

1-D-1 Open Space Agricultural Valuation Wildlife Management Plan for the Year(s) 2021 Submit this plan to your County Chief Appraiser, not to Texas Parks and Wildlife Department 2021

Part I. Owner Infor	mation	Account Nu	umber: <u>N</u>	J/A
Owner's Name:	Laurel T	reviño M., Outreach Coordi	nator, Shalene Jha	, Ph.D. Lab
Current mailing a	ddress:	Integrative Biology, The U	niversity of Texas a	at Austin
City, town, post o	office, sta	te and zip code: 78712		
Phone number:	512-232	2-3521		
Tract Name:	Example	e of all applicable practices	Majority County:	Travis
Additional Counti	es (if any	/): Hays	-	

Part II. Property Description

Legal Description of Property: Example of all applicable practices for educational purposes
Location of Property (distance and direction from nearest town; specify highway/road numbers):
Texas Hill Country South of Austin, 50 years ago former land use: ranching, current use: restoration
Is Acreage under high fence: Yes No Partial: (Describe) <u>8-ft North, 4-ft East bound</u>
Edwards Plateau (7 TPWD) Total Acreage: 10 acres Ecoregion Balcones Canyonlands (30c EPA)
(refer to Comprehensive Wildlife Management Planning Guidelines)
Habitat Types and Amounts of Acres:
☐ Cropland
Non-native Pasture
☑ Native Range/Brush <u>3 ac</u> ☑ Other (describe) Oak Juniper Savannah climax vegetation type
III. Species targeted for management. (List all that apply. Attach additional page(s) if needed)
☐ Deer ☐ turkey ☐ quail ☐ songbirds ☐ waterfowl ☐ doves ☐ bats
Neotropical songbirds (List)
□ Reptiles (list) □ Amphibians (list)
□ Small mammals (list)
☑ Identified species of concern (List) SGCN & native bee functional groups (TPWD manual)
https://tpwd.texas.gov/huntwild/wild/wildlife_diversity/nongame/native-

Part IV. Management Plan Goals and Objectives

Describe the wildlife management <u>goals</u> (what you want the property to look like, or want to be able to do with it) and <u>objectives</u> (how you intend to achieve these goals) for this piece of property. You may use an additional page if needed. (Note: This space will expand as you type.)

Restore Oak-Juniper Savannah, enhance wildflower prairies/meadows for native bees/pollinators

Part V. Qualifying Wildlife Management Activities

Check the wildlife management practices to be im that will support and achieve your management get	plemented on the property during the coming year bals. A minimum of three practices is required.
 ☑ Habitat control ☐ Erosion control ☐ Predator control ☑ Making census counts to determine population. 	 Provide supplemental supplies of water Provide supplemental supplies of food Provide shelters

Part VI. White tail Deer and Mule Deer Population Management

Is hunting to be a part of th	is wildlife management	plan? 🛛 🛛 Yes	No
If YES, type of hunting:	Lease hunting	⊠ Family/guests only	Both
List deer harvest for past th	ree seasons:		
Year: 20 years ago	Bucks:		Does:
Year:	Bucks:		Does:
Year:	Bucks:		Does:
Population Management G	oals:		
Target Density for P	re-season Deer Populat	tion (fall density)	
Target Sex Ratio (do	bes/buck):		
Target Production (f	awns/doe):		
Other (may be age,	weight, antler measurer	ments, browse conditions	s, etc.
Deer Harvest Strategy (nur	nbers, types of deer to I	be harvested to achieve	goals):
Take sick, diseased	excessive amt. that ca	use over-browsing of nat	ive forbs, shrubs, trees

Part VII. Wildlife Management Association Membership

Are you a member of a wildlife property association? ☐ Yes ☐ No Name of wildlife property co-op/association, if YES is checked.	Are you a member of a wildlife management association (co-op)?	☐ Yes	X No	
Name of wildlife property co-op/association, if YES is checked.	Are you a member of a wildlife property association?	🗌 Yes	🛛 No	
	Name of wildlife property co-op/association, if YES is checked.			

Part VIII. Wildlife Management Activities

Check the activities you intend to implement during the year to support each of the wildlife management activities listed in Part V.

1. HABITAT CONTROL
☑ Grazing management. Check grazing system being utilized. □ 1 herd/3pasture □ 1 herd/4 pasture □ 1 herd/multiple pasture □ High intensity/low frequency (HILF) □ Short duration system □ Other type of grazing system (describe) Prevent deer browsing within fence exclosures to conserve forbs (wildflowers) Additional Information: Apply to 1% of site where pollinator management is practiced p.26 TPWD
Image: Contract certified professional to burn date: Ite fall after grass seed shed Additional Information: Contract certified professional to burn small pocket prairies/meadows
 Range Enhancement (Range Reseeding) Acres to be seeded: <u>10% or 10 acres</u> Date to be seeded: <u>Fall (Oct 1) or Spring (Mar 1)</u> Seeding Method: Broadcast □ Drilled □ Native Hay Seeding mixture to be used: <u>9 sp. native wildflower 3 sp. bunchgrass (min 8 dry/3 wet areas)</u> Fertilized: □ Yes ⊠ No Weed control needed for establishment? ⊠ Yes □ No Additional Information: <u>3 different sp. per season Spring, Summer, Fall (Spring & Fall in dry areas)</u>
⊠ Brush Management. Acres to be treated: ~5 acres _ Check method of brush management: □ Mechanical □ grubber □ chain □ roller chopper/aerator □ rhome disc □ brush hog (shredder) □ dozer ☑ hand-cutting (chainsaw) □ hydraulic shears □ other (describe): Prevent soil compaction/erosion □ Chemical Kind: Rate: In winter = not foraging season ☑ Brush management design: □ □ block ☑ mosaic □ strips: width: Length: Additional Information: Thin juniper/yaupon, retain hardwood logs/snags & grass stalks
 ☑ Fence Modification Target species: □ pronghorn antelope □ bighorn sheep Technique: □ fold up bottom of net-wire Gap width: □ replace sections of net-wire with barbed wire. Gap width: Miles of fencing that will be modified: □ replace entire net-wire fence with barbed wire. Miles replaced: Additional Information: Exclosures keep deer from browsing native flowering forbs, shrubs, trees

 Riparian management and enhancement Fencing of riparian area Complete fencing Partial fencing Deferment from livestock grazing
□ Complete deferment □ partial deferment Season deferred : □ Establish vegetation □ Trees (list species) American sycamore (Platanus occidentalis) □ Shrubs (list species) □ Button bush (Cephalanthus occidentalis), □ Shrubs (list species) □ Black willow (Salix nigra) □ Y Herbaceous species (list) □ Pigeonberry (Rivina humilis), Gold groundsel □ Additional Information: _ Virginia creeper (Parthenocissus quinquefolia), Grape (Vitis mustangensis)
 Wetland enhancement Provide seasonal water Provide permanent water Moist soil management Other (describe) Small pond or water catchement good but not necessary Additional Information: Cavity-nesting mason bees need mud to build nests/butterfly mud puddling
 Habitat Protection for species of concern Fencing Firebreaks Prescribed burning Control of nest parasites Habitat manipulation (thinning, etc.) Native/exotic ungulate control Other (describe) Clean wood/bamboo nests annually after bees emerge in spring Additional Information: Exclosure fences around wildflowers. Appendix B, SGCN rare native bees
 ☑ Fencing □ Firebreaks □ Prescribed burning ☑ Control of nest parasites □ Habitat manipulation (thinning, etc.) □ Native/exotic ungulate control ☑ Other (describe) Clean wood/bamboo nests annually after bees emerge in spring

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2. EROSION CONTROL
 Pond construction and repair Surface area (acres): <u>Small</u> Number of cubic yards of soil displaced: Length of dam (feet): <u>Planned date of construction</u>: Additional Information: <u>A permanent source of water is preferable but not necessary</u>
☑ Gully shaping Total acres to be treated: Acres treated annually: Seeding mix used for reestablishment of vegetation: Favor perennial native forb & grass Planned date of construction: Winter, NOT during pollinator foraging season, Spr-Fall Additional Information: Install rock/log berms (branches, grass, mulch tucked upslope of berm)
 Streamside, pond, and wetland revegetation. Techniques used: Native hay bales Fencing Filter strips Seeding upland buffer Rip-rap, etc. stream crossings Other: Planned date of construction: Winter, NOT during pollinator foraging season, Spring-Fall Additional Information:
☑ Herbaceous and/or woody plant establishment on critical areas (erodible) □ Establish windbreak ☑ Establish shrub mottes ☑ Improve plant diversity □ Improve wildlife habitat ☑ Conservation/no-till practices □ Manage CRP cover Prevent soil compaction & erosion. Plant native bunchgrasses & forbs. Additional Information: Ground-nesting bees need small patches of non-compacted bare soil, p.26
 Dike/Levee Construction/Management Reshaping/repairing erosion damage Install water control structure Fencing Additional Information: If revegetating, use native plants local to the Ecoregion listed above
Establish water diversion Type: Channel Ridge Slope: level graded Length (feet) Vegetated: No Yes If Yes: Native: Crop: Additional Information:

3. PREDATOR CONTROL	
 Imported red fire ants (verify prior to application that product is labeled for pasture use) Control of cowbirds Grackle/starling/house sparrow control Method of control: Trapping Shooting Baiting Scare tactics 	
 □ Coyotes X Feral hogs □ Raccoon □ Skunk □ Bobcat □ Mountain lion □ Rat snakes X Feral cats/dogs □ Method of control: □ Trapping □ Shooting □ M-44 (licensed applicators) □ Poison collars (1080 certified, licensed, applicator) □ Other Additional Information: Ants, hogs disturb ground-nesting bees, cats kill birds who spread seeds 	
4. SUPPLEMENTAL WATER	
 Marsh/Wetland Restoration or Development Greentree reservoirs Shallow roost pond development Seasonally flooded crops Artificially created wetlands Marsh restoration/development/protection Prairie pothole restoration/development/protection Prairie pothole restoration/development/protection Planned date of construction: If managing, abstain during rainy & foraging seasons Additional Information: 1% plot bare ground, mason bee mud nest material, butterfly mud puddling 	
 ☑ Well/trough/windmill overflow/other wildlife watering facilities □ Drill new well Depth: Gallons per minute: □ Windmill □ Pump □ Pipeline: Size: Length: □ Modification(s) of existing water source □ Fencing □ Overflow □ Trough modification □ Pipeline Distance between water sources (waterers): Type of wildlife watering facility: 	
PVC pipe facility # Drum with faucet or float #	
Small game guzzler # Windmill supply pipe dripper #	
Plastic container # In-ground bowl trough #	
☐ Big game guzzler # Inverted umbrella guzzler # ☐ Flying saucer guzzler # ☐ Ranch Specialties guzzler #	
Other: Any small permanent source of fresh aerated water enhances habitat, Additional Information: but is not as necessary as nest/food habitat is	
Spring development and/or enhancement Fencing Water diversion/pipeline Spring clean out Other:	

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Additional Information:
5. PROVIDING SUPPLEMENTAL FOOD
□ Grazing management ☑ Prescribed burning ☑ Range enhancement □ Food plots Size: Fenced: □ Yes □ No □ Irrigated: □ Yes ☑ No Plantings: □ Cool season annual crops: □ Warm season annual crops: ☑ Annual mix of native plants: Native bee plants per Ecoregion ☑ Perennial mix of native plants: Native bee plants per Ecoregion Mix annual/perennials, 9 spp native plants (3 bloom/season). If not Additional Information: possible, minimum of 8 spp., 3 season (wet areas), 2 spp/season (dry)
Feeders and mineral supplementation Purpose: Supplementation Targeted wildlife species: Feed type: Mineral type: Feeder type: Number of feeders: Method of mineral dispensing: Number of mineral locations: Year round: Yes If not, state when: Additional Information:
 Managing tame pasture, old fields and croplands Overseeding cool and/or warm season legumes and/or small grains Periodic disturbance (Discing/Mowing/Shredding) Conservation/no-till Native legumes: bluebonnet (Lupinus texensis), Senna lindheimeriana, Additional Information: Illinois bundleflower (Desmanthus illinoensis) (more below)
 ☑ Transition management of tame grass monocultures ☑ Overseed 25% of tame grass pastures with locally adapted legumes Species planted: ☑ Clover ☑ Peas □ Vetch □ Other: <u>Native legumes</u> Prairie clover (Dalea emarginata), gold prairie clover (Dalea aurea), Additional Information: partridge pea (Chamaecrista fasciculata) (more above)

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6. PROVIDING SUPPLEMENTAL SHELTER
☑ Nest boxes Target Species: 25% are cavity-nesters: occupy/carve holes in soft wood ☑ Cavity type. # wood □ Bat boxes. # □ Raptor pole. # Additional Information: Woodblocks, bamboo shoots (diameter & length of a pencil shaft)
☑ Brush piles and slash retention ☑ Type: ☑ Slash ☑ Brush piles Number per acre: Iow wildfire fuel Additional Information: Leave some grass stalks and small pithy stems for small cavity-nesters
☑ Fence line management Length: Initial establishment: ☐ Yes ☐ No Plant type established: ☐ Trees ☐ Shrubs ☐ Forbs ☐ Grasses Additional Information: _ Exclusion fences around food plots where native seed is sown (1%)
 ☑ Hay meadow, pasture and cropland management for wildlife Acres treated:
Half-cutting trees or shrubs Acreage to be treated annually: <u>thickets</u> Number of half-cuts annually: <u>winter</u> Additional Information: <u>Only old/damaged trees</u> , leave stumps/logs for carpenter bees
☑ Woody plant/shrub establishment Pattern: □ Block ☑ Mosaic □ Strips: Width: Acreage or length established annually: Spacing: Shrub/tree species used: Substitution Symphoricarpos Additional Information:
☑ Natural cavity/snag development Species of snag: Oak, Elm Size of snags: Number/acre: Additional Information: 25% native bees are cavity nesters, occupy/carve holes in old wood

7. CENSUS
 ☑ Spotlight counts Targeted species: Native bees on flowers per instructions below Length of route: 2x50m at 5m/min. Visibility of route: Dates (3 required) A. April ~15 B. July ~15 C. October ~15 Additional Information: walk 1 transect/acre (160 ft x 6 ft) 15 minutes steady pace, ID bees & fls
☑ Standardized incidental observations Targeted species: Native Bees Observations from: □ Feeders □ Food plots □ Blinds □ Vehicle ☑ Other _ on flower Dates: _ April ~15, July ~15, October ~15 or 2x (foraging season), same period/yr, 3 yrs Additional Information: _ w3.biosci.utexas.edu/jha/wp-content/uploads//Pollinator-Habitat-Surveys
Stand counts of deer (5 one hour counts per stand required). Number of stands: Dates: Additional Information:
Aerial Counts Species counted:
Track counts: Predators Furbearers Other: Additional Information:
☐ Daylight deer herd/wildlife composition counts Species: ☐ Deer ☐ Turkey ☐ Dove ☐ Quail ☐ Other Additional Information:
☐ Harvest data collection/record keeping: ☐ Deer ☐ Game birds ☐ Age ☐ Weight ☐ Sex ☐ Antler data ☐ Harvest date Additional Information:
Browse utilization surveys (thirty 12-foot circular plots required) Additional Information:
☑ Census of endangered, threatened, or protected wildlife. Species:

Additional Information: veg survey: 10 1x1m quadrats per 4m of transect (4x4ft square/12ft)		
☑ Census and monitoring of nongame wildlife species. Species: Native bees (see above) Method and dates: Fixed route survey: 1 transect/acre 2x50m (160x6 ft) 15 min Additional Information: Sp, Sum, Fall, or 2x in foraging season, same period 3-5 consecutive yr		
Miscellaneous Counts: Species being counted: Native Bees Remote detection (i.e., cameras) Hahn (walking) line Roost counts Booming ground counts Time/area counts Songbird transects and counts Quail call and covey counts Point counts Small mammal traps Drift fences and pitfall traps Bat departures Dove call counts Chachalaca counts Turkey hen/poultry counts Waterfowl/water bird counts Alligator nest/census counts Other: Modified Survey (see webpage above) Additional Information: Estim. abundance/sp. monitor diversity/abundance 3-5yr population trend		

IX. Additional Supporting Information. (Optional)

Attach any other supporting information, such as maps or photographs that you believe to be relevant to this wildlife management plan.

I certify that the above information provided by me in this application is to the best of my knowledge and belief, true and complete.

Landowner	Signature

Date

This area for use only if the wildlife management plan was prepared for the above landowner for a fee by a wildlife professional or consultant. *

	The University of Texas, Austin
Signature of person preparing wildlife management plan.	Date
Laurel Trevino M.	2021
Company	Phone Number

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Appraiser. Please inquire with your County Central Appraisal District on any local laws concerning any information collected through this form.