

LONG-TERM MONITORING AND MANAGEMENT OF RESTORED WETLANDS IN FLORIDA



RESTORE WETLANDS TO THEIR NATURAL, HISTORIC STATE PRIOR TO HYDROLOGICAL MANIPULATION AND CONVERSION TO AGRICULTURE

- 178,172 ACRES UNDER EASEMENT, 120 PROPERTIES
- MANAGE IN PERPETUITY FOREVER'S A LONG TIME!!!!!
- ANNUAL MONITORING OF ALL RESTORED SITES
- HABITAT MANAGEMENT BASED ON MONITORING RESULTS ENSURE PROGRAM GOALS MET

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION - MONITORING





MONITORING PARAMETERS

- DEED VIOLATIONS OR UNAUTHORIZED ACTIVITIES CUA OR NO
- EXISTING CUA BEING FOLLOWED
- OBJECTIVES OF MANAGEMENT PLANS MET GRAZING PLAN, WRPO, ETC.
- INSTALLED PRACTICES PROPERLY OPERATED/MAINTAINED WCS, DIKE, DITCH PLUGS, ETC.
- RESTORATION OBJECTIVES BEING MET
- PROPER HYDROLOGY PRESENT
- PROPER VEGETATION PRESENT
- INVASIVE EXOTIC OR NUISANCE SPECIES PRESENT
- AREAS OF CONCERN
- RECOMMENDED ENHANCEMENTS



ANNUAL MONITORING WORKSHEET

County/Parish

Select the Appropriate Program: OEWPP-FPE OEWRP OFRPP OGRP OHFRP OWRP

Landowner(s)	Phone Monitoring Date
NEST Agreement & Parcel Number	Other identifying name or number
Monitor(s)	Affiliation if other than NRCS

The purpose of monitoring is to ensure compliance with program policy, the terms of easement deeds, evaluate restoration progress, determine restoration repairs or enhancements needed to ensure maximum environmental benefits, and to maintain contact with landowners or partners. Staff with applicable expertise should collect the monitoring information. Partners with the appropriate technical expertise may be authorized to conduct monitoring reviews. The landowner or decision maker should be offered the opportunity to participate in monitoring reviews.

Photographs from designated points are recommended when conducting onsite monitoring.

Methods of Monitoring

0	Landowner contact and answer question 1 of this worksheet. Only applicable in the year immediately following onsite monitoring that did not require corrective actions or had no violations.
	A review of the most recent aerial photography and answer questions 1, 3 and 4 of this worksheet.
	At a minimum; a cursory onsite visit, a landowner contact and answer questions 1, 2, 3 and 4 of this worksheet. Only applicable during the pre-restoration phase.
	At a minimum; landowner contact, a review of available aerial photography and answer all questions on this worksheet.

	Landowner Information
1)	A. Landowner Contact (attempted) Date Contact Method
	Date of verification Verified by
	C. If there is a new landowner, were they notified of the easement and have records been updated? (If yes, Onsite Monitoring is required for the next 2 years) VES NO New landowner name(s) (if applicable)
	D. Follow up requested by landowner
2)	Was the landowner or decision maker present during the review? \bigcirc YES \bigcirc NO

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4 PRIMARY NRCS CONSERVATION PRACTICES UTILIZED IN WRP/WRE TO MANAGE WILDLIFE HABITAT

- EXOTIC AND NUISANCE VEGETATION CONTROL CHEMICAL
- BRUSH MANAGEMENT ROLLER CHOPPING, GRINDING, SHREDDING, MOWING, ETC.
- PRESCRIBED BURNING
- PRESCRIBED GRAZING

USE MULTI-PRONG APPROACH FOR MAXIMUM RESULTS - BURN THEN CHEMICALLY TREAT, CHOP THEN BURN, ETC.

PURPOSE OF VEGETATION MANAGEMENT PRACTICES

- SET BACK SUCCESSION CONTROL WOODY INVASION
- CONTROL INVASIVE EXOTIC AND NUISANCE SPECIES
- MAINTAIN/RESTORE PROPER ECOLOGICAL STRUCTURE AND STATE UPLANDS & WETLANDS
- FIRE ADAPTED COMMUNITIES REGENERATION (CUTTHROAT GRASS, SAWGRASS, CYPRESS, PINE)

CONSERVATION PRACTICE CAVEATS

- EXOTIC AND NUISANCE VEGETATION CONTROL UF/IFAS RECOMMENDATIONS, APPLY TIME OF YEAR WHEN MOST EFFICIENT/LETHAL
- BRUSH MANAGEMENT BASED ON WILDLIFE BENEFIT NOT CATTLE BENEFIT
- PRESCRIBED BURNING ECOLOGICAL BURNS, NATURAL/HISTORICAL FIRE REGIME, MOSAIC, BUT RECOGNIZE ANY BURN IS BETTER THAN NO BURN
- PRESCRIBED GRAZING BASED ON HABITAT BENEFIT NOT ECONOMIC BENEFIT, NRCS GRAZING PLAN, ROTATIONAL GRAZING, COMMUNITY SPECIFIC RECOMMENDATIONS, STUBBLE HEIGHT BY SPECIES

EXOTIC & NUISANCE CONTROL - CAROLINA WILLOW



BRUSH MANAGEMENT - HEAVY ROLLER CHOPPING





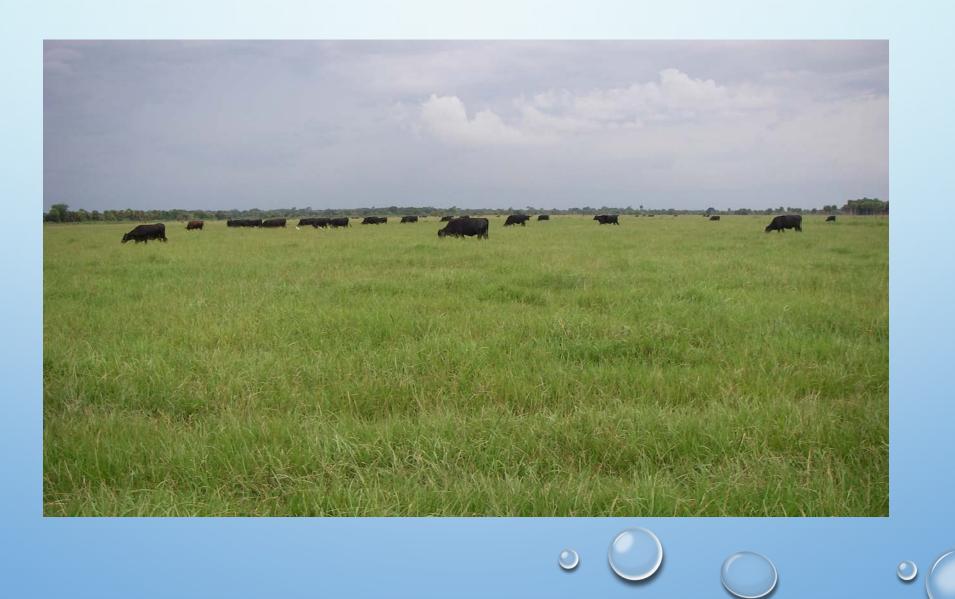




PRESCRIBED BURNING - CUTTHROAT SEEP



PRESCRIBED GRAZING





- FWC ANNUAL MONITORING AND HABITAT MANAGEMENT PLANS
- USACE EXOTIC VEGETATION CONTROL (CHEMICAL & MECHANICAL) AND FENCE
- FFS PRESCRIBED BURNING
- LANDOWNERS BRUSH MANAGEMENT AND PRESCRIBED GRAZING (COMPATIBLE USE AUTHORIZATION AND JOB SHEETS REQUIRED)

QUESTIONS?

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