

UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE

SUMMARY DATA- ROOKERY INVENTORY

Form MSN-10

EXHIBIT 27

Refuge Mason Neck NWR

Date 6/8/91 Weather Clear, Low 80's, mod. humidity # Observers

Did wrong - Did trees w/ young

Observer	Total Nest Heights	± Height Range	Total No. Nests	# Adults	# young	# Nests with young	# Nests w/ adults only	# Nests w/ No activity	# Nest Trees	# Young Downy	# Young Feathered	# Young Fledged	# Dead Young	Total Nests Down
A team captain Charlie Chambers	^{10/430} 43'	30-50	26						10				1	1
A team Barbara Chambers	^{19/132} 72'	50-90	55	7	8	4			19				2	
A team Brian Mac Cleary	⁴¹⁰ 59	40-80	19	1	4	3			7	1	1			
A team Rachel MacCleary	¹¹⁵⁰ 68'	60-70	27						17				2	
B team captain Barbara Mitchell			82	10	12	6	3		24				1	
B team Jill Johnson			206						53				8	
B team David Mitchell			395		42	24			62				4	
B team Linda R. Bluestein			186	45	45	17	16		45				7	
B team Roger Miller			186	10	51	23	4		54				7	
Sub Total			1182	73	172	77	23		291				32	1

Notes:
1 dead Amer. Egret

1. % Active Nests 93%
2. Observer Correction Factor
3. Est. Total Viable Nests
4. Mean Clutch Size
5. Estimated Production
6. Estimated Breeding Pop.
7. % Nesting Success
8. % Natality

9. % Young- Downy
10. % Young- Feathered
11. % Young- Fledged
12. Mean Nest Height
13. Nest Height Range
14. High Clutch Size
15. Mean # Nests/Tree
16. High # Nests/Tree

continued → See next page

1991

UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE

Form MSW-10

EXHIBIT 27

SUMMARY DATA- BROODERY INVENTORY

Refuge _____

Date _____ Weather _____ # Observers _____

Observer	Total Nest Heights	± Height Range	Total No. Nests	# Adults	# young	# Nests with young	#Nests w/ adults only	# Nests w/ No activity	#Nest Trees	# Young Downy	# Young Feathered	# Young Fledged	# Dead Young	Total Nests Down
C. Schultze			41		23				9				3	
E. Fry			22		13	6			6					
D. Schultze			10						4					
D. Fry			3		4	2			2					
E. Fry + Schultze			0						0					
Total from P. 1			1182	73	172	77	23		291				32	1
Total			1258		212	85			312				35	

1. % Active Nests 93%
2. Observer Correction Factor _____
3. Est. Total Viable Nests 1170
4. Mean Clutch Size 1.5
5. Estimated Production 1755 young
6. Estimated Breeding Pop. _____
7. % Nesting Success _____
8. % Natality _____

9. % Young- Downy _____
10. % Young- Feathered _____
11. % Young- Fledged _____
12. Mean Nest Height _____
13. Nest Height Range _____
14. High Clutch Size _____
15. Mean # Nests/Tree _____
16. High # Nests/Tree _____

REFUGE Mason Neck

OBSERVER

DATE 6/8/91

TIME 9:45 AM

WEATHER

Cleav

TREE NEST NO.	NEST Species HEIGHT (ft)	No. ADULTS	No. EGGS	No. YG.	No. NESTS IN TREE	STAGE OF YOUNG			YG DEAD
						DOWNY	FEATHER	FLYING	
1	70' maple				2				
2	70' oak				3				
3	70' maple				1				
4	60' oak				1				
5	70 oak				1				
6	60 oak				1				
7	70 "				2				
8	70 birch				2				
9	70 tulip hickory				1				1
10	70 oak				3				
11	70 beech				2				
12	70 "				1				
13	70 tulip hickory				1				
14	60 oak beech				1				
15	70 tulip				3				1
16	70 tulip				1				1
17	70 maple				1				
					127				

A Section

UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
GREAT BLUE HERON ROOKERY INVENTORY

Form MSN-9

REFUGE Mason Neck

OBSERVER B Chambers

DATE 6/8/91

TIME 8:30 AM (b)
- 10:15 AM

WEATHER Clear/Sunny/Hot/Blue birds

NEST NO.	NEST Species HEIGHT (ft)	No. ADULTS	No. EGGS	No. YG.	No. NESTS IN TREE	STAGE OF YOUNG			YG DEAD
						DOWNY	FEATHER	FLYING	
1	oak 70'				2				
2	oak 70'				2				
3	Maple 80'				2				
4	oak 8'				3				
5	Tulip 80' Poplar 80'				5				1
6	oak 60'				1				
7	Beech 70'				3				
8	Oak 80'				4				
9	Oak 70'				1				1
10	? 70'				1				
11	Maple 80'				2				1
12	oak 80'	2		2	5 = 4				
13	oak 90'	2		2	10				
14	Beech 60'				2				
15	Beech 60'				2				
16	Beech 60'				2				
17	oak 80'	2		2	4				
18	Oak 70'	1			1 (lg)				
19	Tulip Poplar 80'			1	1				
20	Sweet Gum	nest?			Between A & B				
					K=56				

pooped!
80'

OBSERVER

TIME

WEATHER

TEAM
BUNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
GREAT BLUE HERON ROOKERY INVENTORY

Form MSN-9

1/10 Sect B

REFUGE Mason NeckOBSERVER David MitchellDATE 6/8/91

TIME _____

WEATHER _____

NEST NO.	NEST HEIGHT (ft)	Species	No. ADULTS	No. EGGS	No. YG.	No. NESTS IN TREE	STAGE OF YOUNG			YG DEAD
							DOWNY	FEATHER	FLYING	
22	50				2	11		✓		
23	55				3	11		✓		
24	50				3	11		✓		
25	50				2	11		✓		
26	55				2	11		✓		
27	55				2	11		✓		
28	60				2	11		✓		
29	65	Gum				1				
30	65	Oak				2				
31	65	Oak				2				
32	65	Locust				2				
33	65	Locust				2				
34	65	Oak			2	11		✓		
35	65				1	11		✓		
36	65				1	11		✓		
37	65				2	11		✓		
38	65				0	11				
39	65				0	11				
40	65				0	11				
41	65				0	11				
42					1	11		✓		

TEAM B

 UNITED STATES DEPARTMENT OF THE INTERIOR
 FISH AND WILDLIFE SERVICE
 GREAT BLUE HERON ROOKERY INVENTORY

Form MSN-9

REFUGE Mason NeckOBSERVER David MitchellDATE 6/8/91

TIME _____

WEATHER _____

popl

acer

lows

NEST NO.	Species	NEST HEIGHT (ft)	No. ADULTS	No. EGGS	No. YG.	No. NESTS IN TREE	STAGE OF YOUNG			YG DEAD
							DOWNY	FEATHER	FLYING	
1	popl	55	1			1				1
2	acer	65				1				
3	lows	60	1			1				
4	gum	50				1				
5	?	50				5				
6	"	50				5				
7	"	50				5				
8	"	50				5				
9	"	50	1			5				
10	oak	60				9				
11	"	65				9				
12	"	60				9				
13	"	60				9				
14	"	60				9				
15	"	65				9				1
16	"	65				9				1
17	"	65				9				
18	?	65				9				
19	"	45			2	10 9 11		✓		
20	"	45			1	10 11		✓		
21	"	50			2	10 11		✓		

UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
GREAT BLUE HERON ROOKERY INVENTORY

Form MSN-9

Section B

REFUGE Mason Neck

OBSERVER Bill Johnson

DATE 6/8/91

TIME _____

WEATHER _____

NEST NO.	NEST HEIGHT (ft)	Species	No. ADULTS	No. EGGS	No. YG.	No. NESTS IN TREE	STAGE OF YOUNG			YG DEAD
							DOWNY	FEATHER	FLYING	
1	60		—	3	—	1				
2	65		—		—	1				
3	70					3		✓		
4	65					2		✓		
5	70					5		✓		
Gum 6	50					1		✓		
	50					1		✓		
	65					1		✓		
	65									
	65 Oak					13		✓		1
	50 Oak					5		✓		1
	50 Gum					4		✓		1
	50 Gum					7		✓		
	60 Oak					8		✓		
	40 dead tree					1		✓		1
	50 Gum					2		✓		
	55 Oak					3		✓		
	60 Oak					2		✓		
	60 Oak					4		✓		
	55 Oak					4		✓		
	50 Maple					1		✓		

UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
GREAT BLUE HERON ROOKERY INVENTORY

Form MSN-9

Section B

REFUGE Mason Neck

OBSERVER JH?

DATE 6/8/91

TIME

WEATHER

NEST NO.	NEST Species HEIGHT (ft)	No. ADULTS	No. EGGS	No. YG.	No. NESTS IN TREE	STAGE OF YOUNG			YG DEAD
						DOWNY	FEATHER	FLYING	
	55 oak				2		✓		
	60 Gum				4		✓		
	70 oak				4		✓		1
	45				1		✓		
	55				4	✓	⊗		
	55 oak				2		✓		1
	65 Gum				5		✓		1
	60 oak				6		✓		
	60 oak				4		✓		
	65 oak				8		✓		
	70 oak				1		✓		
	60 maple				1	✓	⊗		
	65 Gum				2		✓		
	60 Gum				1		✓		
	60 Gum				1		✓		
	55 Gum				1	✓	⊗		
	60 maple				1	✓	⊗		
	65 beech				3		✓		
	65 oak				17		✓		
	60 oak				2		✓		
	65 oak				3		✓		
	60 oak				10		✓		
	60 oak				1		✓		

		Seabird Young
65 Gum	3 nests	
65 Oak	3	✓
60 Gum	2	✓
55 Oak	1	✓
40 Oak	1	✓
50 Oak	2	✓
50 Oak	12	✓
60 Oak	10	✓
65 Oak	1	✓
65 Oak	11	✓
60 Maple	3	✓
70 beech	2	
50 maple	4	✓
	6	
	7	

✓ downy

UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
GREAT BLUE HERON ROOKERY INVENTORY

Form MSN-9

REFUGE Mason Neck

OBSERVER B. Pittell

DATE 6/8/91

TIME 10:10

WEATHER _____

510

NEST NO.	NEST HEIGHT (ft)	Species	No. ADULTS	No. EGGS	No. YG.	No. NESTS IN TREE	STAGE OF YOUNG			YG DEAD
							DOWNY	FEATHER	FLYING	
9	50	chopped oak	1		2, 1	10				2
10	65-70	maple				1				
11	11	maple				1				
12	70	poplar				3				1
13	60	oak	1			1				
14	60	oak			1	1		1		
15	60	poplar				1				
16	50	chopped	1		2	10		2		
17	50	oak			2	8		2		
18	50	oak				2				
19		diving oak				3				
20	70	oak	1		1	15		1		
21	70	oak	1			1				
22	60	oak	2		2	12		2		
23	7	oak				9				
22	70	poplar				2				
23	70	poplar	1			2				
24	70	oak				2				
25		oak			2	3		2		

It was on near

REFUGE Mason Neck

OBSERVER *B. Mitchell*

DATE 6/8/91

TIME 9:17 a

WEATHER

[illegible]

UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
GREAT BLUE HERON ROOKERY INVENTORY

Form MSN-9

REFUGE Mason Neck

OBSERVER Linda Bluestein

DATE 6/8/91

TIME _____

WEATHER _____

NEST NO.	NEST Species HEIGHT (ft)	No. ADULTS	No. EGGS	No. YG.	No. NESTS IN TREE	STAGE OF YOUNG			YG DEAD
						DOWNY	FEATHER	FLYING	
60	60' oak	1		1	6				1
	60' oak	1			3				1
	60' oak	1			2				
	70' oak	1			7		4		2 = 1 ?
	70' oak	1			2				
	60' oak	1			1				
	70' oak	1			1				
	60' oak				10		2		1
	60' oak	2			7		3		
	50' oak	1			4				
	50' oak	1			7		1		
	50' oak	1			3		2		
	50' oak	4			13	3	5		Nice ?
	60' oak	1			1		1		
	60' oak	1			1		1		
	60' oak	1			1				
	60' oak	1			1				
	60' oak	1			1				
	60' oak	1			4		2		
	60' oak	1			4		2		
	60' oak	1			1				
	60' oak				6				

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UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
GREAT BLUE HERON ROOKERY INVENTORY

Form MSN-9

REFUGE Mason Neck

OBSERVER LINDA P. Bluestein

DATE 6/8/91

TIME 8:40 a.m.

WEATHER Clear / Sunny

NEST NO.	NEST HEIGHT (ft)	Species	No. ADULTS	No. EGGS	No. YG.	No. NESTS IN TREE	STAGE OF YOUNG			YG DEAD
							DOWNY	FEATHER	FLYING	
1										✓
1	50' Oak		1			1				
21	50' Gum		2		4	3	4			
3	50' Oak		4			14				
4	50' Oak		2		2	9		2		
5	50' Oak					8				
	60' Oak		2			2				
	60' Oak		1							
	50' Oak		1		3	7				
	60' Oak		4		4	9				1
	50' Oak		4							1
	60' Oak		1			5				
	60' Oak					7				
	60' Beach					3				
	60' Oak		1			4				
	60' Oak					2				
	60' Oak					5				
	60' Oak		2			4		4		
	60' Oak					3				
	60' Gum					3		3		
	70' Oak					2				

SECTION B

 UNITED STATES DEPARTMENT OF THE INTERIOR
 FISH AND WILDLIFE SERVICE
 GREAT BLUE HERON ROOKERY INVENTORY

Form MSN-9

1/3

REFUGE Mason NeckOBSERVER ROGER S. MILLERDATE 6/8/91TIME 0930 →WEATHER CLOUDY - LOW HUMID -

NEST NO.	NEST HEIGHT (ft)	Species	No. ADULTS	No. EGGS	No. YG.	No. NESTS IN TREE	STAGE OF YOUNG			YG DEAD
							DOWNY	FEATHER	FLYING	
1	70-80	Gum 90't				3				
2	80	oak 100't				1				
3	70±	Gum 80't				2				
4	70±	Gum 80't	2			2				
5		Gum 90't				5				
6	75±	Gum 80't				1				1
7		Gum 80't				4 (6) 10				
8	70+up	OAK 90't	3		3	13		2	1	
9	50+up	MAPLE 60't				3				1 IN TRUSS
10	50	MAPLE 50±	1			1				
11	65+up	OAK 80't	1		#=2	6		(2) YOUNG NOT FEATHER		
12	70+up	OAK 90't			9	9		9		
13	55	Gum 60				1				
14	45	SASSAPARILLA 45't				1				
15	45+up	OAK 60			1	5		1		
16	75+up	OAK 90			2	9		1	1	
17	75±	Gum 80	1? ←		1?	1				
18	75+up	Gum 80't				2				1
19	65+up	TULIP POP. 80				3				
20	50	MAPLE 60			1	3		1		
21		Gum 60			1	1				

UNITED STATES DEPARTMENT OF THE INTERIOR
 FISH AND WILDLIFE SERVICE
 GREAT BLUE HERON ROOKERY INVENTORY

SECTION 10

B

10/10

2/3

REFUGE Mason Neck

OBSERVER

ROGER MILLER

DATE 6/8/91

TIME 9:00 → ON

WEATHER CLEAR WARM LOW HUMID

NEST NO.	NEST SPECIES HEIGHT (ft)	No. ADULTS	No. EGGS	No. YG.	No. NESTS IN TREE TOTAL (76)	STAGE OF YOUNG			YG DEAD
						DOWNY	FEATHER	FLYING	
22	65± Gum				1 77				
23	65 Gum 80±	1			5 82				
24	50 Gum 60+				2 84				
25	55 Gum TULIP 60+	1			2 86				
26	55 Gum 60± 60				2 88				
27	60 MAPLE 65			1	2 90		1		
28	55 OAK 60+				1 91				
29	60 TULIP 70				3 94				
30	70+ TULIP 90				6 100				
31	65 Gum 70			1	1 101		1		
32	65 Gum 70				1 102				
33	75 Gum 80			1	1 103		1		
34	50+ OAK 60+	1		1	7 110		1		
35	45+ OAK 60+				10 120				
36	45+ OAK 50			4	2 122		4		
37	60+ TULIP 70+				3 125				
38	45+ OAK 50			1	4 129		1		
39	45+ OAK 50				2 131				
40	40+ OAK 60+			3	18 149		2	1	
41	45 OAK 50			4	3 152		4		
42		SEE REVERSIS							

 AM-54 RST
 FUS D 400
 ADULT?

42	45+ OAK 60+	4	9	4	Dead
43	45+ OAK 60	2	2	2	3/3
44	45 OAK 50		1		
45	45+ OAK 60+	1	6	1	
46	45+ OAK 50	1	1	1	
47	40+ OAK 50		2		
48	60+ OAK 70		2		
49	65 Tulip 70		1	1	
50	65 Gum 70	2	1	2	
51	65 OAK 70	2	1	2	
52	75+ Gum 90	3	4	3	
53	70+ Maple 70		1		
54	Tulip 70+		3		1 Dead

REFUGE Mason Neck

OBSERVER

DATE 6/8/91

TIME

WEATHER

[illegible]

OBSERVER

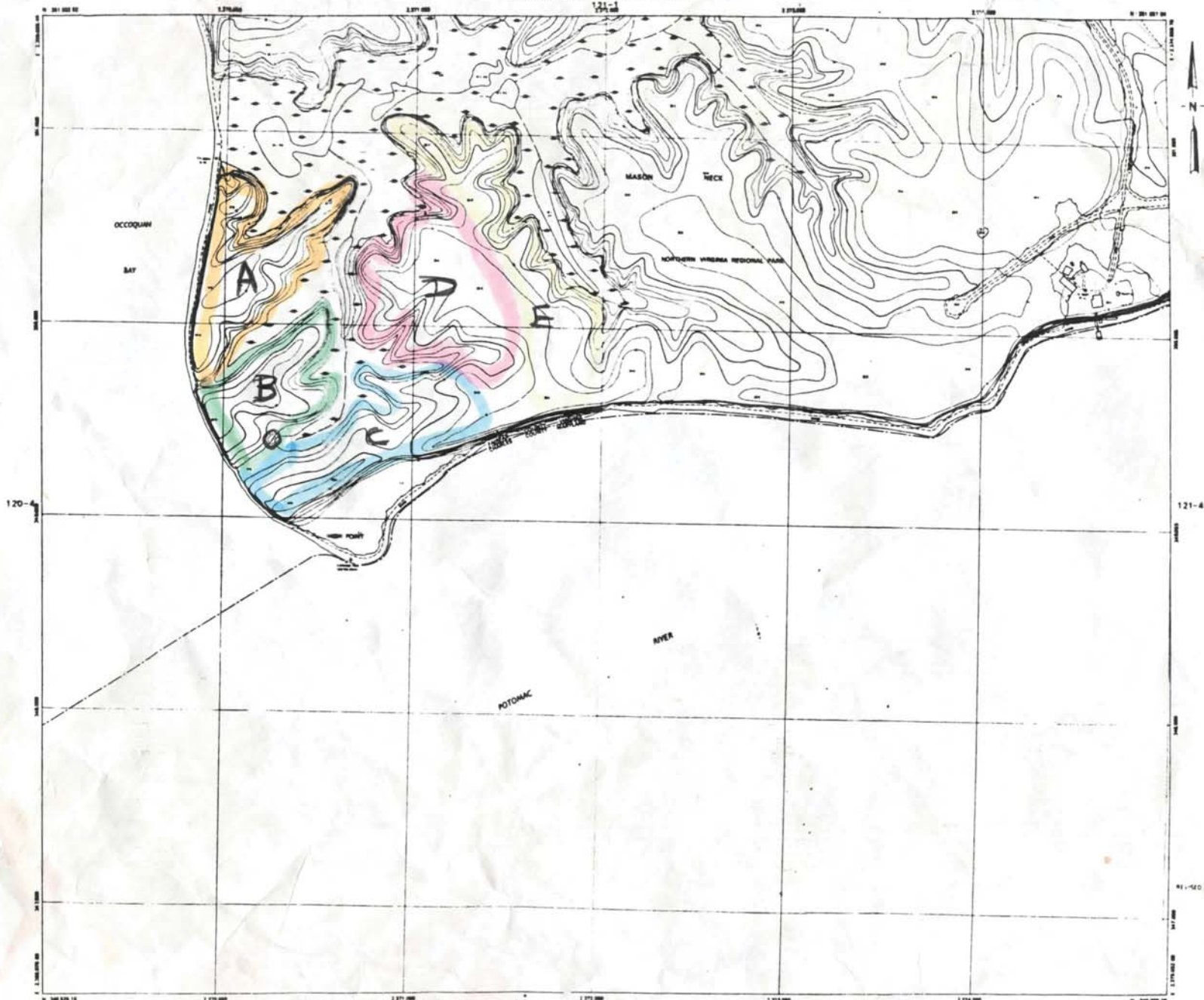
JUNE FRU

TIME

WEATHER

[illegible]

FAIRFAX COUNTY



THIS MAP CONFORMS WITH NATIONAL MAP ACCURACY STANDARDS
 COMPILED BY SURVEY & DESIGN INC.
 FAIRFAX, VIRGINIA
 AERIAL PHOTOGRAPHY: MARCH 1972
 BY AER PHOTOGRAPHY, INC.

GRAPHIC PREPARED BY: SUR
 1000 FOOT GRID IS BASED ON THE RECTANGULAR
 COORDINATE SYSTEM FOR THE STATE OF VIRGINIA
 NORTH ZONE
 1983 NORTH AMERICAN DATUM

SECTION 121-3