

WZ
1979

**CHESAPEAKE BAY
BALD EAGLE
NESTING SURVEY**

CHESAPEAKE BAY BALD EAGLE BREEDING SUCCESS - 1979

In the 1979 nesting season the breeding population of bald eagles in the Chesapeake Bay region numbered 85 active pairs. An active pair is one in which the female laid eggs. One female laid eggs in two nests; the first was abandoned and the second produced one young. Of the 86 active nests found 42 were abandoned and 44 hatched 67 young for a hatching success ratio of 0.79 young per active nest. Table I compares nest success data for 1979 with previous years. The map shows the approximate locations of nests and unmated or non-nesting adult birds.

Five of the 67 hatched young disappeared before fledging, including the only young in two ^{2x} Maryland nests and one of two eaglets from one nest in Maryland and two nests in Virginia. Three captive raised young reared to an age of 3 to 6 weeks at the Patuxent Wildlife Research Center were added to three active Virginia nests each of which had a "wild" young. All were accepted and apparantly fledged.

In addition to the 85 actively nesting pairs one or two adult bald eagles were seen during the nesting season in 21 other nest sites (see map). The nests seen in these sites were inactive (i.e. not used for egg laying in 1979). In two cases adults were seen carrying nest materials but the nests were not found. In several instances only one adult was seen at or near an inactive nest and probably indicated unmated birds. In six cases where a pair of adults was frequently seen but no active nest found, we assume that these pairs did not lay eggs in 1979. We have a number of pairs that do not lay eggs every year but skip a year now and then while other pairs lay eggs every year with varying success. Table II illustrates this point by indicating nesting results at selected nest sites over selected years since 1936 when the first nesting survey was done in this region. The author has chosen only those nest sites where nesting activity has occurred continuously or sporadically since the 1936 survey. Obviously, the pair that nested at a site in 1936

cover photo by Charles R. Ellis

is not the same pair that nested in the site in 1979. Eagles may live as long as 30 years in the wild but don't mate until 4-5 years of age and probably become impotent after 20+ years. Therefore, when one mate dies the remaining mate picks another partner, often a younger and more virile individual, as in the 1978 Fairfax Co., Va. nest (Table II).

For reasons not yet known, Maryland eagles continue to have better nesting results than those in Virginia. Of 47 active Maryland nests 21 (44%) were abandoned and 26 (56%) hatched 41 young (0.89 yng per active nest). In Virginia of 36 active nests, 21 (56%) were abandoned and 16 (44%) hatched 24 young (0.66 yng per active nest).

In Delaware only two active nests were found (3 in 1978) but both produced an eaglet whereas in 1978 all three were abandoned.

Table III is a complete listing of observations made at all Chesapeake Bay bald eagle nest sites by members of the Chesapeake Region Eagle Group (CREG). This group comprises representatives of the Federal and State Fish & Wildlife or Natural Resources agencies as well as representatives of non government organizations, such as the Audubon Naturalist Society.

Three of the unhatched eagle eggs that were collected in 1979 were analyzed for organochlorines and mercury at the Patuxent Wildlife Research Center. Table IV summarizes these results.

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Member CREG, representing ANS

Table I. BREEDING SUCCESS OF CHESAPEAKE BAY BALD EAGLES

STATE	1936	1962	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
<u>Active nests: found/rechecked</u>												
DEL.	4/4	1/0	2/1	2/2	2/2	1/1	1/1	1/1	1/1	3/2	3/3	2/2
MD.	31/16	24/15	26/24	28/23	29/23	33/33	31/31	43/43	40/39	44/44	46/46	47/47
VA.	17/15	33/20	30/27	33/32	30/27	32/32	29/29	36/36	32/32	31/31	38/38	37/37
Total:	52/35	58/35	58/52	63/57	61/52	66/66	61/61	80/80	73/72	78/77	87/87	86/86
<u>Rechecked active nests: abandoned/hatching young</u>												
DEL.	0/4	-/-	0/1	2/0	2/0	1/0	1/0	1/0	0/1	1/1	3/0	0/2
MD.	*2/14	14/1	14/10	10/13	14/9	18/15	10/21	19/24	17/22	17/27	19/27	21/26
VA.	0/15	16/4	21/6	26/6	20/7	23/9	21/8	27/9	26/6	14/17	22/16	21/16
Total:	2/33	30/5	35/17	38/19	36/16	42/24	32/29	47/33	43/29	32/45	44/43	42/44
<u>Number of young: Hatched/per active nest</u>												
DEL.	8/2	-/-	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/0.5	0/0	2/1
MD.	28/1.1	1/0.07	13/0.5	16/0.57	12/0.36	28/0.84	27/0.87	35/0.81	31/0.77	47/1.06	38/0.84	41/0.89
VA.	35/2.06	6/0.2	8/0.27	8/0.24	10/0.33	13/0.40	13/0.43	11/0.3	7/0.21	23/0.74	21/0.55	24/0.66
Total:	71/1.36	7/0.16	22/0.37	24/0.38	22/0.36	41/0.62	40/0.65	46/0.57	39/0.53	71/0.91	59/0.68	67/0.79
<u>Nest sites with adults present but active nest not found</u>												
DEL.	0	1	0	0	0	1	0	0	0	1	0	1
MD.	8	3	6	1	0	4	0	1	5	3	3	10
VA.	1	7	1	0	0	7	1	1	2	6	3	10
Total:	9	11	7	1	0	12	1	2	7	10	6	21

* eggs robbed by oologists

Chesapeake Bay Region

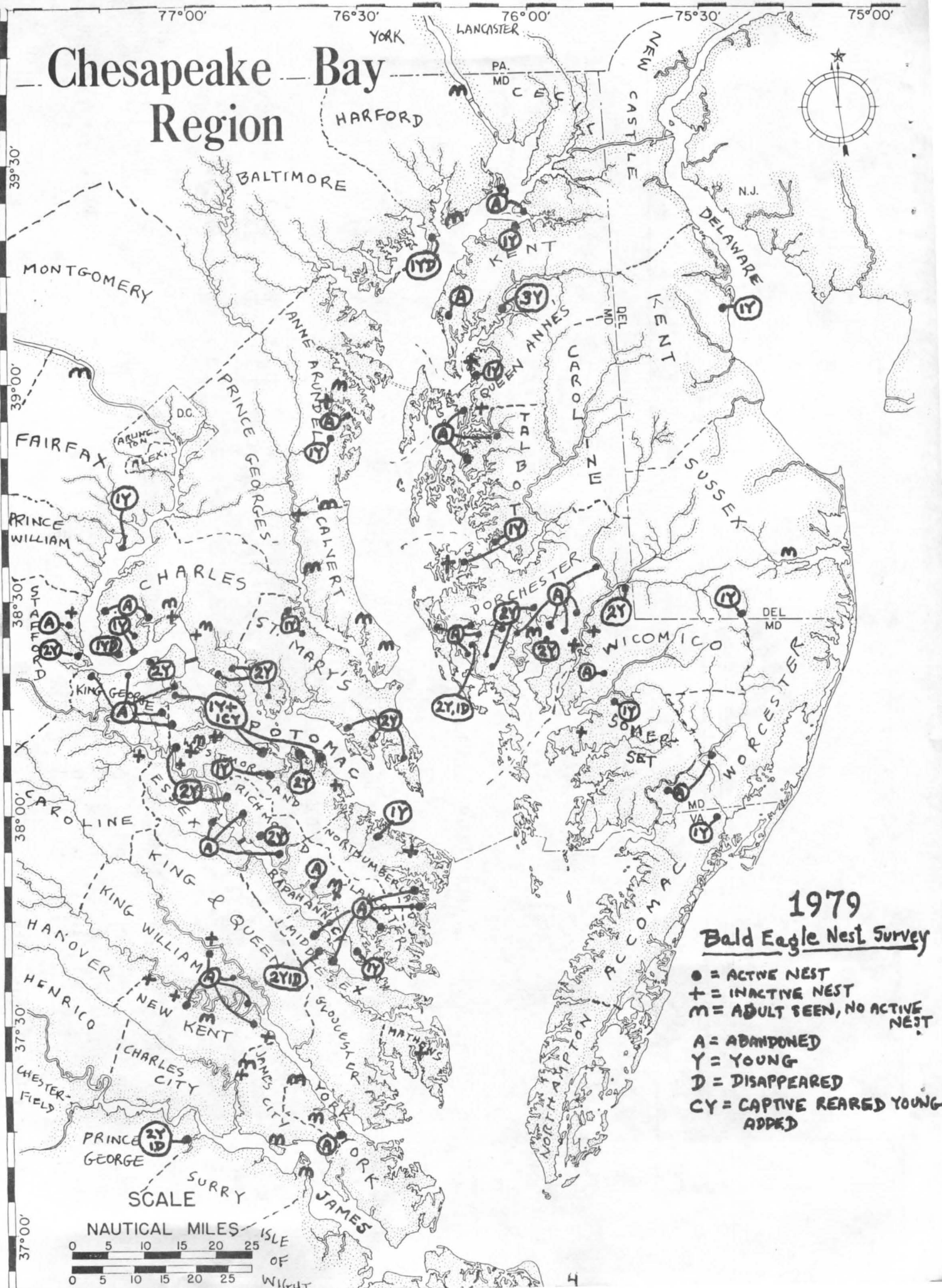


Table II. Results at selected nest sites of Chesapeake Bay Bald Eagles.

State-County-Site	1936	1962	1970	1974	1975	1976	1977	1978	1979
Va./Fairfax/Mason Neck	3Y	♂	1Y	1Y	AS	A1E	LEM*	1Y**	1Y
Va./Stafford/Widewater	2Y	A	?	AM	AS	A1E	♂	♂	A
Va./Westmoreland/Pope's C	2Y	?	♂	A	A	A2E	1Y	1Y	IA
Va./Westmoreland/Chantilly	2Y	?	2Y	A	1Y	1Y	2Y	A	1Y
Va./Richmond/Montross	2Y	?	1Y	2Y	1Y	1Y	A	2Y	2Y
Va./P.G./Chippoke Crk.	2Y	?	IA	IA	IA	IA	IA	1YP	2Y(1D)
Md./A.A./Muddy Crk.	2Y	♂	A	A	♂	2Y	A	2Y	1Y
Md./Q.A./Queenstown	2Y	?	2Y	A	2Y	A	IA	1Y	1Y
Del/Kent/Bombay Hook	2Y	?	1Y	A	A	1Y	A	A	1Y

* The one egg (inviabale) was replaced by 2 eggs laid by a captive female at Patuxent Wildlife Res Cntr, Laurel, Md. One of the 2 "new" eggs hatched & the yng fledged.

** The one egg laid was removed on the assumption it was inviable, as in 1977, and was replaced by 2 eggs laid by a captive female at PWRC, Md. The removed egg hatched in the labratory (died of pneumonia a week later) and the 2 "captive" laid eggs were abandoned by the "new" female (replaced the "old" 1977 female). The new female had some brown feathers on the head, indicating a juvenile attaining maturity.

A = abandoned

D = disappeared

E = egg

IA = inactive

M = Man disturbed

P = possibly 1 yng was hatched as what appeared to be an eaglet was found dead and badly decomposed in the water near shore.

S = storm

Y = young

? = activity not confirmed

♂ = adult/s present in nesting season, active nest not found

TABLE III. 1979 Chesapeake Bay region bald eagle nest/nest site survey.

NEST CODE NUMBER	TREE	LOCALITY	OBSERVATIONS
state-county-yr found (yr built underlined)- no, for the yr-yr gone		Gt. Falls, Fairfax Co., Va. <u>POTOMAC RIVER</u>	Adult seen repeatedly in the spring of 1978 and 1979 (Roul, Clark); no nest found on air search 30 Mar 79 (JA).
VA-FF-78-01	lob.pine	Mason Neck	27 Jan-13, 18 Mar - Adult incub.(JA). 22 Apr-Ad in nest w/1 downy yng + 1 egg(MB). 2 May-Ad on w/1 yng(JA). 6 May - Ad on w/1 gray yng(MB). 25 May-Yng banded, egg taken for analysis(BC).
		Ridge btwn Neabsco & Powell's Crks, Cherry Hill area, Prince William Co., Va. Former nest site to early 1960's.	27 Jan, 18 Mar-No nests or eagles seen (JA).
VA-STAF-76-01	Va.pine	Ridge W of RR	27 Jan, 18 Mar-Empty (JA).
VA-STAF-70-03-79	tulip	Flat E of RR	18 Mar-Gone (JA).
VA-STAF-77-01	Va.pine	Flat E of RR	18 Mar. 2 May-Dilapidated (JA).
VA-STAF-79-01	Va.pine	$\frac{1}{2}$ mi SW fr "	18, 28 Mar-Ad inc (JA, MB). 22 Apr-egg shell(?) in nest (MB). 2 May-Empty (JA).
VA-STAF-75-01	tulip	S Aquia Crk	27 Jan-Pr ad on nest(JA). 18, 28 Mar-Ad inc(JA, MB). 22 Apr, 2 & 6 May-Ad on w/2 yng(MB, JA). Late May-both yng banded
		Crow's Nest Farm. Five sq miles of uncut woods btwn Accokeek & Potomac Crks, Stafford Co. Former nest site for 2 prs eagles.	27 Jan, 18 Mar-No nests or eagles seen (JA).
VA-KG-75-01	oak	Passapatanzy	27 Jan-Ad standing in nest (JA). 18 Mar-Empty(JA).
VA-KG-79-01	decid	0.65 mi SE fr "	27 Jan-Empty, fresh(JA). 18, 28 Mar-Ad inc(JA, MB). 22 Apr, 2 May-Empty (MB, JA).
VA-KG-75-02	tulip	1 mi N fr Ambar	27 Jan-imm stand. in nest (JA). 22 Apr, 2 May-Empty (MB, JA).
VA-KG-79-04	decid	$\frac{1}{4}$ mi NW fr "	18, 28 Mar & 22 Apr-Ad inc (MB, JA). 2 May-Ad inc (JA), Late May-Empty (BC).
VA-KG-74-01-79	lob/pine	$\frac{1}{2}$ mi E fr Jones Pond	27 Jan-Gone (JA).
VA-KG-74-04	"	$\frac{1}{4}$ mi E fr "	27 Jan, 18 Mar, 2 May-Empty (JA).
VA-KG-79-02	"	100 ft N fr "	27 Jan-Not seen, prob not built yet (JA). 18, 28 Mar, 22 Apr, 2 May-Ad inc/brooding(JA, MB). 6 May-Ad on w/2 yng (MB). 13 Jun-2 yng banded & fitted w/radio transmitters (BC).
VA-KG-79-03-79	lob/pine	$\frac{1}{2}$ mi S fr 79-02	28 Mar-Empty, ad near(MB). 2 May-Couldn't find it N side Jotank Ck(JA).
VA-KG-74-03-79	Red oak	$\frac{1}{2}$ mi E of manor	27 Jan-Gone (JA).
VA-KG-78-01	lob/pine	1 mi E of manor	18, 28 Mar, 22 Apr-Empty(JA, MB). 2 May-Hole in nest, imm flying fr tree (JA).
VA-KG-77-01	tulip	1 mi NW/Persim.	Pt. 27 Jan, 18 Mar-Dilapidated; no other nests found or eagles seen in 5+sq miles of good-looking former eagle nesting area (JA).
VA-KG-75-03-79	yel/pop	Machodoc Crk	27 Jan-Gone (JA).
VA-KG-78-02	lob/pine	Machodoc Crk	27 Jan-Empty (JA). 18 Mar-Ad inc (JA). 28 Mar, 2 May-Empty (MB, JA).
VA-KG-78-04	lob/pine	1 mi SE fr "	1978-Inactive (USN personnel). 28 Mar 79-Ad inc (MB). 2 May-Ad brood (JA), 6 May-Ad on w/1 gray yng (MB). 12 May-Yng banded & transf to # VA-WES 79-01; 2 captive reared yng put in nest & later fledged (BC).

VA-KG-78-03	lob/pine 2 mi N fr King's Mill, by pond	17 Mar-Empty, pr ad in courtship flt over site, 3d ad seen near (MB). 18 Mar-Empty(JA). 28 Mar-ad inc (MB). 22 Apr, 2 May-Empty (MB,JA).
{ VA-KG-75-04-79	lob/pine 1 mi N fr K.Mill	18 Mar-Gone(JA).
{ VA-WES-78-05	lob/pine 1 mi NNE fr "	17 Mar-R.T.Hawk inc(MB).18 & 28 Mar-Empty(JA,MB). 22 Apr-Empty(MB). 2 May-Ad in nest (JA). 29 May-Empty, green pine spray in egg cup (BC).
{ VA-WE-76-03-79	lob/pine 1 mi SE fr Oak G.	18 Mar-Gone (JA).
{ VA-WE-73-05	lob/pine 1 1/4 mi SE fr "	18 Mar-Tree dead, nest dilapidated (JA).
{ VA-WE-77-03	lob/pine 1 1/2 mi SE fr "	18, 28 Mar-Empty, fresh lining (JA,MB). 22 Apr-Ad standing in nest (MB). 2 May-Empty (JA).
{ VA-WE-71-01	lob/pine Wakefield	27 Jan, 18 & 31 Mar, 22 Apr, 2 May-Empty (JA,MB).
{ VA-WE-79-04	lob/pine 1/2 mi ESE fr "	31 Mar, 22 Apr, 2 May-Empty (MB,JA).
{ VA-WE-76-01	Va pine Chantilly Br N	18, 31 Mar-Empty (JA,MB).
{ VA-WE-77-01-79	Va pine Chantilly Br S	27 Jan-Gone (JA).
{ VA-WE-79-01	tulip Chantilly Br S	27 Jan-Pr ad at nest (JA).18 & 31 Mar, 22 Apr, 2 & 6 May- Ad inc/brooding (JA,MB). 12 May-1 yng banded & 1 yng added fr nest # VA-KG-78-04 (BC).
{ VA-WE-78-02	lob/pine Old Mill Branch	18 Mar, 2 May-Empty (JA).
{ VA-WE-79-02	lob/pine 1/4 mi N fr "	18 Mar, 2 May-Empty (JA).
VA-WE-71-04	tulip Pierce Crk	18,31 Mar-Ad inc (JA,MB). 2 May-Ad perched by empty (?) nest(JA). 6 May-Pr ad at nest w/1 3-wks old yng (MB). 12 May- 1 yng banded (BC).
VA-WE-78-04	lob/pine Betty's Pond W	18 Mar-Didn't see it fr air (JA). 12 Aug-Nest still there, seen fr ground (JA).
{ VA-WE-76-02	lob/pine Cabin Pt Pond E	18 Mar-Dilap., roads & houses being built near (JA)
{ VA-WE-79-05	lob/pine Cabin Pt Pond S	Not seen fr air. Land owner, Ken Logan, reports 2 yng eaglets fledged. Saw 1 imm near on 12 Aug (JA).
{ VA-WE-78-01	lob/pine Long Pond, Cole's Neck	18,31 Mar-Ad inc (JA,MB). 22 Apr-Ad feeding 1(+?) grey yng(MB). 2,6 May-Ad on w/1(+?) yng(JA,MB). 12 May-1 yng banded, added 1 captive raised yng(BC)
{ VA-WE-78-03	lob/pine 100 mtrs SW of "	18 Mar-Didn't see it (JA).
{ VA-WE-71-02	lob/pine Westmoreland	12,18,31 Mar & 2 May-Empty (JA,MB,FS).
{ VA-WE-79-03	lob/pine 1/4 mi SE of "	18 Mar-new nest built in same tree as VA-WE-73-03-78; empty(JA). 31 Mar,22 Apr,2 May-Empty(JA,MB,FS).
{ VA-WE-68-03	lob/pine 1/4 mi SE of 79-03	18,31 Mar, 2 May-Empty (JA,MB).
VA-ND-79-01	lob/pine N of Heathsv.A'pt	12 Mar-Ad on edge of nest (FS).18 Mar, 1 & 22 Apr, 2 & 6 May-Ad inc or brooding (JA,MB). Mid May-1 yng banded & fitted w/radio transmitter(BC).
VA-ND-75-03	lob/pine Hull Neck	12 & 18 Mar, 1 & 22 Apr-Empty, unlined (FS,JA,MB).
	S side Gt. Wicomico River	18 Mar-No nests or eagles seen (JA).
VA-ND-70-01	lob/pine Wicomico Church	12 & 18 Mar, 1 & 22 Apr-Ad inc(FS,MBO. 2 May-1 egg no eagles seen (JA). 6 May-Empty (MB). Mid May-egg shells collected for analysis (BC).
{ VA-ND-79-02	lob/pine Upper Mill Crk	18 Mar-Pr adults in courtship flt over over area, no nest found (MB). 1 Apr-Nest w/2 eggs found, no eagles seen (MB). 22 Apr-R.T.Hawk incubating!(MB). 2 May-Couldn't find it on 6 passes in aircraft(JA).
{ VA-ND-78-01	lob/pine N side Mill Ck.	12 & 18 Mar, 1 & 22 Apr-Empty (FS,JA,MB).
{ VA-ND-69-01	lob/pine S side Mill Ck.	12 & 18 Mar, 1 Apr-Empty, dilapidated (FS,JA,MB).
{ VA-ND-69-02	lob/pine 1/4 mi SW of "	18 Mar-Dilapidated (JA).
VA-MA-75-01	lob/pine NW fr Mathews	12 Mar-Empty,unlined(FS). 1 Apr-Dilap.(MB).

RAPPAHANNOCK RIVER

VA-CA-78-01	pine	Lwr Port Tobago Ck	12,17,18 Mar, 2 May-Empty, dilap.(FS,MB,JA). Note:This nest # had been assigned to a nest at Rappahannock Academy which turned out to be a R.T.Hawk's nest.
VA-CA-79-01	lob/pine	Upr Pt.Tobago Crk	18 Mar-Empty, fresh lining(JA). 2 May-Falling(JA).
VA-WE-77-04	tulip	N Owl Hollow	26 Jan-Empty, unlined(MB). 12,17,18,28 Mar-Adult inc.(FS,MB,JA). 22 Apr-Ad brood.(MB). 2 May-Ad on w/1 (+?)yng(JA). 6 May-Ad on w/1 grey yng (MB). 22 May- <u>Two</u> yng banded! (BC).
VA-WE-77-05	pine	N side Troy Crk	18 Mar-Empty, looks fresh(JA). 2 May-Empty(JA).
VA-RI-70-01	tulip	Singerly	26 Jan, 17 & 18 Mar-Empty, unlined (MB,JA). 28 Mar, 22 Apr, 2 May- Ad inc (MB,JA). 6 May-Ad brood.(MB). Late May-2 yng banded (BC).
{ VA-ES-75-01	lob/pine	Broad Creek	17 Mar, 22 Apr-Empty, dilap. (MB).
{ VA-ES-78-01	lob/pine	$\frac{1}{2}$ mi S fr Bd Crk	26 Jan-Pr ad standing on nest(MB). 12 & 17 Mar-Empty, ad near (FS,MB). 18 Mar-Ad standing over 1 (+?) egg (JA). 22 Apr, 2 May-Empty (MB,JA).
VA-ES-79-01	lob/pine	Cedar Creek	17 Mar-Empty; placed on a lower limb, by trunk(MB). 31 Mar, 20 Apr-Empty (MB).
VA-RI-79-02	dead pine	Upr Cat Pt Crk	17 Mar-Ad inc, mate perched near (MB). 3d ad seen in area(MB). 2 May-Empty, 2 imm soaring overhead, no adults seen (JA).
{ VA-RI-71-02	lob/pine	S fr #360 brdge	12,18 Mar-Dilapidated (FS,JA).
{ VA-RI-78-01	lob/pine	$\frac{1}{4}$ mi ENE fr "	26 Jan-Empty, freshly lined, ad near (MB). 12,17, 18 Mar-Ad inc(FS,MB). 2 May-Ad on w/2 blk yng(JA). 6 May-2 bwn yng (MB). Mid May-2 yng banded, fitted w/radio transmitters (BC).
VA-RI-74-01	lob/pine	Totusky Creek	26 Jan-Empty, freshly lined, ad near (MB). 12 & 18 Mar-Ad inc (FS,JA). 22 Apr, 2 May-Empty(MB,JA). 21 May-One egg, buried 4 " deep in lining, collecte for analysis (BC).
{ VA-RI-73-01	lob/pine	S fr Farnham Crk	12 & 18 Mar, 2 May-Empty(FS,JA). Late May-One egg collected, buried in nest lining. When laid? Nest nnt seen to be active in 1978 or 1979 (BC).
{ VA-RI-71-01	lob/pine	$\frac{1}{2}$ mi W fr #73-01	12 & 18 Mar, 2 May-Empty (FS,JA).
{ VA-RI-78-02	lob/pine	$\frac{1}{4}$ mi W fr #73-01	26 Jan-Empty, fresh lining, no eagles seen (MB). 12 & 18 Mar-Ad inc (FS,JA). 22 Apr-Empty,pr ad fly-ing near(MB). 2 May-Empty, no eagles seen(JA). Late May-Few feathers in nest, no egg/s. 1978 band & blue band tag (# V/8) put on a yng in 1978 found under nest tree (BC).
VA-RI-79-01	lob/pine	Lancaster Crk,W	12 Mar-Empty(FS). 18 Mar-Early a.m.-R.T.Hawk inc (MB); late a.m., empty(JA). 22 Apr-Empty, green pine spray in nest, ad near (MB).
VA-LA-79-01	lob/pine	3/4 mi E fr "	12 & 18 Mar-Empty (FS,MB).
VA-RI-79-03	lob/pine	Chinn's Pd,ENE	18 Mar-Empty (MB).
VA-RI-79-04	lob/pine	1 mi NNE fr "	18 Mar-Empty (MB).
VA-LA-75-01	lob/pine	East Br,Corrot,R.	26 Jan-Dilap.(MB). 12 & 18 Mar-Ad inc (FS,MB,JA). 22 Apr-Empty, green sprig in nest(MB).2 May-Empty(J
{ VA-LA-75-02	lob/pine	Bertrand, NE	26 Jan, 12 & 18 Mar, 2 May-Dilapidated (MB,FS,JA).
{ VA-LA-79-02	lob/pine	Bertrand,SW	18 Mar-Ad inc(MB). 22 Apr-Ad brood. 1(+?)yng(MB). 2 & 6 May-1 yng (JA,MB). Permis not given to band
{ VA-LA-79-03	lob/pine	0.2 mi SE fr "	2 May-Empty (JA).
{ VA-MI-78-01	lob/pine	Upr LaGrange Ck	26 Jan-Empty, fresh lining, pr ad near (MB).4 Feb-Ad standing in nest (MB). 12, 17, 18 Mar-Ad inc (FS,MB,JA).20 Apr-Ad brood 2 white yng(MB).2 May-1 bwn yng, ad perched above(JA).6 May-1 yng banded

and fitted with a radio transmitter (B.C.).

RAPPAHANNOCK RIVER (Cont.)

VA-MI-78-02-79 lob/pine LaGrange Crk, S 12 Mar-Didn't see it(FS). 17 Mar-Dilap.(MB).
18 Mar-Gone(JA).
VA-MI-77-03 dead pine Long Point 17 Mar-Ad in poor nest, mate flying in w/stick(MB).
18 Mar-Ad in poor nest, mate flew in w/stick(JA).
20 Apr-Empty(MB). 2 May-Ad inc(JA). 27 May-Empty(BB).
VA-MI-77-01 lob/pine Parrot's Crk 26 Jan-Pr ad on nest(MB). 12,17,18 Mar, 20 & 22 Apr,
2 May-Ad inc (FS,MB,JA). 6 May-Ad brood.(MB).
12 May-1 egg, no eagles seen (MB, BB).

MATTAPONI RIVER

VA-KQ-79-01 lob/pine Mantapike Crk, W 27 Jan-Top of dead tree, empty, not fresh(MB).
8 & 17 Mar-Empty, dilap.(FS,MB).
VA-KW-79-01 lob/pine Sandy Pt, W 27 Jan-Empty, Ad perched near(MB). 8 & 17 Mar, 20
Apr, 6 May-Adult Incub.(FS,MB). 23 May-Empty, egg
shells collected-logging all around(BC).
VA-KW-77-01 lob/pine Custis Pond, N 8 & 17 Mar-Ad inc (FS,MB). 6 May-Empty (MB).
VA-KW-73-02 lob/pine Custis Pond, NE 27 Jan-Dilap., ad on opposite shore(MB). 8 & 17 Mar-
Dilapidated (FS,MB).
VA-KQ-79-02 lob/pine 1.2 mi NE fr " 8 Mar-Owl(?) on nest (FS).

PAMUNKEY RIVER

VA-NK-79-01 lob/pine Metadequin Crk 8 & 20 Mar-Dilapidated (MB).
VA-NK-64-04 lob/pine Big Island 8 & 12 Mar-Empty, unlined (FS,MB).
VA-NK-77-01 lob/pine St Peter's Swamp 27 Jan-empty, ad standing in nest (MB). 8 & 12 Mar,
20 Apr-Adult Inc (FS,MB). 3 May-Empty (MB).
VA-NK-64-05-72? 1.pine New Kent, N 8 Mar-Few sticks left (reported gone in '72-FS).
12 Mar-Few sticks left, Adult perched near (MB).
VA-NK-75-01-78 lob/pine Cook's Mill Pd, W 8 Mar-Gone, probably in 1978 (FS).
VA-KW-71-01 lob/pine Romancoke, E 27 Jan-Dilap., woods cut near nest tree (MB). 8 &
12 Mar, 20 Apr-Ad inc, logging around nest tree(FS,MB).
Mid May-Two abandoned eggs collected (BC).
VA-KW-79-02 lob/pine Lee Marsh 27 Jan-Empty (MB). 8 Mar-Empty (FS).

YORK RIVER

VA-NK-78-01 lob/pine Goddin's Pond 27 Jan, 8 & 12 Mar, 20 Apr-Empty (MB,FS).
VA-NK-65-02-79 lob/pine Terrapin Pt, N 8 Mar-Gone (FS).
VA-NK-79-02 lob/pine Goddin's Pnd, S 8 Mar-Dilapidated (FS).
VA-NK-79-04 lob/pine $\frac{1}{2}$ mi SW fr " 12 Mar-Ad inc, mate nearby(MB). 31 Mar, 20 Apr-
Empty (MB).
VA-NK-74-01 lob/pine N side Ware Crk 27 Jan, 8,12,31 Mar, 20 Apr-Empty, unlined(MB,FS).
VA-NK-79-03 lob/pine $\frac{1}{4}$ mi E fr " 12 & 31 Mar-Empty, in good shape(MB). 20 Apr-R.T.
Hawk inc (MB).
VA-JC-71-01-79 lob/pine Skimino Crk, N 8 Mar-Gone (FS).
VA-JC-78-01-79 lob/pine Skimino Crk 8, 12 Mar, 1 Apr-Few sticks left, pr adults perched
near on 1 Apr(MB). 20 Apr-Gone, adult near(MB).
In early Feb an ad was seen carrying nest mtrl to a
nest which was not found (MB).
VA-YO-78-01 lob/pine Carter Creek 8 & 12 Mar-Ad inc(FS,MB). 20 Apr-Empty, pr ads near

CHICKAHOMINY RIVER

VA-JC-64-01 lob/pine Diascund Crk 19 Jan-1 of 2 nests in good condition, ad near (MB).
8 Mar-Both nests dilapidated, no others seen (FS).
1 Apr-No nests found on W side of Chickahominy (MB).

JAMES RIVER

VA-PG-61-01 Cedar Chippokes Crk 19 Jan-Nest in good shape, ad near (MB). 10 Mar, 1 Apr-Ad inc (MB). 20 Apr-Ad on w/2 grey yng (MB). 6 May-Only 1 grey yng, ad flying on w/fish (MB). 11 Jun-1 yng banded & fitted w/radio transmitter (BC).
S side James River from James River bridge (US # 17) W to upper Chippokes Creek.
Feb-Ad seen carrying nesting materiel at Hog Isld NW Refuge-no nest found (MB).
10 Mar-No nests found (MB).
Mill Crk, James Isld "spring"-A pr of adults repeatedly seen flying up Mill Creek but no nest found (MB).

COASTAL VIRGINIA

VA-AC-70-01 lob/pine Sinickson 28 Mar-Ad inc (DD). 7 May-Lyng 6 wks old (K.D'L).
Late May-1 yng banded (BC).

S Accomac & Northampton Co's. 28 Mar-No eagles seen or nests found (DD).

Seashore State Park, Back Bay, N Landing River 31 Mar-No eagles seen or nests found (DD).

VA. PIEDMONT, RIDGE & VALLEY

Philpot Res., Bugs Isld Lake, Smith Mt. Lake, Leesville Lake, Dan River from Danville to Bugs Isld Lake, New River From Radford to W. Va. line.

19-20 Mar-No eagles seen or nests found (Don Gnegy USF&WS, Blacksburg, Va.)

DELAWARE

{ DEL-KE-76-01 Wt oak Bombay Hook NWR 20 May-One yng banded (BC).

{ DEL-KE-77-01 Tulip $\frac{1}{2}$ mi SE fr " Inactive (Paul Burnes, Del F&W)

DEL-SU-78-01-79 lob/pine ENE fr Millsboro 16 Jan, 28 Feb-Nest in poor shape, falling (PB).
27 Mar-Gone; fallen out (PB). Pr of adults seen in area during nest season but active nest not located.

DEL-SU-77-02-78 lob/pine 5.75 mi W fr Laurel Nest tree cut down in Oct '78 (PB). Birds built a nest inside Md (MD*WI-78-02) & raised 2 yng in '79

DEL-SU-77-01 lob/pine Gumboro 31 May-One yng banded. Nest tree dying. Food remains in nest: chicken, imm. red-tailed hawk (PB).

Observers:

JA=Jackson Abbott, Aud Nat Society

BB= Buck Bradley, banding team, Nat'l Wildl. Fed.

MB= Mitchell Byrd, Va. state F&W rep.

BC= Bill Clark, banding team leader

KD'L= Ken D'loughy, Md State F&W rep.

DD= Doug Davis, working for Mitchell Byrd

PB= Paul Burnes, Del State F&W rep.

DG= Don Gnegy, USF&W Serv, Blacksburg, Va.

FS= Fred Scott, Va Soc Ornith.

{ = nests built by same pair

MARYLAND - 1979 Bald Eagle nest summary

POTOMAC RIVER

S side Piscataway Bay, P George's Co., Mattawoman Crk, Indian Head, Charles Co. 13 Mar-Flew over 5 old nest sites which seem as good for eagles as ever but none seen & no nests(JA).

MD-CHAS-73-01 Decid. E fr Goose Bay 13,18 Mar-Dilapidated. No other nests or eagles seen in this area or that for 5 miles to the S(JA).
MD-CHAS-75-01 Decid. E fr Mallow's Bay 13 Mar-Empty, ad in near tree, flew to nest as we flew past (JA). 18 Mar-Ad inc (JA). 3 May-One egg (+ fish? yng?), pr adults flying near nest tree(JA). Mid May-Egg shell fragments collected (BC).

Mallow's Bay S to Maryland Point - several old nest sites; Chas. Co. 13 & 18 Mar, 3 May-No nests or eagles seen 'tho the woods appear as good as ever (JA).

MD-CHAS-78-02 lob/pine 1/2mi NNW fr Md Pt 13 Mar-Ad inc (JA). 3 May-Ad standing in nest w/1 yng (+?)(JA,BB). 14 May-Empty, green leaf spray(BC).
MD-CH-77-01 lob/pine 2+mi NE fr Md Pt 13 Mar-Ad inc(JA). 3 May-Ad in nest w/1 dk bwn yng (JA,BB). Late May-One yng banded (BC).

{ MD-CH-75-02 beech Grayton, E 13 Mar, 3 May-Empty (JA).
MD-CH-73-02 oak 1/3mi ENE fr 75-02 13 Mar-Ad inc(JA). 3 May-Ad on w/1(+?)bwn yng (JA). 14 May-1 yng banded (BB).
MD-CH-77-02 Va pine Hilltop Fork,E 13 Mar-Ad inc (JA). 3 May-Empty(JA,BB). 16 May-1 egg collected for analysis (BB).

N side Gumtree Cove, Burgess Crk & W end of Goose Creek, Cedar Pt Neck, Charles Co.-old nest sites. 13 Mar-No nests or eagles seen(JA).

MD-CH-79-01 Decid. W side Port Tob.Riv. 22 Mar-Empty, pr adults near (JA). 30 Mar-dead shad in nest, ad perched near (JA). 3 May-Empty(JA)

E side of Port Tobacco River, S of St Ignatius Church - old nest site, Charles Co. 13, 22 Mar-No nests or eagles seen (JA).

MD-CH-78-01 Oak N side Pope's Crk 13 Mar-Empty, not fresh(JA). 22 Mar-Empty, ad perched in tree 1/2 mi to ENE - no nests found in that area(JA). 30 Mar-Dilapidated (JA).

Upper Wicomico River, S & W sides - old nest site. 13 Mar-No nests or eagles seen (JA).

E side Wicomico Riv. 22 Mar-No eagle nests; 2 osprey nests well in-land (JA).

MD-CH-77-04 Va pine 1 mi N Dolly Board- 13 Mar, 3 May-Ad inc/brooding(JA). Late May-2 yng man Crk banded (BC).

MD-CH-73-03-79 Pine Woodbury Bch, W 13 Mar-Gone (JA).

MD-CH-77-03 pine Banks O'Dee Rd 27 Jan-Empty (JA).13 Mar-Ad inc (JA). 3 May-Ad on w/1 bwn yng (JA). Late May-2 yng banded (BC).
Swan Pt Neck, Ch. Co. 27 Jan-No nests or eagles seen on 3 passes of aircraft over this former & still good looking area(JA)

{ MD-SM-76-01 willow Church Swamp 13 Mar-Ad perched above empty nest (JA). 22 Mar-Ad inc(JA). 3 May-Ad standing in nest w/1 (+?)grey yng(JA,BB). Late May-2 yng banded (BC).
MD-SM-72-03 lob pine 1 mi NNE of 76-01 13 Mar-Half gone (JA).
MD-SM-78-01 " Mulberry F. Farm 13 Mar-Ad inc (JA). 3 May-Ad on w/1 (+?) yng(JA). late May-2 yng banded (BC).

MD-SM-72-05 " Portobello Point 22 Mar-Ad inc (JA). Late May-2 yng banded (BC).
MD-SM-73-04 " Scotland 22 Mar-Ad inc (JA). Mid May-2 yng, no permission to band (BC).

PATUXENT RIVER

MD-CAL-76-02 beech W of Dunkirk 13 Mar-Empty, not freshly lined- house built 50 mtr to SE - houses all around now (JA).

MD-SM-74-02 tulip Locks Swamp Crk 13 Mar-Ad inc (JA). 3 May-Ad on w/1 (+?) yng(JA,BB). 18 May-2 yng banded (BB).

{ MD-SM-75-01 Decid Cat Creek, S 13 Mar-Half gone (JA).
 { MD-SM-78-02 Decid 100 mtrs W of " 13 Mar-Empty, ad perched near(JA). 30 Mar-Ad inc(JA).
 3 May-Pr ad on nest w/l egg + ?(JA,BB). 18 May-1 yng
 banded (BB).
 Cocktown, Graham, Chew and Hall's Creeks, Calvert Co. All former nest
 sites & eagles reported seen in early spring.
 13 Mar-No nests or eagles seen (JA).
 Upper St Leonard's Crk & N Calvert Beach, Calvert Co. Former nest sites
 13 Mar-No nests or eagles seen. Logging in upper S.L.
 Crk area, very built up in N Cal Bch area - adults
 reported seen here in Feb/Mar. 30 Mar-No nests or
 eagles seen (JA).
 Calvert Cliffs State Park; old nest site & area N to ST Leonard's Crk,
 Cal Co. 13 Mar-Ad in pine near '78 nest site in CCSP;
 no nests found in 6 passes over area. 30 Mar-No nests
 or eagles seen (JA).
 Parker Crk 30 Mar-No nests or eagles seen (JA).
 Plum Pt Crk & N to Nav Res Lab - 30 Mar-No nests or eagles seen (JA).
 Fishing Crk, woods E & N of Friendship, old nest sites, SE Anne Arundel
 Co. 30 Mar-No nests or eagles seen (JA).
 Tracy Crk, A. A. Co. - old nest site. 30 Mar-No nests or eagles seen(JA)
 { MD-AA-69-03 tulip Chew's Chch, N 13 Mar-Pr ad standing in nest (JA). 30 Mar-dilap.(JA).
 { MD-AA-79-01 Decid 1/4 mi W fr " 30 Mar-Ad inc. (JA). 3 May-Ad on w/l yng (JA,BB).
 MD-AA-78-01 oak Cedar Point 16 Mar-Nest seen fr gnd w/l ad in nest & 1 ad perched
 near (GT, K D'L). 30 Mar-Ad standing in poor nest(JA).
 3 May-Empty (JA,BB).
 MD-AA-74-01 lob/pine South River 13,30 Mar-Empty, not freshly lined (JA).
 Sherwood Forest area, S side of Severn River, A A Co. old nest site.
 Pr adults seen wheeling over the woods in early Mar.
 30 Mar-No nests or eagles seen (JA).
 Bayberry, Broad Neck, S side of Magothy River, AA Co. old nest site.
 30 Mar-No nests or eagles seen (JA).
 Patapsco River Neck, E Baltimore. 30 Mar-No nests or eagles seen (JA).
 Poole's Isld, N. Ches. Bay. Harford Co. 30 Mar-No eagles or nests
 seen but there were 2 osprey nests & 40+ prs G.B.
 herons (JA).
 MD-HA-78-01 Decid. Edgewood Ars. 30 Mar-Ad inc (JA). 3 May-Ad standing in nest w/l gray
 yng (JA,BB). 5 Jun-Empty (BB).
 MD-HA-79-01 Decid 1 mi NNE of Abbey Pt. 30 Mar-Ad perched on limb above a dilapidated
 Aberdeen Pvg Gnd nest (JA). 3 May-Couldn't find nest; ad flying
 in vicinity (JA,BB).
 { MD-HA-79-02 Decid Spesutie Isld 30 Mar-Ad inc (JA). 3 May-Ad brooding (wings half
 open-JA). 5 Jun-Empty (BB).
 { MD-HA-79-03 Decid Spesutie Isld 30 Mar- Empty; about 1/4 mi SSW fr #79-02 (JA).
 Wooded isles & both shores of the Susquehanna River S of Conowingo
 Dam - old nest site. 30 Mar-No nests found. One ad perched in
 tree on W shore 1 mi S of dam near 1950's nest site(JA).
 Perryville, Cecil Co. 30 Mar-No nests or eagles seen at this old nest
 site (JA).
 MD-CE-77-01 Decid Sassafras Riv, N 28 Feb-Empty(D'L). 19 Mar-Pr ad in nest (D'L). 18 Apr,
 7 & 9 May-Ad inc(D'L). 4 Jun-Egg shells collected (BB).
 MD-KE-76-01 lob/pine Lloyd's Crk 28 Feb-Ad inc(D'L). 19 Mar-Empty, ad in near tree(D'L).
 18 Apr, 9 May-Ad brooding 1 yng(Stover). 6 Jun-1 yng
 banded (BB).
 { MD-KE-68-01 pine Tolchester Bch 28 Feb, 19 Mar-Empty(D'L). 18 Apr-Pr ad sitting in
 nest (D'L). 7 May-Empty (D'L).

MD-KE-74-02	Pine	Tolchester Bch,S	28 Feb,19 Mar, 18 Apr, 7 May-Empty (D'L).
MD-KE-78-01	Pine	Swan Crk	28 Feb, 19 Mar-Ad inc(D'L). 18 Apr, 7 May-Empty(D'L).
MD-KE-72-01	Sycam.	Chestertown,S	28 Feb-Empty(D'L). 19 Mar,18 Apr-Ad inc(D'L). 7 May-ad in nest w/1 2+ wks old yng(D'L). 15 May-3 yng! 3+ wks old banded (BB).
MD-QA-68-04	lob/pine	Bryan's Church	19 Mar, 18 Apr-Empty (D'L).
MD-QA-78-01-79	pine	Bryantown, E	19 Mar, 18 Apr-Empty; 7 May-Couldn't find it (D'L).
MD-QA-73-03	pine	Bryantown, W	28 Feb-Empty. 19 Mar-Ad inc.18 Apr,7 May-Empty(D'L).
MD-QA-74-01-79	pine	Bryantown, SW	28 Feb-Gone (D'L).
MD-QA-78-03	pine	Tilgman's Neck	28 Feb-Empty. 18 Apr-Raccoon in nest. 7 May-Empty(D'L)
MD-QA-78-02	pine	Queenstown,N	28 Feb-Empty. 19 Mar, 18 Apr-Ad inc. 7 May-Empty. 19 May-One yng banded! (D'L, BB).
MD-QA-68-01	pine	$\frac{1}{2}$ mi S fr "	28 Feb,19 Mar,18 Apr, 7 May-Empty (D'L).
MD-TA-74-04	pine	Skipton Crk (Wye Heights)	28 Feb.19 Mar-Ad inc. 18 Apr-1 egg, no eagles. 7 May-Empty(D'L). Mid-May-1 egg collected for analysis(BB).
MD-TA-72-01	lob-pine	Copperville	28 Feb,19 Mar-Ad inc. 18 Apr, 7 May-Empty(D'L).
MD-TA-76-01	pine	Grubbin Neck	28 Feb,19 Mar-Ad inc.18 Apr,7 May-1 yng (D'L). 10 May-1 yng banded (BB).
MD-DO-77-03	pine	Ross Neck	28 Feb, 7 May-Falling out (D'L).
MD-DO-78-08	pine	Morris Neck	28 Feb-Empty. 19 Mar, 18 Apr-Ad inc.(D'L). 7 May-Empty, ad standing in nest(D'L).31 May-1 yng banded!
MD-DO-78-06	pine	Ravenswood Rd	19 Mar, 18 Apr-Falling out (D'L).
MD-DO-74-06	pine	El Dorado, W	28 Feb-Ad inc. 19 Mar,18 Apr, 7 May-Empty,egg shells collected (D'L, BB).
MD-DO-78-05	pine	Hog Marsh Crk	28 Feb-Empty. 19 Mar-Ad inc. 18 Apr, 7 May-Empty, egg shells collected (D'L, BB).
MD-DO-78-10	pine	Robinson's Neck	19 Mar,18 Apr, 7 May-Empty (D'L).
MD-DO-36-03	pine	Moneystamp Swamp	28 Feb-Ad inc. 19 Mar,18 Apr,7 May-Empty (D'L).
MD-DO-69-03	pine	Riggin's Cor,WNW	28 Feb,19 Mar,18 Apr,7 May-Empty (D'L).
MD-DO-75-01	dead p.	Riggin's Cor,NNW	28 Feb-Ad inc. 19 Mar-Empty, falling out. 18 Apr, 7 May-falling out(D'L).
MD-DO-75-02	pine	$\frac{1}{2}$ mi SE fr "	19 Mar,18 Apr,7 May-Empty (D'L).
MD-DO-76-01-79	pine	Golden Hill,NE	28 Feb-Gone (D'L).
MD-DO-69-04	pine	Riggin's Cor,SE	28 Feb,19 Mar, -Ad inc. 18 Apr-2 yng, 3 wks old. 7 May-2 yng (D'L). Mid-May-1 yng banded,other disappeared (BB).
MD-DO-78-04	pine	NNE fr Ref Hq	28 Feb,19 Mar-Ad inc.18 Apr-2 yng(D'L).MidMay-2yng banded (BB).
MD-DO-70-09-79	Decid	Greenbrier Swmp	28 Feb-Gone (D'L).
MD-DO-75-05	pine	Shorter's Crk Pd	28 Feb-Empty. 19 Mar,18 Apr,7 May-Falling out(D'L).
MD-DO-70-07-79	pine	Squirrel Pt Marsh	28 Feb-Falling out. 19 Mar-Gone (D'L).
MD-DO-76-03	pine	Sq.Pt.Marsh,NE	28 Feb,19 Mar-Ad inc.18 Apr,7 May-Empty(D'L).Mid-May-3 eggs buried in lining, 2 close to surface & 1 deep, collected for analysis (B.B.).
MD-DO-73-01	pine	1 mi NNE fr "	19 Mar,18 Apr,7 May-Empty (D'L).
MD-DO-77-04	dead p.	Beach Gd Swamp	28 Feb-Empty. 19 Mar,18 Apr-Ad inc.7 May-imm (1+ yr old) flew from nest (D'L). Mid May-Egg shells collected (B.B.).
MD-DO-75-04	pine	Barbados Isld	28 Feb,19 Mar,18 Apr,7 May-Empty (D'L).
MD-DO-75-03	dead p.	Sunken Isd Marsh	28 Feb-Empty,2 ad near. 19 Mar,18 Apr-Ad inc. 7 May-Ad on w/1 yng @ 2 wks(D'L).29 May-1 yng banded(BB).
MD-DO-69-06-79	pine	$\frac{1}{2}$ mi SE fr "	28 Feb,19 Mar,18 Apr,7 May-Not seen, prb gone (D'L).
MD-DO-69-07	pine	$\frac{3}{4}$ mi SE fr "	28 Feb-Empty. 19 Mar,18 Apr-Ad inc. 7 May-Ad on w/2 yng(D'L). 31 May-2 yng banded, 1 egg collected(BB).
MD-DO-77-02	pine	Goose Pond,E	28 Feb,19 Mar,18 Apr-Empty. 7 May-Falling out (D'L).
MD-DO-78-03	pine	0.1 mi SE fr "	28 Feb,19 Mar,18 Apr,7 May-Empty (D'L).
MD-DO-75-07	pine	4 mi N fr Bestpch	28 Feb-imm in nest. 19 Mar-GH Owl in nest.7 May-Emp-ty (D'L).
MD-DO-77-01	pine	Decoursey bge,S	28 Feb-Empty.19 Mar-Empty,ad near.18 Apr,7 May-Empty

MD-DO-78-09 pine Bestpitch, 2 $\frac{1}{4}$ mi N 28 Feb, 19 Mar-Ad inc. 18 Apr-2 yng. 7 May-Ad on w/2 yng (D'L). 10 May-2 yng banded (B.B.).

{ MD-DO-78-07-79 pine Chi & Transq Riv 28 Feb-Gone (D'L).

{ MD-DO-76-04-79 pine $\frac{1}{2}$ mi S fr " 28 Feb-Gone (D'L).

MD-DO-75-06 pine Parrish Pd, 2 mi NE 28 Feb, 19 Mar-Falling out. 18 Apr-Ad inc. 7 May-Empty (D'L).

MD-DO-70-05 pine Parrish Pd, 1 $\frac{1}{4}$ mi E 28 Feb, 19 Mar-Empty. 18 Apr-Ad inc. 7 May-Ad on w/1 yng (D'L). 1 Jun-2 yng banded (BB).

MD-DO-72-04 pine Savana Lake, 1 $\frac{1}{4}$ mi NW 28 Feb, 19 Mar-Ad inc. 18 Apr, 7 May-Empty (D'L).

MD-DO-78-02 pine Chic. Riv., 2 mi E 28 Feb, 19 Mar, 18 Apr, 7 May-Empty (D'L).

MD-DO-78-01 pine Henry's Xrd, $\frac{1}{2}$ mi N 28 Feb-Empty. 19 Mar, 18 Apr-Ad inc. 7 May-Empty (D'L).

MD-DO-76-05 pine Long Pt, 1 $\frac{1}{2}$ mi NW 28 Feb, 19 Mar, 18 Apr-Empty. 7 May-RT Hawk inc (D'L).

MD-DO-73-02 pine $\frac{1}{4}$ mi E fr " 19 Mar, 18 Apr-Empty. 7 May-Falling out (D'L).

MD-WI-78-02 pine Sharptwn, 1 $\frac{1}{4}$ mi NE 28 Feb, 19 Mar-Ad inc. 18 Apr-1 yng. 7 May-Ad on w/2 yng (D'L). 16 May-2 yng banded (BB).

MD-WI-78-01 pine Point-no-point 28 Feb, 19 Mar, 18 Apr, 7 May-Empty (D'L).

MD-WI-77-01 pine Royal Oak, 2 $\frac{1}{2}$ mi SE 28 Feb-Pr ad in nest in inc posture. 19 Mar-Ad inc. 18 Apr, 7 May-Empty (D'L).

MD-SO-76-01 pine 1 mi NE fr Wigeon 18 Apr-Ad inc. 7 May-Ad on w/1 yng (D'L). 1 Jun-1 yng banded (BB).

MD-SO-77-01 pine $\frac{1}{2}$ mi N fr Oriole 28 Feb, 19 Mar, 18 Apr, 7 May-Empty (D'L).

{ MD-WO-68-03 pine Cypress swamp 28 Feb-Ad inc. 19 Mar-Empty. 18 Apr-Empty, pr ad near. 7 May-Empty (D'L).

{ MD-WO-68-04 pine $\frac{1}{4}$ mi SE fr " 28 Feb, 19 Mar, 18 Apr, 7 May-Empty (D'L).

MD-WO-78-01 pine Shad Ldg, 1 $\frac{1}{4}$ mi SW 28 Feb, 19 Mar-Ad inc. 18 Apr-Empty (D'L).

Observers:

JA = Jackson Abbott, Aud Nat Soc
 BB = Buck Bradley, climber/bander, Nat'l Wildlife Fed
 BC = Bill Clark, banding team chief, Nat Wild Fed
 D'L = Ken D'Loughy, Md State F & W
 GT = Gary Taylor, Md State F & W
 Stover = Greg Stover, pilot, Md State F & W

{ = nests belonging to same pair

Table IV. Results of analysis of 3 bald eagle eggs collected after failing to hatch

Analysis: Made at the Patuxent Wildlife Research Center by the lab for Environmental Residue Chemistry under project leader W.L. Reichel. Interpretive comments made by Stanley N. Wiemeyer, Research Biologist, Terrestrial Ecology Project.

Results: Parts per million (ppm) corrected wet weight. Lower limit of reportable residues before correction for dehydration: 0.05 ppm for organochlorines and 0.02 ppm for mercury. - = none detected.

Compound	Egg fr nest on Mason Neck, Fairfax Co., Va	Egg fr nest at Romancoke, K.Wm. Co., Va.	Egg fr nest at Wye Hgts., Talbot Co., Md.
	<u>1979 egg/1977 egg</u>	<u>1979 egg</u>	<u>1979 egg</u>
p,p' - DDE	16.0/26.0	7.4	3.3
p,p' - DDD	1.8/3.7	0.65	0.21
p,p' - DDT	0/0.05	-	-
Dieldrin	1.9/2.8	0.53	0.50
Heptachlor epoxide	0.22/0.25	0.13	-
Oxychlordane	0.26/0.34	0.15	0.06
cis-Chlordane	2.1/3.6	0.37	0.15
trans-Nonachlor	2.7/1.9	0.99	0.27
cis-Nonachlor	1.1/1.5	0.23	-
Endrin	-/-	-	-
Est. Toxaphene	-/-	-	-
Hexachlorobenzene	0.06/0.26	-	-
Mirex	0.14/ -	0.45	-
Est. PCB	81/218	34.00	5.7
Kepone	0.05/ -	0.25	-
Mercury	0.09/na	0.17	0.06

na = not analyzed

Comments: Contaminant levels of the 1979 Mason Neck egg were quite high; it is surprising that this nest was productive in 1979 (a second egg hatched and the yng fledged). Assuming little intra-clutch variation in contaminant levels, these levels should have been high enough to cause reproductive failure.

The contaminant levels in the 1977 Mason Neck egg were obviously much higher than in 1979. The 1977 female apparently died later as the mate had a young (some brown feathers in the head) female in the 1978 season and her 1978 egg hatched.

The contaminant levels in the Romancoke egg were among the lowest for any Va. egg analyzed thru 1979. Based on current evidence, such high DDE levels might be adequate to cause a depression of reproductive success for a population to or below the stability level of 0.7 yng/active nest.

Contaminant levels in the Wye Hgts egg were quite low and should not have had any appreciable adverse effect on hatching success. This nest successfully produced 1 or 2 yng in the previous 4 years, so some other factor may have caused abandonment.

Mercury levels in all eggs were low and should have had no adverse impact on reproductive success.