

# Specific Habitat Management Practices, By Activity

## HABITAT CONTROL

### GRAZING MANAGEMENT

(Refer to Appendix D - Livestock Recommendations, for information to help prepare a specific grazing proposal for the plan.)



Continuous grazing without rest is detrimental to wildlife.

Grazing management, which may include deferment, is the planned manipulation of livestock numbers and grazing intensities to increase food, cover, or improve structure in the habitat of selected species. Grazing management includes: 1) kind and class of livestock grazed, 2) determination and adjustment of stocking rates, 3) implementation of a grazing system that provides planned periodic rest for pastures by controlling grazing intensity and duration, and/or 4) excluding livestock from

sensitive areas to prevent trampling, allow for vegetative recovery, or eliminate competition for food and cover. Planned deferments can be short or long term up to 2 years. Extended rest from grazing (two years or more, if necessary) may be required on some ranges. Seasonal stocker operations may be appropriate to manipulate habitat. Supplemental livestock water (earthen tanks, troughs, wells, piping) to facilitate deferred-rotation grazing of livestock and disperse grazing pressure may be incorporated into planning to improve wildlife habitat. Similarly, it is important to plan and design fence construction to facilitate deferred-rotation grazing of livestock. Fencing can also be used to enhance or protect sensitive areas, woodlands, wetlands, riparian areas and spring sites as designated in plan. Activities should be reviewed annually.

Grazing management systems might include:

- 1 Herd / 3 Pasture (preferably as a step in moving toward a 1 herd / multiple pasture {4+} grazing system)
- 1 Herd / 4 Pasture
- 1 Herd / multiple pasture multiple herd / multiple pasture (goal is to move toward always resting 75% of area)
- High intensity/low frequency (HILF)

- Short duration system
- Other type of grazing system (ex. a short-term stocker system):
- Planned Deferment (e.g., number of years livestock will be deferred from the property, etc.):

## **PRESCRIBED BURNING**

(Refer to Appendix E - Vegetation Management Recommendations, for information to help prepare a specific burning proposal for the plan.)

Prescribed burning is the planned application of fire to enhance habitat and plant diversity, increase food, manipulate cover, or improve structure in the habitat of selected species. Plans should indicate a minimum percent of acreage and general burning cycle



**(eg., minimum of 33 percent of acreage annually burned in coastal marshes, 15 percent in wooded uplands, and 20 percent in rangeland).** Attach a written burning plan as an addendum to the Wildlife and Habitat Management Plan (burn plans and prescribed burning should only be attempted with aid of professionals). The plan should include a map that shows the areas to be

burned and the planned dates (month and year) that each area will be burned during the burning cycle. It should also designate areas to be protected from burning, and should incorporate flexibility during periods/ years when conditions are not favorable. Specific areas (eg., sensitive sites) to be protected from burning should be briefly described and shown on a map.

## **RANGE ENHANCEMENT (Range Reseeding)**

Establish native herbaceous plants (grasses and forbs) that provide food and cover for wildlife or erosion control benefits. Plant species selected and methods for establishment should be applicable to the county (non-native species are generally not recommended, but if required for a specific purpose, non-native species should not exceed approximately 25 percent of the seeding mix). Seeding mixtures providing maximum native plant diversity are recommended. Many herbaceous broadleaf plants (known as forbs - weeds and wildflowers) are beneficial to wildlife for forage and/or seed production. See key species adapted to the Gulf Prairies and Marshes in Appendix on Native Prairie planting and procedures). Encourage “weed and wildflower”

species by selective application of chemical, biological (eg. grazing management) and/or mechanical means on native rangelands, Conservation Reserve Program lands, and tame grass pastures (eg. coastal bermuda). Some periodic weed control may be needed in fields converted to native rangeland to assist in the establishment of desirable vegetation. This practice must be a part of an overall habitat management plan and be designed to reestablish native habitats within a specified time frame. **Range enhancement should annually affect a minimum of 10% of the total area designated in the plan, or a minimum of 10% annually, whichever is smaller, until the project is completed.**

## **BRUSH MANAGEMENT**

(Refer to Appendix E - Vegetation Management Recommendations, for information to help prepare a specific brush management proposal for the plan.)

Brush management may be the removal or establishment of woody plants.

It can be the selective removal or suppression of target woody species, including exotics, to allow the increased production of desirable trees, shrubs, grasses, and forbs for forage and nesting or protective cover for selected species.

**Brush Management practices should annually**

**affect a minimum of 10% of the total area designated in the plan, or a minimum of 10 acres annually, whichever is smaller.** This practice includes retaining the proper kind, amount, and distribution of woody cover for selected species. Brush management planning must consider wildlife cover requirements, soil types, slope angle and direction, soil loss and erosion factors, and subsequent planning to control re-invasion. This practice also includes retention of snags to provide cover and nesting sites for cavity nesting animals. When used, herbicides should be applied in strict accordance with label directions.

**This practice can include the planting of 150 native tree and shrub species per acre per year for the area designated in the plan** to provide food, corridors and/or shelter using species and methods as described in appendices.

## **TIMBER/BOTTOMLAND HARDWOOD MANAGMENT**

Periodic harvest, removal or suppression of trees or woody species, including exotics, to allow the increased production of desirable trees, shrubs, grasses, and forbs for



forage and nesting or protective cover for selected species. Timber management includes retaining the proper kind, amount, and distribution of woody cover for selected species. This practice also includes retention of snags to provide cover and nesting sites for cavity nesting animals. When used, herbicides should be applied in strict accordance with label directions. This includes pre-commercial thinning or non-commercial thinning which involves reducing the stocking levels in a stand to increase the amount of sunlight that reaches the ground to increase the growth or production of herbaceous vegetation or browse plants in the understory. Establish native tree and shrub species to provide food and cover using species and methods applicable to the county (some non-native exceptions may be noted where native species have limited success for addressing the limiting factors for wildlife). When used, herbicides should be applied in strict accordance with label directions. Restore important forested habitats including bottomland hardwoods, bogs, and upland hardwoods. **A minimum of 150 native seedlings/acre/year for the area designated in the plan.** Avoid fragmentation of large forested habitats. Maintain at least 100 yards of buffer habitat along each side of streams. This practice should be part of an overall habitat management plan and consultation with a professional forester is recommended.

## **RIPARIAN MANAGEMENT AND ENHANCEMENT**

Annually and seasonally protect the vegetation and soils in riparian areas (low areas on either side of stream courses) from mismanagement, such as caused by excessive, long-term livestock trampling or caused by poor timber harvest practices. Riparian management and enhancement can include providing livestock with alternate watering sites, deferring livestock grazing in pastures with riparian areas during critical periods of the year, total exclusion of livestock from pastures with riparian areas, and fencing riparian areas to exclude or provide short duration grazing by livestock. Establish trees, shrubs, or herbaceous vegetation along streams or water courses to provide food, cover, and travel corridors, and to reduce erosion. Corridors should be at least 100 yards wide. Restore important forested habitats including bottomland hardwoods and turkey roost sites. **A minimum of one Riparian Management and Enhancement project must be implemented and maintained every 10 years to qualify.** See Appendix E.

Proposed riparian management and enhancement projects might include:

- Fencing
  - complete fencing of riparian areas
  - partial fencing of riparian areas
- Deferment from livestock grazing
  - complete deferment
  - partial deferment.
- Establish vegetation
  - trees
  - shrubs
  - herbaceous

- both sides of stream
- one side only

### **WETLAND ENHANCEMENT**

Annually provide seasonal or permanent water for roosting, feeding, or nesting habitat for wetland wildlife. This practice involves shallow wetland management, creation or restoration, greentree reservoir creation or management, and other moist soil management. Selective herbicide applications may be necessary for control of problem wetland vegetation. Annual management as described in management plan, such as water level manipulation qualifies.



Over 50% of Texas' wetlands have disappeared. Wetland management, restoration or creation is extremely important for wetland dependent wildlife.

**Construction and maintenance of a new project will qualify for 10 years.**

### **HABITAT PROTECTION FOR SPECIES OF CONCERN**

Planned protection and management of land or a portion of land to provide habitat for an endangered, threatened or rare species, such as fencing off critical areas, managing vegetation structure and diversity within species parameters, establishing and maintaining firebreaks to protect critical overstory vegetation, and annually monitoring the species of concern. This practice includes the management/protection of nesting sites, feeding areas, and other critical habitat limiting factors, and the development of additional areas.



The broad-scale management of habitat for migrating/wintering/ breeding neotropical birds (primarily songbirds) should follow guidelines in appendix for zones of importance (See Appendix J).

(Refer to Appendix I for information on the management of the Southern Bald Eagle,

Houston Toad, Attwater's Prairie Chicken, Ocelot, Jaguarundi, and other species of concern that occur in portions of the Gulf Prairies and Marshes.)

**A minimum of one project must be implemented every 10 years to qualify.**

Proposed projects for habitat protection for species of concerns might include:

- Planned protection/management projects:
- fencing
- firebreaks
- prescribed burning
- habitat manipulation (e.g. thinning, etc.)
- control of nest parasites
- native/exotic ungulate control
- other \_\_\_\_\_

### **PRESCRIBED CONTROL OF NATIVE, EXOTIC AND FERAL SPECIES**



Feral hogs compete directly with native wildlife, and very destructive of habitats.

Use legal means to control the number of grazing and browsing animals. Maintain the population density of native wildlife (particularly white-tailed deer — see Appendix F) at the carrying capacity of the habitat to prevent overuse of desirable plant species and enhance habitat for native wildlife species. Populations of exotics, feral animals, and wildlife should be strictly controlled to minimize negative impact on native

wildlife and habitat. This should incorporate harvest and vegetative monitoring over time to assess control intensity and impact on habitat to meet plan objectives.

Remove or control exotic vegetation impacting native habitats and wildlife populations (eg. large stands of Chinese tallow trees, McCartney rose, etc.). Convert tame pasture grasses (such as large areas of coastal bermuda) to native vegetation. **The removal or control of exotic vegetation or the conversion of tame grass pastures must affect a minimum of 10% of the area designated in the plan, or 10 acres annually, whichever is smaller.**

## WILDLIFE RESTORATION

Restoration or enhancement of habitat to good condition for target species, and reintroduction and population management of TPWD approved native species within the carrying capacity of the habitat as part of an approved restoration area at a scale capable of supporting a sustainable population (eg. eastern turkey).

