1969

Form D1

Waterfowl Production Surveys

Units 1-23

Form D-1 Field Form Unit No. ✓1

Observer: DARNELL GUSTIN GARONER WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1969

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
1	69	5/14/69	205	✓ MALLARD	9		X													X							X	6/17/69	X	8	1				* SEE BACK
1	57	5/14/69	206	✓ Ma	8	X														X	X						X	6/17/69	X	8					*
1	65	5/14	154	✓ Ma	7		X														X						X	6/17/69	X	8					*
1	63	5/14	155	✓ PINTAIL	8		X														X						X	6/17/69	X	7					*
1	59	5/14/69	156	✓ Mallard	4	X														X							X	6/17/69	X	6					*
1	71	5/14/69	103	✓ Ux	1				X							X				X							X	6/17/69				X			*
1	71	5/14/69	104	✓ Ma	2	✓											X			X							X	6/17/69				X	X		*
1	57	6/17/69	824	✓ Shoveler	9		X									X				X							X	6/9/69				2		7	*
1	59	6/17/69	120	✓ Tx	12															X					X			6/17/69	X	9	X				*
1	67	6/17/69	121	✓ Ux	?															X							X	6/17/69	X	5					*
1	69	6/17/69	122	✓ Ma	8	X														X	X						X	6/9/69	X	6		2			*
1	65	6/17/69	825	✓ Ma	8	Hatching nest found														X							X	6/17/69	X	8					

Form D-1 Field Form Unit No. ✓2

Observer: DARNELL WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1969

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	
2		5/14/69		no nests																															
2	173	6/17/69	833	Ux	7															X							X	6/17/69	X	7					* see Back

Form D-1 Field Form Unit No. 13

Observer: GUSTIN GARDNER WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1969

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	87	5/15/69	209	MALLARD	9		X													X							X	6/20/69				X			* SEE BACK
3	87	5/15/69	210	Ma	8		X													X							X	6/20/69	X	8					*
3	87	5/15	211	Ux	4				2	2										X	X						X	—							*
3	87	5/15	212	Tx	1	X		X												X							X	6/20/69				X			*
3	89	5/15	213	Ma	8		X													X	X						X	6/20/69	X	8					*
3	89	5/15	214	Ma	7		X										X			X							X	6/20/69	X	7					*
3	89	5/15	215	Ma	8		X										X			X							X	6/20/69	X	8					*
3	89	5/15	216	Pi	9	X														X	X						X	6/20/69	X	6					*
3	101	5/15	217	Ux	9					X										X	X						X	—							*
3	107	5/15/69	218	Ma	9		X													X							X	6/30/69	X	9					*
3	85	5/14/69	208	Ux	1					X										X							X	—				X			*
3	93	5/15/69	161	Sh	9		X														X						X	6/23/69					X		*
3	95	5/5	162	Mal	10		X													X							X	6/23/69	X	10					*
3	95	5/15/69	163	Mal	10		X													X							X	6/23/69	X	9	1				*
3	97	5/15	164	Mal	0					X										X							X	—							*
3	97	5/15	165	Mal	6		X													X							X	6/23/69	X	4	3				*
3	97	5/15	166	Ux	0					X										X							X	—							*
3	97	5/15	167	Mal	0					X										X							X	—							*
3	99	5/15	168	Mal	10		X													X							X	6/23/69	X	10					*
3	105	5/15	169	Mal	7	X														X							X	6/30/69				X			*
3	87	6/30/69	845	UX	8	HATCHED														X							X	6/30/69	X	6	2				
3	87	6/30/69	846	UX	7	HATCHED								X						X							X	6/30/69	X	7					
3	87	6/30/69	847	MALLARD	7		X													X							D	7/9	X	7					
3	107	6/23/69	848	MALLARD	4	X													X	X					X			7/8/69	X	6					

Form D-1 Field Form Unit No. 3

Observer: Wilson WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1969

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	
3	107	6/23/69	849	Ux	2	X														⊗							X	7/8/69				2			
3	105	6/23/69	850	Tx ✓	11		X	X												⊗							X	7/8/69	X	11					
3	101	6/23/69	851	Ma ✓	7		X													⊗			X				X	7/9/69				7			
3	97	6/23/69	852	Ux	8		HATCHED													⊗							D	6/23/69	X	7	1				

Form D-1 Field Form Unit No. ✓ 4

Observer: GARDNER GUSTIN DARNELL WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1969

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	
4	121	5/23/69	111	Ga	5	X													X							X		6/23/69	X	4	1				* SEE BACK
4	115	6/23/69	700	Lx	7	HATCHED														X							X	6/23/69	X	6	1				

Form D-1

Observer: Gustin Gardner
D. A. Ruell

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Field Form

Unit No. V5

Year: 1969

| | | |

Form D-1 Field Form 16' TRANSECT WIDTH ✓ UNIT 6

Observer: Robinson WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1969

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	35	5-14	1	Pintail ✓	5	X														X							X	6-10	X	5					Flushed 2yds 20"E 1:44 ✓
6	36	5-14	2	Mallard	8	X														X							X	6-10				X			Flushed 8yds 98"W 2:54 ✓
6	39	5-15	3 ✓	Mallard ✓	5	X								X		X											X	6-10				X			Not Flushed 59"W 9:12 ✓
6	40	5-15	4	Mallard	10		X							X		X											X	6-10	X	9					Flushed 10yds 4"W 11:21 ✓
6	28	6-9	12	Teal	1	X								X		X				X							X	7-6			✓				Fl. 3yds 14"W 9:15
6	29	6-9	13 ✓	Mallard ✓	8		X							X						X							X	"	✓	8					Fl. 7yds 97"E 10:07 ✓
6	30	6-9	14	Mallard	5	X								X						X							X	"	✓	5					Fl. 2yds 96"W 10:54 ✓
6	32	6-9	15	Redhead	7	X								X						X							X	"				✓			No Fl. 19"W 1:16 ✓
6	33	6-9	16	Teal ✓	9	X										X				X							X	"	✓	5					Fl. 5yds 68"E 1:49 ✓
6	33	6-9	17	Gadwall ✓	10		X									X				X							X	"	[redacted]			✓			Fl. 7yds 87"W 2:14 ✓
6	34	6-10	18	Mallard	9		X													X							X	"				✓			Fl. 7yds 13"E 9:30 ✓
6	35	6-10	19	Teal ✓	9		X										X			X							X	"				✓			Fl. 4yds 85"E 9:59 ✓
6	36	6-10	20 ✓	Shoveler	10		X									X				X							X	7-9	✓	3		[redacted]			Fl. 1yd 5"W 11:11 ✓
6	36	6-10	21	Pintail	2	X								X						X							X	7-7	[redacted]			✓			Fl. 12yds 54"E 11:32 ✓
6	36	6-10	22 ✓	Unknown	8	X														X							X	"	✓	8	[redacted]				No Fl. 43"W 11:38 ✓
6	37	6-10	23	Gadwall ✓	4	X														X		X					X	"	[redacted]		✓				Fl. 2yds 60"E 12:22 ✓
6	38	6-11	24	Pintail	5	X														X	X						X	7-9				✓			Fl. 1yd 37"E 8:59 ✓
6	42	6-11	25	Gadwall	9		X							X		X											X	"			✓				Fl. 2yds 7"E 11:05
6	46	6-12	26	Redhead	10		X													X	X						X	"	✓	7					Fl. 5yds 86"E 9:14 ✓
6	54	6-12	27	Mallard	8		X										X			X							X	"				✓			Fl. 4yds 11"E 10:31 ✓
6	29	7-6	35	Gadwall ✓	8		✓							X						X							X								Fl. 4yds 78"E 9:51 ✓
6	33	"	36	Mallard ✓	6		✓							X						X							X								Fl. 9yds 84"W 12:57 ✓
6	33	"	37	Unknown	9												X			X							X	7-6	✓	9					No. Fl. 62"W 1:20 ✓

Form D-1 WALKER — Field Form — Unit No. ✓ 7

Observer: DARNELL — WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA — Year: 1969

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	45	5/13/69	252	✓ GA ✓	9		X													X							X	6/13/69	X	9					* SEE BACK
7	45	5/13/69	253	✓ Ma ✓	7		X													X							X	6/13/69	X	7					*
7	45	5/13/69	254	✓ Ux	9		X													X							X	6/13	X	9					*
7	45	5/13/69	255	✓ TX ✓	10		X										X			(X)							X	6/13	X	10					*
7	45	5/13/69	256	✓ Ma ✓	8		X												X								D	6/13	X	8					*
7	53	5/13/69	101	✓ Ma ✓	11		X									(X)				X							D	6/16/69	X	11					*
~~7 ✓ 59~~	~~5/13/69~~	~~257~~	~~Ux~~		~~1~~	~~X~~													~~X~~	~~(X)~~							~~D~~							~~*~~
7	59	5/13/69	258	✓ Ma ✓	8		X												X	(X)							X	6/12/69	X	8					*
7	63	5/13/69	102	✓ Ma ✓	5					X									(X)						X			—							*
7	45	6/13/69	116	Ma ✓	9		X												X		(X)					X		7/8/69	✓	9					*
7	45	6/13/69	117	✓ Ma ✓	10 ~~7~~	X														(X)	X						X	✓ 7/16/69	✓	10					* still nesting
7	45	6/13	118	✓ Ux	4															(X)	X						X	6/13	X	3	1				*
7	71	6/12/69	813	✓ Ma ✓	9		X													X							D	7/8				3	6		
7	67	6/12/69	814	✓ Ma ✓	7		X													X							D	7/8	X	7					
7	63	6/12/69	815	✓ Ux	6															X							X	6/13/69	X	6					
7	57	6/12/69	816	✓ Sh ✓	8		X													X							X	7/8				1	7		
7	57	6/12/69	817	✓ Ux	7	X														X							X	7/8				5	2		
7	57	6/12/69	818	✓ Ga ✓	10		X												X	(X)							D	7/8					10		
7	55	6/16/69	819	✓ TX ✓	10	X														(X)							D	7/8	✓	10					
7	55	6/16/69	820	✓ Sh ✓	8	X														(X)							X	7/8/69			2	6			

Form D-1 Observer: DARNELL GUSTIN GARDNER

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. 8

Year: 1969

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	
8	77	5/14/69	207	PINTAIL	6	X								X													X	6/18/69	X	7					* SEE BACK
8	73	5/14/69	157	MALLARD	7		X													X							X	6/18/69	X	7					*
8	73	5/14	158	MALL	6		X													X							X	6/18/69	X	2	4				*
8	75	5/14	159	MALL	10		X													X							X	6/18/69			9	X			*
8	75	5/14	160	MALL	7		X							X						X							X	6/18/69	X	6	1				*
8	75	6/18/69	123	Ma	7	X														X							X	6/19/69	X	7					*
8	75	6/18/69	124	Ux	?		HATCHED													X							X	6/18/69	X	6					*
8	73	6/18/69	125	Ux	?		HATCHED													X	X						X	6/18/69	X	5					*
8	79	6/18/69	836	Ux	8					X	X									X	X						X	—							✓
8	79	6/18/69	837	Ux	7		HATCHED													X							X	6/18/69	X	7					
8	73	7/9/69	705	Ma	3															X							X	7/9/69			1	2			

Form D-1 WALKER Field Form Unit No. ✓ 9

Observer: SUTHERS WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1969

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	5/14/69	260	Ux	4					X										X							X	—							*SEE BACK OF FORM
9	87	5/14/69	313	Ma ✓	9					X										X							X	—							*
9	91	5/14	261	✓ Ma ✓	7		X													X							X	6/20/69	X	3	5				*
9	91	5/14	262	✓ Ma ✓	6	X														X							X	6/20/69				X			*
9	91	5/14		Ux	4							X								X							X	—							*
9	91	5/14	263	✓ Ma ✓	5	X														X							X	6/20/69	X	7					*
9	93	5/14	264	✓ Ma ✓	10		X													X							X	6/19/69	X	10					*
9	93	5/14	265	✓ Pi ✓	6		X							(X)						X							X	6/19/69			4	2			*
9	93	5/14/69	266	✓ Ma ✓	6		X													(X)							X	6/19/69	X	6					*
~~9~~	~~87~~	~~5/14~~	~~313a~~	~~Ma~~	~~?~~											~~X~~				~~(X)~~								~~5/14/69~~	~~X~~	~~1~~					~~*~~
9	87	5/14	314	✓ Ma ✓	8		X							(X)		X											X	6/20/69	X	6	2				*
9	89	5/14/69	315	✓ Tx ✓	9		X									(X)				X							X	6/20/69	X	8	1				*
9	89	5/14	316	✓ Ma ✓	6	X														X							X	7/8/	Y	3	1	2			*
9	95	5/14	317	✓ Ma ✓	7		X													X							X	6/19/69	X	6	1				*
9	95	5/14	318	✓ Ma ✓	7		X									X				(X)							X	6/19/69			8			X	*
9	95	5/14	319	✓ Ma ✓	8		X													X							X	6/19/69	X	6	1				*
9	95	5/14	320	✓ Ma ✓	5	X														X							X	6/19/69			1	1			*
9	97	5/14	321	✓ Ma ✓	11		X													X							X	6/19/69					X		*
9	99	5/15	267	✓ Ma ✓	11		X													X							X	6/19/69			6	5			*
9	101	5/15/69	268	✓ Sh ✓	8		X										X			(X)							X	6/19/69	X	7	1				*
9	101	5/15	269	✓ Ga ✓	9		X										X			(X)							X	6/19/69	X	9					*
9	103	5/15	322	✓ Ma ✓	3	X											X			(X)							X	6/19/69			3				*
9	107	5/15	323	✓ Pi ✓	8	X														X							X	6/19/69	X	3	5				*
9	107	5/14	324	✓ Ma ✓	7					X										X								—							*

Form D-1 WALKER

Observer: SUTHERS

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. ✓9

Year: 1969

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	107	5/14/69	325	✓ Ma ✓	6	X														X							X	6/19/69	X	6					* SEE BACK
9	95	6/19/69	128	✓ Ux	11				X											X		X					X	—							*
9	95	6/19/69	129	✓ Ux	9		X													X							✓	7/9	X	9					*
9	99	6/19	130	✓ Pi ✓	8		X													X		X					X	7/8/69				X			*
9	99	6/19	131	✓ Tx ✓	8		X													X							X	7/8/69	X	9					*
9	99	6/19	132	✓ Ux	6		HATCHED													X		X					X	6/19/69	X	6					*
9	89	6/20/69	134	✓ Ma ✓	8		X							X						X					X			8/8/69						X	
9	89	6/20/69	135	✓ Ux	5				4	1										X							X	—							
9	93	6/19/69	832	✓ Ux	9		HATCHED													X					X			6/19/69	X	5	4				✓
9	93	6/19/69	833	✓ Ux	8				X											X							X	—							
9	93	6/19/69	834	✓ Ux	7		HATCHED													X		X					X	6/19/69	X	7					
9	107	6/19/69	835	✓ Tx ✓	8	X														X							D	7/8/69	X	5	3				
9	91	6/20/69	836	✓ Ux	6	X									X					X							X	7/9/69	X	5	1				
9	91	6/20/69	837	✓ Ma ✓	6	X														X							X	7/9	X	5	1				
9	91	6/20/69	838	✓ Ma ✓	7	X														X							X	7/9	X	7					
9	91	6/20/69	839	✓ Ux	7		HATCHED													X							X	6/20/69	X	3	4				
9	91	6/20/69	840	✓ Tx ✓	9		HATCHED													X							X	6/20/69	X	8	1				
9	91	6/20/69	841	✓ Ux	8		HATCHED													X							X	6/20/69	X	4	4				
9	91	6/20/69	842	✓ Ma ✓	7		X							X		X											X	7/8/69	X	3		4			
9	87	6/20/69	843	✓ Ga ✓	8		X													X							X	7/9/69	X	7	1				
9	87	6/20/69	844	✓ Ux	7		HATCHED													X							X	6/20/69	X	7					

Form D-1 GUSTIN GARDNER

Observer: DARNEL

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. 110

Year: 1969

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	109	5/15/69	105	✓ Ma	9	X								X						X					X			6/19/69	X	9					* SEE BACK
10	109	5/15	106	✓ Ma	11		X													X			X				X	6/19/69	X	10	1				*
10	121	5/15/69	107	✓ Ma	3					X										X							X	—							*
10	119	5/15/69	108	✓ Ma	2	X														X							X	6/24/69	X	6					*
10	119	5/15	109	✓ Ma	9	X											X			X							X	6/24/69	X	9					*
10	111	5/16/69	110	✓ Mt	6									X													X	5/16/69	X	6					*
10	109	6/19/69	133	✓ Ux	6	HATCHED														X		X					D	6/19/69	X	6					*
10	115	6/24/69	853	✓ Ux	7	HATCHED														X							X	6/24/69	X	5	2				
10	121	6/24/69	854	✓ Redhead	7	HATCHED							X							X				X			X	6/24/69	X	7					✓

Form D-1 Field Form Unit No. 11

Observer: WALKER SUTHERS WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1969

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	
		5/16/69		No nests																															
11	135	6/24/69	701	Tx	10		X													⊗							X	7/16	X	10					Still incubating
11	139	6/24/69	702	Mallard	7		X													⊗							X	7/9/69	X	6	1			X	

Form D-1 SUTHERS BULLER

Observer: SHELDON

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. 114

Year: 1969

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
14	27	May 12 '69	351	PINTAIL	8		X												X	X							D	6/9/69	X	8					* SEE BACK
14	37	5/12/69	301	PINTAIL	1		X													X							✓	6/9/69			1				*
14	23	5/12/69	401	MALLARD	1					X				X													D	—							*
14	33	6/9/69	805	U.X	3					X										X							D	—				X			*
~~14~~	~~27~~	~~6/9~~																																	

Form D-1 Field Form Unit No. 15

Observer: SHELDON SUTHERS GUSTIN WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1969

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	43	5/12/69	151	PINTAIL ✓	3					X										X							X	—							* SEE BACK
15	33	5/12	—	COOT	10		X																X				X	6/10/69	X						*
15	39	5/12	352	MALLARD ✓	6		X													X							X	6/10/69	X	6					*
15	51	5/13	302	MA ✓	9		X							X													X	6/10/69	X	8	1				*
15	51	5/13/69	303	~~Ma~~ 1/x	1					X				X													X	~~6/10/69~~							*
15	51	5/13	304	Ma ✓	10		X									X				X							D	6/10/69				X			*
15	51	5/13	305	Ma ✓	7		X										X			X							D	6/10/69	X	7					*
15	49	5/13	152	Ma ✓	9		X													X							X	—			9				
15	39	6/10/69	806	Ux	5					X	X									X							X	—							✓
15	41	6/10	807	Ux	6	Hatch														X							X	6/10	X	6					
15	43	6/10	808	Ma ✓	4	X														X							D	7/7/69	X	4					
15	47	6/10	809	Ma ✓	5	X								X		X											D	7/7/69	X	4				1	

Form D-1 Observer: SHELDO SUTHERS GUSTIN

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. ✓16

Year: 1969

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
16	59	5/13/69	306	✓ Ma ✓	7	✓								X						X							D	6/11/69				X			* SEE BACK
16	65	5/13	307	✓ Ma ✓	10		X									X				X							~~D~~	6/11/69				X			*
16	61	5/13	153	✓ Vx	2				X											X							D	—							*
16	57	5/13	353	✓ Ma ✓	4	X								X		X											D	6/11/69	X	5					*
16	63	5/13	354	✓ Pl ✓	7		X							X					X								X	6/11/69			7				*
16	63	5/13	355	✓ Ma ✓	2	X				X				X						X							X	—							*
16	55	6/11/69	810	✓ Ga ✓	8		X							X													D	7/8/69	X	8					
16	65	6/11/69	811	✓ Ux	5					X						X				X							D	—							
16	65	6/11	812	✓ Ux	3					X										X							D	—							✓

Form D-1 SUTHERS

Observer: WALKER

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. 17

Year: 1969

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
17	77	5/14	308	TX	4	X										X				X							X	6/16/69	X	6					* SEE BACK
17	79	5/14	309	MAL	9		X													X							X	6/16/69	X	8	1				*
17	79	5/14	310	MAL	6	X														X							X	6/16/69	X	4	2				*
17	79	5/14	311	MAL	10		X													X							X	6/16/69	X	7	3				*
17	79	5/14/69	312	MAL	7		X													X							X	6/16/69	X	7					*
17	75	5/14/69	259	MAL	7		X													X							X	6/16/69	X	6	1				*
17	81	5/14	—	COOT	9		X																X				X	6/16/69	X	9					*
17	81	5/14	—	COOT	4	X																	X				X	6/16/69	X	4					*
17	73	6/16/69	821	LLX	4	X														X							X	7/9/69						4	✓
17	75	6/16/69	822	MA	8		X									X				X							X	7/9	X	8					X
17	79	6/16/69	119	TX	9	X														X							X	7/9			9				X

Form D-1 Field Form Unit No. 118

Observer: WALKER SUTHERS WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1969

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
18	97	5/15/69	326	✓ Mallard	8		X													X							X	6/18/69	X	8					*SEE BACK
18	97	5/15	327	✓ Ma ✓	6					(X)										X							X	6/18/69	X	6					*
18	95	5/15	328	✓ PINTAIL ✓	8		X													X							X	6/18/69	X	6	2*				*
18	89	5/15	329	✓ Pi ✓	4	X														X							X	6/18/69	X	8	1				
18	89	5/15	330	✓ Ma ✓	7		X												X	(X)							X	6/18/69	X	7					
18	105	5/15/69	270	✓ Pi ✓	7		X													X							X	6/18/69					7		
18	105	5/15/69	271	✓ Ma ✓	5	X											X			(X)							X	6/18/69	X	4	4				
18	105	5/15	—	COOT	1	✓														X							X	6/18/69	X	6					
18	105	5/15	272	✓ Pi ✓	9		X													X							X	6/18/69	X	9					✓
18	105	5/15	273	✓ Ma ✓	7		X							(X)													D	**6/18/69	X	7		1			**
18	103	5/15	274	✓ Ux ✓	1	✓														X							X	6/18/69			1				
18	103	5/15	275	✓ Ma ✓	9		X							(X)		✓	X										X	6/18/69	X	5	4				
18	101	5/15		Ux ✓	2					X										X							X	—							
18	101	5/15	276	✓ Pi ✓	8		X							X			(X)										X	6/18/69	X	8					
18	101	5/15	277	✓ Pi ✓	7		X							(X)					X								X	6/18/69	X	7					
18	93	5/15	278	✓ Sh ✓	9		X													X							X	6/18/69	X	8	1				
18	93	5/15	279	✓ Pi ✓	7		X							X						(X)							X	6/18/69	X	7					
18	91	5/15	280	✓ Tx ✓	9		X										X			(X)							D	**6/18	X	9					
18	91	5/15/69	281	✓ Ma ✓	4	X														X							D	**6/18		●	4				
18	103	5/15		Ux ✓	0					X										X							X	—							
18	89	6/18/69	126	✓ Ux ✓	?		HATCHED							X						(X)							X	6/18/69	X	5					
18	91	6/18/69	127	✓ Ux ✓	?		HATCHED													X							X	6/18/69	X	5	1				
18	95	6/18/69	828	✓ Ma ✓	11		X													(X)							X	7/7/69	X	9	1	1			
18	99	6/18/69	829	✓ Ux ✓	8		HATCHED													(X)							X	6/18/69	X	7	1				

Form D-1 Field Form Unit No. ✓ 18

Observer: _____ WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA Year: 1969

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
18	101	6/18/69	830	✓ TX ✓	10		X													X							X	7/7/69	X	9	1				
18	101	6/18/69	831	✓ UX ✓	6		HATCHED													X							X	6/18/69	X	6					

Form D-1 DARNELL

Field Form

Unit No. ✓ 19

Observer: WALKER

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Year: 1969

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
19	5	5/12/69	251	Ma ✓	5									(X)		✓											D	5/12/69	✓	5					251* SEE BACK
19	9	5/13/69	X	PHEASANT	10		✓														(✓)		✓				D	6/9/69	✓	10					
19	11	6/9/69	800	Mallard ✓	7		X													X							X	7/7/69				7			
19	13	6/9	801	PIN	7	X														X							X	7/7	✓	3				4	
19	13	6/9/69	802	GAD	9		X													X							X	7/7/69	✓	4		1		3	
19	15	6/9	803	MA ✓	4	X														X							X	7/7	1			3		1	
19	15	6/9	804	Ma ✓	8		X													X							D	~~X~~ 7/7	✓	4		3		1	

Form D-1 GUSTIN

Field Form

Unit No. 20

Observer: GARDNER

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Year: 1969

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		5/14/69		No nests																															
		6/9/69		No nests																															

Form D-1 SHELDON

Field Form

Unit No. ✓21

Observer: GUSTIN

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Year: 1969

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
21	53	5/13/69	356	Ma ✓	?		X			X						X											D	—				X			*
21	53	5/13	357	Ma ✓	2	X										X											D	6/11/69						X	* #
21	49	5/13	358	Ma ✓	1	X			X								X				X						X	LOST (6)						X	*
21	49	5/13	359	[illegible]	1	X			X											X	X						X	LOST (6)						X	*
21	49	5/13	360	Ma ✓	1	X			X											X							X	LOST (6)						X	*
21	47	5/13	204	Ux	0					X				X						X							X	—							*
21	43	6/10/69	112	Ux	6					X										X	X						X	6-10				6			*

Form D-1 BULLER

Observer: GARDNER

Field Form

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Unit No. 22

Year: 1969

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	65	5/13/69	402	✓ UX	1					X		X				X			X	X							D	—				X			* SEE BACK
22	57	5/13/69	403	✓ Ma ✓	9		X	X						X		X											D	6/11/69	✓	9					*
22	61	5/13/69	404	✓ GADWALL ✓	7 1 EIL		X	X								X			X								D	6/11/69	✓	6	1				*
22	67	5/13/69	201	✓ MALLARD ✓	6	X										X				X							X	6/11/69	X	6					*
22	67	5/13	202	✓ Ma ✓	0					X						X				X							X	—				X			*
22	57	5/13	203	✓ Ma ✓	4	X		X								X				X							D	6/11/69	X	5					*
22	59	6/11/69	113	✓ Ma ✓	6		X													X		X					X	7/7/69	X	6					*
22	65	6/11/69	114	✓ Ux	2					X										X							X	—							*
22	71	6/12/69	115	✓ Ux	1					X	X									X	X						X	—				X	X		*

Form D-1

Observer: DARNELL

WATERFOWL PRODUCTION SURVEY DUCK & COOT NESTING DATA

Field Form

Unit No. 23

Year: 1969

| | | |

Forms D3-D4

D3 – WPS Duck Brood Sample Data

D4 – WPS Duck Nesting Transects: Individual Unit Summaries

Form D-3
Observer: WILSON DARNELL

WATERFOWL PRODUCTION SURVEY -- DUCK BROOD SAMPLE DATA

Year: 1969

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.
8/4	14		12	14		9	15		6	15		12							15		4	15		4
8/4/69	14		9	15		6	15		7															
							15		8															
							15		12															
							15		8															
							15		5															
							15		5															
							15		8															
							15		5															
8/18/69				15		2	14		7															
8/18/69				14		9	14		8															
8/18/69							14		5															
8/20/69										19		5												
			21			26			84			17									4			4
			6.9			6.2			6.8			7.4			6.7						5.6			4.2

Form D-3
Observer: WILSON DARNELL

WATERFOWL PRODUCTION SURVEY -- DUCK BROOD SAMPLE DATA

Year: 1969

Date	Mallard			Pintail			Gadwall			Shoveller			B-W Teal			G-W Teal			RDHEAD			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.
7/4/69	3			3		6																		
7/4/69				3		6																		
7/5/69	3		6																					
7/7/69	15		7	15		6				18		8	4		9				10		5			
7/7/69	15		6																					
7/7/69	15		7							10		5												
7/9/69	15		7																					
7/10/69	15		6																					
7/14/69	14		4	15		5	15		5															
7/15/69	17		5																					
7/16/69				18		7				15		7							15		7	18		5
										15		7							15		5			
										15		8							10		5			
										17		9												
										17		7												
7/18/69	14		6							15		7							15		6			
																			15		7			
7/23/69							7		8	21		6												
7/25/69	20		5				15		5															
7/25/69	15		10																					
7/25/69	16		8							16		8												
7/25/69	15		5										18		6									
7/31/69													7		5									
			82			30			18			72			20						35			5

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 1 Recorder: Norton Year: 1969

Transect Coverage in % 50 (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	6	85.7		1	1						1			3	3						7
Pintail	1	1	100													1						1
Gadwall																						
Shoveller	1	0	0		1										1							1
Teal B-W & Cinn.	1	1	100												1					1		
G-W Teal																						
Ruddy																						
Unknown	2	1	50		1										2							2
Total	12	9	75		3	1						1			7	4				1		11
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 2 Recorder: Norton Year: 1969

Transect Coverage in % 5 (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	1	1	100												1							1
Total	1	1	100												1							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: Norton Year: 1969

Transect Coverage in % 50 (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	16	11	69		5										16					1		14
Pintail	1	1	100												1							1
Gadwall																						
Shoveller	1	0	0		1											1						1
Teal B-W & Cinn.	2	1	50		1										2							2
G-W Teal																						
Ruddy																						
Unknown	8	3	38		5				1						6	1						7
Total	28	16	57		12				1						25	2				1		25
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 4 Recorder: Norton Year: 1969

Transect Coverage in % 50 (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	1	1	100											1							1	
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	1	1	100												1							1
Total	2	2	100											1	1						1	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: Norton Year: 1969

Transect Coverage in % 50 (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	1	33		1		1		3													3
Pintail	1	1	100												1							1
Gadwall	3	0	0	1	2										3							3
Shoveller																						
Teal B-W & Cinn.	2	1	50		1										2							2
G-W Teal																						
Ruddy																						
Unknown	1	1	100												1							1
Total	10	4	40	1	4		1		3						7							10
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 7 Recorder: Norton Year: 1969

Transect Coverage in % 50 (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	9	7	78		2									2	6	1				1	1	3
Pintail																						
Gadwall	2	1	50				1								2							1
Shoveller	2	0	0		2										2							2
Teal B-W & Cinn.	2	2	100												2							1
G-W Teal																						
Ruddy																						
Unknown	4	3	75		1										4							4
Total	19	13	68		5		1							2	16	1				1	1	11
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 8 Recorder: Norton Year: 1969

Transect Coverage in % 50 (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	4	64		1	1			1						5							6
Pintail	1	1	100						1													1
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	4	3	75			1									4							4
Total	11	8	72		1	2			2						9							11
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 9 Recorder: Norton Year: 1969

Transect Coverage in % 50 (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	21	12	57	2	5	1	1		3						18					1		20
Pintail	3	1	33		2				1						2							3
Gadwall	2	2	100												2							2
Shoveller	1	1	100												1							1
Teal B-W & Cinn.	4	4	100								1				3							3
G-W Teal																						
Ruddy																						
Unknown	13	8			4		1								12		1			1		12
Total	44	28	64	2	11	1	2		4		1				38		1			1		41
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 10 Recorder: Norton Year: 1969

Transect Coverage in % 50 (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	4	80		1										5					1		4
Pintail																						
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Redhead	1	1	100												1							1
Unknown	3	3	100						1						2							2
Total	9	8	89		1				1						8					1		7
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 11 Recorder: Norton Year: 1969

Transect Coverage in % 50 (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												1							1
Pintail																						
Gadwall																						
Shoveller																						
Teal B-W & Cinn.	1	1	100												1							1
G-W Teal																						
Ruddy																						
Unknown																						
Total	2	2	100												2							2
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 14 Recorder: Norton Year: 1969

Transect Coverage in % 50 (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	2	1	50	1											2							1
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	1	0	0		1										1							
Total	4	1	25	1	2				1						3							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: Norton Year: 1969

Transect Coverage in % 50 (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	71	1	1				2						5							3
Pintail	1	0	0		1										1							1
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	3	1	33		1	1			1						2							3
Total	11	6	55	1	3	1			3						8							7
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. 16 Recorder: Norton Year: 1969

Transect Coverage in % 50 (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	4	1	25		3				2						2							2
Pintail	1	0	0	1										1								1
Gadwall	1	1	100						1													
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	3	0	0	1	2										3							
Total	9	2	22	2	5				3					1	5							3
Coot																						

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 17 Recorder: Norton Year: 1969

Transect Coverage in % 50 (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	6	100												6							6
Pintail																						
Gadwall																						
Shoveller																						
Teal B-W & Cinn.	2	1	50	1											2							2
G-W Teal																						
Ruddy																						
Unknown	1	0	0				1								1							1
Total	9	7	78	1			1								9							9
Coot	2	2	100															2				2

*Obtain data from Field Form D-1

Form D-4

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----INDIVIDUAL UNIT SUMMARY*

Unit No. 18 Recorder: Norton Year: 1969

Transect Coverage in % 50 (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	7	87	1					2						6							6
Pintail	7	6	86			1						1		1	5							7
Gadwall																						
Shoveller	1	1	100												1							1
Teal B-W & Cinn.	2	2	100												2							1
G-W Teal																						
Ruddy																						
Unknown	7		4	1	2										7							7
Total	25	16	64	2	2	1			2			1		1	21							22
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. 19 Recorder: Norton Year: 1969

Transect Coverage in % 50 (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	4	2	50		2				1						3							2
Pintail	1	1	100												1							1
Gadwall	1	1	100												1							1
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown																						
Total	6	4	66		2				1						5							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: Norton Year: 1969

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	4	0	0		1		3								3	1						2
Pintail																						
Gadwall																						
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	3	0	0		2		1							3								3
Total	7	0	0		3		4							6	1							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: Norton Year: 1969

Transect Coverage in % 50 (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	4	80		1				1						4							3
Pintail																						
Gadwall	1	1	100								1											
Shoveller																						
Teal B-W & Cinn.																						
G-W Teal																						
Ruddy																						
Unknown	3	0	0		3						1				2							2
Total	9	5	56		4				1		2				6							5
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: Refuge Summary by Years

Form D-5

WATERFOWL PRODUCTION SURVEY

DUCK NESTING TRANSECTS----REFUGE ANNUAL SUMMARY*

Recorder: Norton

Year: 1969

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

Species	(1) No. Nests on transect (2) % Total Refuge (3) % Hatch	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)	7		16			3	9	6	21	5	1	1	7	4	6	8	4		4	5		107
	(2)																						
71	(3)	6		11			1	7	4	12	4	1	–	5	1	6	7	2		0	4		66.36
Pintail	(1)	1		1			1		1	3			2	1	1		7	1					19
	(2)																						
13	(3)	1		1			1		1	1			1	–	–		6	1					68.42
Gadwall	(1)				1		3	2		2					1			1			1		11
	(2)																						
7	(3)				1		0	1		2					1			1			1		63.64
Shov.	(1)	1		1				2		1							1						6
	(2)																						
2	(3)	–		–				0		1							1						33.33
B-W &	(1)	1		2			2	2		4		1				2	2						16
Cinn.	(2)																						
Teal 13	(3)	1		1			1	2		4		1				1	2						81.25
G-W Teal	(1)																						
	(2)																						
	(3)																						
Redhead	(1)										1												1
	(2)																						
1	(3)										1												100.00
Ruddy	(1)																						
	(2)																						
	(3)																						
____	(1)																						
	(2)																						
	(3)																						
____	(1)																						
	(2)																						
	(3)																						
Unknown	(1)	2	1	8	1		1	4	4	13	3		1	3	3	1	7			3	3		58
	(2)																						
29	(3)	1	1	3	1		1	3	3	8	3		–	1	–	–	4			0	0		50.00
Total	(1)	12	1	28	2		10	19	11	44	9	2	4	11	9	9	25	6		7	9		218
% Hatched →	(2)	25%	100%	57%	100%		40%	68%	27%	64%	89%	100%	25	55	22	78	64	66		0	56		%
136	(3)	9	1	16	2		4	13	8	28	8	2	1	6	2	7	20	4		0	5		62.38
Coot	(1)													1		2	1						4
	(2)																						
4	(3)													1		2	1						100.00

* Obtain data from Summary Form D-4

Form D-6

CALCULATIONS FOR DETERMINATION OF CORRECTED SPECIES COMPOSITION

(1)	Species Composition of Transect Data			Species Composition of Breeding Population			(8)	Corrected Sp. Comp. of Nests	
Species	(2) No. Nests From Form D-5)	(3) Sp. Comp. Known Nests in %	(4) Weight (Col. 3 x [redacted]. 2	(5) No. Breeding Ducks	(6) Sp. Comp. in %	(7) Weight (Col. 6 x 1)	Weight (Col. 4 + Col. 7)	(9) Sp. Comp. in % ($\frac{\text{Col. 8}}{3}$)	(10) Sp.Comp. in Nos. (Col. 9 x total
Mallard	107	66.56	133.12	15,500	66.52	66.52	199.64	66.54	3,672
Pintail	19	11.56	23.12	1,500	6.44	6.44	29.56	9.85	544
Gadwall	11	7.50	15.00	2,000	8.59	8.59	23.59	7.87	434
Shoveller	6	3.75	7.50	800	3.43	3.43	10.93	3.65	201
B.W. Teal	1.78		11.112 2.22	250	1.07	1.07	3.29	1.10	61
Cinn.Teal	2.11 16	10.00	44.44% 8.89 20.00	1,000	4.29	4.29	13.18	4.39	242
G.W. Teal	2.11		44.44% 8.89	1,000	4.29	4.29	13.18	4.39	242
Redhead	1	.63	1.26	900	3.86	3.86	5.12	1.71	95
Ruddy				300	1.29	1.29	1.29	.43	24
Bufflehead				50	.22	.22	.22	.07	4
(Total)	160								
Unknown	58								
TOTAL	218	100%	200%	23,300	100%	100%	300%	100%	5,519
Coot	4	100%	200%	2,500	100%	100%	300%	100%	2,500

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			Average Class IIc & III Broods			Sp.Comp.of Ducks Produced to Flight Age	
		(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)	(14) No. Broods Recorded (From Form D-3)	(15) No. Ducklings Recorded (From Form D-3)	(16) Average Brood Size (Col.15 / Col.14)	(17) No. Ducks Produced (Cols.13 x 16)	(18) Sp. Comp. in %
Mallard	3,672	71	66.36	2437	15	103	6.9	16,815	66.58
Pintail	544	13	68.44	372	9	56	6.2	2,306	9.14
Gadwall	434	7	63.64	276	15	102	6.8	1,877	7.43
Shoveller	201	2	(33.33) 62.38	(67) 125	12	89	7.4	925	3.66
B.W. Teal	61	(1.44)	80.89	49			6.6	323	1.23
Cinn. Teal	242	13 (5.78)	(81.25) 81.29	197	3	20	(6.7) 6.6	1,300	5.15
G.W. Teal	242	(5.78)	81.29	197			6.6	1,300	5.15
Redhead	95	1	(100.00) 62.38	(95) 59	7	39	5.6	330	1.31
Ruddy	24		62.38	15	2	9	4.5	68	.30
Baldpate	4		62.38	2	0	0	6.6	13	.05
Unknown		29	50.00	—					
TOTAL	5519	136	62.38	3443	63	418	6.6	25,257	100%
Coot	101	4	100.00	101					

Form D-7

WATERFOWL PRODUCTION SURVEY

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

Recorder: Norton

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	62	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	312
	(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)		100	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	24	50	50	50	57	75	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)		12	1	28	2	0	10	19	11	44	9	2	4	11	9	9	25	6	0	7	9	0	218
	(2)																							
	(3)		75	100	57	100	0	40	68	73	64	89	100	25	55	32	78	64	66	0	0	56	0	62.38
	(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: Norton

1969

Year	Mallard	Pintail	Gadwall	Shoveller	B-W Teal	Cinn. Teal	G-W Teal	Redhead	Ruddy	Bald-Pate	Ring-neck * ** ~~Total~~	*** 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	1100	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	1434	634	534	1768	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	
1969	16,815	2306	1,877	925	323	1300	1300	330	68	13	–	25,257	19.7	

* 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: Norton Year: 1969

(1) No. Nests / (2) % in Primary Type		Primary Type															
		Sx	Sve	Crx	Dst	Gx	Mof	Wx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	D-1
Mallard 107	(1)		16			1		2	83	5				4	1	82	20
	(2)		15.0			.9		1.8	77.6	4.7				3.7	.9	76.6	18.8
Pintail 19	(1)		2			1		2	13	1						18	1
	(2)		10.5			5.3		10.5	68.4	5.3						94.7	5.3
Gadwall 11	(1)		1		1			1	8						1	7	3
	(2)		9.1		9.1			9.1	72.7						9.1	63.6	27.3
Shoveller 6	(1)								5	1						6	
	(2)								83.4	16.6						100	
B-W & Cinn. Teal 16	(1)				1				15					1		12	3
	(2)				6.2				93.8					6.2		75.0	18.8
G.W. Teal	(1)																
	(2)																
Redhead 1	(1)								1							1	
	(2)								100							100	
Ruddy	(1)																
	(2)																
Unknown 58	(1)		3		1				53		1			1		50	7
	(2)		5.2		1.7				91.4		1.7			1.7		86.2	12.1
	(1)																
	(2)																
Total 218	(1)		22		3	2		5	178	7	1			6	2	176	34
	(2)		10.1		1.4	.9		2.3	81.6	3.2	.5			2.7	.9	80.7	15.7
Coot 4	(1)								1			3					
	(2)								25			75					

* Obtain data from Summary Form D-4

Form D-10

WATERFOWL PRODUCTION STUDY

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

Recorder: Norton 1969

Year	(1) No. Duck Nests (2) % in Primary Type	Sx	Sve	Crx	Dst	Gx	Hof	Hx	Jba	Cx	Ex	Tla	Sva	Dike	Ditch	Flooded	Dry
1964	(1)	3	37		4	3		3	202	6		2		2	4	96	
	(2)	1.15	14.20		1.5	1.15		1.15	77.4	2.3		1.96		1.96	3.92	36.79	
1965	(1)																
	(2)																
1966	(1)		21	2	2	12		3	212	5	1		1	5		107	
	(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	225	2		2	3			102	
	(2)		8.7	1.5		1.5		.4	85.6	.8		.8	1.1			38.8	
1968	(1)	3	61	0	5	4	0	6	225	6	0	0	1	1	0	10	
	(2)	1.0	19.6	0	1.6	1.3	0	1.9	72.3	1.9	0	0	0.4	0.4	0	3.2	
1969	(1)		22		3	2		5	178	7	1			6	2	176	34
	(2)		10.1		1.4	.9		2.3	81.6	3.2	.5			2.7	.9	80.7	15.7
	(1)																
	(2)																
	(1)																
	(2)																
	(1)																
	(2)																
	(1)																
	(2)																

* Obtain data from Summary Form D-9