

**RESULTS OF SURVEYS FOR FLORIDA SCRUB JAYS AND RED-
COCKADED WOODPECKERS ON SR 200**



**FLORIDA DEPARTMENT OF TRANSPORTATION
DISTRICT FIVE**

State Project Numbers: 02040-1503 and 36100-1524
Work Program Numbers: 5111615 and 5113521

SR 200 Widening From SR 45 to CR 484
Citrus and Marion Counties

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237849 1 31 01
SR 200 FROM SR 45 TO MARION
CO. LINE
(5111615)
SURVEY OF FLA. SCRUB JAY & RED
COCKADED WOODPECKERS

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
I. INTRODUCTION.....	3
II. METHODOLOGY	3
III. RESULTS	6
IV. DISCUSSION.....	9
IV. LITERATURE CITED.....	10
APPENDIX A.....	11

LIST OF FIGURES

<u>Number</u>	<u>Page</u>
1. Location of Scrub Jay Transects.....	5

LIST OF TABLES

<u>Number</u>	<u>Page</u>
1. Florida Scrub Jay Habitat Types Adjacent To Corridor	3
2. Red-Cockaded Woodpecker Habitat Types Adjacent To Corridor.....	6
3. Results Of Scrub Jay Surveys.....	7

I. INTRODUCTION

The Florida Department of Transportation is conducting Project Development and Environmental Studies for the proposed widening of SR 200 between SR 45 and CR 484 in Citrus and Marion Counties. This report documents surveys completed to determine the presence or absence of Florida Scrub Jays and Red-cockaded Woodpeckers within the project limits.

A Wildlife & Habitat Survey and Impact Evaluation Report was prepared for this project by Environmental Services, Inc. (ESI, March 1994). This report provided an assessment of biotic and abiotic features including vegetative communities, wildlife, and protected species. Vegetative community maps were compiled using the Florida Land Use Cover and Forms Classification System (FLUCFCS 1985). The U. S. Fish and Wildlife Service reviewed the ESI document and requested species specific surveys be completed for the Red-cockaded Woodpecker and the Florida Scrub Jay (letter dated 28 August, 1995). HDR was subsequently tasked to conduct these surveys for the FDOT.

II. METHODOLOGY

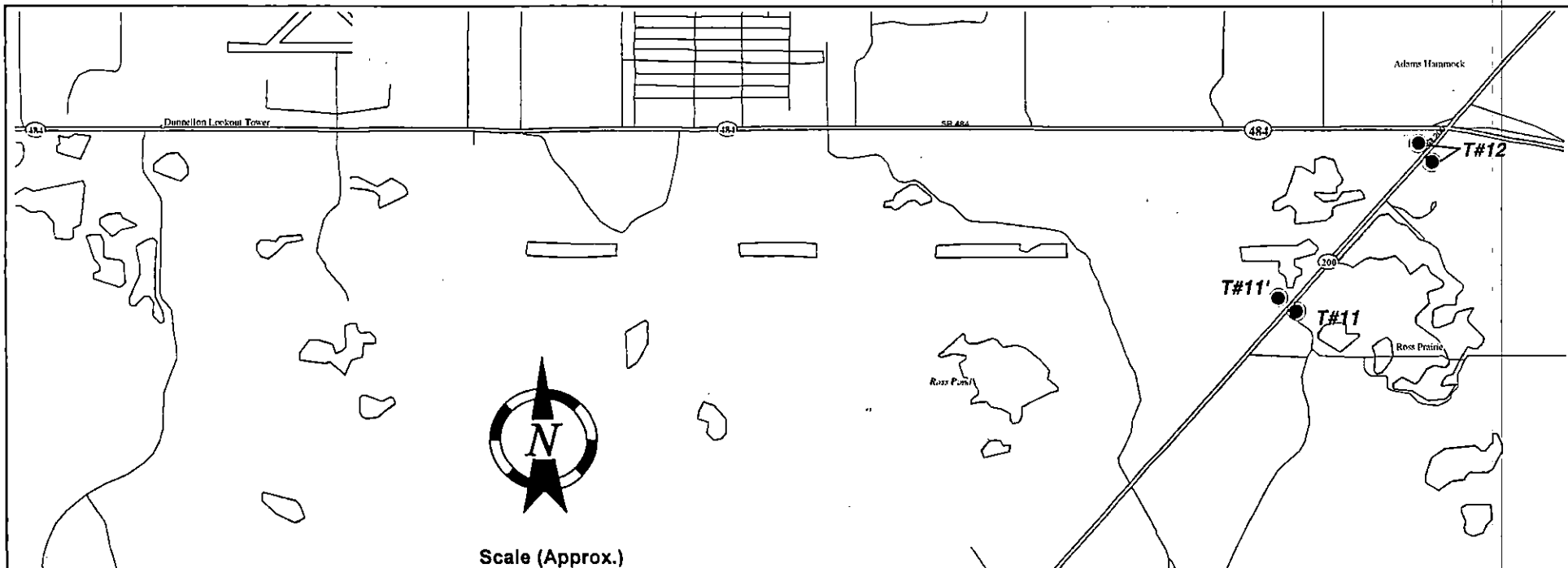
Methods Used For The Survey Of Florida Scrub Jays:

Surveys were completed using methods consistent with those described by Fitzpatrick (1991). Nine habitats were targeted for survey (per USFWS letter of August 28, 1995). These habitats are presented in Table 1

Table 1. Florida Scrub Jay Habitat Types Adjacent To Corridor

Habitat	Map Code	FLUCFCS Code
Former Scrub	FS	3201
Open Scrub	OS	3202
Scrub Oak	SO	3203
Longleaf Pine Scrub	LLS	3203
Longleaf Pine	LL	411
Mesic Mixed Oak	MMO	414
Pine/Mixed Oak	PMO	414
Mixed Oak	MO	420
Pine Plantation	PP	440
Christmas Tree	X	440

Following field review and evaluation of these habitats, three communities were determined to be unsuitable for the support of scrub jays: pine plantation, longleaf pine, and former scrub. All pine plantations supported mature pine with limited habitat for



W.P.I.: 5111615 & 5113521
 S.P.N. 02040-1503 & 36100-1524

SR 200
SCRUB JAY TRANSECT LOCATIONS

Figure 1



foraging jays. Most areas of long leaf pine were not surveyed due to the predominance of mature pines and minimal oak component. One area of former scrub was essentially a cleared grassed field with an occasional remnant oak. The surveys focused on those areas which provided potential to marginal habitat.

A total of 13 survey transects (1 through 12 and 11') were identified on 1"=200' scale aerial photography. Broadcast stations along each transect were spaced roughly 500 ft. apart. A recording of the scrub jay vocalizations (territorial scold and the female "hiccup" call), produced at the Archbold Biological Station, was played at maximum volume using a Sony model CFS-250S audio cassette player. All survey days were clear, warm, and with winds averaging 0 to 2 mph. Assuming a broadcast range of 300 ft. in all directions, all areas were adequately inventoried with overlap between each station. Wherever access was available, the broadcast station was located at least 100 ft. in from the SR 200 right of way line. The tape was played for a minimum of one minute in each of four directions or two directions if played from the road edge. Surveys were completed during the last full week of the late summer/early fall season. While this season was not optimal, it was within the limits of Fitzpatrick's recommended guidelines.

Following the first survey event, transects were prioritized as "potential" and "unlikely" to support scrub jays. Areas mapped as scrub oak or longleaf pine scrub were determined to be potential to support jays. All other areas were unlikely. Oaks in the unlikely areas ranged from 20 to 50 ft. in height, were densely packed with little to no exposed sand, and were largely impenetrable due to the "thicket" of woody vegetation. Grape vine was common, covering the canopy. These unlikely areas were surveyed two to three times. Areas most likely to support jays were surveyed 3 to 4 times over a 6 day period. All habitats which would be directly impacted by the proposed project and which "potentially" support scrub jays were surveyed 4 times.

Approximate locations of each transect have been mapped (Figure 1). Annotated habitat maps (1"=200') with transects and broadcast stations identified are included as an attachment to this report. The locations of the transects, as shown on the habitat map, are depicted outside of the project right of way boundary to aid in the clarity of the map. Actual transects were either at the existing ROW line or 100 ft. inside of the site where access to the site was not prohibited.

Generally, areas not directly impacted by the proposed project were not surveyed. Where habitat was considered good (e.g. SO and LLS areas) and not directly impacted by the project, surveys were completed.

Methods Used For The Survey Of Red-Cockaded Woodpeckers:

Habitats targeted for survey are shown in Table 2.

Table 2 . Red-Cockaded Woodpecker Habitat Types Adjacent To Corridor

Habitat	Map Code	FLUCFCS Code
Longleaf Pine	LL	411
Live Oak/Longleaf Pine	LOLL	421

All accessible mature pines within 300 ft. of the right of way (ROW) were inspected for evidence of Red-cockaded Woodpeckers (RCW). Transects were walked in a northerly direction. The distance between each transect varied depending on the density of pines and associated hardwoods. At locations where the pine stands were small (urban areas) meandering transects were walked and all trees were examined. Where road or trail access was available, pines within 1/2 mile were inspected. The vast majority of the pines in the vicinity were co-dominant with mature oaks or were located within residential or commercial developments. In many instances the majority of the pine tree was not visible (and similarly not readily accessible for cavity construction) due to the competing oak crowns.

Review of the pertinent literature suggested that these sites were not suitable for RCWs. Shapiro (1983) reports that 76% of the plots studied in south Florida had no midstory. Baker, et al. (1983) reports that "typical red-cockaded habitats are characterized by older, open pine stands, a low understory usually maintained by periodic fires...". Deslotelle, et al. (1983) studied habitat use by RCWs in central Florida and found that the shrub layer (palmetto) was generally less than 1 m in height. The dense oak canopy and subcanopy associated with most pines along the project corridor likely produce an undesirable habitat for RCW cavity construction and foraging.

III. RESULTS

Florida Scrub Jay Surveys

Table 3 provides the results of the Scrub Jay Surveys. Field data sheets are provided in Appendix A. No jays were observed.

Table 3. Results Of Scrub Jay Surveys

Transect No.	Habitat Type	Date Surveyed				Total Survey Events	Number of Jays Surveyed
		20-Oct	26-Oct	27-Oct	31-Oct		
1	MO	1	1	0	1	3	0
2	MO	1	1	0	1	3	0
3	MO, LL, X	1	1	0	1	3	0
4	MO	1	0	1	0	2	0
5	SO	1	1	1	1	4	0
6	SO	1	1	1	1	4	0
7	SO	1	1	1	1	4	0
8	SO	1	1	1	1	4	0
9	LLS	1	1	1	1	4	0
10	SO	1	0	1	1	3	0
11	LLS	1	1	1	1	4	0
11'	LLS	1	1	1	0	3	0
12	LLS, SO	1	1	1	1	4	0

Transect 1: This site was classified as Mixed Oak and includes both commercial and residential land uses. Oaks ranged in height from 15 to over 30 feet. Shrub layers were sparse and ground cover consisted of scattered palmetto, sparkleberry, and a variety of grasses. This site was considered poor quality and not likely to support scrub jays. A total of 3 survey events were completed with no jay observations.

Transect 2: This site was classified as Mixed Oak and borders a dense pine stand to the south. Pine was mixed with large oaks (20 feet in height or greater) and herbaceous vegetation and litter made up 100% of the ground cover. The site resembled overgrown flatwoods. The transect traversed an open area dominated by tall grasses and other herbs. The site was considered to be poor quality and not likely to support scrub jays. A total of 3 survey events were completed with no jay observations.

Transect 3: This site was comprised of a mosaic of plant communities interrupted by residential development. Plant communities as mapped include Mixed oak, Longleaf Pine, and Christmas Tree Farm. Generally the vegetation consists of a mixture of pine and mature oak with 100% ground cover of vegetation or litter. Subcanopy layers were generally dense. The site was poor quality and not likely to support scrub jays. A total of 3 survey events were completed with no jay observations.

Transect 4: This site was classified as Mixed Oak. It was a mature live oak wooded parcel with a few scattered scrub oak species mixed in. Grape vine was common on the tree crowns and the understory was a dense thicket. The site was considered to be poor quality and not likely to support scrub jays. A total of 2 survey events were completed with no jay observations.

Transect 5: This site was classified as Scrub Oak. It was dominated by turkey and sand live oak with wire grass as the dominant ground cover. It appears to be an overgrown sandhill community and was suitable for gopher tortoise. There was potential for scrub jays at this location. A total of 4 survey events were completed with no jay observations

Transect 6: This site was mapped as Scrub Oak. Species composition was similar to transect 5 and was a sandhill community. A total of 4 survey events were completed with no jay observations.

Transect 7: This site was mapped as Scrub Oak and appears to be overgrown scrub. The average oak height was 20 feet and palmetto was common in the understory. A total of 4 survey events were completed with no jay observations.

Transect 8: This site was mapped as Scrub Oak. It appears to be overgrown scrub with sand pine and longleaf pine mixed with scrub oak species. Oak heights range between 15 and 25 feet. Dog fennel, grasses and scattered palmetto comprise the ground cover. The understory was generally dense with some open areas. A total of 4 survey events were completed with no jay observations.

Transect 9: This site was mapped as Longleaf Pine Scrub and was comprised of longleaf pine with scattered patches of scrub oak. Oak canopies range from 20 to 30 feet in height. Ground cover was predominantly grass. A total of 4 survey events were completed with no jay observations.

Transect 10: This site was mapped as Scrub Oak but may be more accurately described as Mixed Oak. Longleaf pine was scattered and oaks ranged from 20 to 40 feet in height. A total of 3 survey events were completed with no jay observations.

Transect 11: This site was mapped as Longleaf Pine Scrub. Longleaf pine was dominant, the majority of which were young (10 feet in height) planted pine. Turkey oak and persimmon were scattered amongst the pine. Mature longleaf pine were large, up to 12 inch dbh. A total of 4 survey events were completed with no jay observations.

~~Transect 11': This site was mapped as Longleaf Pine Scrub. Scrub oaks and turkey oak were dominant and range in height from 10 to 30 feet. Wire grass was the dominant ground cover in most areas and exposed sand was associated with a fire break cut along the fence line. No right of way is proposed for taking at this location. A total of 3 survey events were completed with no jay observations.~~

Transect 12: This site was mapped as Longleaf Pine Scrub and Scrub Oak and was similar in species composition as transect 11'. A total of 4 survey events were completed with no jay observations.

Red-cockaded Woodpecker Surveys

No cavity trees or start holes were identified. The vast majority of pines in the vicinity were co-dominant with large mature oaks. Given that RCWs prefer open "park like" settings with a minimum of hardwood subcanopy or canopy, it was unlikely that cavity construction was occurring. Trees not associated with hardwood subcanopies were usually either in small isolated stands or, in a residential/commercial setting with turf grass as ground cover.

One area of planted longleaf pine located at scrub jay transect number 11 had potential for supporting RCWs. Longleaf pine was dominant, the majority of which were young planted pine (10 feet in height). Turkey oak and persimmon were scattered throughout the woodland. Mature longleaf pine were large, up to 12 inch dbh or greater. The property was privately owned and clearly posted no trespassing. HDR scientists crossed the fenceline and surveyed trees within 300 ft. of existing right of way. No cavity trees were observed. Should surveys beyond this limit be deemed necessary, land owner information must be acquired prior to conducting additional surveys.

IV. DISCUSSION

The surveys completed found an absence of Florida Scrub Jays and Red-cockaded Woodpeckers along the project corridor. Potential habitat does exist for each species.

Florida Scrub Jay

Optimal Florida Scrub Jay habitat is oak shrubs between 1 and 3 m (3.2 to 9.7 ft.) tall (Fitzpatrick et al. 1991). The percent of total surface area represented by exposed sand can vary down to 10 to 15%. Less than this, the area is considered overgrown and unsuitable. Nearly all the scrub oaks and scrub oak communities along the SR 200 corridor were greater than 3 m in height; most ranging from 20 to 40 ft. With the exception of transects 11' and 12, none of the habitats surveyed had greater than 10% exposed sand. Sites 11' and 12 had exposed sand associated with maintained firebreaks along the right of way fence line. With proper management, including fire and possibly selective cutting, many of the Scrub Oak areas could be suitable for scrub jay colonization. Fitzpatrick suggests that the overall average territory size in good jay habitat is 9 ha (23 ac). Patches of scrub oak with potential for scrub jays were interspersed within overgrown areas and did not have the necessary acreage to support scrub jays

The overall poor quality habitat (generally overgrown) along the SR 200 corridor appear to support the results of the surveys. This does not completely rule out the occasional occurrence of jays, but active territories did not appear to be present.

Red-cockaded Woodpeckers

Due to the densely mixed assemblage of the pine/oak habitats, a comprehensive survey of all trees was not possible. All sides along the total length of each tree could not be viewed due to the dense coverage by oaks. This dense mixture of oak and pine is not desirable by RCWs and cavity construction was unlikely. Further, RCWs are unlikely to use these trees for foraging. There were no cavity trees within the proposed zone of impact. Due to the reduced quality of habitat and lack of cavity trees within the proposed right of way, impacts to any potential RCW colony in the region is not expected.

VI. LITERATURE CITED

- Baker, W. W., Thompson, R.L., and Engstrom, R.T. 1980. The distribution and status of red-cockaded woodpecker colonies in Florida: 1969-1978. *Florida Field Naturalist*. 8(2):41-45.
- Delotelle, R. S., Newman, J.R., and Jerauld, A.E. 1983. Habitat use by red-cockaded woodpeckers in central Florida. Pp. 59-67 *in* Red-cockaded Woodpecker Symposium II Proceedings (D.A. Wood, ed.), Florida Game & Fresh Water Fish Commission, U.S. Fish and Wildlife Service & U.S. Forestry Service.
- Shapiro, A. E. 1983. Characteristics of red-cockaded woodpecker cavity trees and colony areas in southern Florida. *FL. Sci.* 46:89-95.

APPENDIX A

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 1 (Louis)
North & South of Portico Terrace Rd

DATE & TIME: 10/25/95
8:00AM

WEATHER CONDITIONS:

Temperature: 68°F

Wind Speed: 1mph

Precipitation: 0

Visibility: > 1 mile, light fog

HABITAT TYPE:

FLUCFCS Code:

MAP Code: MO

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS: - Photo #1 - S. of Portico, Photo #2, N. of Portico

Redstart, Towhee, Common crow, Carolina wren,
N. Cardinal

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: *T1*

DATE & TIME: *10/20/95*
5:35pm

WEATHER CONDITIONS:

Temperature: *79° F*

Wind Speed: *1 mph*

Precipitation: *0*

Visability: *Clear*

HABITAT TYPE:

FLUCFCS Code:

MAP Code: *140*

Type (I, II, III):

OBSERVATIONS:

Number of individuals: *0*

Direction of approach:

OTHER COMMENTS:

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 1

DATE & TIME: 10/31/95
7:20^A

WEATHER CONDITIONS: Partly cloudy

Temperature: 68-70°

Wind Speed: Little wind

Precipitation: ∅

Visibility: A long ways

HABITAT TYPE:

FLUCFCS Code: —

MAP Code: —

Type (I, II, III): —

OBSERVATIONS:

Number of individuals: —

Direction of approach: —

OTHER COMMENTS:

Poor Habitat; residential neighborhood
w/ mature oaks. Conditions have succeeded beyond
ideal habitat

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 2 - So. of Arbor Lakes

DATE & TIME: 10/25/95
8:25 AM

WEATHER CONDITIONS:

Temperature: 65°F

Wind Speed: 4 mph

Precipitation: 0

Visibility: 7.5 miles

HABITAT TYPE:

FLUCFCS Code: /

MAP Code: MO

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS: - Photo #3
w. cardinal, Rufous-sided Towhee
Carolina Wren white-eyed Vireo

Sandhill oak, live oak, young long leaf P.
under ground cover 100% either
grasses or lichen

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: T 2

DATE & TIME: 10/26/95
5:40

WEATHER CONDITIONS:

Temperature: 78°F =

Wind Speed: 1 mph

Precipitation: 0

Visability: Clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code: M

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

Mocking bird

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 2

DATE & TIME: 7:35^A
10/31/95

WEATHER CONDITIONS:

Temperature: -

Wind Speed: -

Precipitation: -

Visability: -

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

- Am. Crow
- Blue Jay
- Phoebe

Overgrown Pine Flatwoods

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 3

Longbow loop

DATE & TIME: *8/25/95*

5:45

WEATHER CONDITIONS:

Temperature: *77°F*

Wind Speed: *12 mph*

Precipitation: *∅*

Visibility: *>*

HABITAT TYPE:

FLUCFCS Code:

MAP Code: *MO*

Type (I, II, III):

OBSERVATIONS:

Number of individuals: *∅*

Direction of approach:

OTHER COMMENTS: - *mature live oak, 100% ground cover*

Brown thrasher, Carolina wren
LC Pine
Common crow

*Photo #3, 4CR
5.4 km up, 6 km from
of Lyra, arrow*

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 73

DATE & TIME: 10/20/95
5:55 pm

WEATHER CONDITIONS:

Temperature: 78°F ±

Wind Speed: 1 mph

Precipitation: 0

Visability: Clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code: M0, L2, X

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS: Dense oak/pine woodland

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 3

DATE & TIME:

10/31/95
8:00 A

WEATHER CONDITIONS:

Temperature:

Wind Speed:

Precipitation:

Visability:

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: ✓

Direction of approach:

OTHER COMMENTS:

*Poor Habitat - overgrown Flatwoods w/ scattered residents
- Palm Weavers @ roads edge - canopy has shaded out ground cover*

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 4 - v. of olive lane

DATE & TIME: 12/25/95
7:30

WEATHER CONDITIONS:

Temperature: 50°F ±

Wind Speed: < 1 mph

Precipitation: ∅

Visability: > 10 miles

HABITAT TYPE:

FLUCFCS Code:

MAP Code: AG

Type (I, II, III):

OBSERVATIONS:

Number of individuals: ∅

Direction of approach:

OTHER COMMENTS: live oak woodland, heavy invasion
of Vitis, sumack on fringe photo #7

gray Catbird

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: *5 Across from Hernandez's Feed & Farm*

DATE & TIME: *10/25/95*
9:40

WEATHER CONDITIONS:

Temperature: *80°F±*

Wind Speed: *21 mph*

Precipitation: *0*

Visability: *>10mi*

HABITAT TYPE:

FLUCFCS Code:

MAP Code: *50*

Type (I, II, III):

OBSERVATIONS:

Number of individuals: *0*

Direction of approach:

OTHER COMMENTS: *turkey oak, sand pine oak, wiregrass*

25% open sand (lost, none observed)

Scattered longleaf pine

Photo's

*Bluejay
N. Cardinal
Carolina wren*

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: *T-5*

DATE & TIME: *10/26/95*
9:45

WEATHER CONDITIONS:

Temperature: *79°F±*

Wind Speed: *1 mph*

Precipitation: *0*

Visability: *Clear*

HABITAT TYPE:

FLUCFCS Code:

MAP Code: *50*

Type (I, II, III):

OBSERVATIONS:

Number of individuals: *1*

Direction of approach:

OTHER COMMENTS:

Caroline was

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: *75*

DATE & TIME: *10/27/95*
8:00 AM

WEATHER CONDITIONS:

Temperature: *65°F*

Wind Speed: *3 mph E*

Precipitation: *0 - Fog*

Visibility: *> 1/2 mile*

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: *1*

Direction of approach:

OTHER COMMENTS: *Thorough sampling - walking throughout scrub @ Adams Station*

*Blue Jay
Chickadee
Common Crow*

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 5

DATE & TIME: 10/31/95
8:45

WEATHER CONDITIONS:

Temperature:

Wind Speed:

Precipitation:

Visibility:

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

- Sandhill (overgrown) - Lots of turkey oak + wiregrass =
to good - Good for tortoise - commensals
kestrel
yello bluebirds
yellow-rump warb.
palm warbler phoebe
r.b. woodpeckers downy woodpeck
chickadee

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: #10 Across from Hernandez Vet. Clinic

DATE & TIME: 10/25/95
9:55

WEATHER CONDITIONS:

Temperature: 82°F

Wind Speed: 2 mph

Precipitation: 0

Visibility: > 10 mi

HABITAT TYPE:

FLUCFCS Code:

MAP Code: 50

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS: Sand pile + trunk cut, Longleaf pine - citrus dome stop
40% ground cover, 5% litter, 5% sand - access

Also dog fence + Summack

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 76

DATE & TIME: 10/26/95

9:35am

WEATHER CONDITIONS:

Temperature: 78°F±

Wind Speed: 1mph

Precipitation: 0

Visability: Clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code: 50

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: T6

DATE & TIME: 10/27/95
8:25 AM

WEATHER CONDITIONS:

Temperature: 67°F±

Wind Speed: 3 mph± (occasional gusts > 5 mph)

Precipitation: ∅

Visibility: 1 mile - fog - clearing

HABITAT TYPE:

FLUCFCS Code:

MAP Code: 50

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 2

Direction of approach:

OTHER COMMENTS: - jumped fence, walkin @ Citrus dome
Carolina Wren
N. Cardinal
SE Kestrel - Perched on lrg. dead pine snag

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 6

DATE & TIME: 10/31/95
9:00

WEATHER CONDITIONS:

Temperature:

Wind Speed:

Precipitation:

Visibility:

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 8

Direction of approach:

OTHER COMMENTS:

More sandhill

Photo
checkered
tower

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 7 *Just past culvert + wetland*

DATE & TIME: *10/25/95*
10:10 AM

WEATHER CONDITIONS:

Temperature: *83°F*

Wind Speed: *3 mph*

Precipitation: *0*

Visibility: *Clear*

HABITAT TYPE:

FLUCFCS Code:

MAP Code: *50*

Type (I, II, III):

OBSERVATIONS:

Number of individuals: *0*

Direction of approach:

OTHER COMMENTS:

Carolina wren

*Scrub oaks, Sand + long leaf Pine
*Palmetto . 25% bare sand
average oak height - 30'*

photo 8, 9

**Access, w. side
~100 N. of trail,
• station 2 (top line)*

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 77

DATE & TIME: 10/26/95
10:00 AM

WEATHER CONDITIONS:

Temperature: 80°F

Wind Speed: 1 mph

Precipitation: 0

Visability: clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code: 50

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

Blue jay
Heavy woodpecker - 1/2 bird

Stop 2 - edge of Palmetto & Myrica

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: T7

DATE & TIME: 10/27/95
8:45 AM

WEATHER CONDITIONS:

Temperature: 70°F

Wind Speed: 2 mph

Precipitation: 0

Visability: > 2 miles - earlier fog lifting

HABITAT TYPE:

FLUCFCS Code:

MAP Code: 50

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

N Cardinal

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: T7

DATE & TIME: 9:15 10/31/95

WEATHER CONDITIONS:

Temperature:

Wind Speed:

Precipitation:

Visibility:

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 2

Direction of approach:

OTHER COMMENTS:

Oak w/ palmetto substratum - overgrown scrub?
crow

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 78 @ CR491

DATE & TIME: 10/25/95
10:30 AM

WEATHER CONDITIONS:

Temperature: 83°F

Wind Speed: 3 mph

Precipitation: 0

Visibility: Clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code: S0

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS: Scrub oak, Eupatorium + grasses
-turkey oak, Palmetto, Sand pine
Long leaf pine oak heights between
15' - 25'
Black vultures over head
Coccyzus americanus
Generally a dense understory

photo - Eupatorium
in foreground

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: T 8

DATE & TIME: 10/26/95
10:20am

WEATHER CONDITIONS:

Temperature: 80° F

Wind Speed: 1 mph

Precipitation: 0

Visability: Clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code: 50

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

END OF T8

SITE NO./LOCATION: T8

DATE & TIME: 10/27/95
~~7:05~~ 9:15

WEATHER CONDITIONS:

Temperature: 76°F ±

Wind Speed: 2 mph

Precipitation: 0

Visability: clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code: Sc

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

Bluejays (4)
Common! Crows

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: *TD*

DATE & TIME: *9:30¹⁵*
10/31/95

WEATHER CONDITIONS:

Temperature:

Wind Speed:

Precipitation:

Visibility:

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: *0*

Direction of approach:

OTHER COMMENTS:

Intermitt. patches of oak hammock (unburned scrub)

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: T9 just So. of Power line @ Cedar Grove Church
turn off

DATE & TIME: 10/25/95
11:10

WEATHER CONDITIONS:

Temperature: 84°F

Wind Speed: 3 mph

Precipitation: 0

Visability: Clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code: LLS

Type (I, II, III):

OBSERVATIONS:

Number of individuals:

Direction of approach:

OTHER COMMENTS: Scattered Long leaf Pine, Scrub
oak, 20 to 30' in height

photo

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: *T9*

DATE & TIME: *10/20/95*
9:10

WEATHER CONDITIONS:

Temperature: *76°F*

Wind Speed: *0*

Precipitation: *0*

Visability: *Clear*

HABITAT TYPE:

FLUCFCS Code:

MAP Code: *LLS*

Type (I, II, III):

OBSERVATIONS:

Number of individuals: *0*

Direction of approach:

OTHER COMMENTS:

photo - w of
bird group

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: T 9

DATE & TIME: 10/27/95
10:00 AM

WEATHER CONDITIONS:

Temperature: 80°F

Wind Speed: 2 mph

Precipitation: 0

Visability: Clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code: LLS

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: T9

DATE & TIME: ~~10/31/95~~ 10/31/95
10:00

WEATHER CONDITIONS:

Temperature:

Wind Speed:

Precipitation:

Visibility:

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 2

Direction of approach:

OTHER COMMENTS:

scattered oak scrub + overgrown fu.

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 710 - 50 on shut 9.

DATE & TIME: 10/25/95

11:30

WEATHER CONDITIONS:

Temperature: 84°F

Wind Speed: 3 mph

Precipitation: ∅

Visability: clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code: 50 - miss mapped - is Pine/oak immature MO

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS: scrub live oak 20 to 40' in height, long leaf Pine
ground cover 55% litter, open areas
dominated by grasses & wildflowers

photo

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: *710*

DATE & TIME: *10/27/95*
10:30 AM

WEATHER CONDITIONS:

Temperature: *81° F*

Wind Speed: *2 mph*

Precipitation: *0*

Visability: *Clear*

HABITAT TYPE:

FLUCFCS Code:

MAP Code: *M0*

Type (I, II, III):

OBSERVATIONS:

Number of individuals: *3*

Direction of approach:

OTHER COMMENTS:

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: *710*

DATE & TIME: *10/31/95*
10:30

WEATHER CONDITIONS:

Temperature:

Wind Speed:

Precipitation:

Visability:

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: *0*

Direction of approach:

OTHER COMMENTS:

oak hammock

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 711

DATE & TIME: 10/25/95
11:50

WEATHER CONDITIONS:

Temperature: 84°F ±

Wind Speed: 2 mph ±

Precipitation: ∅

Visibility: Clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code: 225

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS: scattered mature Long Leaf Pine
dominant cover is young 10' tall pine
grassy understory, scattered oak
& pecan

N. cardinalis

Photo

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 711

DATE & TIME: 10/27/95
10:50 AM

WEATHER CONDITIONS:

Temperature: 81°F

Wind Speed: 2 mph

Precipitation: 0

Visability: Clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code: LLS

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

- 2 new start holes

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 711

DATE & TIME: 10/26/95
9:40am

WEATHER CONDITIONS:

Temperature: 75°F

Wind Speed: 0

Precipitation: 0

Visibility: 2 miles - distant fog

HABITAT TYPE:

FLUCFCS Code:

MAP Code: LLS

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

- Rufous side checker
- tufted titmouse
- black + white warbler
- Red bellied wren
- Pine Warbler

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: T11

DATE & TIME: 10/31/95
11:00

WEATHER CONDITIONS:

Temperature:

Wind Speed:

Precipitation:

Visability:

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

w/lt RW - probably not; worth mentioning
Slash Pine - No other sign or small stand

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: T11

DATE & TIME: 10/25/95
6:00 pm

WEATHER CONDITIONS:

Temperature: 78°F

Wind Speed: 1 mph

Precipitation: 0

Visability: clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code: LLS

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 711

DATE & TIME: 10/26/95
8:15

WEATHER CONDITIONS:

Temperature: 70°F ±

Wind Speed: 0

Precipitation: 0

Visability: Clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code: LLS

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS: scrub oak / turkey oak

Base sand along
fence line

wiegass
oaks from 10 to 30' in height

photo - skulls on
right - open
area on left

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: *T11*

DATE & TIME: *10/27/95*

10:05

WEATHER CONDITIONS:

Temperature: *82°F*

Wind Speed: *2 mph*

Precipitation: *0*

Visibility: *clear*

HABITAT TYPE:

FLUCFCS Code:

MAP Code: *L25*

Type (*I*, II, III):

OBSERVATIONS:

Number of individuals: *0*

Direction of approach:

OTHER COMMENTS:

Downey woodpecker

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: T12

DATE & TIME: 10/25/95
12:00 pm

WEATHER CONDITIONS:

Temperature: 84° F

Wind Speed: 4 mph

Precipitation: ∅

Visability: Clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code: LLS/50

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS: long leaf pine turkey oak, scattered scrub oak.
99% ground cover
- DEP - Cross Florida Greenway

Elias

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: *712*

DATE & TIME: *10/20/95*
7:50am

WEATHER CONDITIONS:

Temperature: *70°F ±*

Wind Speed: *0*

Precipitation: *0*

Visability: *Clear*

HABITAT TYPE:

FLUCFCS Code:

MAP Code: *LLS/50*

Type (I, II, III):

OBSERVATIONS:

Number of individuals: *0*

Direction of approach:

OTHER COMMENTS: *Long leg / Turkey oak,*

*Common oak -
One cedar*

*antida, gopher apple
L 1% exposed sand but
sandy /iebrake along fence*

215-978-0227

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: T12

DATE & TIME: 10/27/95
11.30 AM

WEATHER CONDITIONS:

Temperature: 83°F ±

Wind Speed: 2 mph

Precipitation: 0

Visability: Clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code: LL5

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: T12

DATE & TIME: 10/31/95

WEATHER CONDITIONS:

Temperature:

Wind Speed:

Precipitation:

Visibility:

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

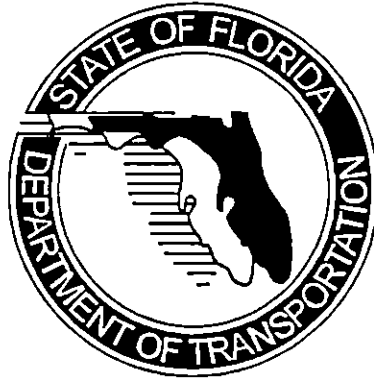
Number of individuals: 6

Direction of approach:

OTHER COMMENTS:

Property of MHEC - Florida Game and Fish Commission - DEP
4F ???

ADDENDUM TO
RESULTS OF SURVEYS FOR FLORIDA SCRUB JAYS AND
RED-COCKADED WOODPECKERS ON SR 200



FLORIDA DEPARTMENT OF TRANSPORTATION
DISTRICT FIVE

State Project Numbers: 02040-1503 and 36100-1524
Work Program Numbers: 5111615 and 5113521

SR 200 Widening From SR 45 to CR 484
Citrus and Marion Counties

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TABLE OF CONTENTS

Section	Page
I. INTRODUCTION	1
II. METHODOLOGY	1
III. RESULTS	1
IV. DISCUSSION.....	2
APPENDIX A.....	3

LIST OF TABLES

Number	Page
1. Results of Scrub Jay Surveys.....	2

I. INTRODUCTION

HDR Engineering completed surveys for Red-cockaded Woodpeckers (RCW) and Florida Scrub Jays along SR 200 between the dates of October 26 and October 31, 1995 (HDR INC. 1995). These surveys did not identify any RCW start holes or cavity trees. Scrub jays were not observed.

The report was submitted to the U. S. Fish and Wildlife Service by the FDOT for review and comment. USFWS biologists requested additional surveys be conducted for the scrub jay during the spring 1996 breeding season. Past element occurrence records provided by Archbold Biological Research Station located scrub jay families in the vicinity of transects T8, T11, T11' and T12. Due to the late timing of the original fall survey, the USFWS felt early spring surveys would confirm the presence or absence of scrub jays along the SR 200 Corridor.

II. METHODOLOGY

Methods outlined in the 1995 report were reproduced for the spring surveys with the following modifications:

1. Five consecutive survey events were conducted along each transect.
2. Survey of a given transect could be done both during AM and PM hours, with dual events (two surveys during one day) allowed on a limited basis.
3. All play back stations were located a minimum of 100 feet off of existing Right of Way, regardless of property ownership or fencing.
4. Surveys could begin as early as February 26th, 1996.

Surveys were completed between March 3 and March 6, with dual events (both AM and PM surveys) on March 3. All other surveys were completed during AM hours only.

III. RESULTS

Table 3 provides the results of the Scrub Jay Surveys. Field data sheets are provided in Appendix A. No scrub jays were observed on transects 11, 11', or 12. Scrub jays were observed on three of the five survey events on transect #8. One individual was observed during the AM surveys conducted on March 3rd and 4th and two individuals were observed during the March 6th surveys. Each observation was in a different location along the transect. On March 3, the bird approached from the west, perched in a slash pine tree and traded scolds with the tape recorder. On March 4th, one bird flew in from the east (across SR 200). Vocalizations were limited to single note whistles. The bird remained for approximately 5 minutes and then flew easterly out of sight. On March 6th, two individuals were observed at a distance of approximately 50 m perched in a slash pine 4 m in height. They did not respond to the tape. One individual preened its breast feathers

while the other flew into a thicket of fetterbush. After several minutes the preening bird flew in a westerly direction, out of sight.

Table 1. Results fo Scrub Jay Surveys

Transect No.	*Habitat Type	Date Surveyed and Number of Jays Observed				Total Survey Events
		**3-Mar	4-Mar	5-Mar	6-Mar	
8	SO	1	1	0	2	5
11	LLS	0	0	0	0	5
11'	LLS	0	0	0	0	5
12	LLS, SO	0	0	0	0	5

* SO = Scrub Oak, LLS = Longleaf Pine/Scrub Oak

** A.M. and P.M. Surveys

IV. DISCUSSION

The results of the spring surveys at transects 11, 11' and 12 duplicated the results from the fall surveys. No jays were observed.

Of the three observations of scrub jays on transect #8, only one individual responded with a territorial scold. All other observations found the jays to generally be disinterested in the taped broadcast. The lack of response suggests that the individuals observed were called in from outside of their territories (Bill Prante Archbold Biological Research Station pers. comm. 1996.).

The preferred alternative transitions from a west shifted to an east shifted alignment in the vicinity of transect #8. This transition reduces impacts to potential jay habitat and avoids impacts to habitat where the jays were observed.

Based on the small number of individuals observed and the general lack of territorial responses (scolding), it appears that established jay territories will not be impacted by the proposed roadway improvements.

APPENDIX A

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: T8

DATE & TIME: 3 March 96

WEATHER CONDITIONS:

Temperature: 55°F

Wind Speed: < 2 mph, gusts to 25 mph

Precipitation: 0

Visibility: Clear - no clouds

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 2

Direction of approach: from the west

OTHER COMMENTS:

- junior crow
- 1st bird
- Red bellied woodpecker
- Yellow green sapsucker
- chickadee
- Blue jay

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: *852/96*
TS

DATE & TIME: *3-3-96*
4:00pm

WEATHER CONDITIONS:

Temperature: *2-5 mph ~ 72°F*

Wind Speed: *2-5 mph*

Precipitation: *0*

Visability: *Clear*

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

~~Number of individuals:~~ *1*

Direction of approach:

OTHER COMMENTS:

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: *TE*

DATE & TIME: *3/4/96*
9.45 AM

WEATHER CONDITIONS:

Temperature: *55°F*

Wind Speed: *0*

Precipitation: *0*

Visability: *clear*

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: *2*

Direction of approach: *from east*

OTHER COMMENTS: *near road entrance*

*Blue jay
saw
gray catbird*

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 8

DATE & TIME: 3/5
8:30 - 9:30

WEATHER CONDITIONS:

Temperature: 70°

Wind Speed: 5

Precipitation: 0

Visability: clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 78

DATE & TIME: 8:05 AM 3-6-96

WEATHER CONDITIONS:

Temperature: 65°F!

Wind Speed: 5 mph!, gusty 28 mph.
(beginning ~ 9:30 AM)

Precipitation: 0

Visibility: Clear / overcast

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 2

Direction of approach: Retreated to the west

OTHER COMMENTS:

Eastern bluebird
red bellied woodpecker
Mocking bird
yellow rumped warbler
Northern cardinal
Carolina chickadee
ruby crowned kinglet
red sided towhee

2 individuals observed. Observed seconds after starting tape, perched in small oak. Did not respond to tape - one flew westward ~ 50' & dove into Lyonia shrubs. The 2nd bird remained & preened for ~ 1 min. then flew into Lyonia. Both eventually flew westward until out of sight.

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: *T11*

DATE & TIME: *3-3-96*

11:30

WEATHER CONDITIONS:

Temperature: *70°*

Wind Speed: *3-4 mph*

Precipitation: *0*

Visability: *clear*

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: *4*

Direction of approach:

OTHER COMMENTS:

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: T11

DATE & TIME: 3-3-96
5:00 pm

WEATHER CONDITIONS:

Temperature: 70°F

Wind Speed: 2 mph

Precipitation: 0

Visability: clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

light tracks foraging over marsh on east side

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: *T11*

DATE & TIME: *3-4-96*

9:00 AM

WEATHER CONDITIONS:

Temperature: *70°F*

Wind Speed: *2-5 mph, gusts to 7 mph*

Precipitation: *0*

Visability: *Clear*

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: *0*

Direction of approach:

OTHER COMMENTS:

Hummingbirds nested on power lines

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: T11

DATE & TIME: 10:45 - 11:15

WEATHER CONDITIONS:

Temperature: 75

Wind Speed: 5mph

Precipitation: 0

Visibility: Clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 1

Direction of approach:

OTHER COMMENTS:

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 711'

DATE & TIME: 3/5 9:45-10:45

WEATHER CONDITIONS:

Temperature: 75°

Wind Speed: 5

Precipitation: 0

Visability: clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 711

DATE & TIME: 3/6/96

9:45

WEATHER CONDITIONS:

Temperature: 73°F

Wind Speed: 3-6 mph

Precipitation: 0

Visibility: clear scattered clouds

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

common crow
quail
yellow rumped warbler
red shouldered hawk

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 712

DATE & TIME: 10:45

WEATHER CONDITIONS:

Temperature: 68° F

Wind Speed: 2 mph gusts to 5 mph

Precipitation: 0

Visability: Clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number-of-individuals: 0

Direction of approach:

OTHER COMMENTS:

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 712

DATE & TIME: 3-3-96
5:30 pm

WEATHER CONDITIONS:

Temperature: 68°F

Wind Speed: 2 mph

Precipitation: 0

Visability: Clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: T12

DATE & TIME: 3-4-96
10:30 AM

WEATHER CONDITIONS:

Temperature: 75°F

Wind Speed: 3-5 - occasional gust to 8 mph⁺

Precipitation: 0

Visability: Clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: 12

DATE & TIME: 3/5
11:20-12:00

WEATHER CONDITIONS:

Temperature: 75

Wind Speed: 5

Precipitation: 0

Visability: Clear

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

FIELD DATA SHEET FOR SCRUB JAY SURVEYS

PROJECT: SR 200 from SR 45 TO CR 484 In Citrus and Marion Counties

SITE NO./LOCATION: T12

DATE & TIME: 3/4/96

11:15

WEATHER CONDITIONS:

Temperature: 78°F

Wind Speed: 4-7 mph

Precipitation: 0

Visibility: clear - scattered clouds

HABITAT TYPE:

FLUCFCS Code:

MAP Code:

Type (I, II, III):

OBSERVATIONS:

Number of individuals: 0

Direction of approach:

OTHER COMMENTS:

