JAN 01 1986

JAN 1988 - DESTROY SECNAVINST 5215.5B, Part 11, Chap 1 Par 11010(1)(b) RETENTION - 2 YEARS



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UNITED STATES MAI Marine Corps Camp Lejeune, North Caro

> 6280 FAC AUG 1 4 1987

MEMORANDUM FOR RECORD

Subj: ENVIRONMENTAL AGENCY REVIEW OF THE PROPOSED MECHANIZED MOVEMENT COURSE AND THE GLO EXPANSION

- 1. On 4 August 1987, representatives of the U.S. Corps of Engineers Wilmington District, North Carolina Divisions of Environmental Management, Land Quality and Coastal Management, met with 2d Marine Division and Marine Corps Base staff to review the subject projects. The purpose of the meeting was to brief these external agencies and to conduct a site visit regarding the project's scope and the environmental impacts.
- 2. An outbriefing was conducted which brought forth the following significant issues:
- A. Due to an extensive amount of disturbance to the shoreline and erosion prone areas, the lack of erosion control of existing property created an adverse image with the agencies of the base's environmental protection commitment which will affect their review of the current proposal.
- B. The future commitment to road maintenance, tank trail maintenance and erosion control should be made by Camp Lejeune in the training and range projects.
- C. More detailed wetlands identification is needed prior to applying for a Corps of Engineers permit.
- D. Wetlands soils, which will be seasonably flooded and requiring drainage measures, should also be included in the project design.
- E. Secondary impacts must also be considered in a well thoughtout environmental document. These secondary impacts include the potential effects on New River water quality and use of New River by fishermen.
- F. Agency review by Federal agencies such as the Fish and Wildlife Service will be completed by both the Ecological Services group in Raleigh and the Endangered Species group in Asheville; by the National Marine Fisheries Service and the Environmental Protection Agency. EPA retains the ultimate approval authority on wetlands permits. State agency review will be coordinated by the NC Division of Coastal Management.

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UNITED STATES MARINE CORPS

Marine Corps Base

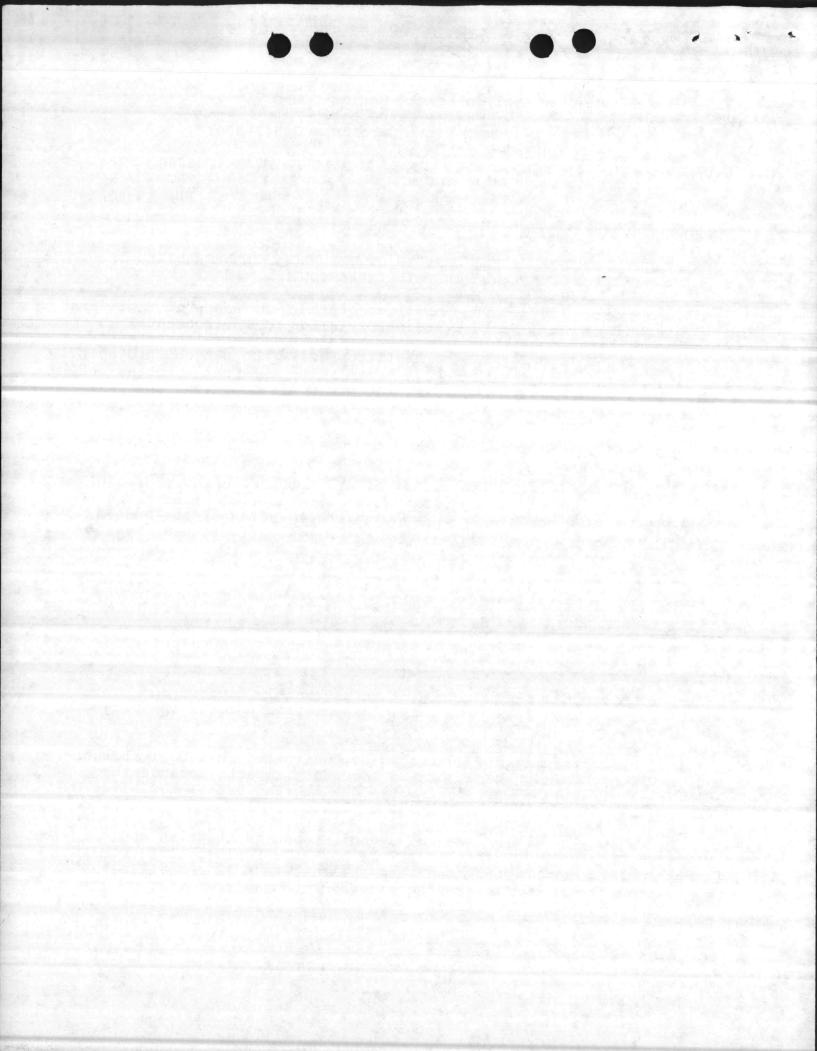
Camp Lejeune, North Carolina 28542-5001

6280 FAC AUG 1 4 1987

MEMORANDUM FOR RECORD

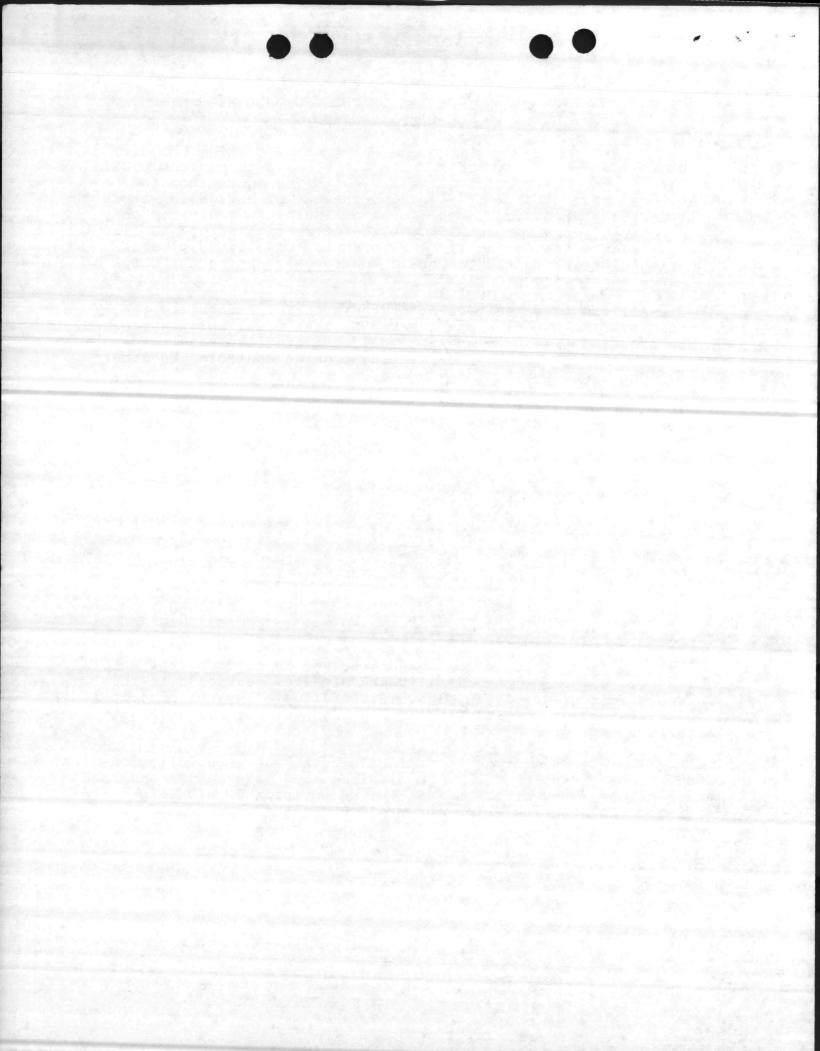
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Subj: ENVIRONMENTAL AGENCY REVIEW OF THE PROPOSED MECHANIZED MOVEMENT COURSE IN THE G10 EXPANSION

- G. All agencies present encouraged the Base to conduct public information efforts regarding the project. The concer for the project being located in or affecting the use of navigable waters was repeatedly emphasized. The Corps of Engineers indicated they would rather the Base conduct a public information effort to find out public concerns during the environmental assessment process rather than trying to face a public controversy during the Corps of Engineers permitting process.
- H. All the agencies present at the outbrief recognized the adverse impacts at Duck Creek created by tank trail maintenance and bridge crossing site. Colonel Dalzell committed the Base to correcting this problem by instituting erosion controls and other corrections as needed.
- I. The continuing problem of communicating environmental precautions to a rapidly changing population of military equipment operators and unit commanders was discussed. The environmental agencies recommended some type of environmental handout to be given wide circulation.
- J. The concern for splash points was mentioned by all the agencies. Specifically, a formal design for the splash points was suggested by the agencies as means to prevent future maintenance and erosion problems.
- K. The recommendation was made by the Corps of Engineers to have a consultant design the road network and to include erosion control, drainage and the maintenance plan for submission with our proposal for the wetlands permit.
- L. Archaeological issues were discussed in terms of the Base's response to determine the significance of sites mentioned in the draft historic preservation plan. Sites affected by the project must be tested for possible listing in the National Register of Historic Places.
- M. The NC Division of Coastal Management was especially concerned about non-point source runoff from road maintenance and road construction. They stressed that the NC Division of Wildlife Resources would be reviewing our project for the impact on pocossins.



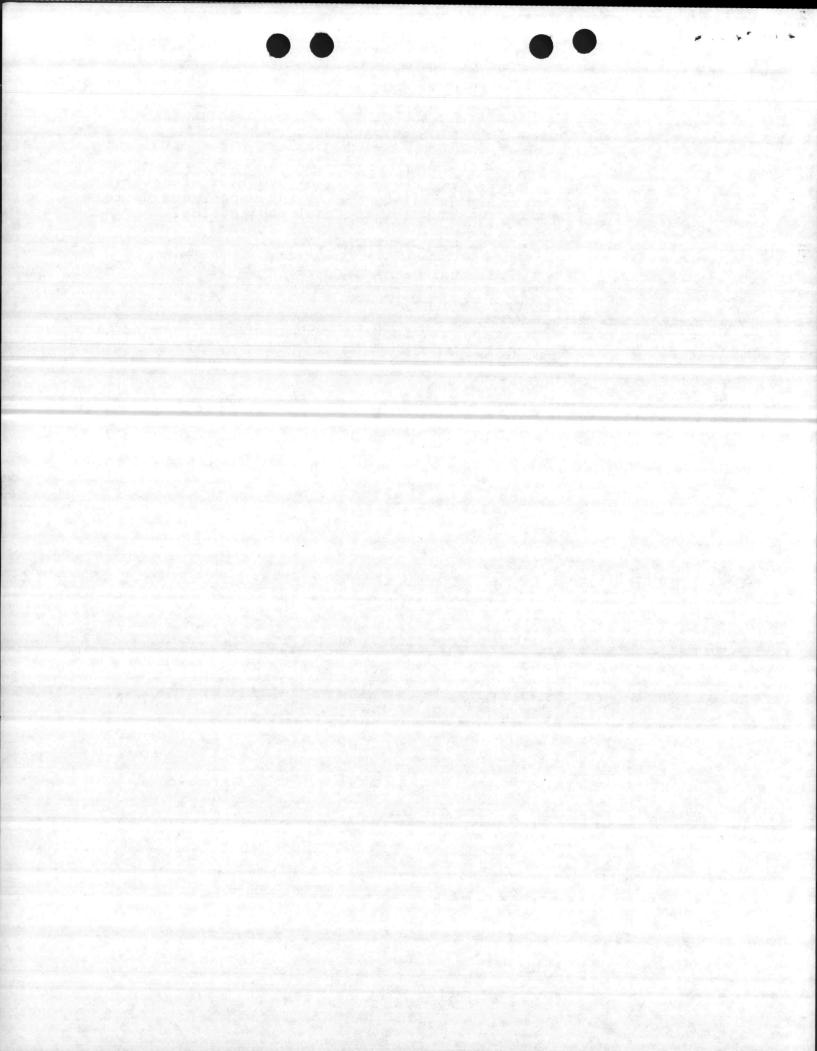
Subj: ENVIRONMENTAL AGENCY REVIEW OF THE PROPOSED MECHANIZED MOVEMENT COURSE IN THE G10 EXPANSION

N. All agencies encouraged us to maintain contact with their offices during the process of writing the EA and encouraged us to solicit their review of the EA prior to final publication.

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T. Dalsell
T. Dalzell

Copy to:
AC/S Trng & Ops
SJA
NREAD
FacMgmtO
EnvEngr
2d MarDiv (G-3)
2d MarDiv (G-4)
2d MarDiv (10th Mar)
2d MarDiv (CEB)
2d MarDiv (2d Tk Bn)



AND Peter - Jones Copy

UNITED STATES MARINE CORPS

Marine Corps Base

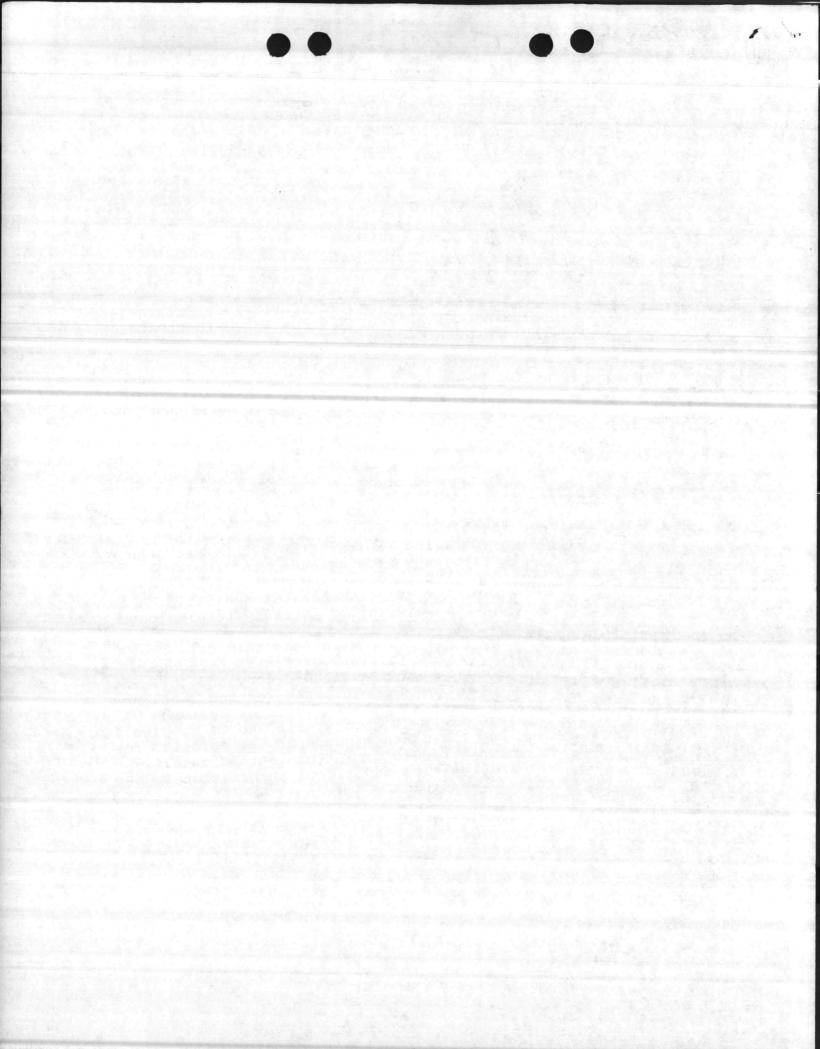
Camp Lejeune, North Carolina 28542-5001

6280 FAC AUG 1 4 1987

MEMORANDUM FOR THE RECORD

Subj: MEETING WITH U.S. FISH AND WILDLIFE SERVICE REPRESENTATIVES REGARDING ENVIRONMENTAL ASSESSMENTS FOR THE G-10 EXPANSION AND MECHANIZED MANEUVER COURSE

- 1. On 7 August 1987, Mr. Gary Henry of the Asheville office of the U.S. Fish and Wildlife Service met with the Marine Corps Base and 2d Marine Division staff to review the impact of the subject projects on the red-cockaded woodpecker habitat. During the meeting of 6 and 7 August, Mr. Henry was briefed regarding the scope of the project and provided the project information folders. He was given a site visit of the colonies immediately south of the G-10 impact area and provided the detailed timber stand data collected by NREAD.
- 2. Mr. Henry reviewed the detailed timber data along with information on the colony foraging habitat provided by Mr. John Hammond of NC State University who also attended the reviews. An analysis of the habitat for each colony affected by these projects was completed which examined the existing habitat available in terms of the quality of that habitat in detailed forestry terminology.
- 3. During the outbrief, Mr. Henry stressed that this data should be reformatted according to a process explained to NREA personnel. He stated that as a minimum, Base must leave the colony and foraging areas available for the birds in the G-10 expansion and a balance must be determined between the acreage that is required to be cleared for visibility into the G-10 impact area and to be cleared for mechanized movement and the minimum needs of the colonies for foraging habitat. He volunteered to assist us in this detailed analysis and the NREAD is preparing additional information to be submitted in the next two weeks.
- 4. Upon completion of the review of the revised data by the U.S. Fish and Wildlife Service, Mr. Henry will provide us his opinion regarding the impacts of the project as currently planned on the red



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cockaded woodpecker. His opinion is likely to be rendered sometime in late September and will include guidance on any alternative measures (such as clearing/thinning different stands) to reduce adverse impacts to a tolerable level.

T. A. Dolgan T. Dalzell

Copy to:

AC/S TRNG & OPS

SJA

NREAD

Fac MgmtO

Envengr

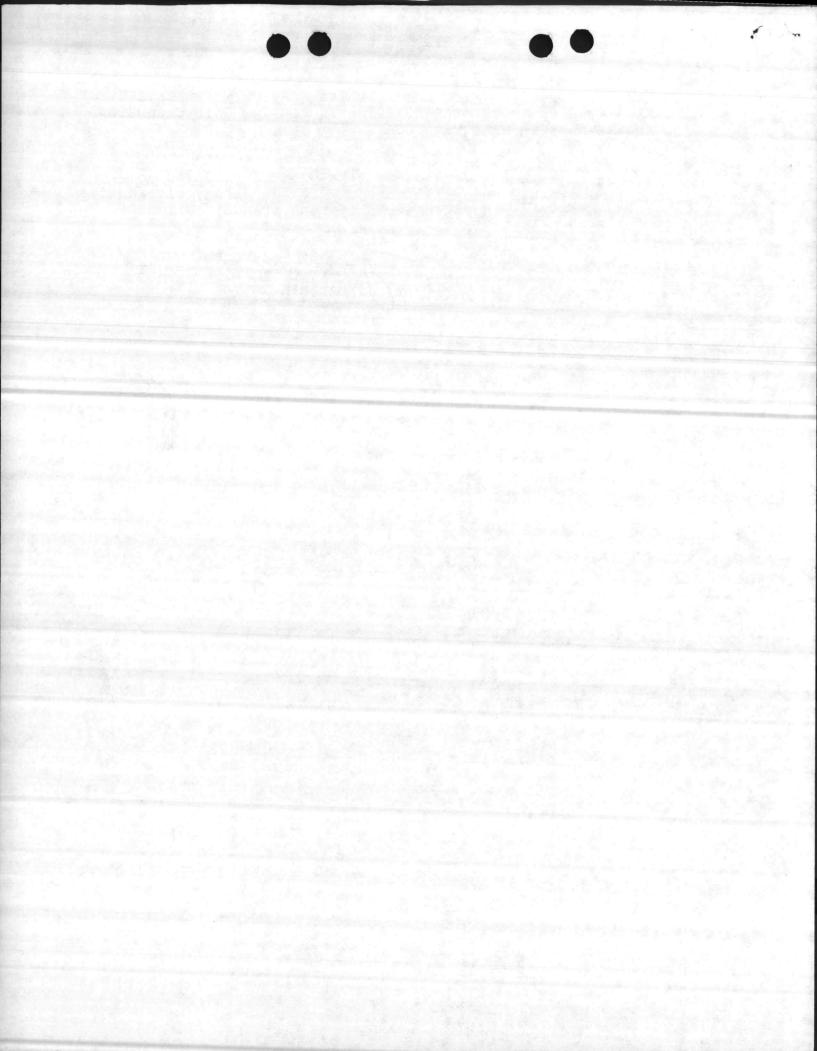
2d MarDiv (G-3)

2d MarDiv (G-4)

2d MarDiv (10th Mar)

2d MarDiv (CEB)

2d MarDiv (2d Tk Bn)



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UNITED STATES MARINE CORPS MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542-5001

IN REPLY REFER TO:

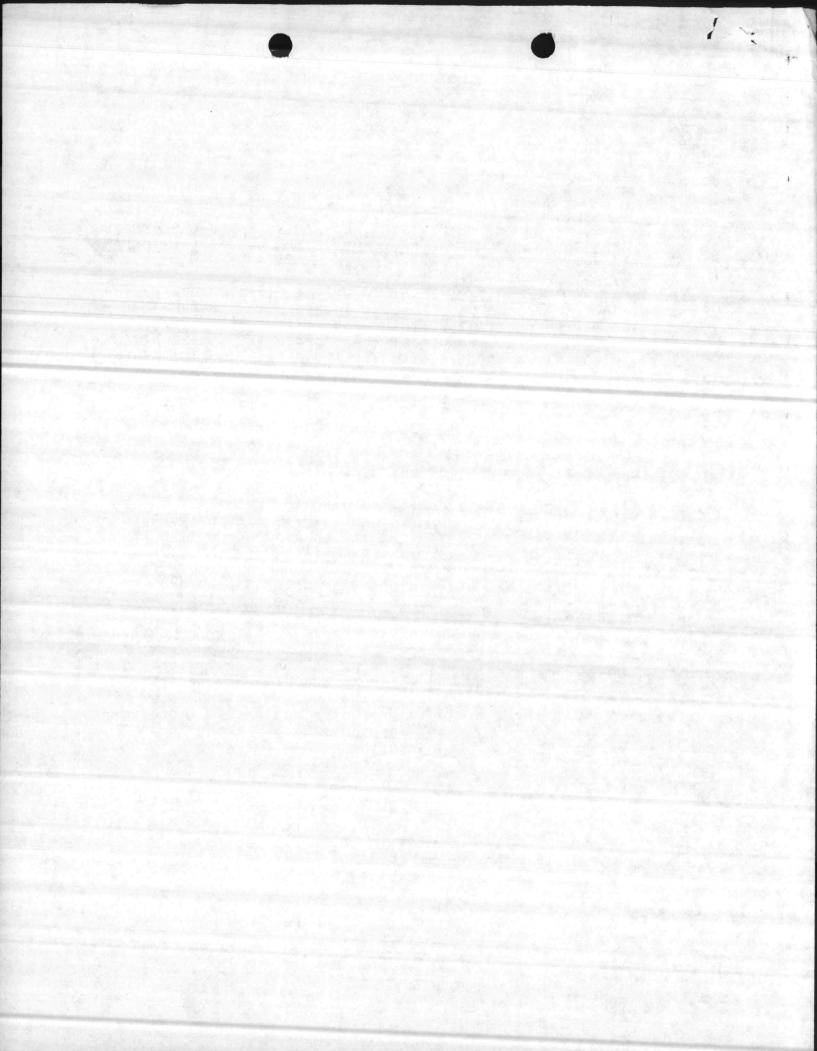
6280 FAC JUL 17 1987

MEMORANDUM FOR RECORD

Subj: MEETING OF 2D MARINE DIVISION AND MARINE CORPS BASE STAFF REGARDING ENVIRONMENTAL ASSESSMENTS FOR G-10 EXPANSION AND MECHANIZED MANEUVER COURSE (MMC)

- 1. On 14 July, representatives of 2d Marine Division and Marine Corps Base met to review the progress in preparing the subject EA. The purpose of the meeting was to up-date all concerned on the scope and environmental impacts of these projects. The meeting was held in anticipation of a site visit and briefing for State and Federal environmental agencies who will be requested to comment on the EA.
- 2. A briefing of the projects was followed by comments and questions leading to the conclusion that the major issues involved in the G-10 expansion are endangered species and timber clearing. An EA package for each project was provided to each attendee. Each package addressed purpose, need, description and alternatives. Each package contained graphic exhibits. The EA package for the MMC requires refinement of the alternatives to include the matrix. The 2d Tank Battalion will accomplish the refinement of the MMC package. The major issues with the MMC are wetlands and timber clearing. The selective use of demolitions for stump removal in the MMC was discussed in areas where land clearing is proposed.
- 3. Development of separate EA's was recommended for the G-10 and the MMC. A tentative date during the week of 10 August was selected for briefing external agencies and on-site visits. This briefing will introduce the agencies to the broad scope of training issues at Camp Lejeune, including future land acquisition, with these projects presented as interim improvements to existing facilities. Agency input during and after the briefing will be incorporated into these EA's for review by Base and Headquarters staff.

Colonel V. S. Marine Corps
Assistant Chief of Staff, Facilities
Marine Corps Base

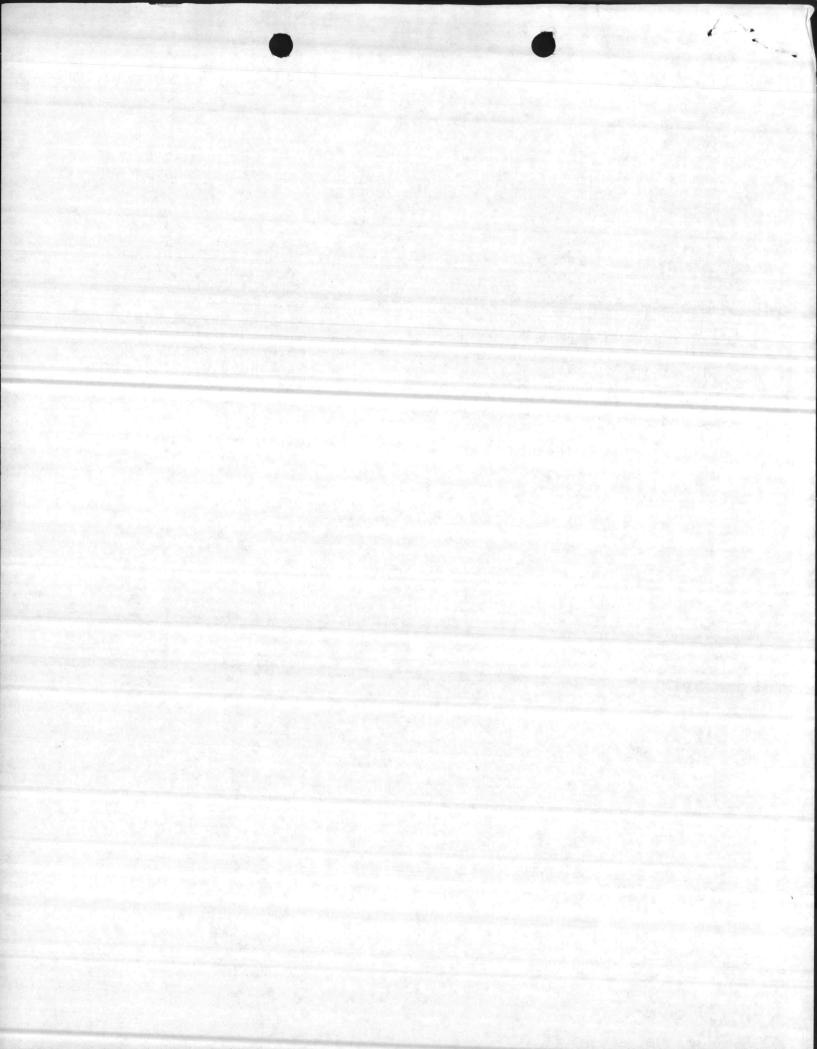


Subj: MEETING OF 2D MARINE DIVISION AND MARINE CORPS BASE STAFF REGARDING ENVIRONMENTAL ASSESSMENTS FOR G-10 EXPANSION AND MECHANIZED MANEUVER COURSE (MMC)

Meeting Attendees
Col. Speicher, AC/S Trng/Ops, MCB
Col. McGowan, G-3, 2dMarDiv
Col. Way, CO, 10th Marines
Col. Marcentel, G-4, 2dMarDiv
Col. Tokarz, SJA, MCB
LTC Foore, 2dMarDiv
LTC Sherrel, CO, 2dTkBn
LTC Blair, XO, 10th Marines
LTC Buckner, Range Control Off, MCB
LTC Kiriacopoulos, Facilities, MCB
LTC Marapoti, CO, 2d CEB
Maj. Johnson, 2dTkBn
Cpt. Matthews, 10th Marines

Cpt. Reuter, 2dMarDivEngr Cpt. Dougherty, OSJA, MCB Lt. Kline, 2dMarDiv CWO Moon, 2dMarDiv Mr. Wooten, NREAD, MCB Mr. Black, NREAD, MCB Mr. Peterson, NREAD, MCB Mr. Alexander, EnvEngr, MCB

Copy to:
AC/S Trng&Ops
SJA
NREAD
FacMgtO
EnvrEngr
G-3, 2dMarDiv
G-4, 2dMarDiv
10thMar, 2dMarDiv
2d CEB, 2dMarDiv
2d TankBn, 2dMarDiv



12 August 1987

FAC : Ca. DALERE, Bob, Capt Dockerry (STA)

ZMARON: LT. CLINE,

10 MARINES: Capt. MATTHEWS

2. Combas ENG: W.O. MOON, Mal. Rizarchok

TEAMING: LT. COL. BUCKNEY (BASE), LT. COL. MARTELLO (EMARON)

ZTANK BATT:

Ca DALZELL

"Somber visit"

COE -: concerned with current state of trug. AREA.

(make a commutament to correct)

: correct prob. peror to considering EA for more

Bob : PWO - Contenet to develope bridge crossing (thorough PWO)

(should help approval from other agencies)

Pete

JEOPARDY OFINION ON G-10 PROPOSAL 16 Judgement ON MINIC PROPOSAL

Bob

REAL Property facilities Manual (Appendix D) (Copies to mores, mer. & 2 combat eng. s. Look eniecy or me necessarives roe both projects

2 Existing Environment

Reree to improvements of MINIC instead of development of MINIC (Beb)

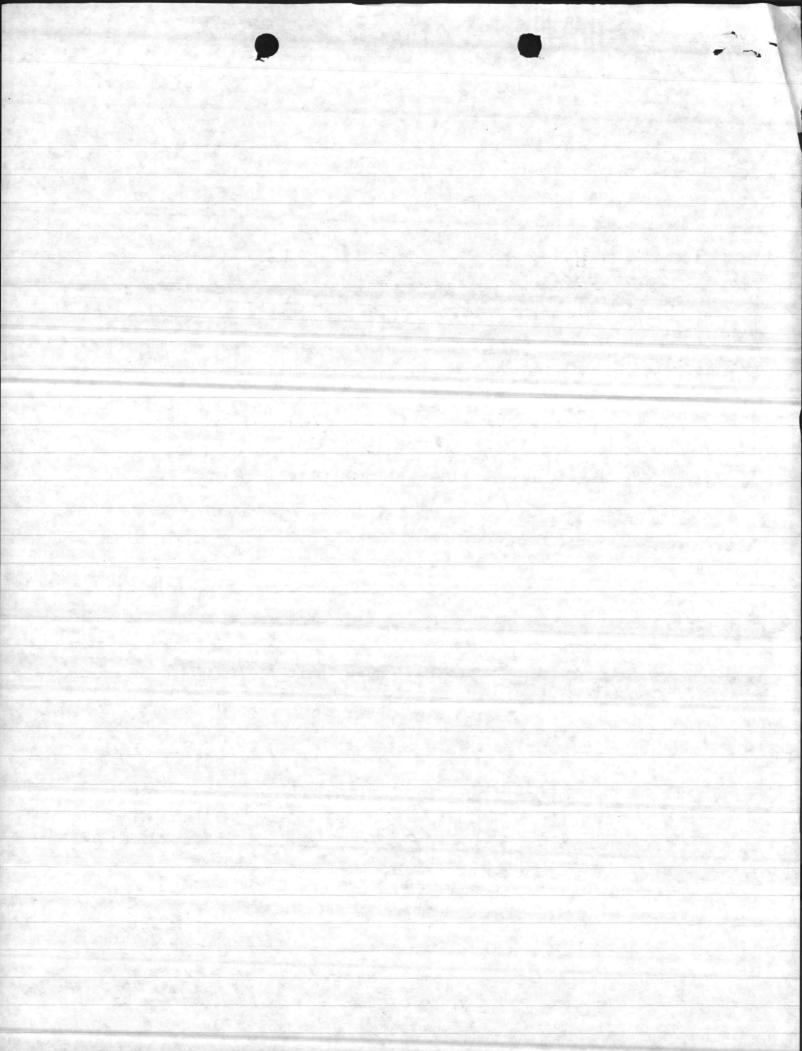
3. Environmental Expects; erosion, RCW, RIVER, Noise (etc.)

4. Manus to "mirrigate"

LT. COC. BUCKNER

Land acq. will have impact on G-10 expansion. Weaken position to mention land acquisition and G-10 regerner. We weed to really explain the need in great detail too G-10 expansion

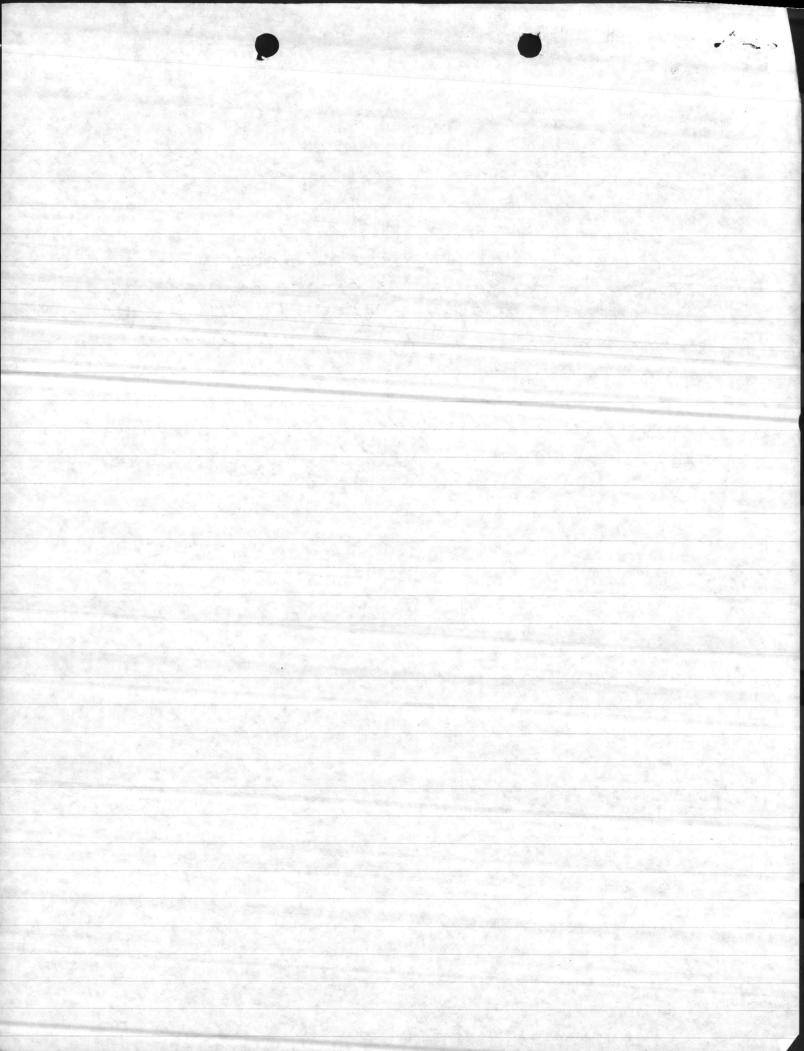
I teld there about the timber harvesting 3.5 : 1.1 years to complete and effects on economy (timber), local marker, Onslow County, the companies.



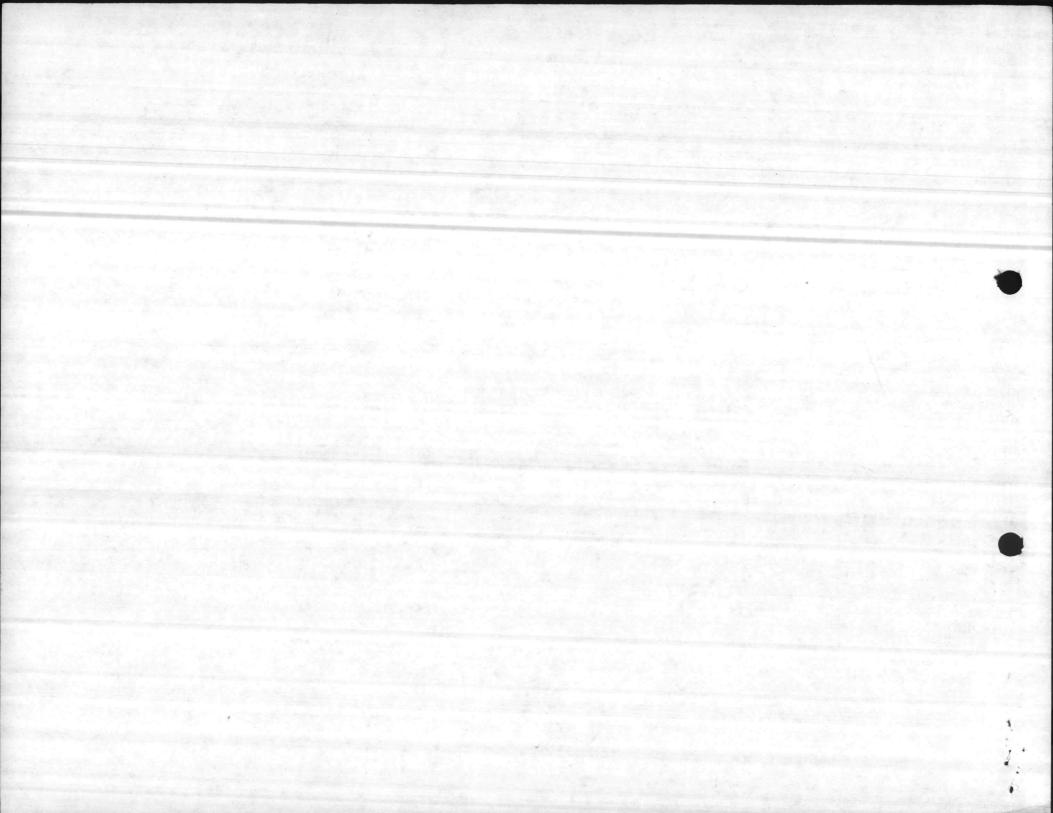
Soviet steering point will be addressed with a separate

Toris Ce. Beidge: Peasect Pean showing existing condition and expected condition. Division will do plan and work or re-shaping the site and placeing beidge. Time eequieement because of nursery waters? Can put bridge in and take out later if there is a restriction.

COL DALZELL WANTS to discuss timber aspects of G-10 FrAMC.



Harric 30-45 days



11000/2 NREAD 26 Jun 87 From: Director, Natural Resources and Environmental Affairs Division, Marine Corps Base, Camp Lejeune Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune G-10 IMPACT AREA ENLARGEMENT AND MECHANIZED MOVEMENT COURSE (a) BO 11000.1B (1) Existing Red-Cockaded Woodpecker habitat data for the G-10 Impact Area Enlargement (2) Existing Red-Cockaded Woodpecker habitat data for the Mechanized Movement Course (3) Location Map (4) Expected Red-Cockaded Woodpecker habitat data following implementation of the G-10 Impact Area Enlargement Project (5) Expected Red-Cockaded Woodpecker habitat data following implementation of the Mechanized Movement Course Project 1. During a meeting between Assistant Chief of Staff, Facilities, Environmental Engineer, 2D Marine Division, and Natural Resources and Environmental Affairs Division personnel on 22 September 1986, NREAD was tasked with the coordination, collection, and compilation of the existing Red-Cockaded Woodpecker habitat condition data and the formulation of expected habitat condition after subject projects implementation. That work was accomplished in January 1987. 2. On 27 May 1987, during a meeting between Assistant Chief of Staff, Facilities, Staff Judge Advocate representatives, Environmental Engineer, 2d Marine Division and NREAD representatives, NREAD was requested to modify the January data mentioned above based on new information provided by LtCol Marapoti, 2d Combat Engineers. That assignment has been accomplished and the product is provided as enclosures (1) - (5) for use by the 2d Combat Engineers, and the Environmental Engineer's use in preparation of Environmental Impact assessment (EIA) for the subject project. 3. It is recommended Mr. Gary Henry, U.S. Fish and Wildlife Service be invited to Camp Lejeune to review the proposed project as soon as the EIA is drafted. On 3 June 1987, Mr. Henry advised by telephone he could visit the base upon two-week notice, if base could fund his trip. J. I. WOOTEN

To:

Subi:

Ref:

Encl:

SUBMISSION

OF FIRST ASE



11000/2 NREAD 26 Jun 87

From: Director, Natural Resources and Environmental Affairs

Division, Marine Corps Base, Camp Lejeune

To: Assistant Chief of Staff, Pacilities, Marine Corps Base,

Camp Lejeune

Subj: G-10 IMPACT AREA ENLARGEMENT AND MECHANIZED MOVEMENT COURSE

Ref: (a) BO 11000.1B

Encl: (1) Existing Red-Cockaded Woodpecker habitat data for the G-10 Impact Area Enlargement

(2) Existing Red-Cockaded Woodpecker habitat data for the

Mechanized Movement Course

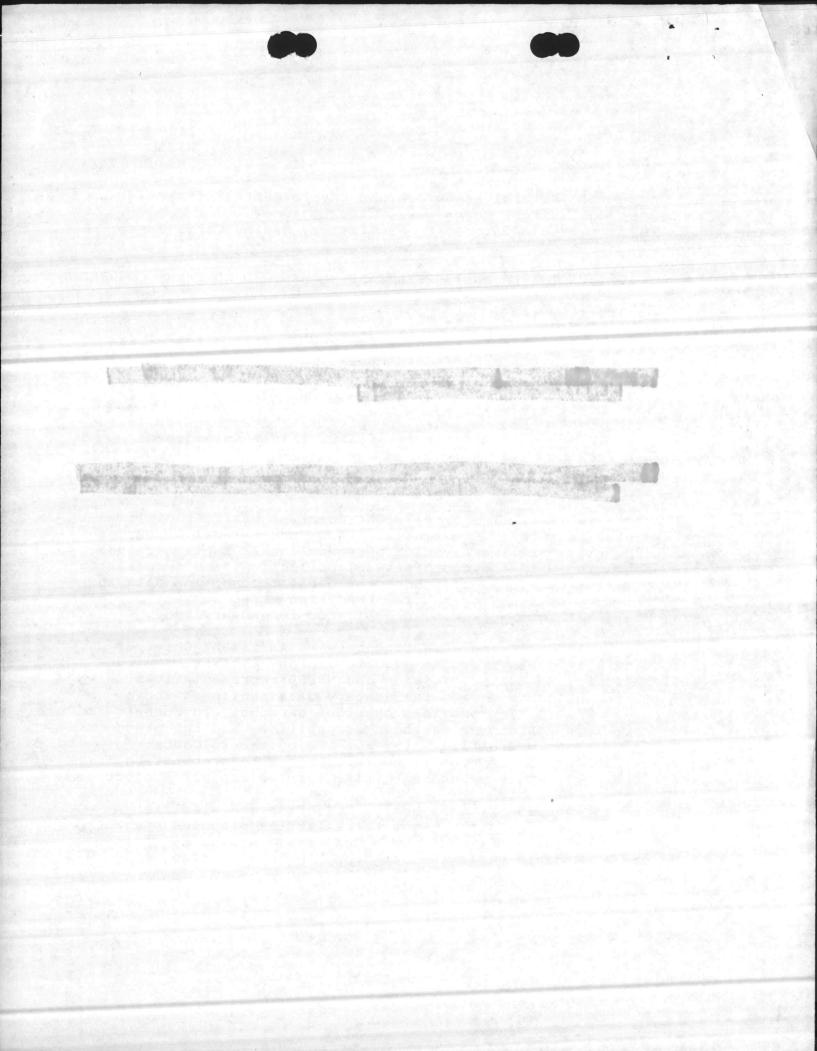
(3) Location Map

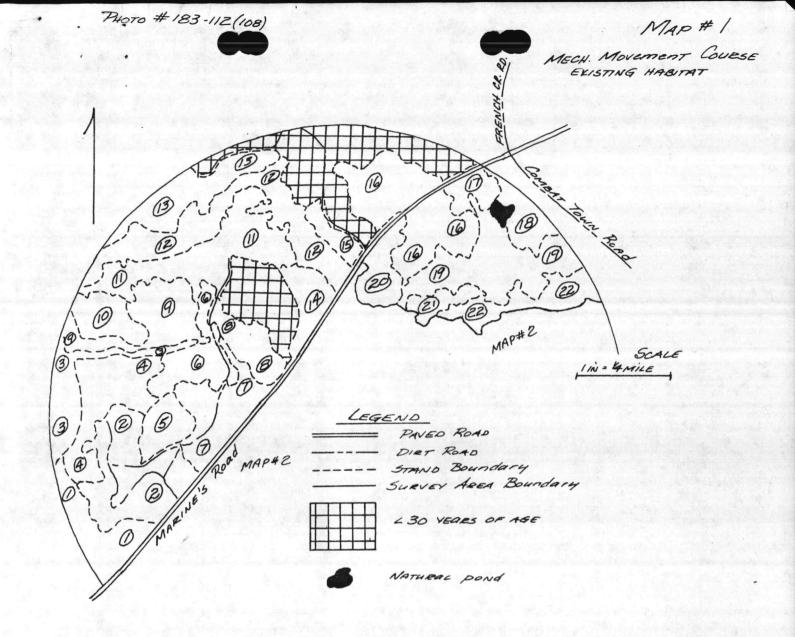
(4) Expected Red-Cockaded Woodpecker habitat data following implementation of the G-10 Impact Area Enlargement Project

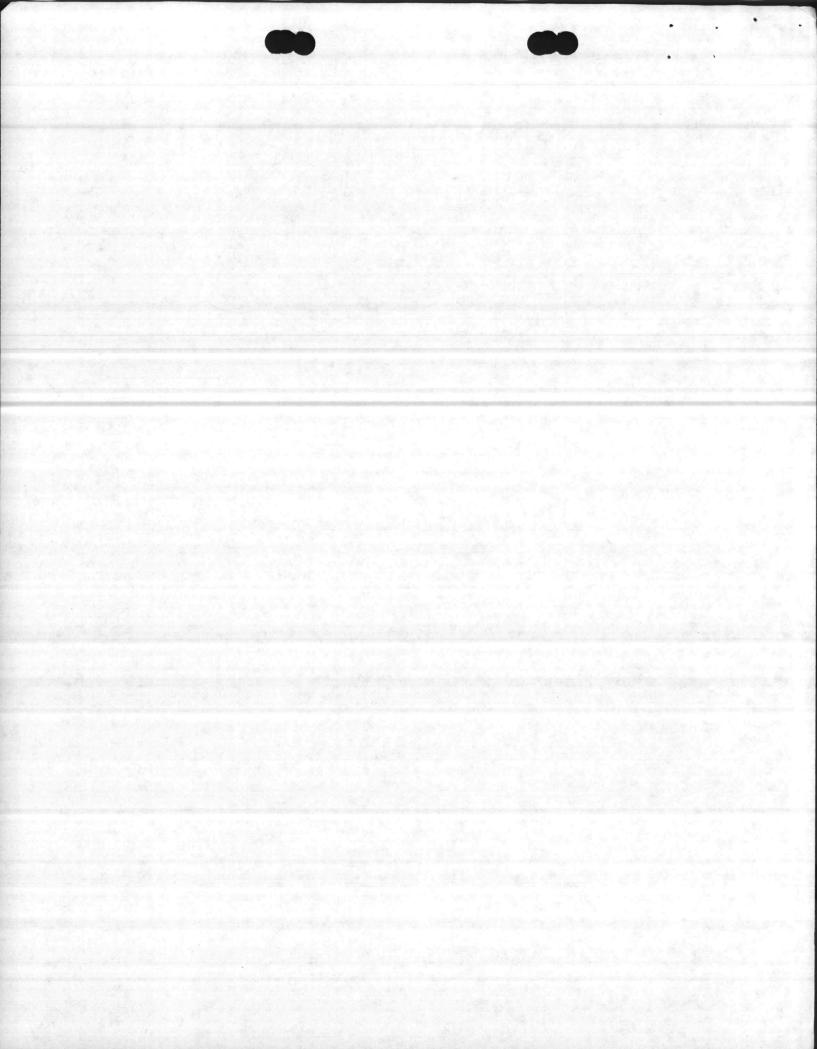
(5) Expected Red-Cockaded Woodpecker habitat data following implementation of the Mechanized Movement Course Project

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SUBMISSION E OF AND USFEWS









MECHANIZED MOVEMENT COURSE EXISTING HABITAT

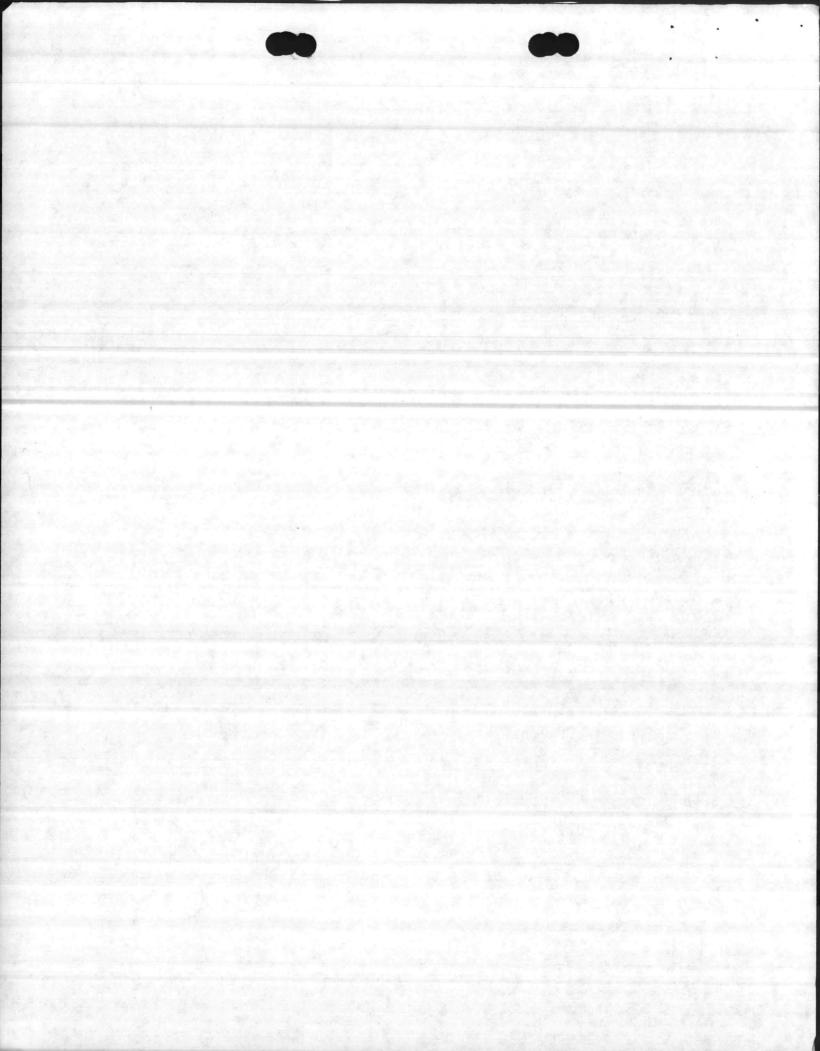
MAP #1 [Photo 183-112(108)]

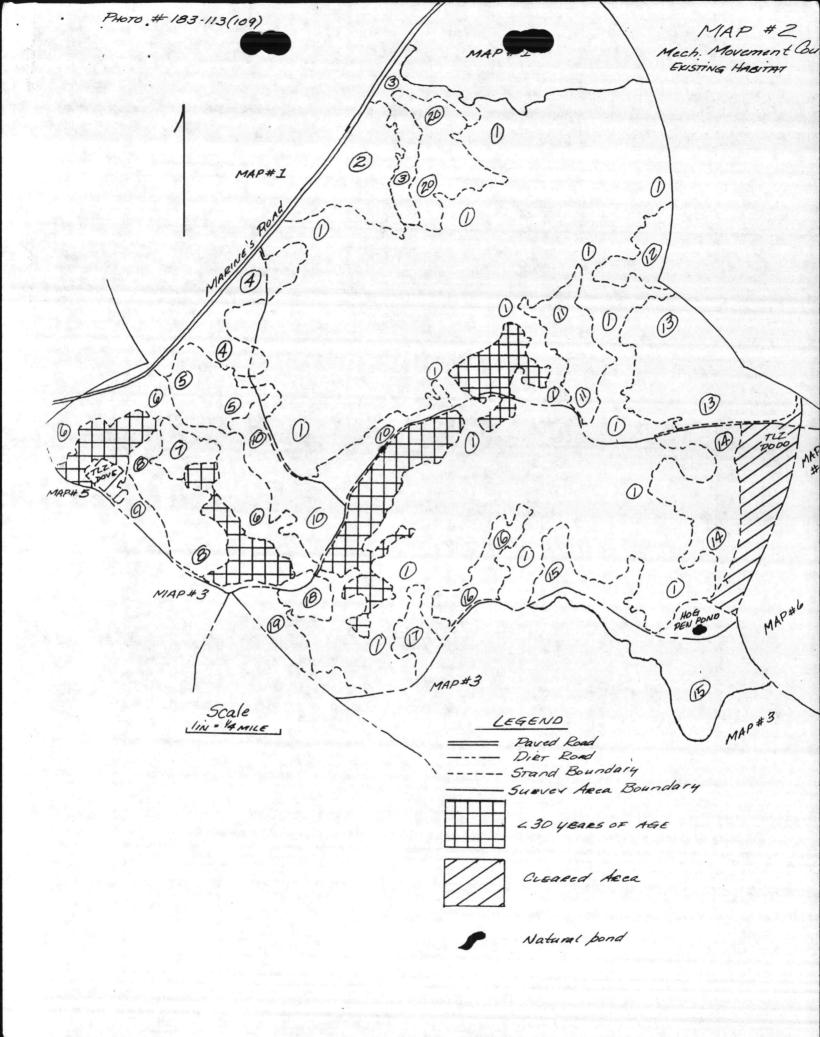
STD #	FOREST TYPE	ACRES	AGE	BA/ACRE PINE	TOTAL PINE STEMS/ACRE	TOTAL PINE STEMS > 10"/AC
					450	60
1	0300	18	53	80	450	60
2	0100	36	51	46	202	44
3	1912	15	103	5	5	5
4	0319	24	70	48	163	45
5	1900	9	30	0	0	0
6	0301	17	88	55	615	40
7	0103	24	44	70	336	30
8	1900	13	47	0	0	0
9	0319	22	68	63	80	63
10	0314	12	90	37	43	40
11	0300	34	75	76	70	55
12	1918	38	60	0	0	.0
13	0300	21	63	77	95	60
14	0300	12	64	45	80	45
15	0300	5	73	65	70	50
16	0403	39	53	69	164	52
17	0400	7	53	75	95	45
18	0104	12	56	100	230	45
19	0400	34	40	10	20	5
20	0304	11	46	50	605	5
21	0400	6	51	40	120	20
22	0100	16	58	55	175	40
22	0100	10	30	33	1,7	
	years old	67				
Pres	ently red	0				

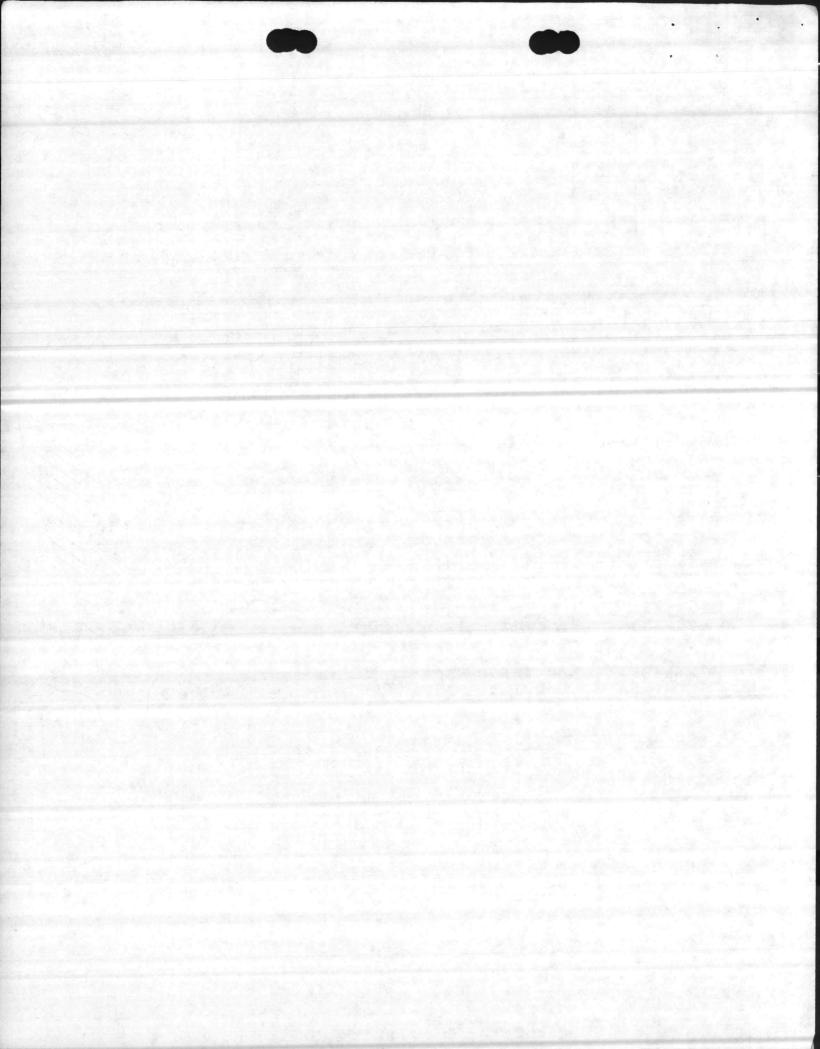
FOREST TYPE CODES (4 Digits)

PI	NE	HAI	RDWOODS
01	Longleaf		Poplar
02	Slash	12	Sweetgum
03	Loblolly	13	White Oak
04	Pond	14	Red Oak
05	Shortleaf	15	Scrub Oak
06	Cypress	16	Beech
		17	Maple
		18	Blackgum
			Misc

0000 Non-Forested 00 Filler









MECHANIZED MOVEMENT COURSE EXISTING HABITAT

MAP #2 [Photo 183-113(109)]

STD #	FOREST TYPE	ACRES	AGE	BA/ACRE PINE	TOTAL PINE STEMS/ACRE	TOTAL PINE STEMS>10"/AC
1	0419	622	45	30	148	9
2	0103	31	54	73	177	47
3	1719	20	37	0	10	0
4	0103	28	43	17	57	20
5	0400	22	56	30	80	10
6	1719	45	66	23	23	17
6 7	0103	9	56	60	170	40
8	0419	28	64	45	110	30
9	0100	7	57	53	80	50
10	0100	46	51	65	228	46
11	0100	24	55	45	135	40
12	0100	14	68	55	100	90
13	0100	62	57	50	140	50
14	0401	34	131	10	20	10
15	0100	69	58	55	210	15
16	0100	17	64	60	180	30
17	0100	14	119	50	90	50
18	0100	8	56	60	410	0
19	0100	17	47	85	210	40
20	0100	28	101	65	270	30
	years old	95				
clea		39				

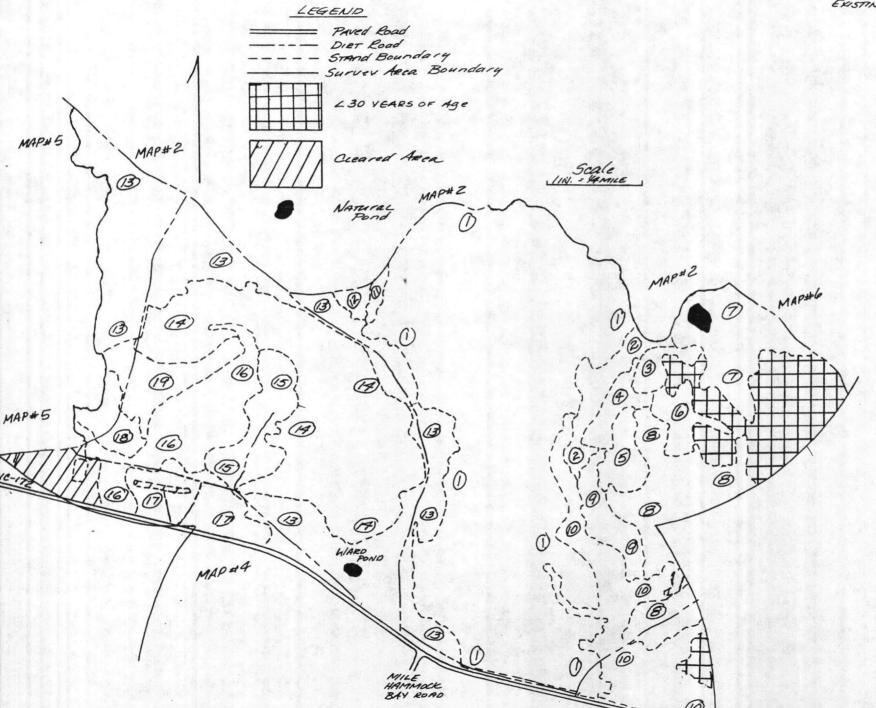
FOREST TYPE CODES (4 Digits)

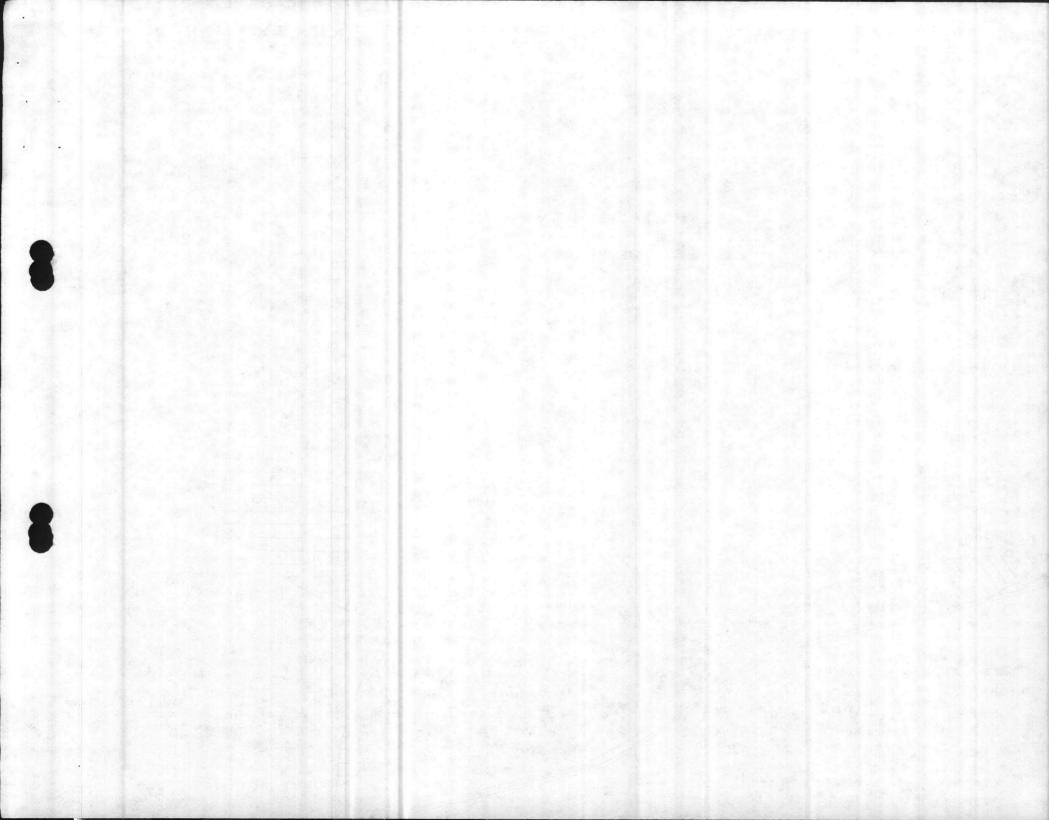
PI	NE	HA	RDWOODS
01	Longleaf	11	Poplar
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03	Loblolly	13	White Oak
04	Pond	14	Red Oak
05	Shortleaf	15	Scrub Oak
06	Cypress	16	Beech
	Section 18 Section 48	17	Maple
		18	Blackgum
		19	Misc

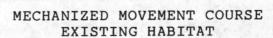
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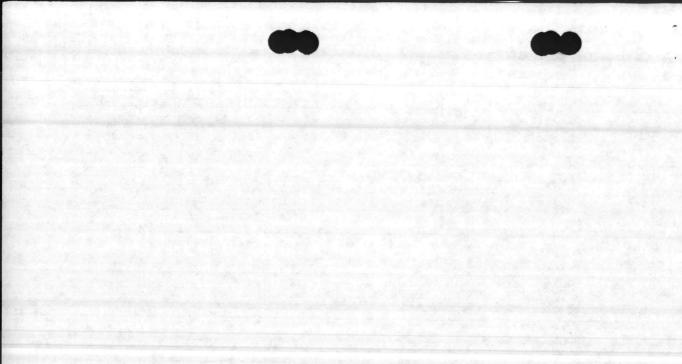


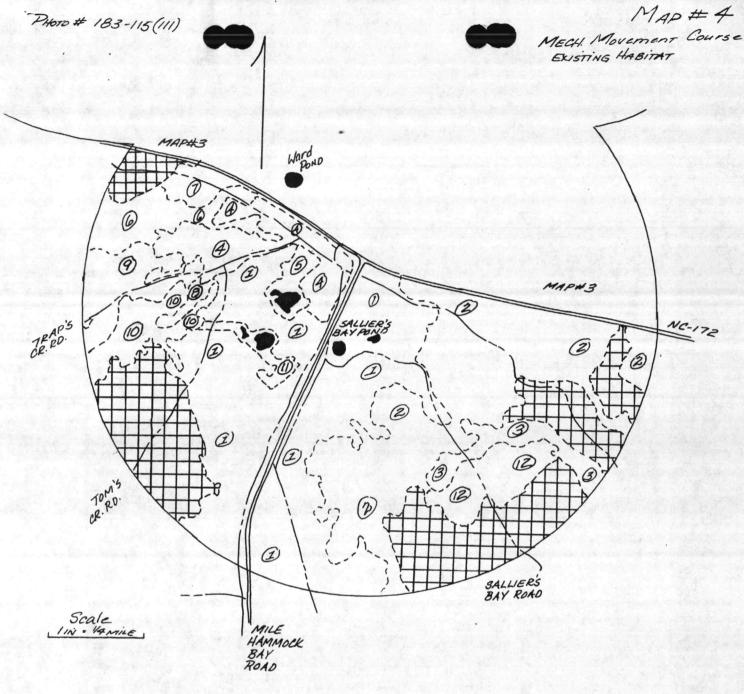
MAP #3 [Photo 183-114(110)]

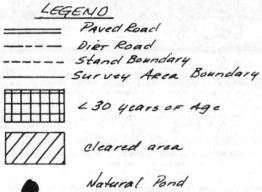
STD #	FOREST TYPE	ACRES	AGE	BA/ACRE PINE	TOTAL PINE STEMS/ACRE	TOTAL PINE STEMS>10"/AC
1	0400	336	46	14	169	6
2	0100	15	56	70	135	65
3	1900	7	41	0	0	0
	0401	10	55	10	230	20
4 5	0100	11	57	65	270	15
6	0300	14	52	50	110	20
7	0100	34	55	25	115	25
	0400	57	51	16	36	0
8	0100	18	59	87	283	60
10	1819	65	65	0	0	0
11	0100	3	170	30	190	20
12	0400	4	30	54	100	20
13	0103	172	55	54	114	41
14	0419	136	76	15	25	15
15	0100	25	57	47	60	23
16	1903	48	55	37	33	10
17	0300	28	38	48	75	40
1.8	0300	12	35	130	255	105
19	0300	22	37	63	133	40
	years old ently	63				
clea		16				

FOREST TYPE CODES (4 Digits)

PI	NE	HAI	RDWOODS
01	Longleaf	11	Poplar
02	Slash	12	Sweetgum
03	Loblolly	13	White Oak
04	Pond	14	Red Oak
05	Shortleaf	15	Scrub Oak
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		17	Maple
		18	Blackgum
			Misc













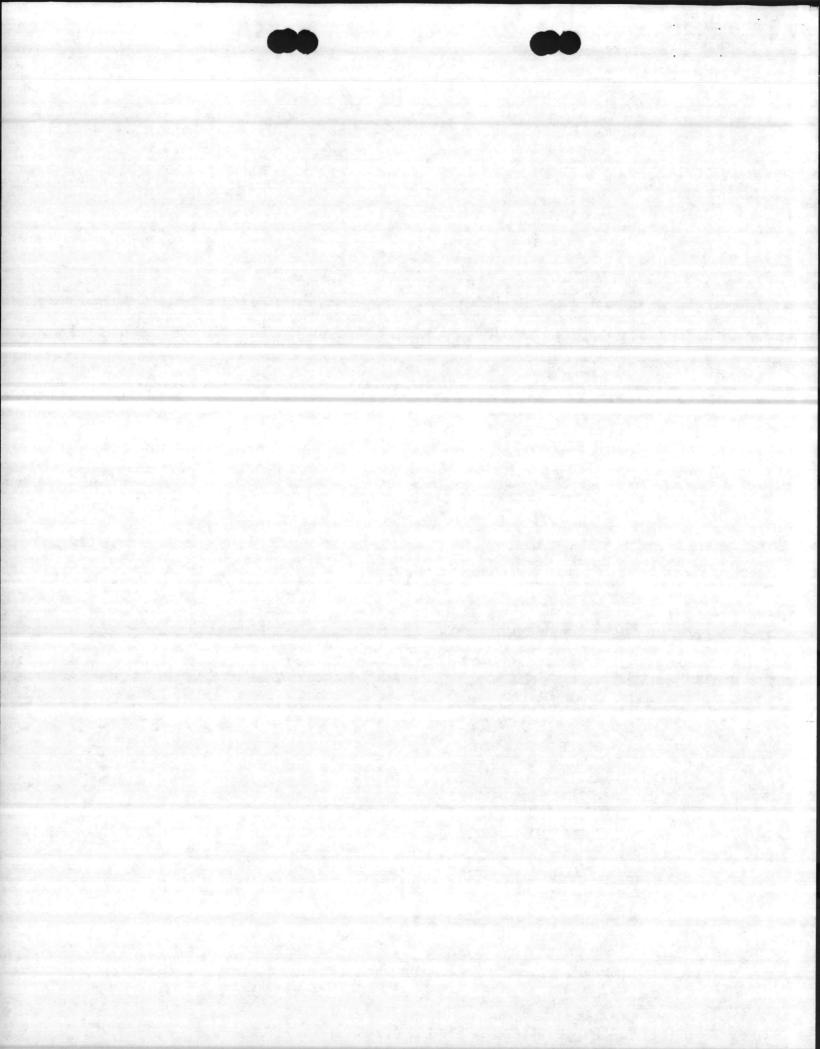
MECHANIZED MOVEMENT COURSE EXISTING HABITAT

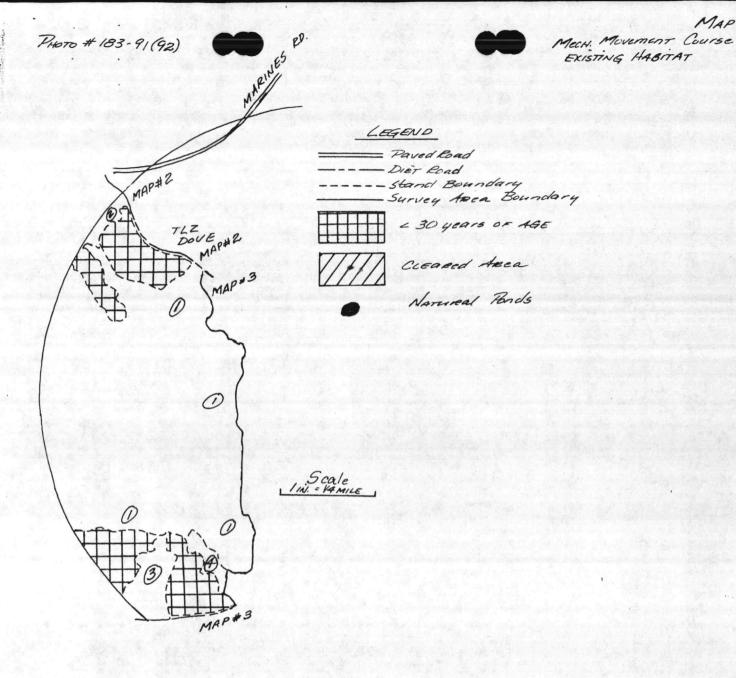
MAP #4 [Photo 183-115(111)]

STD #	FOREST TYPE	ACRES	AGE	BA/ACRE PINE	TOTAL PINE STEMS/ACRE	TOTAL PINE STEMS > 10"/AC
1	0301	224	45	32	98	25
2	0304	158	57	41	98	31
3	1819	17	59	0	0	0
4	0300	39	40	35	6	6
5	0300	6	31	0	340	0
6	1419	26	59	5	5	5
7	0315	9	50	20	20	10
8	0319	3	83	70	65	50
9	0300	27	48	55	80	16
10	0319	20	93	20	25	25
11	1900	4	78	0	0	0
12	0300	23	57	55	50	35
	years old	153				
clea	red	0				

FOREST TYPE CODES (4 Digits)

PI	NE	HAI	RDWOODS
01	Longleaf	11	Poplar
02	Slash	12	Sweetgum
03	Loblolly	13	White Oak
04	Pond	14	Red Oak
05	Shortleaf	15	Scrub Oak
06	Cypress	16	Beech
		17	Maple
		18	Blackgum
		19	Misc





MAP#5







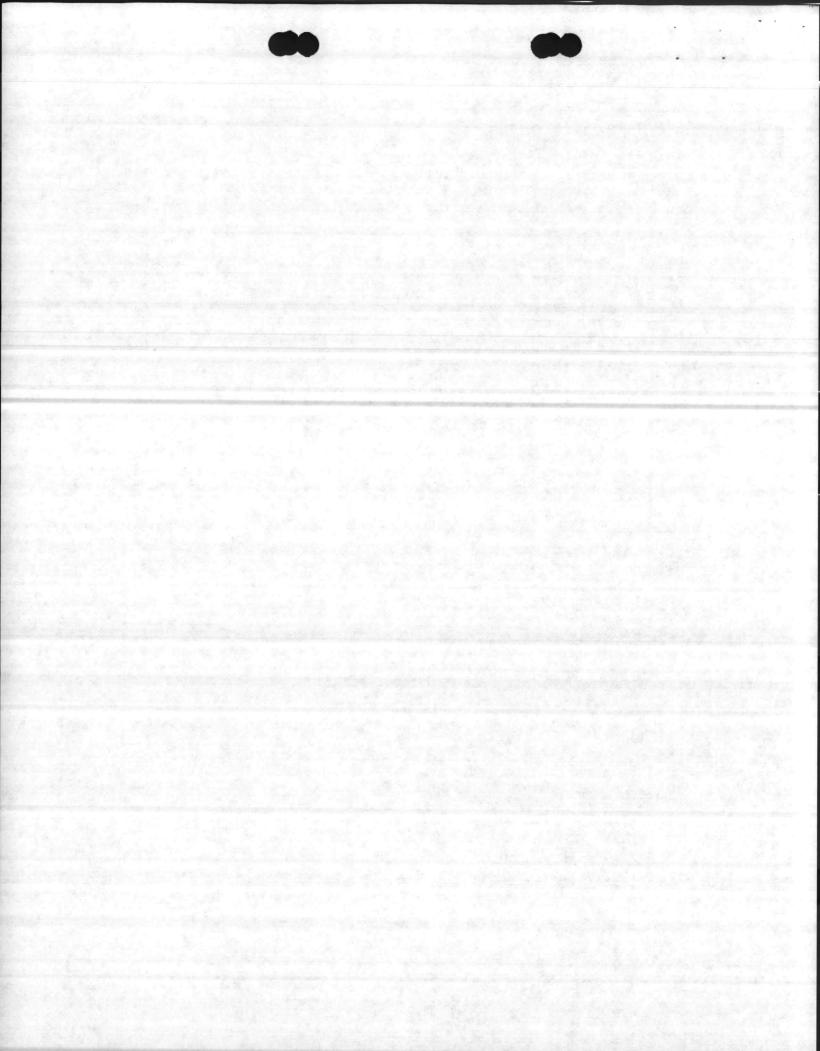
MECHANIZED MOVEMENT COURSE EXISTING HABITAT

MAP #5 [Photo 183-91(92)]

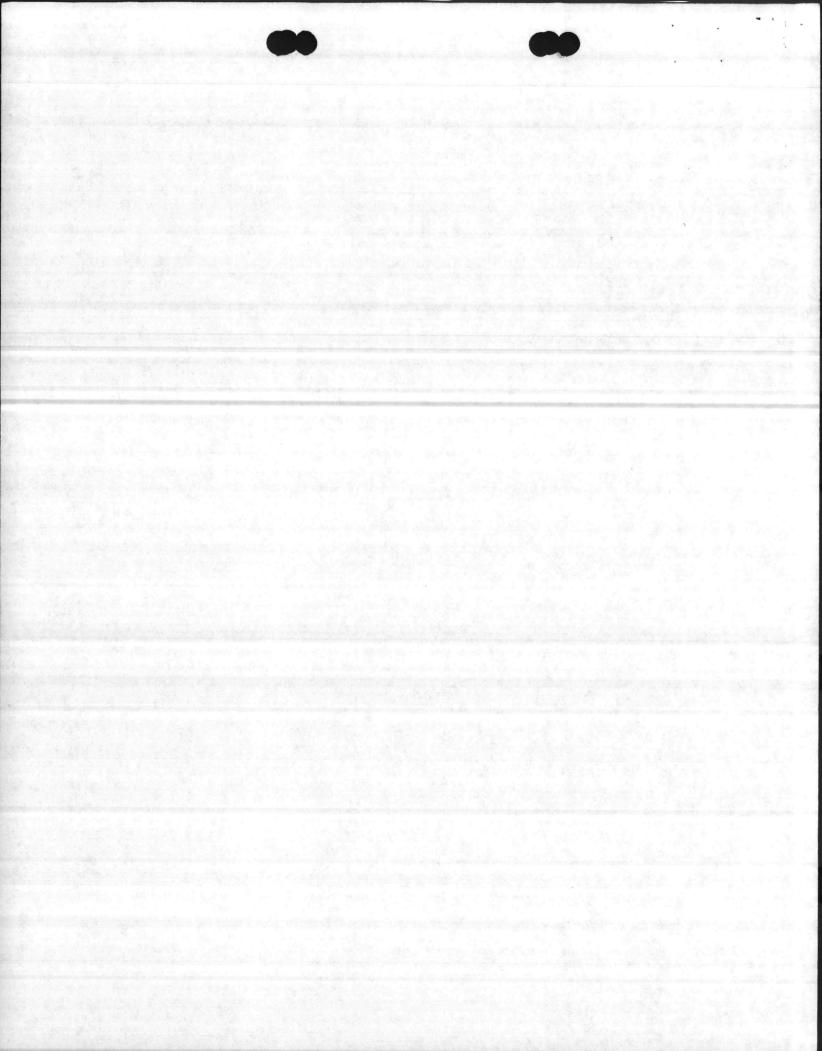
STD #	FOREST TYPE	ACRES	AGE	BA/ACRE PINE	TOTAL PINE STEMS/ACRE	TOTAL PINE STEMS>10"/AC
1	0419	201	67	23	73	15
2	1800	2	58	0	0	0
3	0300	13	77	70	70	60
4	0400	4	42	20	90	10
	years old	47				
clea		0				and the second of the second

FOREST TYPE CODES (4 Digits)

PI	NE	HAI	RDWOODS
01	Longleaf	11	Poplar
02	Slash	12	Sweetgum
03	Loblolly	13	White Oak
04	Pond	14	Red Oak
05	Shortleaf	15	Scrub Oak
06	Cypress	16	Beech
		17	Maple
			Blackgum
			Misc



MAP #6





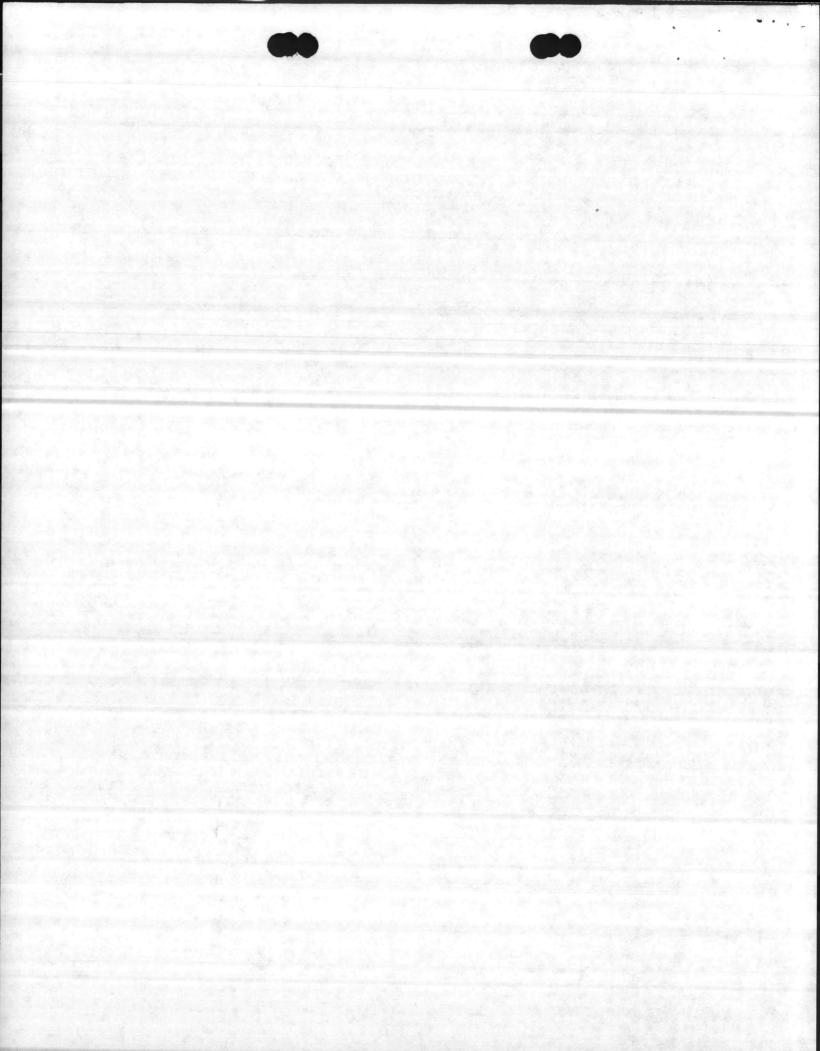
MECHANIZED MOVEMENT COURSE EXISTING HABITAT

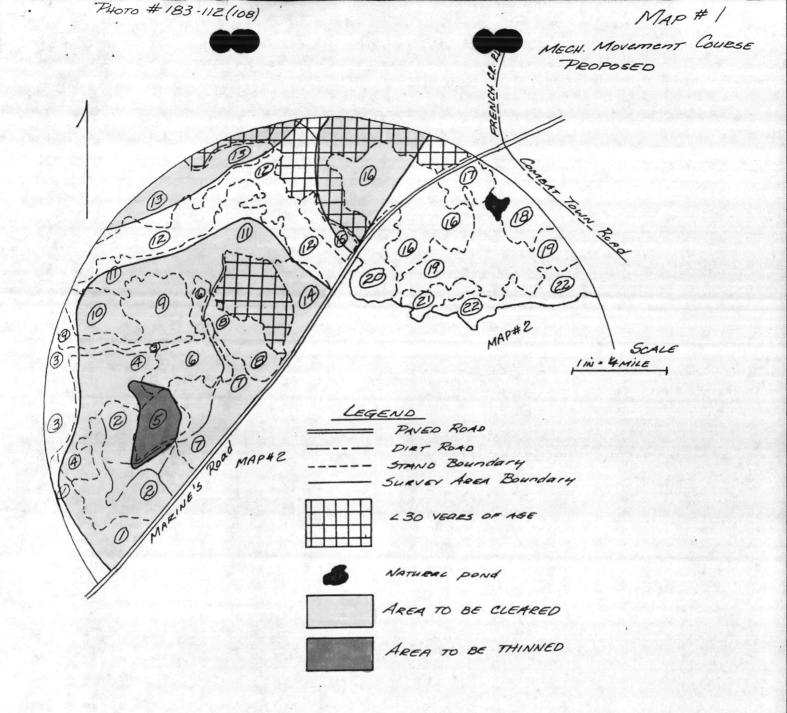
MAP #6 [Photo 183-183(125)]

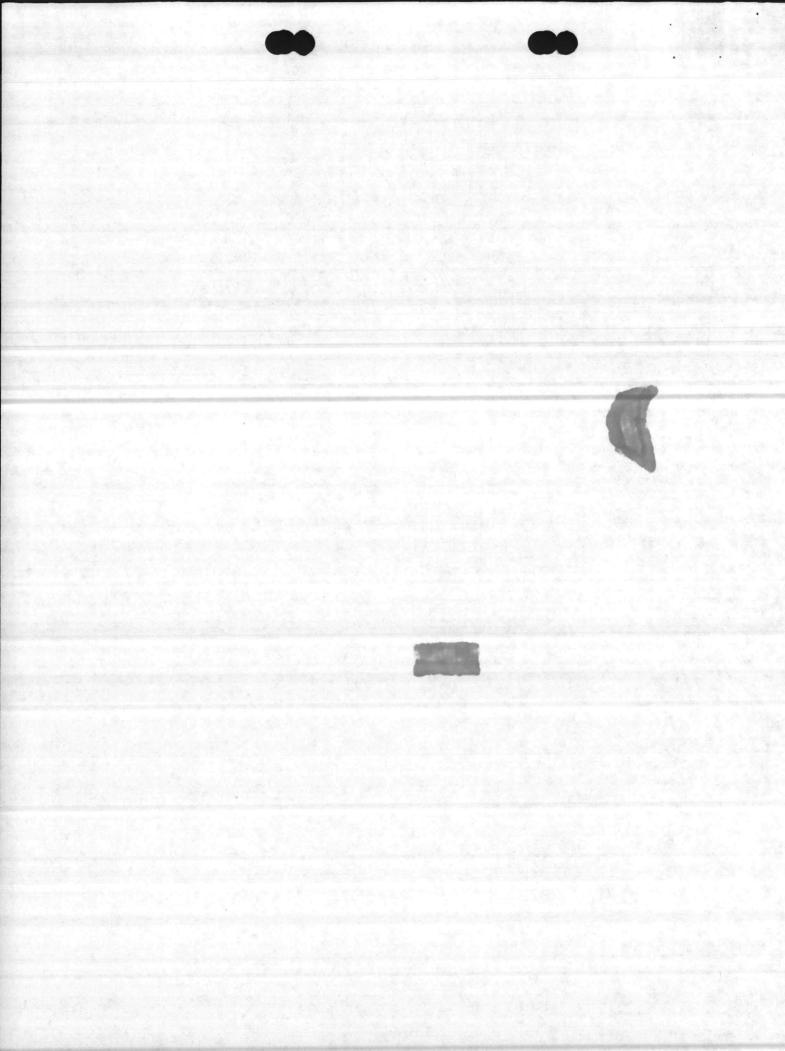
STD #	FOREST TYPE	ACRES	AGE	BA/ACRE PINE	TOTAL PINE STEMS/ACRE	TOTAL PINE STEMS>10"/AC	
	0100	26	51	57	210	34	
2	0400	82	57	56	160	30	
3	0100	14	66	33	60	45	
4	0100	31	58	58	185	40	
5	0100	26	55	30	40	35	
	years old	7					
clea	50 10 10 10 10 10 10 10 10 10 10 10 10 10	0					

FOREST TYPE CODES (4 Digits)

PIN	NE	HAI	RDWOODS
01	Longleaf	11	Poplar
	Slash	12	Sweetgum
	Loblolly	13	White Oak
	Pond	14	Red Oak
-	Shortleaf	15	Scrub Oak
	Cypress	16	Beech
	national and the		Maple
			Blackgum
			Misc









MAP #1 [Photo 183-112(108)]

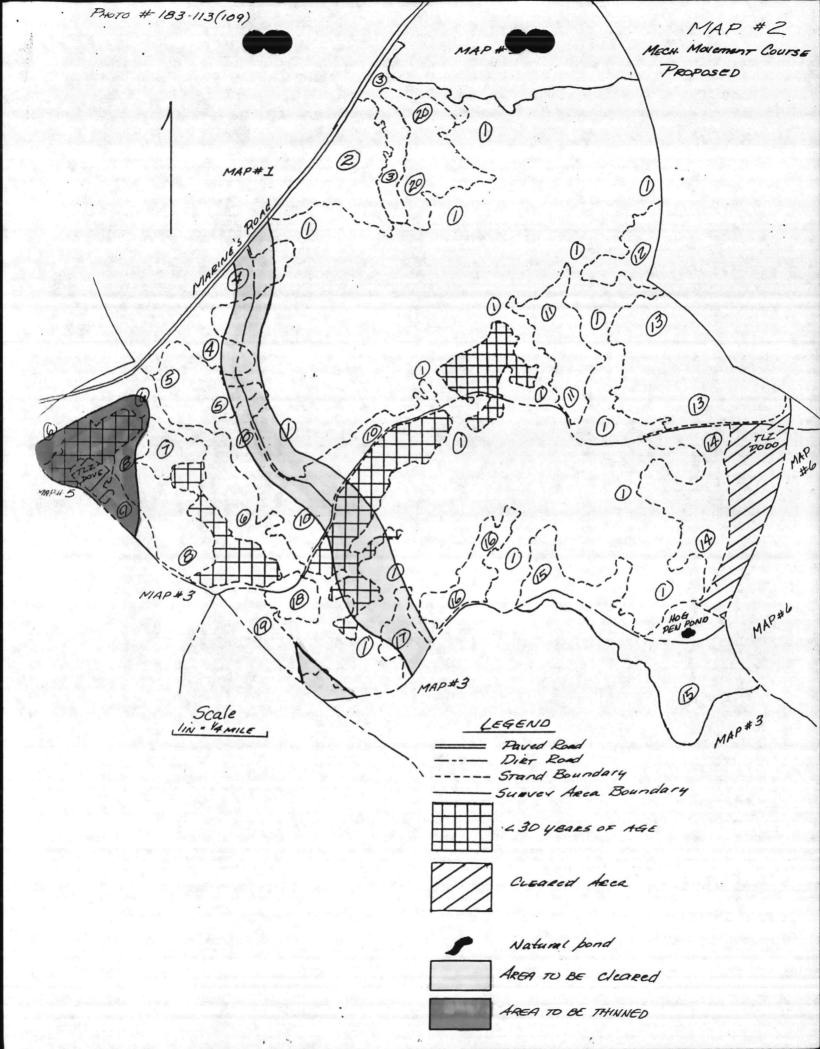
STD #	FOREST TYPE	ACRES	AGE	BA/ACRE PINE	TOTAL PINE STEMS/ACRE	TOTAL PINE STEMS>10"/AC
1	0300	6	53	80	450	60
2	0100	Ö	51	46	202	44
3	1912	11	103	5	5	5
4	0319	3	70	48	163	45
5	1900	0	30	0	0	0
	0301	0	88	55	615	40
6	0103	0	44	70	336	30
8	1900	0	47	0	0	0
9	0319	3	68	63	80	63
10	0314	2	90	37	43	40
11	0300	10	75	76	70	55
12	1918	38	60	0	0	0
13	0300	3	63	77	95	60
14	0300	1	64	45	80	45
15	0300	3 5	73	65	70	50
16	0403	5	53	69	164	52
17	0400	7	53	75	95	45
18	0104	12	56	100	230	45
19	0400	34	40	10	20	5
20	0304	11	46	50	605	5
21	0400	6	51	40	120	20
22	0100	16	58	55	175	40
	years old	18				
clea	red	291				

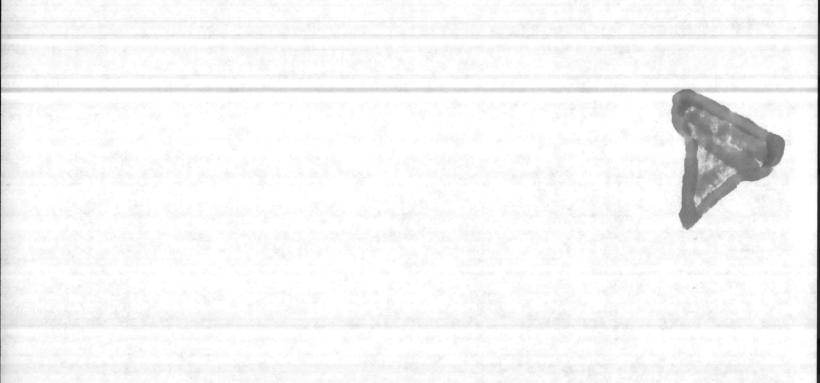
Acres Thinned 12

FOREST TYPE CODES (4 Digits)

PI	NE	HAI	RDWOODS
01	Longleaf	11	Poplar
02	Slash	12	Sweetgum
03	Loblolly	13	White Oak
04	Pond	14	Red Oak
05	Shortleaf	15	Scrub Oak
06	Cypress	16	Beech
		17	Maple
		18	Blackgum
		19	Misc









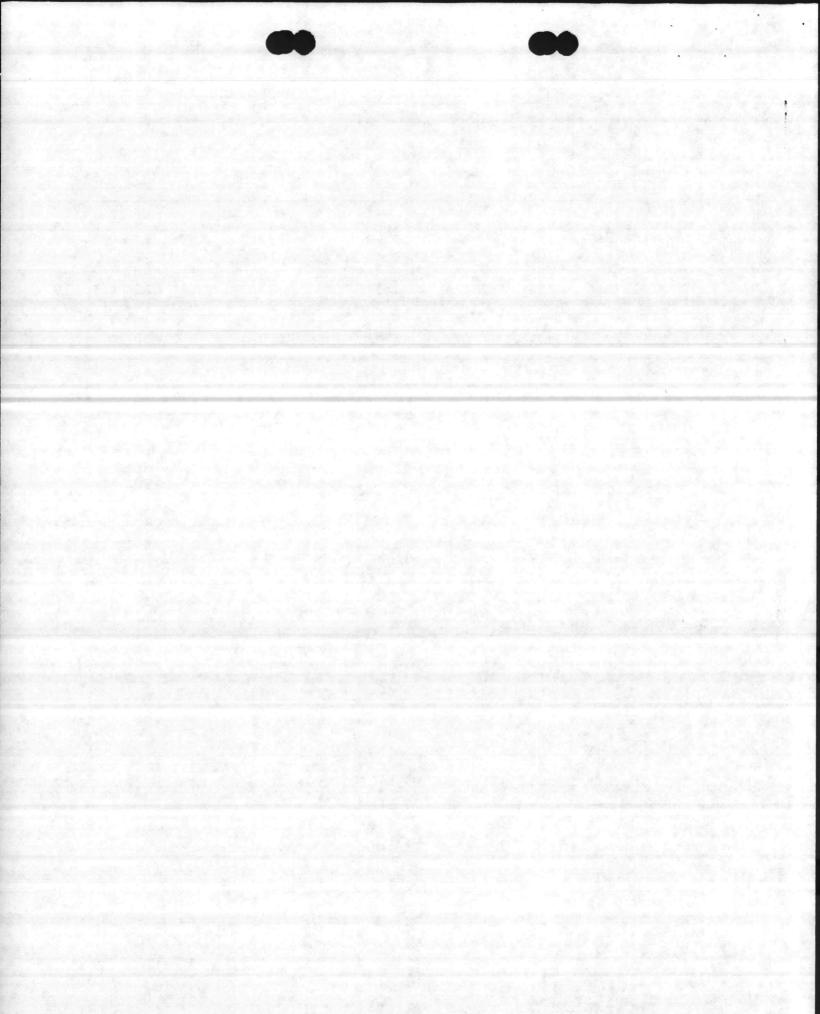


MAP #2 [Photo 183-113(109)]

STD #	FOREST TYPE	ACRES	AGE	BA/ACRE PINE	TOTAL PINE STEMS/ACRE	TOTAL PINE STEMS>10"/AC
1	0419	585	45	30	148	9
2	0103	31	54	73	177	47 .
3	1719	20	37	0	10	0
4	0103	16	43	17	57	20
5	0400	20	56	30	80	10
6	1719	40	66	23	23	17
7	0103	9	56	60	170	40
8	0419	24	64	45	110	30
9	0100	3	57	53	80	50
10	0100	30	51	65	228	46
11	0100	24	55	45	135	40
12	0100	14	68	55	100	90
13	0100	62	57	50	140	50
14	0401	34	131	10	20	10
15	0100	69	58	55	210	15
16	0100	17	64	60	180	30
17	0100	1	119	50	90	50
18	0100	8	56	60	410	0
19	0100	13	47	85	210	40
20	0100	28	101	65	270	30
	years old osed	64				
clea	red	138				
Acre	s Thinned	29				

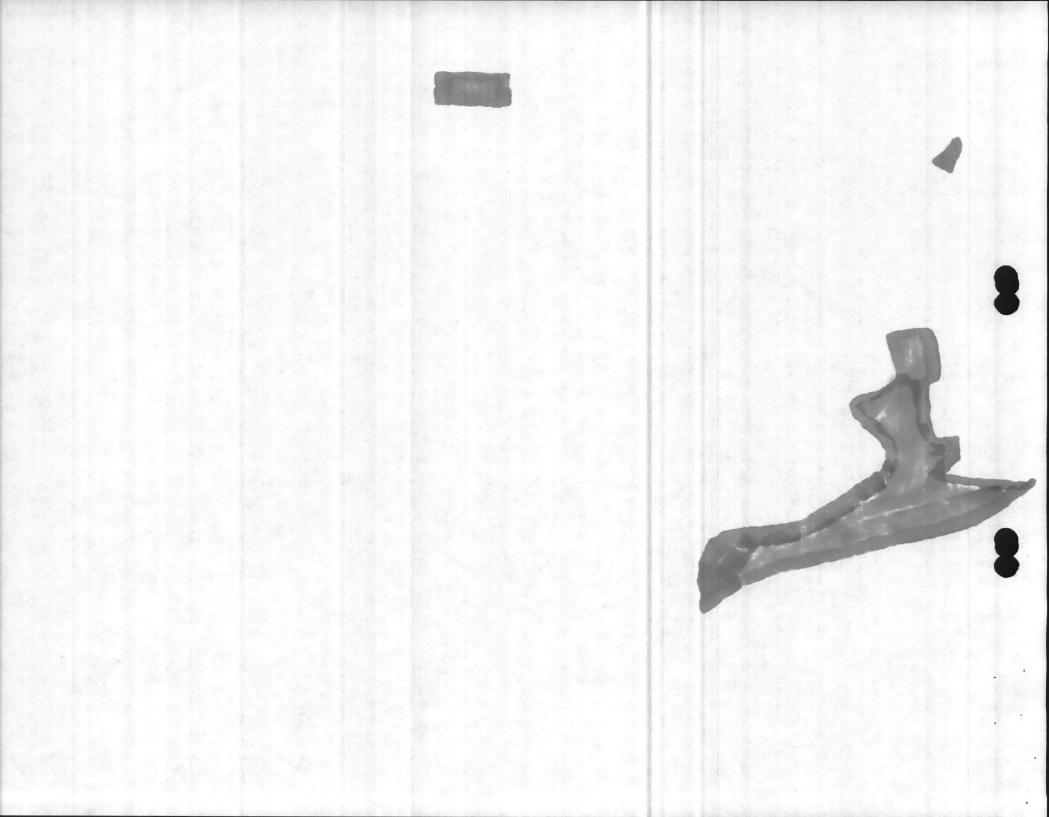
FOREST TYPE CODES (4 Digits)

PI	NE	HAI	RDWOODS
01	Longleaf	11	Poplar
02	Slash	12	Sweetgum
03	Loblolly	13	White Oak
04	Pond	14	Red Oak
05	Shortleaf	15	Scrub Oak
06	Cypress	16	Beech
		17	Maple
		18	Blackgum
		19	Misc

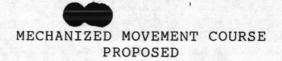


PROPOSEd LEGEND ACEA TO BE CLEARED Paved Road DIET Road STAND Boundary AREA TO BE THINNED Survey Area Boundary 130 YEARS OF Age MAP#2 Cleared Area Scale LIN. = 44 MILE (3) MAPHZ NATURAL MAP#2 (4) 3 (6) MAP#5 3 (3) (2) (5) 0 3 0 MAP#4 (0) MILE HAMMOCK BAY ROAD MAP 4

MECH. Movement Course PROPOSEN







MAP #3 [Photo 183-114(110)]

STD #	FOREST TYPE	ACRES	AGE	BA/ACRE PINE	TOTAL PINE STEMS/ACRE	TOTAL PINE STEMS>10"/AC
1	0400	214	46	14	169	6
2	0100	15	56	70	135	65
3	1900	7	41	0	0	0
4	0401	10	55	10	230	20
5	0100	11	57	65	270	15
6	0300	14	52	50	110	20
7	0100	18	55	25	115	25
8	0400	57	51	16	36	0
9	0100	18	59	87	283	60
10	1819	61	65	0	0	0
11	0100	3	170	30	190	20
12	0400	4	30	54	100	20
13	0103	141	55	54	114	41
14	0419	122	76	15	25	15
15	0100	25	57	47	60	23
16	1903	36	55	37	33	10
17	0300	0	38	48	75	40
18	0300	0	. 35	130	255	105
19	0300	6	37	63	133	40
	years old osed	21				
clea		200				

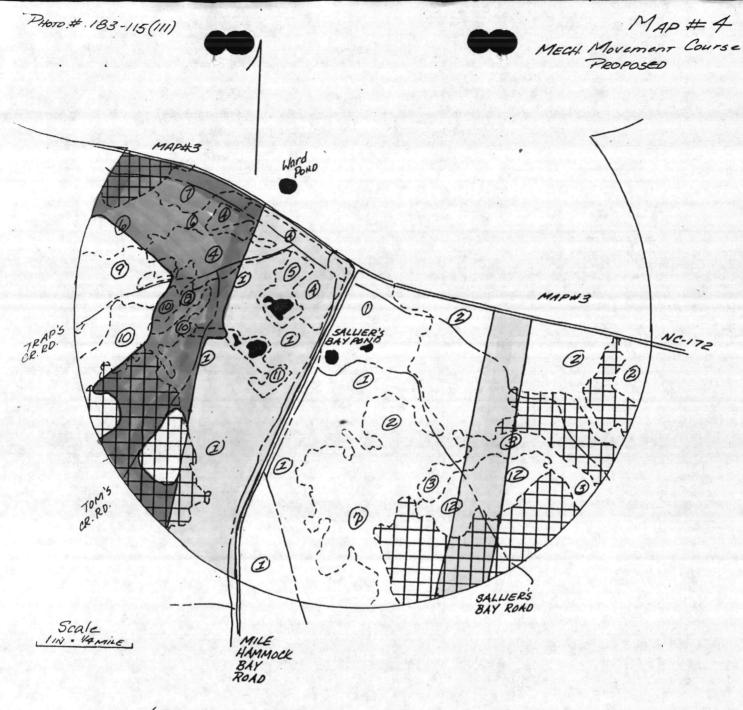
FOREST TYPE CODES (4 Digits)

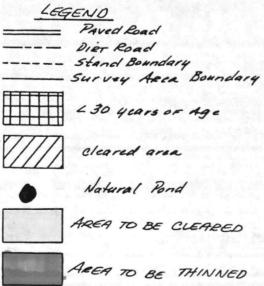
PI	NE	HARDWOODS			
	Longleaf Slash		Poplar Sweetgum		
	Loblolly		White Oak		
04	Pond	14	Red Oak		
05	Shortleaf	15	Scrub Oak		
06	Cypress	16	Beech		
		17	Maple		
		18	Blackgum		
		19	Misc		

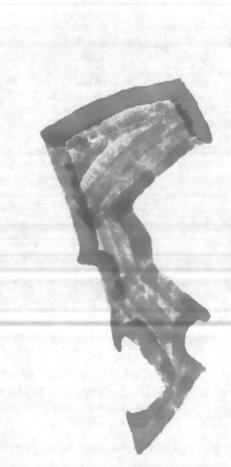
Acres Thinned 113











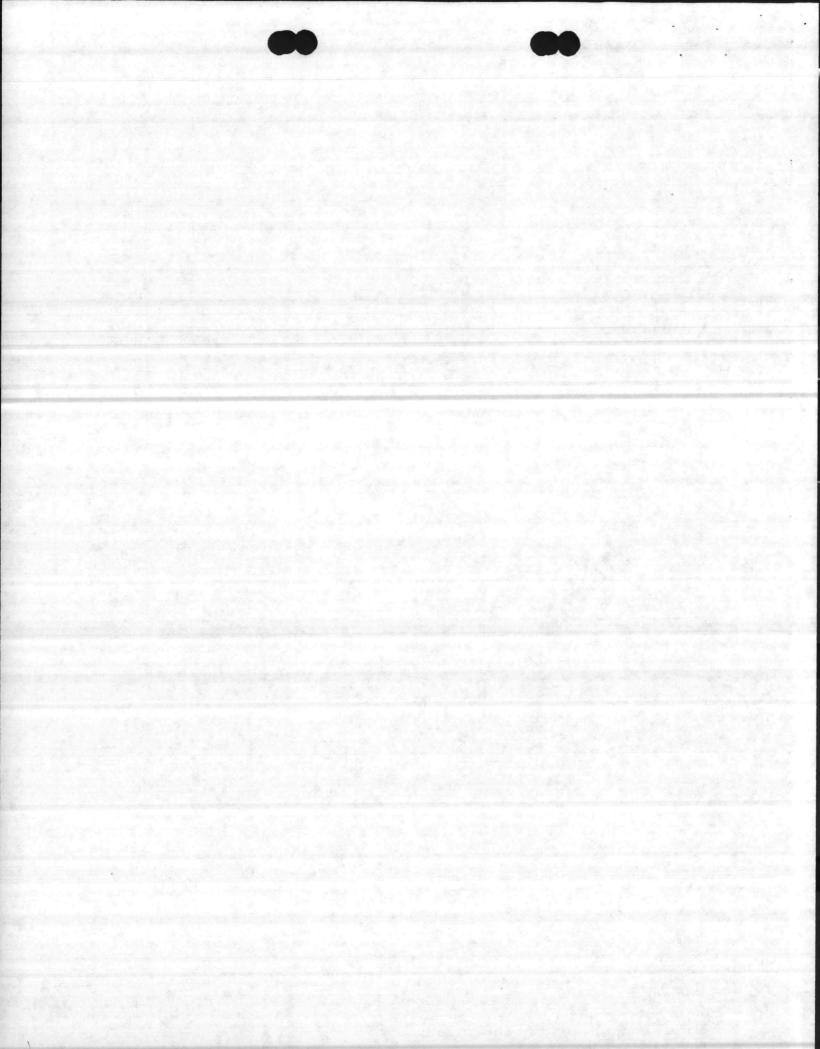


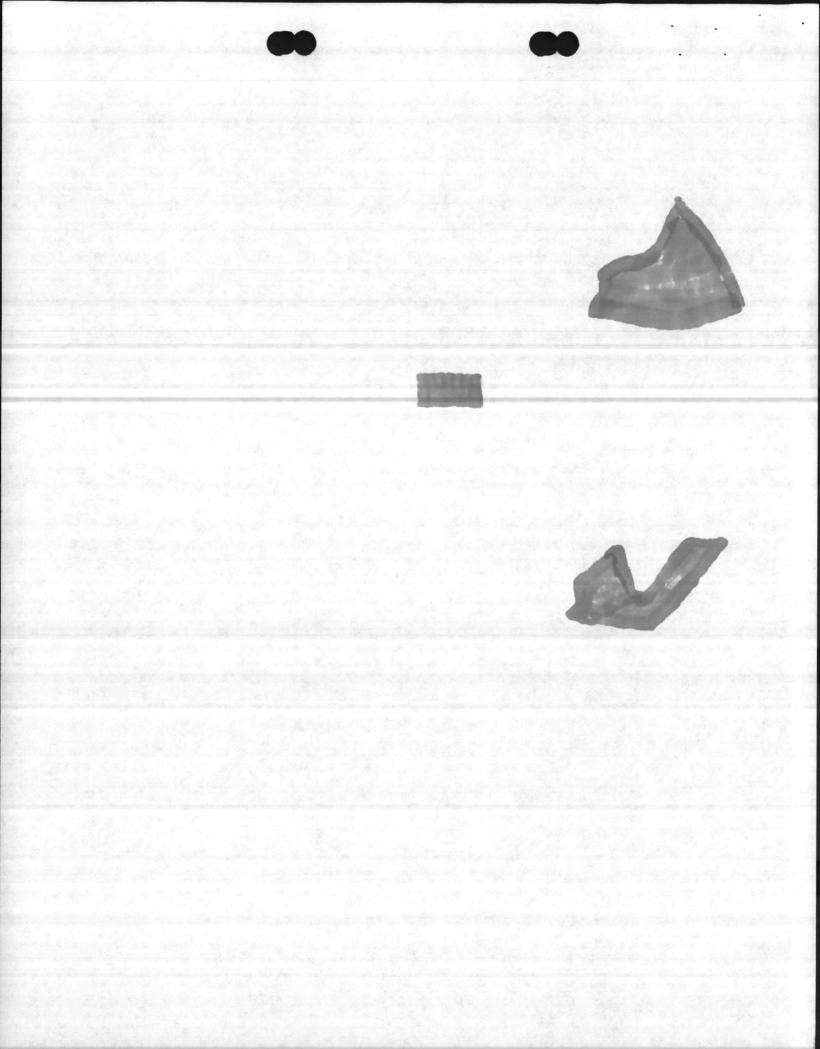
MAP #4 [Photo 183-115(111)]

STD #	FOREST TYPE	ACRES	AGE	BA/ACRE PINE	TOTAL PINE STEMS/ACRE	TOTAL PINE STEMS > 10"/AC
1	0301	124	45	32	98	25
2	0304	138	57	41	98	31
3	1819	13	59	0	0	0
4	0300	0	40	35	6	6
5	0300	0	31	0	340	0
6	1419	.7	59	5	5	5
7	0315	0	50	20	20	10
8	0319	0	83	70	65	50
9	0300	27	48	55	80	16
10	0319	12	93	20	25	25
11	1900	0	78	0	0	0
12	0300	11	57	55	50	35
	years old	98				
clea		177				
	s Thinned	102				

FOREST TYPE CODES (4 Digits)

PINE		HAI	RDWOODS
01 L	ongleaf	11	Poplar
02 S	lash	12	Sweetgum
03 L	oblolly	13	White Oak
04 P	ond	14	Red Oak
05 S	hortleaf	15	Scrub Oak
06 C	ypress	16	Beech
		17	Maple
		18	Blackgum
		19	Misc







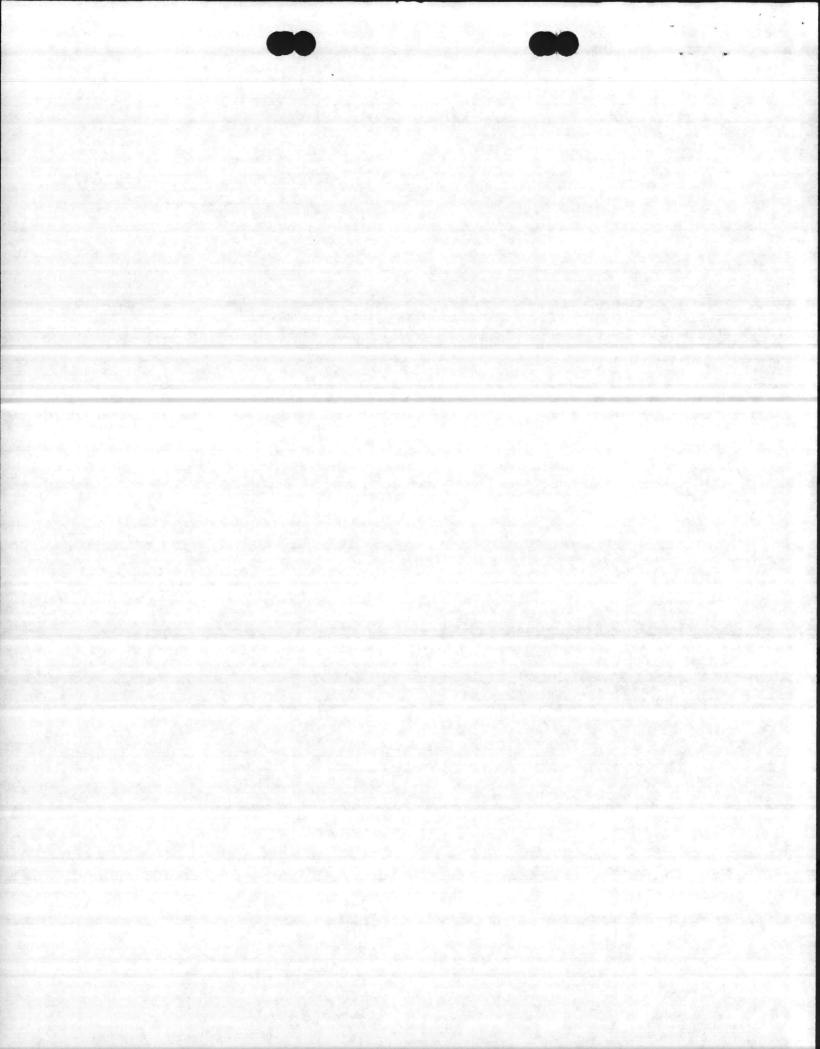


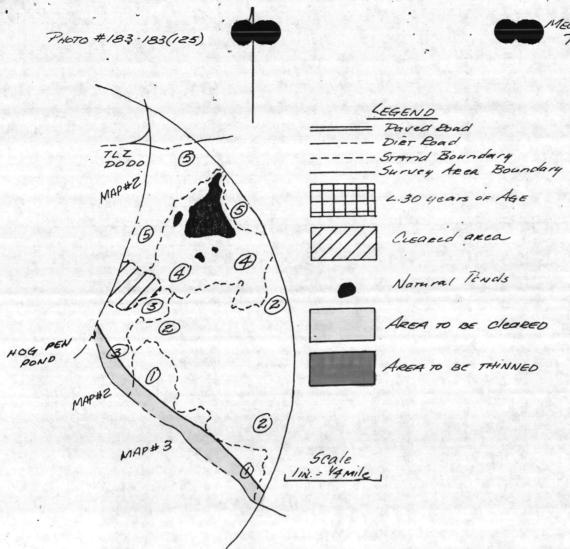
MAP #5 [Photo 183-91(92)]

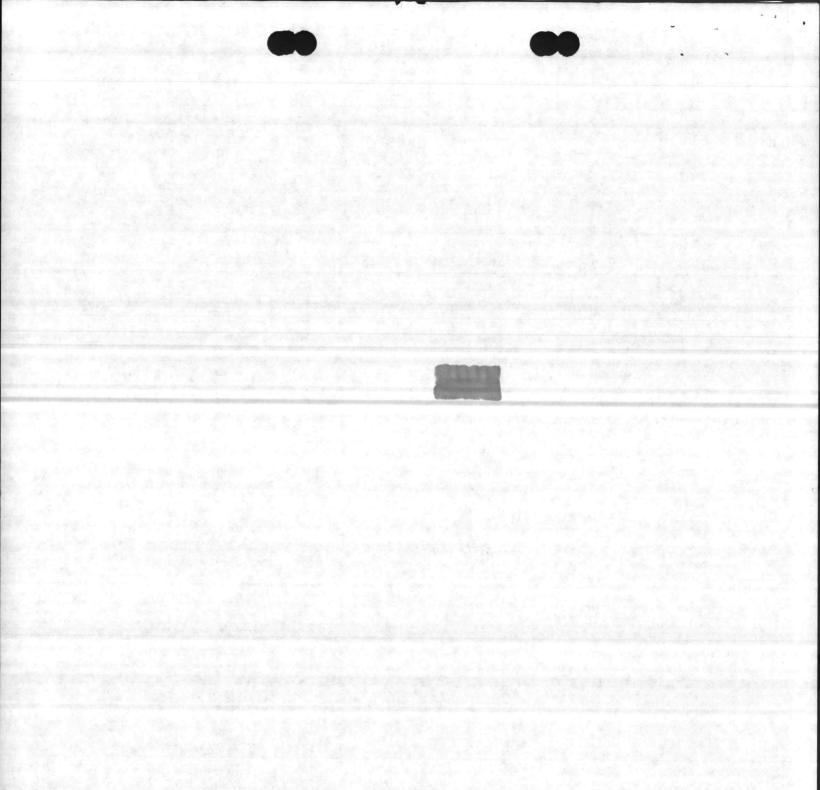
STD #	FOREST TYPE	ACRES	AGE	BA/ACRE PINE	TOTAL PINE STEMS/ACRE	TOTAL PINE STEMS>10"/AC
1	0419	177	67	23	73	15
2	1800	0	58	0	0	0
3	0300	5	77	70	70	60
4	0400	2	42	20	90	10
	years old	.3				
clea		0				
Acres Thinned		80				

FOREST TYPE CODES (4 Digits)

PI	NE	HAI	RDWOODS
01	Longleaf	11	Poplar
02	Slash	12	Sweetgum
03	Loblolly	13	White Oak
04	Pond	14	Red Oak
05	Shortleaf	15	Scrub Oak
06	Cypress	16	Beech
		17	Maple
		18	Blackgum
		19	Misc









MAP #6 [Photo 183-183(125)]

STD #	FOREST TYPE	ACRES	AGE	BA/ACRE PINE	TOTAL PINE STEMS/ACRE	TOTAL PINE STEMS>10"/AC
1	0100	15	51	57	210	34
2	0400	82	57	56	160	30
3	0100	11	66	33	60	45
4	0100	31	58	58	185	40
5	0100	26	55	30	40	35
	years old	7				
cleared		14				
Acres Thinned		0				

FOREST TYPE CODES (4 Digits)

PI	NE	HARDWOODS		
01	Longleaf	11	Poplar	
02	Slash	12	Sweetgum	
03	Loblolly	13	White Oak	
04	Pond	14	Red Oak	
05	Shortleaf	15	Scrub Oak	
06	Cypress	16	Beech	
		17	Maple	
		18	Blackgum	
			Misc	

