								8/8/67				X			2'7"E 10:00
	82	7/11/67	453	Co	2				X											X								—							2'3"W 9:50
	82	7/11/67	454	Unk	5															X								—	X	5					3'4"W 10:10

Form D-1 DARNELL MICKELSON

Observer: CLARK DAVIS

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Year: 1967

UNIT 18

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	96	6/15/67	180	BWT or CT	11		X													X							X	8/8/67	X	10					2'6" W 9:30
18	99	6/15/67	122	BWT or CT	9		X													X							X	7/13/67	X	9					3'1" W 9:15
18	100	6/15/67	123	UX	2				X											X							X	7/13/67					X		6'6" W 9:55
18	100		124	UX	7															X							X	—	X	7					3'10" E 10:15
18	97	6/15/67	359	Pheasant	8									X														6/15	X	6					5'10" E 8:35
18	97	6/15/67	360	Mal.	9	X								X													X	7/13/67				X			6' E 8:55
18	97	6/15/67	361	BW or Cin. Teal	10		X													X							X	7/13/67	X	10					5'3" W 9:05
18	97	6/15/67	362	BW or Cin. Teal	9		X													X							X	8/8/67				X			2'2" E 9:10
18	98	6/15/67	363	Mal.	7		X													X							X	7/13/67	X	5					1'9" E 9:30
18	98	6/15/67	364	Unk.	1	X														X							X	7/13/67			X				5'7" W 9:40
18	98	6/15/67	365	Mal.	3					X										X							X	7/13/67					X		4'3" E 9:45
18	98	6/15/67	366	Mal.	6		X													X							X	7/13/67	X	6					7' W 9:50
18	98	6/15/67	367	BW. or Cin Teal	8 Teal 2 Mal.		X													X							X	7/13/67	X	9					7'6" E 9:55
18	98	6/15/67	368	Mal.	9		X													X							X	7/13/67	X	9					14" E 10:00
18	98	6/15/67	369	Mal.	7		X													X							X	7/13/67	X	6					8'3" E 10:10
18	98	6/15/67	370	Mal.	8		X							X													X	7/13/67	X	2					15" E 10:15
18	103	6/15/67	371	Mal	8		X							X														7/13/67	X	8					8" E 11:50
18	104	6/15/67	181	Mal.	6		X													X							X	7/13/67					X		4' E 11:45
18	106	6/15/67	Co	Co	7		X							X													X	7/13/67	X	5					5' E 12:00N
18	101	6/15/67	220	Ma	5		X							X														7/13/67	X	7					46" E 9:16 AM
18	102	6/15/67	221	Ma	2		X													X							X	7/13/67			X		X		Center line
18	100	7/13/67	421	Pi.	6															X							X	7/13/67					X		2' W 11:00
18	96	7/13/67	459	UX	6		X							X														8/8/67	X	6					7'10" W 11:00
18	102	7/13/67	145	Ux	3			X		X										X								—							2'C" E 10:55

Form D-1 Field Form Unit No. 18

Observer: _____ WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1967

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	89	7/13/67	422	Gadwall	7		X													X								8/8/67	X	7					2'W	1:40
18	89	7/13/67	423	BWG.C. Teal	12															X								—	X	10					2'W	2:00
18	93	7/13/67	146	Co	9		X																X				X	8/8/67	X	9					2'3"W	2:00

Form D-1 DARNELL — Field Form — UNIT 3

Observer: CLARK DAVIS — WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA — Year: 1967

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	89	5-19-67	158	Ma	2	X														X							X	6/16/67	X	5					6 W	10:00
3	98	5-19-67	159	Ma	1	X								X														7/14/67						X	6 W	12:00
3	98	5-19-67	160	Ma	5		X													X							X	6/15/67	X	5					5' W	12:20
3	98	5-19-67	161	Ma	7					X										X							X	—							5' E	12:30
3	97	5-19-67	106	Ma	19		X			Still			incubating							X								6/15/67	X	10					7 E	11:50
3	97	5-19-67	107	Ma	8		X													X								6/15/67	X	8					6" W	11:55
3	100	5-19-67	108	Ma	8		X													X								6/15/67	X	8					1' E	12:35
3	99	5-19-67	206	Ma	9		X													X							X	6/15/67	X	8					6' W	12:35
3	101	5-19-67	162	~~Ma~~ Wx	2	X														X								6/15/67				X			ON LINE	2:10
3	106	6-15-67	125	Co	10		X				X													X			X	7/13/67	X	10					1' E	2:15
3	106	6-15-67	126	Co	9		X				X									X							X	7/13/67	X	9					2'8"	2:20
3	105	6/15/67	222	Ma	9		X													X							X	7/13/67	X	8					7'6" W	1:28
3	104	6/15	Co	Co	9		X														X						X	8/8/67	X	9					6'9" E	1:35
3	101	6/15/67	372	Bw. or Co Teal	10		X													X							X	7/14/67	X	10					1'9" W	1:30
3	101	6/15/67	373	Bw. or C. Teal	8		X													X							X	7/14/67	X	7					on line	1:35
3	101	6/15/67	374	Mal.	5															X							X	—				X			4'6" W	1:45
3	100	6/15/67	375	Bw. or C. Teal	9		X													X							X	7/14/67	X	8					1'5" W	2:20
3	97	6/15/67	376	Coot	9	X																		X			X	8/8/67	X	9					3' W	2:55
3	96	6/15/67	377	Coot	6	X																X					X	7/14/67	X	6					8' E	3:55
3	96	6/15/67	378	Shoveler	5		X													X								7/14/67	X	5					1'9" W	4:15
3	93	6/15/67	223	Ma	8		X													X							X	7/14/67	X	7					7'7" E	2 —
3	90	6/16/67	127	Ma	5		X													X							X	7/14/67	X	4					2'10" E	
3	89	6/16/67	182	Ma	5	X														X							X	7/14/67				X			1' W	

Form D-1 Field Form Unit No. 3

Observer: _____ WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1967

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	87	6/16/67	379	Unk	2	X				Flag			gone							X								7/14/67						X	4'4"	W 8:30
3	86	6/16/67	380	Bw. of C. Teal	8		X							X						X							X	7/14/67	X	8					6" W	9:15
3	86	6/16/67	381	Unk	3	X				Flag			gone							X								7/14/67						X	8' W	9:30
3	103	7/13/67	459	Bw. of C. Teal	6															X								—	X	6					5'6"	W 3:10
3	102	7/13/67	460	Bw. of C. Teal	5					X										X								—							4'5"	W 4:00
3	98	7/14/67	147	Co	7		X														X						X	8/8/67						X	3'6"	E 10:10
3	101	7/14/67	461	Bw. of C. Teal	10		X	(Nothing on Flag)												X								8/8/67	X	10					3'4"	W 9:00
3	100	7/14/67	465	Mal.	7		X													X								8/8/67	X	7					6' W	10:30
3	100	7/14/67	462	Redhead	7					X										X								—							1' W	10:20
3	100	7/14/67	463	Mal.	6															X								—	X	6					1' E	10:10
3	93	7/14/67	148	Co	6		X								X												X	8/8/67			X				2'6"	W 11:30
~~3~~	~~84~~	~~7/14/67~~	~~423~~	~~Gadwall~~	~~9~~		~~X~~							~~X~~						~~Off Transect~~															~~on Line 1:20~~	

UNIT 4

Form D-1 Field Form

Observer: _____ WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1967

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	116	5/22/67	209	Ma	7		X							X													X	6/19/67	?					X	2'7" W 4:20
4	115	5/19/67	196	Ca Co	5		X													X							X	7/18/67	X	5					8" W 1:25

UNIT 5

Form D-1 Field Form

Observer: ESPINOSA WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: May 19/67

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)
5	139	5/19/67	975	CTeal	7		V							V														6/19/67	X	7					1' E of tran 12'45'

Form D-1 — Field Form — Unit No. 6

Observer: POSPAHALA — WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA — Year: 1967

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	31	6-8	11	PINTAIL	4		x													X								7-16				X			10:31 16" W
6	31	6-8	12	MALLARD	6		x							x		x												7-6				X			10:42
6	31	6-8	13	UNKNOWN	1									x	x	x												6-8				X			10:95 73"W
6	33	6-8	14	PINTAIL	3		x							x														7-6	x	3					12:50 73"W
6	35	6-9	15	SHOVELER	9															X	X							7-7	x	9					09:15 15"E
6	36	6-9	16	MALLARD	7		x													X								7-7	x	6					10:39 53"E
6	38	6-9	17	GADWALL	5		x							x		x												7-7				X			12:50 19"W
6	40	6-9	18	UNKNOWN	?															X								6-9				X			02:00 42"E
6	41	6-9	19	UNKNOWN	3		x													X								7-8				X			03:13 21°W
6	32	7-6	36	BW. C. UNKNOWN TEAL	8					x										X								7-8				X			12:15 85"W
6	36	7-7	37	MALLARD	5		X													X									X						10:58 39"E
6	36	7-7	38	UNKNOWN	8		X													X								7-21			X				11:10 27"W
6	37	7-7	39	UNKNOWN	5		X													X								7-21				X			11:56 61"W

Form D-1 Field Form Unit No. 6

Observer: POSPAHALA WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1967

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	31	MAY 12	1	Ma	8		X							✓						✓								6-8	X	7		X			10:28 71"W
6	35	MAY 13	2	Ma	2	X														✓								6-9				X			11:15 5"W
6	36	MAY 13	3	Ma	9		X							✓		✓				✓								6-9				X			12:22 31"W
6	28	MAY 12	X	PHEAS	13														✓	✓								6-8	X	12					
6	42	MAY 15	X	Ph	12															✓								6-12				X			

UNIT 7

Form D-1 Field Form

Observer: DARNELL, CLARK, DAVIS

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1967

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	69	5-23-67	169	Ma	7		X													X								6/22/67	X	6	2				2' W	3:00
	68		612	Ma	9		X													X								6/22/67	X	9					7' E	3:00
7	67		613	Ma	5					X	X									X								—							3' E	3:05
7	55		600	Ma	4		X												X								6/22/67	X	6					0 LINE	1:40
7	57		605	Ma	8		X													X								6/22/67	X	8					1' W	2:00
7	65		606	Pi	8		X													X								6/22/67	X	8					7' E	2:50
7	65		607	Ma	7					X							X											7/19/67	X	7					6' E	3:15
7	61		114	Rd ~~Dk~~ II	2					X	X									X	STILL	INCUB.						6-22 7-20-67				X			1' E	1:45
7	63	5/23/67	210	Ma	0					X										X								6/22/67							4' 7" W	3:50
7	53	6/21.67	402	Mal	7															X								—	X	7					1' E	4:00
7	43	6/21/67	401	Mal.	6		X													X								7/20/67	X	6					2'2" E	2:30
	55	6/22/67	194	shov.	7		X													X								7/20/67	X	7					4' E	8:50
7	60	6/22/67	139	Ma	7		X														X							7/20/67	X	7					1'6" E	9:00
7	66	6/22/67	140	Ma	6		X													X								7/20/67				X			3'7" W	9:15
7	60	6/22/67	141	Ma	5	X														X								7/20/67			X				1'9" W	9:17
7	62	6/22/67	226	Ma	5				X											X								7/19/67	X	8					2'3" E	9:29
7	64	6/22/67	195	Mal.	6					X										X								7/19/67						X	on L Inc	10:10
7	66	6/22/67	403	Mal.	10		X													X							X	7/20/67	X	9					2'4" W	10:20
7	67	6/22/67	142	Ma	5				X	X										X								~~7/20/67~~			X				2'10" E	10:00
7	69	6/22/67	227	Ma	6		X							X		X												7/20/67	X	5						
7	53	7/20/67	483	Mal.	6															X								—	X	6					4' W	12:30
7	58	7/20/67	484	Dk	5					X										X								—							3'11" W	1:15
7	63	7/20/67	427	[redacted] Dk	8															X								—	X	8					2' E	2:30

Form D-1 Field Form Unit No. 7

Observer: _____ WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1967

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	70	7/20/67	485	Mal.	11															X								—	X	3					4'1" E 3:00

Form D-1 DARNELL

Observer: CLARK ~~DAVIS~~

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Year: 1967 UNIT #8

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	Nb. Hatch.	Desert.	Destr.	Flooded	Unknown	Remarks (No. & expl. on back)	
8	73	5/17/67	266	Ma	9		✓													✓				✓				6/14/67	X	9					3'	W of Tran 2:40
8	74	5/17/67	267	Ma	8		✓													✓								6/14/67	X	8					3'4"	E of Tran 2:55
8	75	5/18/67	268	Ma	8		✓																	✓				6/14/67	X	9					5'9"	E of Tran 9:35
8	76	5/18/67	269	Pi	6		✓													✓								6/14/67	X	6					4'	W of Tran 9:40
8	77	5/18/67	270	Ma	9		✓													✓								6/14/67	X	9					4'	W of Tran 10:50
8	78	5/18/67	271	Ma	4					✓										✓								6/14/67			X	X			3'	E of Tran 11:10
8	79	5/18/67	272	Ma	5		✓ (6/14/67 5+1L INCUBATING)																	✓				6-14 7/12/67	X	5					2'	W of Tran 1:00
8	80	5/18/67	273	Pi	5		✓													✓								6/14/67	X	5					6'10"	W of Tran 1:15
		COMPLETED 5-18-67																																		
8	81	6/14/67	118	6 Ma 67	6		X															✓X				X		7/12/67						X	2'5"	W 10:55
8	81	6/14/67	119	Ma	6		X															X				X		7/12/67			X		X		2'8"	E 11:00
	75	6/14/67	175	BW or C Teal	10		X							X						X						X		8/8/67	X	X					5' W	1:20 PM
	76	7/12/67	144	? x	2	X														X								7/12 67			X				2'10"	W 2:00
	73	7/12/67	418	Bw Teal or C.	8		X							X						X		ESS	Flooded												7' W	2:10
	73	7/12/67	419	Bw Teal or C	4					X										X								—							5' W	2:15
	73	7/12/67	420	Mal.	4					X										X								—							3' E	2:00

UNIT 9

Form D-1 Field Form

Observer: John DARNELL, CLARK, DAVIS, MICKELSONS

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: May 18/67

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	83	May 18/67	274	nm	0				✓					X						✓								6/16/67			X				5'	E of Trans 8:40
9	96	5-22-67	207	Pi	7		X							X														6/16/67	X	7					7'9"	E. 12:06
9	93	5/22/67	277	Pi	5				✓											✓								6/16/67				X			8' W	12:30
9	94	5/22/67	163	Ma	7		X		still	incubating			off							X	Transect						X	6-16 7/17/67							5'	W 11:45
9	94	"	164	Ma	4					X										X							X	6-16-67				X			2'	W 12:50
9	94	"	165	Ma	4	X			still	incubating										X							X	6-16 7/17/67				X			4'	W 12:15
9	97	5/22/67	166	BWorCin	7		X													X								6/16/67	8	0	*				4'	W 12:30
9	91	"	279	Mal	5					X										X							X	—								
9	92	"	276	Mal	7		X													X							X	6-16-67	X	6					6' 11"	W 12:00N
9	92	"	278	Mal	5	X														X								6-16-67	X	4					5' 1"	W 12:15P
9	87	"	109	Pi	0	?	No Eggs							X													X	6-16-67	0	0					1' E	9:25P
9	95	"	110	Pi	7		X													X					X			6-16-67	X	7					1'6"	E 11:55
9	95	"	111	Ma	7		X													X								6-16-67	X	7					2"	E 12:05
9	98	"	112	Pi	4		X													X								6-16-67			X				1'	E 12:40
	101	"	167	Shov.	7		X		off	Transect										X						off		6-16 Transect							7'	E 2:30 P.M.
9	104	5/22/67	300	Mal	8		X													X							X	6-19-67			X	X			8'	W 2:05 P.M.
9	82	6/16/67	382	Bw. or C. Teal	9		X														X							7/14/67	X	9					2'3"	E 9:50
9	85	6/16/67	128	Ga	9		X													X								7/14/67	X	4					6'	E 11:15
9	86	6/16/67	194	Pi	11	X	X		still	incub.										X								6/18/67	X	10					4'	E 10:45
9	88	6/16/67	383	Mal.	8		X													X							X	7/14/67	X	7					1'6"	E 11:00
9	89	6/16/67	384	mal	9		X													X							X	7/14/67	X	5					4"	W 11:45
9	91	6/16/67	184	mal	4	X								X						X							X	7/14/67	X	5					4"	W 12:00
9	91	6/16/67	185	mal	6		X							X						X								7/14/67	X	6					2"	E 12:20

20

Unit 9

Form D-1 Field Form

Observer: _____ WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1967

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	91	6/16/67	126	Mal	7		X													X							X	7/14/67	X	6					1" E	12:30
9	92	6-16-67	129	Pi	6		X													X							X	7/17/67	X	5					1' 10"	12.15
9	92	6-16-67	130	Pi	7	X														X							X	7/17/67	X	6					4' 10"	W 12.20
9	93	6-16-67	131	Mal	8		X													X							X	7/17/67	X	7					6' 2"	W 12.45
9	93	6-16-67	132	Mal	5		X													X							X	7/17/67	X	5					2' 6"	E 12.50
9	94	6-16-67	385	Mal.	8		X													X							X	7/17/67	X	8					3' 6"	E 12.55
9	95	6-16-67	386	Bw or C. Teal	9		X													X							X	7/17/67	X	9					2' 9"	W 1:30
9	97	6/16/67	137	Redhead	13		X													X							X	7/17/67			X				4" 6"	E 2:15
9	98	6-16-67	133	Ux	6	X														X							X	7/17/67	X	5					2' 4"	W 2.30
9	99	6-16-67	134	Pi	9		X													X							X	7/17/67	X	8					2' 5"	E 3.00
9	99	6.16.67	135	Ux	1	X			S											X							X	7/17/67				X			ON Tran	3.15
9	100	6-16-67	387	Mal.	1	X														X							X	7/17/67			X				2' 6"	W 2:30
9	100	6-16-67	388	Bw. or C. Teal	9		X													X								7/17/67	X	9					7' 7"	E 2:35
9	100	6-16-67	389	Redhead	11		X													X							X	7/17/67	X	7					8' 2"	W 2:40
9	101	6-16-67	390	Shoveler	10		X										X										X	7/17/67	X	10					1' 4"	W 3:10
9	101	6-16-67	391	Bw. or C. Teal	6	X														X							X	7/17/67	X	6					on line	3:15
9	102	6-16-67	188	Mal.	8		X													X								7/17/67	X	8					5' W	3:15
9	102	6-16-67	189	Pi.	4		X							X						X							X	7/17/67			X				on line	3:17
9	84	7/14/67	424	Gs	4	X			X											X								—							2'	W 2:20
	99	7/14/67	466	Bw or C. Teal	8															X								7/14/67	X	7					4' W	2:45
	91	7/14/67	467	Mal.	5															X								7/14/67	X	5					2' 7"	E 3:00
	95	7/17/67	470	Mal.	9															X								7/17/67	X	5					4' 2"	E 10:30
	100	7/17/67	471	Gadwall	8															X								7/17/67	X	8					8' 1"	W 11:20
	100	7/17/67	472	Ux	7	X														X								8/8/67	X	7					2' 4"	E 11:30

Form D-1 Field Form Unit No. 9

Observer: _____ WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1967

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	7/17/67	473	Bw. or C. Teal	8															X								7/17/67	X	8					4'E	12:50
9	106	7/17/67	474	Bw. or C. Teal	10															X								7/17/67	X	9					4' 7" W	12:55
9	106	7/17/67	475	Redhead	7	X														X								8/8/67			X				4' W	1:00

UNIT 10

Form D-1 DARNELL Field Form

Observer: _____ WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1967

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	5-22-67	208	Ma	0					X										X								—							2'11" W 3:00
10	110	5-24-67	115	Pi	8		X													X								7/18/67	X	8					3'8" W 10:55
10	110	"	116	Ma	13		X													X								7/18/67			X				4'8" E 11:05
	121		170	Ma	6		X							X				o	SS	Transect								6/19/67							7' E 10:40
10	120	6/19/67	392	Mal.	6		X										X										X	7/18/67			X				7'10" W 2:30
	116	6/19/67	393	Mal	8															X							X	—	X	8					1'6" E 3:30
10	114	6/22/67	196	Ma	4	X														X							X	7/18/67			X				7' E 1:00
10	110	6/22/67	197	Ma	5					X				X				o	SS	Transect								—							7' E 1:40
10	115	6/22/67	404	Ma	6		X													X							X	7/18/67				X			4'10" E 12:55
10	111	6/22/67	405	Ma	8		X							(X)			X											7/18/67	X	8					8' LN 2:10
10	120	7/18/67	426	BW. & C. Teal	11															X								7/18/67	X	11					1'6" W 10:25
10	109	7/18/67	476	BW. & C. Teal	10				X											X								—							4' E 1:00
10	108	7/18/67	477	Mal.	3					X				X														—							6" W 1:15
10	108	7/18/67	478	Mal.	4															X								—	X	4					1'7" W 1:20
10	108	7/18/67	479	U x	5					X										X								—							2'3" W 1:22
10	113	7/18/67	427	U x	8															X								—	X	8					3' W 12:45
10	112	7/18/67	428	Mal.	9															X								—	X	9					5' W 1:30

UNIT 11

Form D-1 Field Form

Observer: DARNELL WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1967

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	139	5/24/67	211	Mal	5		X													X		SX IN		CU	BA		TUB	6-23 7/18/67	X	5					6'2" E 1:50
11	127	6/22/67	406	Mal.	9		X													X								7/18/67				X			on Line 3:40
11	128	6/22/67	198	Gad.	8	X				Tr.	11	1	(abandoning)							X							X	7/18/67 8/8/67	X	6					6'4" E 2:45
11	129	6/23/67	228	GAD.	9		X												X	X								7/18/67	X	9					4'6" E 9:14 A.
11	132	6/23/67	407	mal.	7		X													X								7/18/67	X	7					6' E 9:00
11	133	6/23/67	408	mal.	2					X										X								7/18/67				X			3'11" E 9:50
11	133	6/23/67	409	mal.	3					X			Incub.	Killed						X								7/18/67				X			on Line 9:55
11	133	6/23/67	410	mal.	9		X													X								7/18/67				X			2'W 10:00
11	136	6/23/67	411	mal.	5	X														X								7/18/67	X	5					3'3" W 10:20
11	139	7/18/67	480	UX	5					X										X								—							4'2" E 2:20

Form D-1 Field Form Unit No. 14

Observer: CSU Group WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1967

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)	
14	36	5/23/67	600	Gad	4	✓														✓								6/20/67							4' E	10:AM E
14	36	"	601	Mallard	8		✓													✓								6/20/67							8' E	10:10 E
~~14~~	~~37~~	"																																		
14	34	"		pheasant	2	✓								✓														6/20/67				X			3' W	9:00
14	34	6/20/67	394	Mal	8		X													X						X		7/18/67	X	9					6'2" W	10:00
14	35	6/20/67	395	Pi	9		X							X														7/18/67				X			2'6" W	10:45

Form D-1 — Field Form — Unit No. 15

Observer: _____ — WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA — Year: 1967

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)	
~~15~~	~~37~~	~~6/23/67~~	~~602~~	~~Goose~~	~~6~~				✓					✓																					4' E	11:15
15	46	5/23/67	603	Mal.	8		✓													✓								6/20/67	X	8					4' W	2:50 F
~~15~~	~~50~~	~~5/23/67~~	~~631~~	~~Mal.~~	~~8~~		✓							✓						~~Jba~~								~~6/20/67~~							~~7' E~~	~~1:45 F~~
15	40	"	C21	Mal.	2	✓		✓						✓			STILL	INCUBATING										7/18/67	X	7					5' E	11:00 F
15	45	"	C22	Mal.	6		✓									✓												6/20/67				X			3' E	2:30 F
	~~38~~	"	C11	~~Unk~~	1				✓								✓			~~Jba~~								~~6/20/67~~							5' W	
	~~38~~	"	C12	~~Mal.~~	~~8~~		✓										✓			~~Jba~~								~~6/20/67~~							~~4' E~~	~~10:15 F~~
	~~39~~	"	C13	~~Mal~~	~~6~~		✓										✓			~~Jba~~								~~6/20/67~~							~~8' W~~	~~11:00 F~~
	~~49~~	"	C14	~~Mal.~~	~~7~~		✓							✓						~~Jba~~								~~6/20/67~~							~~8' W~~	~~2:45 F~~
	52	"	604	Pin(ail)	8		✓							✓						✓								6/20/67	X	6					7' W	3:05 F
	52	"	605	Mal.	9		✓							✓						✓								6/20/67				X			8' W	3:10 F
	39	6/20/67	396	Unk.	5					X				X														7/19/67				X			5'9"	E 11:30
15	~~44~~	6/20/67	137	Unx	2					X										X							X	6/20/67				X	X		4"	W 1:20
15	51	6/20/67	397	Mal.	5		X													X							X	7/17/67	X	4					5' W	2:30
15	48	6/20/67	190	Pi	8									X													X	—	X	8					3' W	2:00
15	49	6/20/67	191	Gadwall	11		X							X						X							X	7/18/67	X	10					3' E	2:30
15	46	6/20/67	224	Ma	8		X													X								7/18/67	X	8					6" W	1:39
15	47	6/20/67	225	Ux	6				X					X													X	DESERT								
15	52	6/20/67	192	Mal.	8		X							X													X	7/18/67	X	8					0n L.	3:20
~~15~~	~~59~~	~~6/20/67~~	~~226~~	~~Gad~~	~~11~~		X							X																					~~4' W~~	~~3:40~~
15	48	7/18/67	481	pheasant	6				X											X								—							7'10"	E 11:30
~~15~~	~~48~~	~~7/18/67~~	~~482~~	~~Ux~~	~~5~~									X														—							~~4'3"~~	~~W 11:40~~
15	53	7/18/67	482	Ux	9				X					X						X								—							8' W	3:10

John B Espinosa — Finished. — 5-2-3/67 — UNIT 17

Form D-1 — Field Form

Observer: Unit 17 — WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA — Year: May 16 1967

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	75	5/16/67	251	Ma	7		✓													✓								6/12	X	7						1'5" E of Trans 1055
17	76	5/16/67	252	un	un					✓										✓								—								2'8" W of Tran 1130
17	78	5/16/67	253	Ma	6	✓								6/13	STILL					✓		INCUBATING					X	7/10/67	X	4						3'4" W of Tran 1:15
17	78	5/16/67	254	Ma	9		✓													✓							✓	6/13/67	X	9						1'6" W of Tran 1:20
17	78	5/16/67	255	Ma	8		✓													✓							✓	6/13/67	X	8						5' E of Tran 1:25
17	78	5/16/67	256	un	2	✓								6/13	still					✓		Incubating					✓	6/13 7/10/67	X	5						2'5" E of Tran 1:30
17	79	5/16/67	257	Ma	10		✓													✓							✓	6/13/67	X	9	✓	1		✓		3' E of Tran 2:45
17	81	5/17/67	258	Pi	8		✓													✓								6/13/67	X	8						2'6" E Tran 8:50
17	81	5/17/67	259	Ma	10		✓													✓								6/13	X	8	2					6'6" W of Tran 9:00
17	81	5/17/67	260	Ma	1	✓														✓								6/13						8		5' E of Tran 9:00
17	81	5/17/67	261	Pi	8		✓													✓							✓	6/13			2			6		3' E of Tran 9:15
17	81	5/17/67	262	Ma	4		✓							(STILL | INC)					✓		(6/13)					✓	6/13 7/11/67	X	4						7'3" W of Tran 9:20
17	81	5/17/67	263	Pi	6		✓													✓								6/13	X	6						8' W of Tran 9:28
17	82	5/17/67	264	Ma	5		✓													✓								6/13				4		1		2' E of Tran 9:35
17	83	5/17/67	265	Ma	8		✓													✓								6/13/67	8	8						6'9" W of Tran 10:35
	COMPLETED	5/17/67																																	
17	76	6/12/67	213	Ma	8		X													X								7/10/67	X	8						6'3" W 3:17 P
17	76	6/12/67	214	BW/CT	9		X													X							X	8/8/67	X	9						1'2" W 3:17 P
17	75	6/12/67	215	Ma	8		X													X								7/10/67	X	8						2'6" W 3:36 P
	79	6/13/67	356	Ma	6		X													X							X	7/11/67	X	6						10" W 9:40 A.M.
	79	6/13/67	355	Unknown	6															X							X	—	X	5						2'5" W 9:50 A.M.
	80	6/13/67	357	Pintail	6		X								X													7/11/67				X				3'2" W 10:00 A.M.
17	80	6/13/67	171	Ma	6	X								(X)						X							X	8/8/67	X	6						4' W 10:45
17	84	6/13/67	117	Ruddy	9		X																	X			X	7/11/67					X			8' W 10:45

Form D-1 DARNELL CLARK DAVIS — Field Form

Observer: DAVIS — WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA — Year: 1967 — UNIT 18

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	102	5-18-67	201	Ma	8	✓														X							X	6/15/67	X	9					6E	11:00
18	101	5-18-67	153	Ma	4	✓														X							X	6/15/67						X	4E	11:40
18	98	5-18-67	154	Ma	7	X														X							X	6/15/67	X	6					5E	12,30
18	100	5-18-67	102	Ma	1				X											X							X	6/15/67			X				4'7"E	11:30
18	99	5-18-67	202	Ma	8		X													X							X	6/15	X	8					6W	11:42
18	99	5-18-67	203	Pi	10	X														X							X	6/15				X	X		4.6"	11:59 E
18	93	5-18-67	204	Ma	9		X													X							X	6-14	X	6					3'7"	W 2:24 P.M
18	93	5-18-67	205	Ma	10	X				St. II	Hatching									X								6-14 6/13/67	X	8					2'W	2:37
18	94	5-18	103	Ma	4	X														X								6-14	X	3					8'W	2:35
18	94	5-18-67	104	Ma	6		X							X														6-14 5-18 JUST HATCHED				X			4'2"W	2:45
18	91	5-18-67	105	Ma	HATCHING															X									✓	7					8'W	3:15
18	95	5-18-67	155	Sh	8		X													X							X	6/15	X	7	X				5'	W 2:12
18	95	5-18-67	156	Ma	8		X													X							X	6/15			8				6'	E 2:20
18	89	5-18-67	157	Ma	2	X														X							X								5'	E 3:40
18	86	6-14-67	218	Ma	7		X							(X)						X								7/13/67	X	7					5'W	2:00 P.M
18	88	6-14-67	219	Red	13		X													X							X	7/13/67	X	10					1'W	2:40 P.
18	89	6-14	120	Ma	6		X													X							X	7/13/67	X	5					7'10"E	2:55
18	90	6-14	121	Ma	6		X			Still Hatching										X							X	6-14 7/13/67	X	6					2'6"W	3:00
18	92	6-14	176	Ma	8		X													X								7/13/67	X	8					7'W	3:05
18	94	6-14	358	Red	9		X							X						X								7/13/67				X			6"E	3:15
18	96	6/15/67	177	Ma	7		X													X							X	7/13/67				X			4'W	9:05 A
18	96	6/15/67	178	Ma	7	X														X							X	8/8/67	X	7					4'W	9:15A
18	96	6/15/67	179	Ma	5	X				St. II	Incubating									X							X	7/13/67 8/8/67	X	5					5'W	9:25A

UNIT 16

Form D-1 Field Form

Observer: SHELDON WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1967

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
		COMPLETED 5/23/67																																	
16	59	6/20/67	226	GA.	11		X							X														7/18/67	X	11					4'7" W 3:40
16	64	6/21/67	193	MA	7		X													X								7/18/67	X	7					4' W 11:45
16	65	6/21/67	138	SH	10		X													X								7/18/67	X	10					1'8" W 11:50
	71	6/21/67	400	UNK	6				X					X																					4'10" E 1:30

Form D-1 DARNELL CLARK — Field Form — Unit No. 19

Observer: DAVIS — WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA — Year: 1967

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	5-15-67	101	Ma	4	X	X							X	X													OFF TRANSECT							3'6" West
19	16	5-15-67	151	Pheasant	7		X													X								6/12/67							
		COMPLETED 5-15-67																																	
19	16	6-12-67	351	mal.	7		X													X								7/10/67	X	7					6' East 11:45
19	12	6-12-67	217	Ma	5		X													X								7/10/67			X				3'6" E 10:40
19	11	7-10-67	451	pin.	5		X													X								8/8/67	X	5					5'10" W 9:40
19	13	7-10-67	415	unk	5															X								—	X	5					6' W 10:40
19	14	7-10-67	416	mal.	7															X								—	X	7					4' E 11:20

UNIT 20

Form D-1 DARNELL CLARK DAVIS — Field Form

Observer: DAVIS — WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA — Year: 1967

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)
20	23	5-16-67	152	Ma	2	X														X								6/12/67				X			on 11:10 a.m
"	COMPLETED	5-16-67																																	
20	23	6-12-67	101	Ma	8		X													X								7/10/67						X	9½" W 12:30 P
20	26	6-12-67	352	Pintail	6		X													X								7/10/67				X			6" East 1:40 P.M.
20	26	6-12-67	353	Gadwall	11		X											X		X								7/10/67	X	11					1½' W 1:50 P.M
20	35	6-12-67	354	pheasant	10		X													X								7/10/67			X				7½' W 3:00 P.M.
	28	7/10/67	417	Pheasant	9															X								7/10/67	X	8					6' E 1:30 P.M.

UNIT 21

Form D-1 Field Form

Observer: SHELDON+ WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1967

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)
21	53	23 May	113	Pheasant	9		X													X								6/21/67				X			7'6" W 1030
21	54	23 May	168	Mal.	5		X													X								—				X			1'0" E 1030
21	50	23 MAY	301	MA	9															X								6/21/67				X	X		
X	51	6-21-67	137	Mal.	3	X														X								6-21-67				X			6'3" E 9:50
21	50	6/21/67	X	Pheasant	6		X										X			Some eggs destroyed but incubating 6 eggs								7/19/67 8/8/67				X			3'3" E 10:40
21	43	6/21/67	398	mal.	4					X										X							X	7/20/67				X			1'W 8:35
21	43	6/21/67	399	mal.	7															X								7/20/67	X	7					4'W 8:45

UNIT 22

Form D-1 DARNELL CLARK DAVIS

Observer: _____

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Year: 1967

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~~	~~55~~	~~5-17-67~~	~~153~~	~~Ma~~	~~7~~		X												X																~~5' E 11:15~~
		COMPLETED		5-17-67																															
	71	6/13/67	172	Ma	6	X														X								7/11/67				X			7'W 12:45 P.M.
	67	7/11/67	455	pheasant	5									X															X	5					2'W 2:25
	67	7/11/67	456	pheasant	9					X										X															3'6" W 2:35

UNIT 23

Form D-1 Field Form

Observer: DARNELL CLARK DAVIS WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1967

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
WALKED 5/16/67																																			

Forms D3-D4

D3 – WPS Duck Brood Sample Data

D4 – WPS Duck Nesting Transects: Individual Unit Summaries

Form D-3 MICKELSIN

Observer: DARNELL

WATERFOWL PRODUCTION SURVEY -- DUCK BROOD SAMPLE DATA

Year: 1967

Coot

Date	Mallard Unit No.	Mallard Pond No.	Mallard No. duckl. Class IIc & III Br.	Pintail Unit No.	Pintail Pond No.	Pintail No. duckl. Class IIc & III Br.	Gadwall Unit No.	Gadwall Pond No.	Gadwall No. duckl. Class IIc & III Br.	Shoveller Unit No.	Shoveller Pond No.	Shoveller No. duckl. Class IIc & III Br.	B-W Teal Unit No.	B-W Teal Pond No.	B-W Teal No. duckl. Class IIc & III Br.	G-W Teal Unit No.	G-W Teal Pond No.	G-W Teal No. duckl. Class IIc & III Br.	RED HEAD Unit No.	RED HEAD Pond No.	RED HEAD No. duckl. Class IIc & III Br.	RUDDY Unit No.	RUDDY Pond No.	RUDDY No. duckl. Class IIc & III Br.
6/28/65	18		14																					
6/29/65	14		2	1		6																		
				15		7																		
7/10/67	21		9																					
7/10/67	19		6	~~6~~																				
	19		5	~~5~~																				
7/11/67	14		7																					
	21		6																					
7/12/67	~~17~~			17		5																		
7/13/67	15		5							15		7												
7/17/67	~~15~~			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																					
8/1/67	17		5										17		9									
8/1/67	17		11							17		5							17		4			
	17		9							14		8							17		9			
	14		6	14		9																17		5
	14		8																					
	19	Ave 6.842	190			7				6			3						2			1		

17 - 3
17 - 3
17 - 2
17 - 3

Form D-3 WATERFOWL PRODUCTION SURVEY -- DUCK BROOD SAMPLE DATA Year: 1967

Observer: DARNELL AND NICKELSON

Date	Mallard			Pintail			Gadwall			Shoveller			B-W Teal			G-W Teal			Redhead			Widgeon			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.	
8/2/67	18						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																7		4				3-4
8/7/67	19		7	19		4				14		4													
8/8/67	15		7	15		7	15		10	3		10	3		6				15		6	14		6	
	15		9	15		9	~~5~~		~~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 WATERFOWL PRODUCTION SURVEY -- DUCK BROOD SAMPLE DATA Year: _____

Observer: _____

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	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									
8/21/67				15		8	15		9				15		7									
							14		10															
8/22/67							18		6															

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 1 Recorder: DARNELL CLARK MICKELSON DAVIS Year: 1967

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	0		1										1							
Pintail																						
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown																						
Total	1	0	0		1																	
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 2 Recorder: PARNELL CLARK MICKELSON DAVIS Year: 1967

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	2	2	100	0	0	0	0								2							1
Pintail																						
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown																						
Total	2	2	100	0	0	0	0								2							1
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 3 Recorder: _____ Year: 1967

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 tvpe)													
		No. Hatched	% Hatched						Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	15	11		0	3	0	1		1						14							9
Pintail																						
Gadwall																						
Shoveller	1	1	100	0	0	0	0								1							
Teal B-W & Cinn.	7	6		0	1	0	0								7							4
G-W Teal																						
Ruddy																						
Redhead	1	0	0	0	1	0	0								1							
Unknown	3	0	0	0	1	0	2								3							
Total	27	18							1						26							
Coot	7	5		1	0	0	1			1					1	2	1		2			7

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 4 Recorder: _____ Year: 1967

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	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	1	0	0	0	0	0	1		1													1
Pintail																						
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown																						
Total	1	0	0	0	0	0	1		1													
Coot	1	1	100	0	0	0	0								1							1

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 5 Recorder: ESPINOSA Year: 1967

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 tvpe)													
		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.	1	1	100	0	0	0	0		1													
G-W Teal																						
Ruddy																						
Unknown																						
Total	1	1	100	0	0	0	0		1													
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 6 Recorder: _____ Year: 1967

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	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	6	3			3						1				5							
Pintail	2	1	50	0	1	0	0		1						1							
Gadwall	1	0	0	0	1	0	0		1													
Shoveller	1	1	100	0	0	0	0								1							
Teal B-W & Cinn.	1	0	0	0	1	0	0								1							
G-W Teal																						
Ruddy																						
Unknown	5	0	0	1	4	0	0		1						4							
Total	16	5	31																			
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 7 Recorder: _____ Year: 1967

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	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	17	13		1	1	1	1				1	1		1	13	1						1
Pintail	1	1	100	0	0	0	0								1							
Gadwall																						
Shoveller	1	1	100	0	0	0	0								1							
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Redhead	1	0	0	0	1	0	0								1							
Unknown	3	1	33.3	0	2	0	0								2							
Total	23	16	70																			
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 8 Recorder: _____ Year: 1967

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	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	8	5		1	1	0	1								4			2	2			2
Pintail	2	2	100	0	0	0	0								2							
Gadwall																						
Shoveller																						
Teal B-W & Cinn.	2	1	50		1										3							1
G-W Teal																						
Ruddy																						
Unknown	2	0	0	1	1	0	0								2							
Total	14	8	57																			
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 9 Recorder: _____ Year: 1967

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	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	19	14		2	3	0	0								19							13
Pintail ✓	9	6		2	1				1						8							4
Gadwall ✓	3	2	66.6	1	0	0	0								2							
Shoveller	1	1	100	0	0	0	0					1										1
Teal B-W & Cinn.	8	8	100	0	0	0	0								7	1						2
G-W Teal																						
Ruddy																						
Redhead	3	2		2	0	0	0								3							2
Unknown	3	2			1										3							2
Total	46	34	74	7	5	0	0															
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 10 Recorder: _____ Year: 1967

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	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	8	3		2	3	0	0		1			2			5							3
Pintail	1	1	100	0	0	0	0								1							
Gadwall																						
Shoveller																						
Teal B-W & Cinn.	2	1	50	1	0	0	0								2							
G-W Teal																						
Ruddy																						
Unknown	3	2	66.6	0	1	0	0								3							1
Total	14	7	50																			
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 11 Recorder: _____ Year: 1967

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	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	7	3		0	4	0	0								7							
Pintail																						
Gadwall	2	2													2							1
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	1	0	0	0	1	0	0								1							
Total	10	5	50																			
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 14 Recorder: _____ Year: 1967

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	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	1	1	100	0	0	0	0								1							1
Pintail	1	0	0	0	1	0	0		1													
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown																						
Total	2	1	50	0	1	0	0		1						1							
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 15 Recorder: _____ Year: 1967

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	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	7	5		0	1	1	0		3						4							2
Pintail	2	2	100	0	0	0	0		1						1							1
Gadwall	1	1	100	0	0	0	0								1							1
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	4	0	0	2	2	0	0		2						2							2
Total	14	8	57																			
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 16 Recorder: _____ Year: 1967

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	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	1	1	100	0	0	0	0								1							
Pintail																						
Gadwall	1	1	100	0	0	0	0		1													
Shoveller	1	1	100	0	0	0	0								1							
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	1	0	0	0	1	0	0		1													
Total	4	3	75	0	1	0	0		2						2							
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 17 Recorder: _____ Year: 1967

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	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	15	12		1	1	1									15							7
Pintail	4	2	50	1	1	0	0				1				3							1
Gadwall	1	1	100	0	0	0	0								1							1
Shoveller																						
Teal B-W & Cinn.	1	1	100	0	0	0	0								1							1
G-W Teal																						
Ruddy	1	0	0	0	1	0	0												1			1
Unknown	5	3		1	1	0	0								5							2
Total	27	19	70																			
Coot	2	0	0	1	1	0	0								2							

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 18 Recorder: _____ Year: 1967

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	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	29	20		2	4	1	2		5						24							21
Pintail	2	0	0	0	0	2	0								2							2
Gadwall	1	1	100	0	0	0	0								1							
Shoveller	1	1	100	0	0	0	0								1							1
Teal B-W & Cinn.	5	4	80	0	1	0	0								5							5
G-W Teal																						
Ruddy																						
Redhead	2	1	50	1	0	0	0								2							1
Unknown	6	3	50	1	0	2	0								2							3
Total	46	30	65																			
Coot	2	2	100	0	0	0	0		1									1				2

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 19 Recorder: _____ Year: 1967

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	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	3	2	66.6	0	1	0	0								3							
Pintail	1	1	100	0	0	0	0								1							
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	1	1	100	0	0	0	0								1							
Total	5	4	80																			
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 20 Recorder: _____ Year: 1967

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	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	2	0	0	0	1	0	1								2							
Pintail	1	0	0	0	1	0	0								1							
Gadwall	1	1	100	0	0	0	0								1							
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown																						
Total	4	1	75	0	2	0	1								4							
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 21 Recorder: _____ Year: 1967

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	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	5	1	20	0	4	0	0								5							1
Pintail																						
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown																						
Total	5	1	20	0	4	0	0								5							
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 22 Recorder: _____ Year: 1967

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	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	1	0	0	0	1	0	0								1							
Pintail																						
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown																						
Total	1	0	0	0	1	0	0								1							
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 23 Recorder: _____ Year: _____

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	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard																							
Pintail																							
Gadwall																							
Shoveller																							
Teal B-W & Cinn.																							
G-W Teal																							
Ruddy																							
Unknown																							
Total	0	0																					
Coot																							

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No._____ Recorder:_____ Year: 1967

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	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded
Mallard	148	96	64.9	9	32	4	7		11		2	3		1	126	1		2	2			62
Pintail	26	16	61.5	3	5	2			4		1				21							8
Gadwall	11	9	81.8	1	1				2						9							3
Shoveller	6	6	100									1			5							2
Teal B-W & Cinn.	27	22	81.5	1	4				1						25	1						13
G-W Teal																						
Ruddy	1	0	0		1														1			1
Redhead	7	3	28.6	3	1				1						6							3
Pheasant	11	4	36.3																			
Unknown	37	11	29.4	5	17	2	2		4						37							10
Total	263	163	61.97	22	61	8	9		23		3	4		1	225	2		2	3			102
Coot	12	8		2	1		1			2					4	2	1	1	2			10

*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: Refuge Summary by Years

Form D-5

COVE RACE

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----REFUGE ANNUAL SUMMARY*

Recorder: DARNELL

Year: 1967

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

(1) No. Nests on transect
(2) % Refuge Total
(3) % Hatch

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)	1	2	15	1	0	6	17	8	19	8	7	1	7	1	15	29	3	2	5	1	0	148
	(2)																						
	(3)	0	2	11	0	0	3	13	5	14	3	3	1	5	1	12	20	2	0	1	0	0	64.86
Pintail	(1)	0	0	0	0	0	2	1	2	9	1	0	1	2	0	4	2	1	1	0	0	0	26
	(2)																						
	(3)	0	0	0	0	0	1	1	2	6	1	0	0	2	0	2	0	1	0	0	0	0	61.54
Gadwall	(1)	0	0	0	0	0	1	0	0	3	0	2	0	1	1	1	1	0	1	0	0	0	11
	(2)																						
	(3)	0	0	0	0	0	0	0	0	2	0	2	0	1	1	1	1	0	1	0	0	0	81.82
Shov.	(1)	0	0	1	0	0	1	1	0	1	0	0	0	0	1	0	1	0	0	0	0	0	6
	(2)																						
	(3)	0	0	1	0	0	1	1	0	1	0	0	0	0	1	0	1	0	0	0	0	0	100
B-W & Cinn. Teal	(1)	0	0	7	0	1	1	0	2	8	2	0	0	0	0	1	5	0	0	0	0	0	27
	(2)																						
	(3)	0	0	6	0	1	0	0	1	8	1	0	0	0	0	1	4	0	0	0	0	0	81.48
G-W Teal	(1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	(2)																						
	(3)	0							0	3	0	0	0	0	0	0	2	0	0	0	0	0	42.85
Redhead	(1)	0	0	1	0	0	0	1	0	3	0	0	0	0	0	0	2	0	0	0	0	0	7
	(2)																						
	(3)	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	42.85
Ruddy	(1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	(2)																						
	(3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
____	(1)																						
	(2)																						
	(3)																						
____	(1)																						
	(2)																						
	(3)																						
Unknown	(1)	0	0	3	0	0	5	3	2	3	3	1	0	4	1	5	6	1	0	0	0	0	37
	(2)																						
	(3)	0	0	0	0	0	0	1	0	1	2	0	0	0	0	3	3	1	0	0	0	0	29.72
Total	(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	75	20	65	80	75	20	0	0	61.98
Coot	(1)	0	0	7	1	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	12
	(2)																						
	(3)	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	66.66

* Obtain data from Summary Form D-4

Form D-6

CALCULATIONS FOR DETERMINATION OF CORRECTED SPECIES COMPOSITION

Calendar Year 1967

(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 [illegible]. 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	148	65.5	131.0	14000	68.8	68.8	199.8	66.60	3159.50
Pintail	26	11.5	23.0	2000	9.8	9.8	32.8	10.90	517.10
Gadwall	11	4.9	9.8	1000	4.9	4.9	14.7	4.90	232.46
Shoveller	6	2.7	5.4	900	4.4	4.4	9.8	3.26	154.65
B.W. Tea	↓	↓	↓4.5	300	1.5	1.5	6.0	2.00	94.88
Cinn.Teal	27	11.9	23.8 14.8	1000	4.9	4.9	19.7	6.62	314.05
G.W. Teal			4.5	300	1.5	1.5	6.0	2.00	94.88
Redhead	7	3.1	6.2	600	3.0	3.0	9.2	3.06	145.17
Ruddy	1	0.4	.8	200	1.0	1.0	1.8	.60	28.46
Bald pate				50	.2	.2	.2	.06	2.85
(Total)	226								
Unknown	37								
TOTAL	263	100 %	200.0	20,350	100 %	100	300	100.0	4744
Coot									

Form D-6a

CALCULATIONS FOR DETERMINATION OF DUCKS PRODUCED BY SPECIES

Calendar Year 1967

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	3159.50	96	64.86	2049.25	51	316	6.19	12,685	63.01%
Pintail	517.10	16	61.54	318.22	42	239	5.69	1,811	9.00
Gadwall	232.46	9	81.81	190.18	24	181	7.54	1,434	7.12
Shoveller	154.65	6	(100.00) 72.12	111.53	22	125	5.68	634	3.15
B.W. Teal	94.88			77.31				534	2.65
Cinn. Teal	314.05	22	81.48	255.89	12	83	6.91	1,768	8.78
G.W. Teal	94.88			77.31				534	2.65
Redhead	145.17	3	(42.86) 72.12	104.70	5	31	6.20	649	3.22
Ruddy	28.46	0	(00.0) 72.12	20.53	2	7	3.50	72	.36
Baldpate	2.85	0	(00.0) 72.12	2.06	1	6	6.00	12	.06
Unknown		11	29.73				5.96		
TOTAL	4744.0	163		3,206.98				20,133	100%
		72.12 %							
Coot									

Form D-7

WATERFOWL PRODUCTION SURVEY

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

Recorder: _____

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	75	70	65	80	75	20	0	0	61.9
___	(1)																							
	(2)																							
	(3)																							
___	(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:_____

Year	Mallard	Pintail	Gadwall	Shoveller	B-W Teal	Cinn. Teal	G-W Teal	Redhead	Ruddy	Bald Pates	Ring-necked **	Production Total	Conf. Limits of Data in %	Coot
1964	9,214	1,475	686	323	102	102	708	249	16			12875	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	1396	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	

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

** Confidence limits for total estimated production
*** Confidence limits for total estimated nests

Form D-9

WATERFOWL PRODUCTION SURVEY

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

Recorder: _____ Year: 1967

(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)		11		2	3		1	126	1		2	2			62	
	(2)		7.43		1.35	2.03		.68	85.13	.68		1.35	1.35			41.89	
Pintail	(1)		4		1				21							8	
	(2)		15.38		3.85				80.78							30.77	
Gadwall	(1)		2						9							3	
	(2)		18.18						81.82							27.27	
Shoveller	(1)					1			5							2	
	(2)					16.66			83.34							33.33	
B-W & Cinn. Teal	(1)		1						25	1						13	
	(2)		3.70						92.60	3.70						48.14	
G.W. Teal	(1)																
	(2)																
Redhead	(1)		1						6							3	
	(2)		14.28						85.72							42.85	
Ruddy	(1)												1			1	
	(2)															100.	
Unknown	(1)		4						33							10	
	(2)		10.81						89.19							27.03	
_____	(1)																
	(2)																
Total	(1)		23		3	4		1	225	2		2	3			102	
	(2)		8.75		1.14	1.52		.38	85.55	.76		.76	1.14			38.78	
Coot	(1)			2					4	2	1	1	2			10	
	(2)			16.67					33.33	16.67	8.33	8.33	16.67			83.33	

* Obtain data from Summary Form D-4

Form D-10

WATERFOWL PRODUCTION STUDY

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

Recorder: _____

Year	(1) No. Duck Nests (2) % in Primary Type	Primary Cover Type															
		Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	
1964	(1)	3	37		4	3		3	202	6		2		2	4	96	261
	(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	212	5	1		1	5		107	259
	(2)		8.1	.8	.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	263
	(2)		8.75		1.14	1.52		.38	85.55	.76		.76	1.14			38.78	
____	(1)																
	(2)																
____	(1)																
	(2)																
____	(1)																
	(2)																
____	(1)																
	(2)																
____	(1)																
	(2)																

* Obtain data from Summary Form D-9

Raw Data/Memos

David R. Anderson, Research Biologist
Laurel, Maryland

July 31, 1967

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

Information On Nesting - Distance Of Nest From Center Line and Time Found

We are attaching Form D-1 showing the information you wanted from our nesting transects this year. It will be noted that all nests found are shown rather than those that hatched. As soon as you determine something from this information, we will be happy to hear from you.

You will note the fate of some nests are not shown and twenty of these are nests that were still active when we made our last survey, which was from July 10 to July 21. This is the latest nesting year that we have ever had, therefore the third transect was carried out this year.

Please let us hear from you.

Charles R. Bryant

CRB/mg

cc: Regional Refuge Biologist

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

August 9, 1967

Mr. Dick Hopper
State of Colorado
Department of Game, Fish and Parks
Research Center
P.O. Box 567
Fort Collins, Colorado 80521

Dear Dick:

We are sending you the information which you requested on our nesting transects for 1964 through 1967. You will note that the first information includes all duck nests found on transect, while the lower figures are for mallard only.

I hope this information will be of value to you.

	1964	1965	1966	1967
Total number nests on transect	261	212	259	263
Number hatched	143	117	199	163
Number deserted or destroyed	118	95	60	100
Total mallard nests on transect	143	140	147	148
Number hatched	83	82	117	96
Number deserted or destroyed	60	58	30	52

Charles R. Bryant

CRB/mg

cc: Mitchell Sheldon

18.18

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

August 18, 1967

Coot 3 active nest x 2.9 = 16 e. nests (Broodsize)

Mr. Dick Hopper
State of Colorado
Department of Game, Fish and Parks
Research Center
P.O. Box 567
Fort Collins, Colorado 80521

C. Goose

Dear Dick:

We are sending you additional information which was requested on our nesting transects for 1964 through 1967.

			1967	1964	1965	1966	1967	Brood size
1745	10,801	Mallard	56.3 %	145	140	96 147	96 148	6.19
290	1,650	Pintail	9.9	22	15	19	16 26	5.69
163	1,229	Gadwall	4.2	10	9	11	9 11	7.54
399	2,757	Teal	10.3	14	15	18	22 27	6.91
109	619	Shoveler	2.3	4	4	6	6 6	5.68
36	223	Redhead	2.3	5	9	2	2 7	6.20
		Ruddy	3.8	0	0	1	0 1	3.50
218	1,299	Unknown		63	20	55	12 37	5.96
	1,8578	Total		261	212	259	263	

Sincerely yours,

Charles R. Bryant

Waterfowl percentages used for May thru Aug 1967 NR forms

CRB/mg

cc: Mitchell Sheldon

SPECIES
%

11,651
1,399
1,293
2,911
656
263
25
18,578

BREAK DOWN OF DUCK NESTS (FROM SURVEYS) BY SPECIES 1964 TO 1967

	1964	1965	1966	1967
Mallard	143	140	147	148
Pintail	22	15	19	26
Gadwall	10	9	11	11
~~Blue~~ Teal	14	15	18	27
~~Blue-Cinnamon Teal~~				
Shoveler	4	4	6	6
Redhead	5	9	2	7
Ruddy	0	0	1	1
Unknown	63	20	55	37
TOTAL	261	212	259	263
~~Coot~~	2	6	4	12

FOR DICK HOPPER

JOHN A. LOVE, Governor

STATE OF COLORADO

DEPARTMENT OF GAME, FISH AND PARKS

6060 BROADWAY, DENVER 80216

Ph. 825-1192

Game Research Center
P. O. Box 567
Fort Collins, Colorado 80521

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Harry R. Woodward
Director

May 29, 1967

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

Dear Pete:

As you recall from last year's San Luis Valley Mallard Investigation Meeting in June, we decided to use your nesting transect data to determine the number of breeding pairs on the Refuge. I would appreciate receiving copies of your nesting transect forms for both the May and June coverages as soon as they are completed, so that I can prepare an estimate of the Refuge population to add to the remainder of the Valley estimate.

Al Geis should be contacting you soon regarding a meeting in Fort Collins the week of June 26. If you plan to attend this meeting, then you can bring the nesting transect data at that time. It shouldn't take long to crank out the information we want.

The remainder of the Valley appears to show a significant increase in mallard breeding pairs over the past three years. Both air and ground counts were up considerably. What do you think about that?

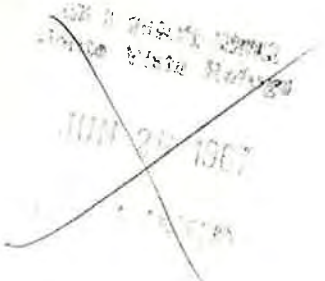
Hope to see you the week of June 26.

Sincerely yours,

Dick

Richard M. Hopper
Ass't. Wildlife Researcher
Migratory Bird Investigations

RMH:sa



Unit A only

Breeding pair count trends on Unit 6 of the Monte Vista National Wildlife Refuge during 1965, 1966, and 1967.

Species	Year		
	1965	1966	1967
Mallard	60	77	58
Pintail	22	30	20
Shoveler	15	20	14
Teal	10	32	20
Gadwall	15	15	13
Total	122	174	125

Mallard population levels on May 6, 1965, 1966, and 1967. Data is inclusive for all water areas of Unit 6 of the Monte Vista National Wildlife Refuge.

Year	Number
1965	131
1966	172
1967	162

The 1967 resident breeding population, not pairs, represents a 6% decrease from 1966 and a 12.3% increase over 1965 population levels.

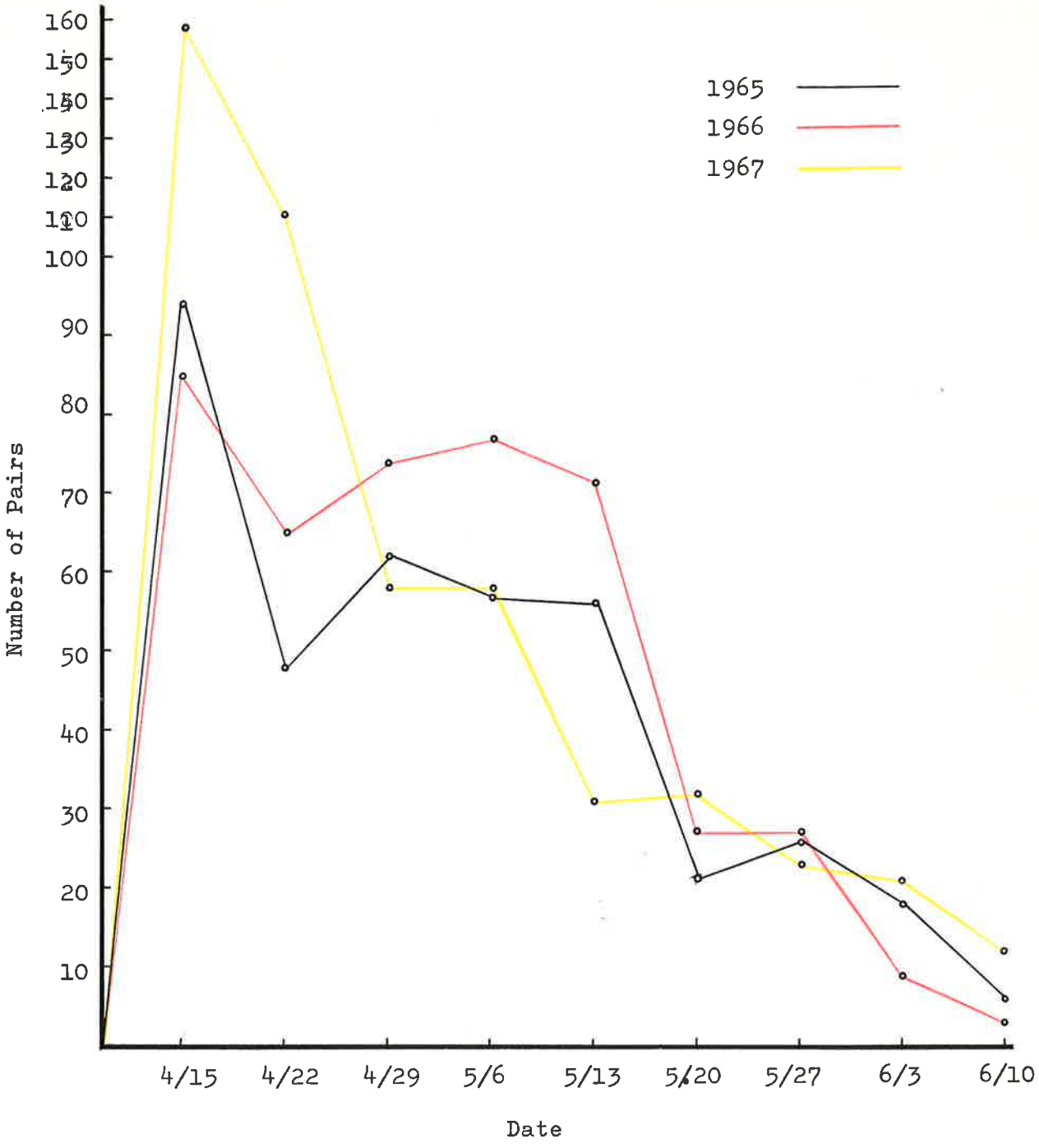
Total of nests found on each of three transect runs on Unit6 of the Monte Vista National Wildlife Refuge during 1965, 1966, and 1967. Data for 1967 includes only two complete runs.

Run Number	Year		
	1965	1966	1967
1. May 12-18	14	27	10
2. June 9-15	15	11	25
3. July 6-12	8	9	--
Total nests	37	47	(35)

Mallard nests found on each of three transect runs on Unit 6 of the Monte Vista National Wildlife Refuge during 1965, 1966, and 1967. Data for 1967 includes only two complete runs.

Run Number	Year		
	1965	1966	1967
1. May 12-18	9	19	6
2. June 9-15	5	2	11
3. July 6-12	2	0	--
Total nests	16	21	(17)

Since breeding pair count trends agree very well with the number of nests found on transect, it would be safe to assume that between 18 and 20 mallard nests will be found on transect in 1967.



Mallard population levels as determined by breeding pair counts made at weekly intervals, plot A only. The week of April 15 was the peak of the spring migration. April 29 to May 13 represented an index to the resident breeding population.

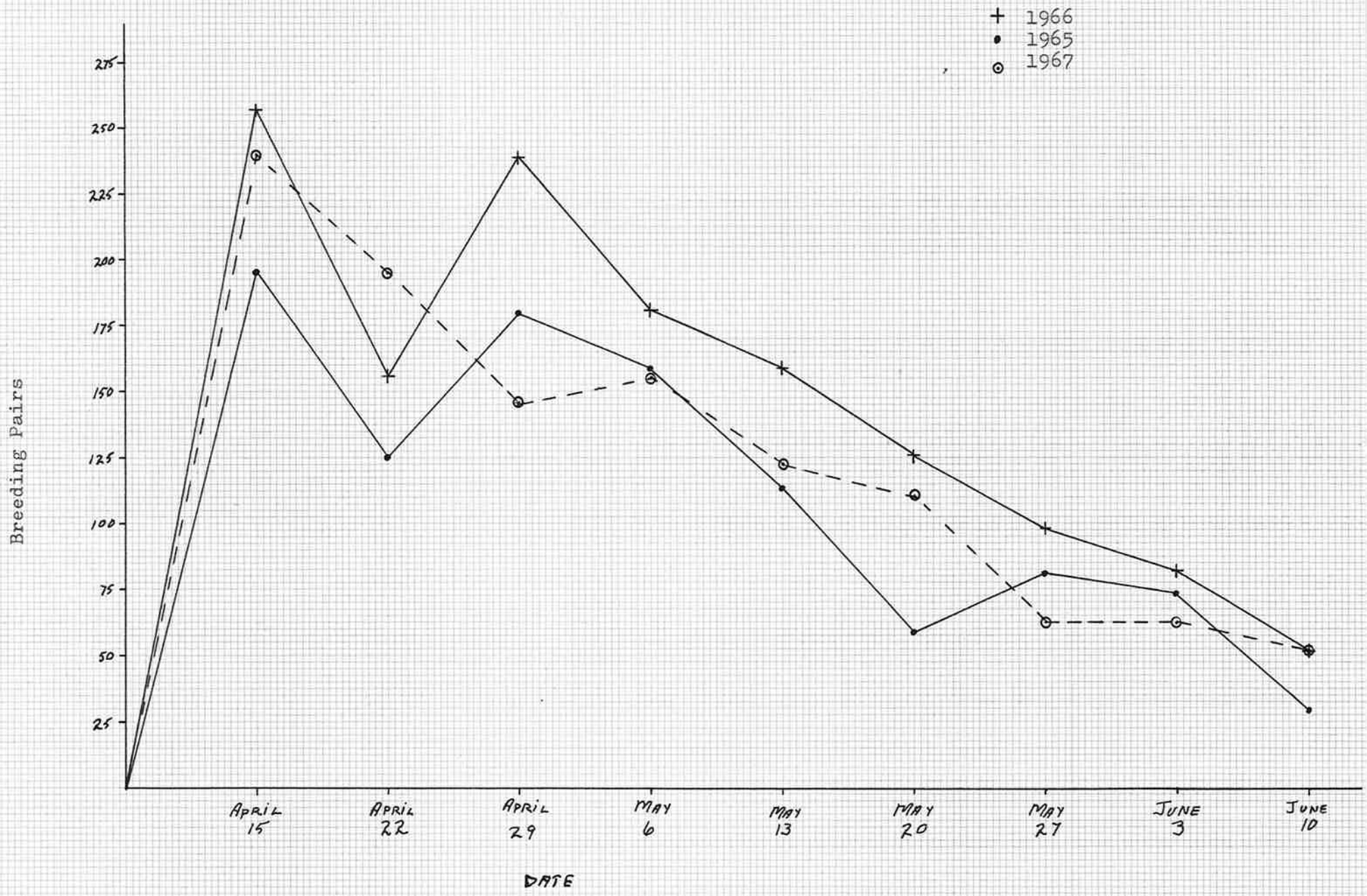
3-1750
Form NR-1
(Rev. March 1953)

WATERFOWL

REFUGE _____ MONTHS OF _____ TO _____, 19___

(1) Species	(2) Weeks of reporting period: 5/1-6 (1)	5/7-13 (2)	5/14-20 (3)	5/21-27 (4)	5/28-6/3 (5)	6	7	8	9	10
Swans:										
Whistling										
Trumpeter										
Geese:										
Canada	400	400	420	460	500					
Cackling										
Brant										
White-fronted										
Snow										
Blue										
Other										
Ducks:										
Mallard	14,000	14,000	14,200	14,200	13,500					
Black	—	—	—	—	—					
Gadwall	1,000	1,000	1,000	1,200	1,000					
Baldpate	50	50	50	50	30					
Pintail	2,000	2,000	2,100	2,100	1,800					
Green-winged teal	300	300	300	250	250					
Blue-winged teal	300	300	400	400	400					
Cinnamon teal	1,000	1,000	1,200	1,300	1,300					
Shoveler	900	900	900	900	800					
Wood	—	—	—	—	—					
Redhead	600	600	800	800	800					
Ring-necked	10	10	10	—	2					
Canvasback	—	—	—	—	—					
Scaup	20	20	10	5	4					
Goldeneye	—	—	—	—	—					
Bufflehead	10	10	—	—	—					
Ruddy	200	200	220	230	200					
Other Common Merganser	2	2	2	—	—					
Total	20,392	20,392	21,192	21,435	20,086					

Waterfowl migration, breeding pairs, for three successive years on the Monte Vista National Wildlife Refuge, Unit 6. ALL SPECIES



Maps

1967 NESTING SURVEY MONTE VISTA I REFUGE

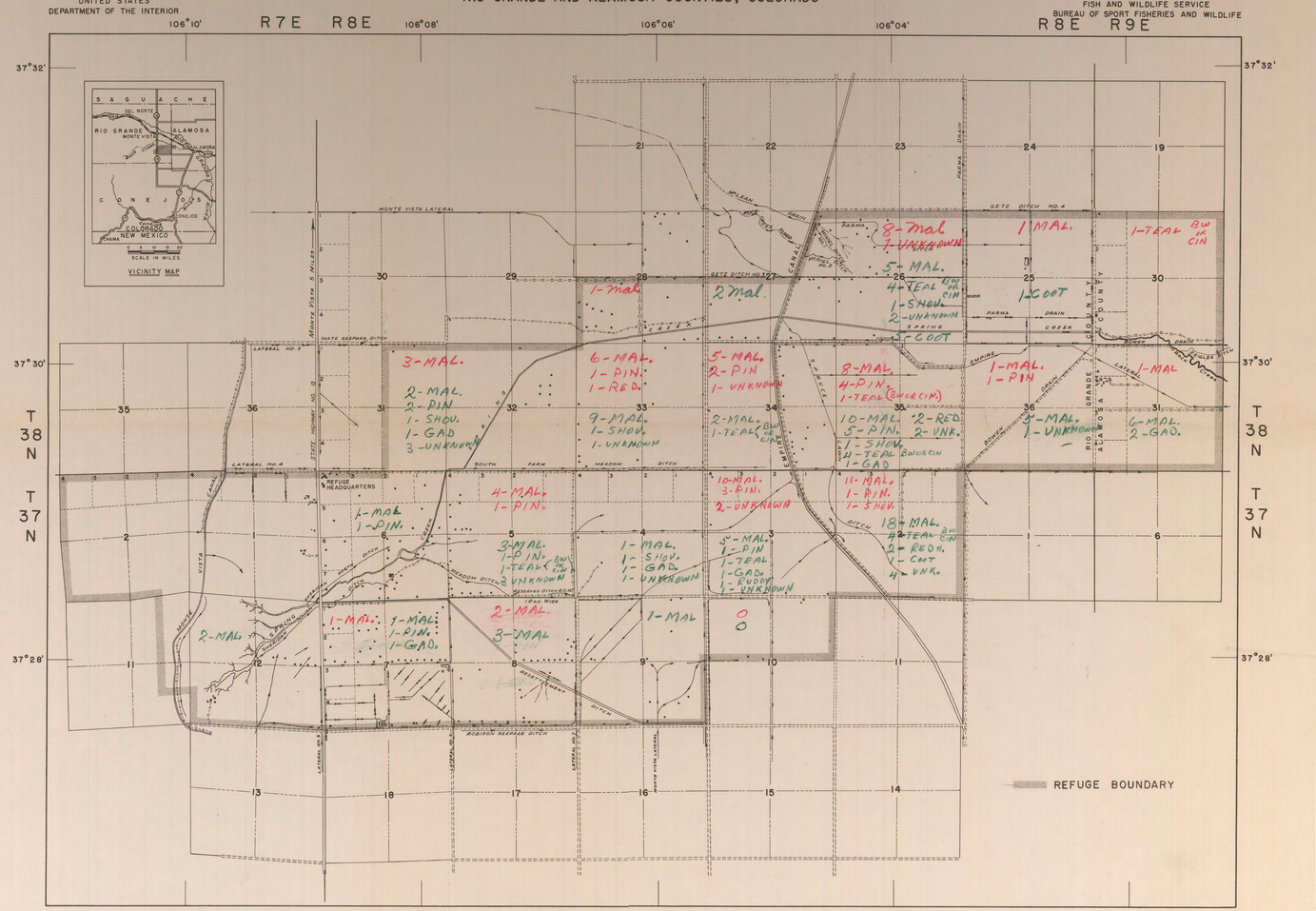
NESTS FOUND BY UNIT
MAY ~~25~~ 15-22 - MAL-4
JUNE 12-23 - MAL-4

MONTE VISTA NATIONAL WILDLIFE REFUGE

RIO GRANDE AND ALAMOSA COUNTIES, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE



COMPILED IN THE BRANCH OF ENGINEERING
FROM AERIAL PHOTOGRAPHS, B.L.M. SURVEYS,
AND SURVEYS BY U.S.F.&W.S., JUNE 1954.
REVISED JAN. 1959. JUNE 1959, OCT. 1961
REV. MARCH 1964
ALBUQUERQUE, NEW MEXICO JANUARY, 1959

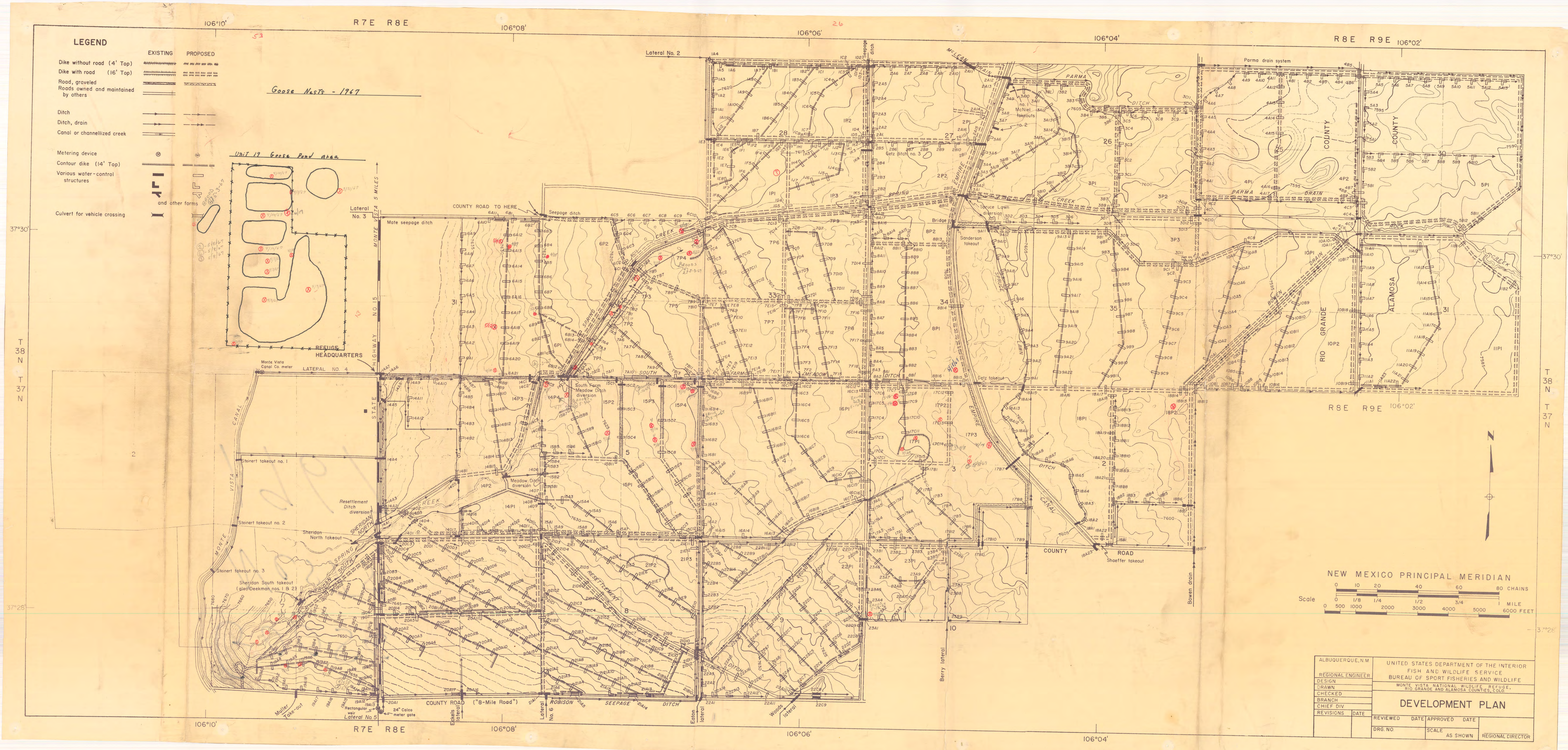
NEW MEXICO PRINCIPAL MERIDIAN

Scale 0 20 40 80 120 160 CHAINS
0 1/4 1/2 1 1 1/2 2 MILE

TOWNSHIP DIAGRAM

MEAN DECLINATION 1958

2R COLO. 450 404


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
and other forms
Culvert for vehicle crossing
Goose Nests - 1967
Unit 19 Goose Pond Area
REFUGE HEADQUARTERS
R7E R8E
R8E R9E
106°10'
106°08'
106°06'
106°04'
106°02'
37°30'
37°28'
T 38 N
T 37 N
Lateral No. 2
Lateral No. 3
Lateral No. 4
Lateral No. 5
COUNTY ROAD TO HERE
Seepage ditch
Mate seepage ditch
Parma drain system
PARMA DITCH
PARMA DRAIN
SPRING CREEK
McLEAN DRAIN
EMPIRE DITCH
SOUTH FARM MEADOW DITCH
RIO GRANDE COUNTY
ALAMOSA COUNTY
BOWEN DRAIN
MONTE VISTA CANAL
MONTE VISTA 5 MILES
STATE HIGHWAY NO. 15
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
Spruce Lawn diversion
Getz takeout
Shoeffer takeout
COUNTY ROAD
COUNTY ROAD ("8-Mile Road")
ROBISON SEEPAGE DITCH
Muller Take-out
Rectangular weir
24" Calco meter gate
Eckels lateral
Eaton lateral
Woods lateral
Berry lateral
Bowen drain
NEW MEXICO PRINCIPAL MERIDIAN
Scale
0 10 20 40 60 80 CHAINS
0 1/8 1/4 1/2 3/4 1 MILE
0 500 1000 2000 3000 4000 5000 6000 FEET
ALBUQUERQUE, N.M.
REGIONAL ENGINEER
DESIGN
DRAWN
CHECKED
BRANCH
CHIEF DIV
REVISIONS
DATE
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
REVIEWED DATE
APPROVED DATE
DRG. NO.
SCALE AS SHOWN
REGIONAL DIRECTOR