

STAFF SUMMARY FOR JUNE 16-17, 2021

4. ANNUAL PRIVATE LANDS WILDLIFE HABITAT ENHANCEMENT AND MANAGEMENT PLANS (CONSENT)**Today's Item**Information ☐Action ☒

Consider approving annual private lands wildlife habitat enhancement and management (PLM) plans and 2021-2022 licenses for 37 properties.

Summary of Previous/Future Actions (N/A)**Background**

Fish and Game Code sections 3400-3409, and Title 14 Section 601, prescribe conditions for a PLM program that provides incentives for landholders to manage their property for the benefit of fish and wildlife in exchange for access to increased recreational opportunities, such as hunting tags or extended seasons ("harvest program"). In return for a harvest program, the landholder must prepare a biologically sound wildlife management plan and complete specific wildlife habitat improvements on the PLM property.

There are three types of actions associated with the PLM program: an initial five-year PLM license; an annual list of PLM seasons, harvests, and habitat improvements; and a five-year PLM license renewal. Conditions for the PLMs are unique to each participant's property.

Proposed annual seasons, harvests, and habitat improvements for the thirty-seven PLM properties have been reviewed by DFW and found to be in compliance with FGC regulations and policies for PLMs; applicants have identified the location where records will be kept and made available for inspection (Exhibit 1).

Significant Public Comments (N/A)**Recommendation (N/A)**

FGC staff: Approve annual seasons, harvests, and habitat improvements for 37 PLM properties as recommended by DFW, under a motion to adopt the consent calendar.

DFW: Approve 37 annual PLM licenses and plans, under the conditions specified in Exhibit 2.

Exhibits

1. [DFW memo, received Jun 1, 2021](#)
2. [PLM Area License: Annual Renewals, 2021/2022, Proposed Seasons, Harvests, and Habitat Improvements, received Jun 1, 2021](#)

Motion

Moved by _____ and seconded by _____ that the Commission adopts the staff recommendations for items 3-7 on the consent calendar.

Received June 1, 2021.
Original signed copy on file.

Memorandum

Date: May 18, 2021

To: Melissa Miller- Henson
Executive Director
Fish and Game Commission

From: Charlton H. Bonham
Director

Subject: **Agenda Item for the June 16-17, 2021 Fish and Game Commission Meeting
Private Lands Wildlife Habitat Enhancement and Management (PLM) Area
Licenses**

The Department of Fish and Wildlife (Department) has reviewed the Annual renewals, 5-year renewals, and Initial Management Plans for 45 properties in 15 counties consisting of approximately 283,362 acres.

The Annual renewal PLM areas were previously licensed under Commission regulations Section 601, Title 14, California Code of Regulations. Full payment was made for all tags used in 2020, and all habitat work was completed.

The Initial and 5-year renewal management plans are in compliance with Commission policy for private lands management. The applicants have identified the location where records will be kept and made available for inspection. Public notices were published in local newspapers, and certified letters were mailed to adjacent landowners with notification of the Initial applicants' intent to enter into the program. No letters of concern were received by the Department.

Habitat improvements accomplished under these plans will enhance and maintain wildlife resources on and around the PLM areas. The goals and objectives stated in the management plans are compatible with Department management plans for appropriate species in these areas. In addition, access to public lands will not be diminished under implementation of these management plans.

The Department recommends that the Commission approve the specified wildlife management plans, applications, and each 2021/22 harvest program under conditions specified in the attached table.

Melissa Miller-Henson, Executive Director
Fish and Game Commission
May 18, 2021
Page 2

If you have any questions, please contact Ms. Victoria Barr at (916) 203-0567 or by email at Victoria.barr@wildlife.ca.gov.

Attachment

cc: Stafford Lehr, Deputy Director
Wildlife and Fisheries Division
Stafford.Lehr@wildlife.ca.gov

Scott Gardner, Branch Chief
Wildlife Branch
Scott.gardner@wildlife.ca.gov

Brad Burkholder
Environmental Program Manager
Wildlife Branch
Brad.burkholder@wildlife.ca.gov

David Casady
Senior Environmental Scientist Supervisor
Wildlife Branch
David.casady@wildlife.ca.gov

Victoria Barr, Environmental Scientist
Wildlife Branch
Victoria.barr@wildlife.ca.gov

PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS

NORTHERN REGION		
PLM Area	Proposed Season and Harvest	Habitat Improvement Program
ANTLER HILL RANCH DEER ZONE A MENDOCINO 930 ACRES	<p>Authorized Harvest: 5 forked-horn or better buck deer</p> <ul style="list-style-type: none"> • Issue 5 buck deer tags for the period July 10, 2021 through November 30, 2021. • No more than 3 buck deer may be taken after September 26, 2021. 	<ul style="list-style-type: none"> ➤ Remove coyote brush from at least 6 acres that is encroaching into grasslands to promote forb growth for mule deer food. ➤ Remove 200 feet of woven wire fencing in deer travel corridors. ➤ Clear at least 1.50 acres of chamise by hand, mechanical treatment, or burning. ➤ Remove at least 75% of the overstory on 3 acres of timberland, to allow the growth of new browse for mule deer.
ASH VALLEY RANCH DEER ZONE X3A LASSEN 8,736 ACRES	<p>Authorized Harvest: 4 forked-horn or better buck deer and 1 buck pronghorn antelope</p> <ul style="list-style-type: none"> • Issue 6 buck deer tags for the period of August 21, 2021 through November 30, 2021. • No person shall take more than 1 buck deer annually in the X zones. • In no case shall the number of tags issued be used to exceed the authorized harvest. • The number of tag holders actively hunting shall not exceed the number of deer available to harvest. • Issue 1 buck pronghorn antelope tag for the period of August 7, 2021 through September 30, 2021. 	<ul style="list-style-type: none"> ➤ Remove noxious weeds from at least 20 acres by grubbing and/or chemical application to promote food for mule deer and pronghorn. ➤ Maintain areas previously enhanced for deer and pronghorn through rotational grazing prescriptions. ➤ Remove new growth of juniper on previously treated 180 acres to maintain high quality habitat for mule deer and pronghorn.

PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
BASIN VIEW RANCH DEER ZONE X2 MODOC 8,500 ACRES	<p>Authorized Harvest: 7 forked-horn or better buck deer and 1 buck pronghorn antelope</p> <ul style="list-style-type: none"> • Issue 7 buck deer tags for the period of October 18, 2021 through November 30, 2021. • No person shall take more than 1 buck deer annually in the X zones. • Issue 1 buck pronghorn antelope tag for the period of September 1, 2021 through September 30, 2021. 	<ul style="list-style-type: none"> ➤ Remove all Western junipers from 50 acres (unit 10) to encourage shrub and forb recruitment to provide food for mule deer and pronghorn. ➤ Maintain 10 miles of interior fencing that controls livestock movement and grazing on areas set aside for mule deer and pronghorn. ➤ Exclude livestock grazing from 1 of the rotation management units (775 acres) year-round to promote high-quality forage for mule deer and pronghorn. ➤ Till and seed perennials grasses on 90 acres in Unit 9. ➤ Maintain and repair any damage to 5 ponds and springs to provide water for wildlife. ➤ Establish 50 bitterbrush plants in unit 4 to provide food for pronghorn.
BIG BLUFF RANCH DEER ZONE B5 TEHAMA 3,736 ACRES	<p>Authorized Harvest: 8 deer of which no more than 5 may be forked-horn or better buck deer and 3 may be antlerless deer</p> <ul style="list-style-type: none"> • Issue 8 either-sex deer tags for the period of August 7, 2021 through November 28, 2021 • No antlerless deer shall be harvested before September 15, 2021. 	<ul style="list-style-type: none"> ➤ Maintain and improve the Red Bank Restoration Project improvements (native vegetation restoration of 30 acres along 3 miles of creek) by repairing any damage to the livestock control fencing and irrigating until plants are fully established. ➤ Maintain the water development at Miller Place as needed to provide water for wildlife by repairing any damage to the system. ➤ Maintain the wildlife-friendly fence below Sunflower Dam to exclude livestock and allow wildlife access to wetlands. ➤ Participate in the Sunflower Coordinated Resource Management Program, which is working, in part, to improve wildlife habitat on the surrounding 40,000 acres. ➤ Continue to participate in the CAL FIRE Vegetation Management Program to manage mixed chaparral fuels, enhance wildlife habitat, and reduce exotic weeds.

PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
BLACK RANCH SHASTA DEER ZONE C3 1,000 ACRES	<p>Authorized Harvest: 2 forked-horn or better buck deer, 2 antlerless deer, 1 bull elk, and 1 antlerless elk</p> <ul style="list-style-type: none"> • Issue 2 buck deer tags for the period of September 1, 2021 through November 30, 2021. • Issue 2 antlerless deer tags for the period of September 15 through November 30, 2021 • Issue 1 bull elk tag for the period of August 1, 2021 through November 30, 2021. • Issue 1 antlerless elk tag for the period of August 1, 2021 through November 30, 2021 	<ul style="list-style-type: none"> ➤ Maintain the 145-acre wetlands project that was constructed last year to re-establish the native hydrology of the floodplain to Burney Creek. ➤ Maintain 4 owl boxes, 7 bat boxes, and 6 goose nesting platforms by checking use and replacing nesting material, as necessary. ➤ Maintain wood duck box program. ➤ Limit livestock grazing to a 5-acre pen and barn area (exclusion area is 990 acres).
CLARKS VALLEY RANCH DEER ZONE X3B LASSEN 2,793 ACRES	<p>Authorized Harvest: 3 forked-horn or better buck deer</p> <ul style="list-style-type: none"> • Issue 3 buck deer tags for the period of August 16, 2021 through November 30, 2021. • No person shall take more than 1 buck deer annually in the X zones. 	<ul style="list-style-type: none"> ➤ Maintain at least 10 acres of treated juniper areas through removal of all young junipers to maintain high-quality habitat for mule deer. ➤ Maintain 3 aspen and willow enclosures to promote reestablishment by maintaining cattle exclusion fencing. ➤ Continue rotational grazing by resting a different pasture each spring to protect critical wildlife habitat areas and aspen stands. ➤ Continue to improve 55 acres of riparian habitat in Clarks Valley, through planning, implementation, and field work.
DUNCAN CREEK RANCH DEER ZONE B5 SHASTA 1,366 ACRES	<p>Authorized Harvest: 6 forked-horn or better buck deer</p> <ul style="list-style-type: none"> • Issue 8 buck deer tags for the period August 21, 2021 through November 30, 2021. • In no case shall the number of tags issued be used to exceed the authorized harvest. • The number of tag holders actively hunting shall not exceed the number of deer available to harvest. 	<ul style="list-style-type: none"> ➤ Burn at least 20 acres of decadent brush to improve mule deer forage.

PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
EL RANCHO RIO FRIO DEER ZONE B5 TEHAMA 12,682 ACRES	<p>Authorized Harvest: 24 forked-horn or better buck deer</p> <ul style="list-style-type: none"> • Issue 24 buck deer tags for the period of August 15, 2021 through November 30, 2021. • No more than 12 deer may be harvested after October 24, 2021 	<ul style="list-style-type: none"> ➤ Approximately 6,000 acres of decadent chaparral burned during the August Complex fire therefore there is no plan for additional burning. ➤ Continue to maintain a 3-acre irrigated forage plot for exclusive use by mule deer by first ripping to dislodge brush and then spraying brush sprouts with herbicide. ➤ Seed any mechanically disturbed areas with a mix of perennial grasses and annual clovers to provide food for mule deer.
FIVE DOT RANCH- AVILA DEER ZONE X3A LASSEN 11,000 ACRES	<p>Authorized Harvest: 6 forked-horn or better buck deer and 1 buck pronghorn antelope</p> <ul style="list-style-type: none"> • Issue 10 buck deer tags for the period of September 12, 2021 through November 30, 2021. • No person shall take more than 1 buck deer annually in the X zones. • In no case shall the number of tags issued be used to exceed the authorized harvest. • The number of tag holders actively hunting shall not exceed the number of deer available to harvest. • Issue 1 buck pronghorn antelope tag for the period of August 7, 2021 through September 19, 2021. 	<ul style="list-style-type: none"> ➤ Continue reduced livestock use at 300-400 head (previously 450 head) to maintain high-quality habitat for mule deer and pronghorn. ➤ Cut down 300 juniper trees from north of Ambrose Reservoir to enhance pronghorn habitat. ➤ Continue to exclude livestock from 7 aspen and wetland habitat enclosures by inspecting fencing and making any necessary repairs. These areas provide important deer fawning habitat. ➤ Maintain 6 nesting platforms for Canada geese at 4 reservoirs by checking use and replacing nesting material as necessary. ➤ Cut and disperse 100 mountain mahogany branches with ripe seeds in order to recruit young plants to provide forage for mule deer. ➤ Maintain 6 existing springs by checking for broken pipes and repairing as necessary to provide water for wildlife. ➤ Maintain 4 existing reservoirs by inspecting spillways and dams for damage and making any necessary repairs.

PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
<p>FIVE DOT RANCH - HORSE LAKE</p> <p>DEER ZONE X5A</p> <p>LASSEN</p> <p>8,025 ACRES</p>	<p>Authorized Harvest: 1 forked-horn or better buck deer and 1 buck pronghorn antelope</p> <ul style="list-style-type: none"> • Issue 1 buck deer tag for the period of September 12, 2021 through November 30, 2021. • No person shall take more than 1 buck deer annually in the X zones. • Issue 1 buck pronghorn antelope tag for the period of August 7, 2021 through September 19, 2021. 	<ul style="list-style-type: none"> ➤ Maintain rehabilitation project to Coon Camp Springs and associated riparian vegetation on 20 acres by excluding cattle (allow grazing for 4-5 days only) and maintenance on the water storage tank, solar panel, and troughs within the project area. ➤ Continued clearance of juniper trees in an 80-acre area to enhance riparian and wildlife habitat. ➤ Defer livestock grazing of the 300-acre Packard Field until after July 1 to improve duck and goose brood survival. Grazing will occur between July 2, 2021 and October 1, 2021. ➤ Maintain 5 goose nesting platforms at Packard Reservoir and Coon Camp Reservoir as needed. ➤ Knock seed off bitterbrush plants so cattle can stomp them into the ground for plant regeneration. Bitterbrush regeneration will be monitored annually through photo monitoring to track growth and success of the practice.
<p>FIVE DOT RANCH – SCHOOL SECTION</p> <p>DEER ZONE X5A</p> <p>LASSEN</p> <p>640 ACRES</p>	<p>Authorized Harvest: 1 forked-horn or better buck deer</p> <ul style="list-style-type: none"> • Issue 1 buck deer tag for the period of September 12, 2021 through November 30, 2021. • No person shall take more than 1 buck deer annually in the X zones. 	<ul style="list-style-type: none"> ➤ Maintain livestock exclusion fence around a 3-acre aspen stand by inspecting it regularly and making any necessary repairs. ➤ Cut and disperse 50 mountain mahogany branches with ripe seeds in order to recruit young plants. Conduct photo monitoring to track growth and success of the practice.

***PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS***

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
<p>FIVE DOT RANCH - TUNNEL SPRINGS</p> <p>DEER ZONE X5A</p> <p>LASSEN</p> <p>2,600 ACRES</p>	<p><i>Authorized Harvest:</i> 1 forked-horn or better buck deer and 2 buck pronghorn antelope</p> <ul style="list-style-type: none"> • Issue 1 buck deer tag for the period of September 12, 2021 through November 30, 2021. • No person shall take more than 1 buck deer annually in the X zones. • Issue 2 buck pronghorn antelope tags for the period of August 7, 2021 through September 19, 2021. 	<ul style="list-style-type: none"> ➤ Repair damaged livestock-exclusion fencing with wildlife-friendly fencing at Tunnel Springs. ➤ Retain water in 2 reservoirs at 50% of the current year's water capacity for wildlife. ➤ Remove 100 junipers from around Tunnel Springs and the reservoirs. ➤ Knock seeds off bitterbrush plants in the fall so cattle can stomp them into the ground for plant regeneration. Bitterbrush regeneration will be monitored annually using photos to track growth and success of the practice. ➤ Maintain the solar panel water pump system that keeps 12 water troughs full to provide water for wildlife. ➤ Coordinate with BLM to facilitate the gathering of wild horses on the property as soon as possible.

***PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS***

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
<p>FIVE DOT RANCH - WILLOW CREEK</p> <p>DEER ZONE X4</p> <p>LASSEN</p> <p>7,200 ACRES</p>	<p><i>Authorized Harvest:</i> 7 forked-horn or better buck deer and 2 buck pronghorn antelope</p> <ul style="list-style-type: none"> • Issue 8 buck deer tags for the period of September 12, 2021 through November 30, 2021. • No person shall take more than 1 buck deer annually in the X zones. • In no case shall the number of tags issued be used to exceed the authorized harvest. • The number of tag holders actively hunting shall not exceed the number of deer available to harvest. • Issue 2 buck pronghorn antelope tags for the period of August 7, 2021 through September 19, 2021. 	<ul style="list-style-type: none"> ➤ Repair any damaged livestock-exclusion fencing around 4 aspen and willow stands totaling 30 acres that provide deer fawning habitat. ➤ Crush at least 35 acres of snowbrush to provide new palatable forage at different sites in Sections 21, 22, 27, or 28. Photo monitoring will be conducted to track growth and success of the practice. ➤ Exclude livestock grazing on at least one acre on the North pond on the east side of SR 139, to benefit waterfowl and watering wildlife. ➤ Retain water in reservoirs and ponds at 50% of the current year's water capacity for wildlife by filling them as needed. ➤ Leave the third cutting of alfalfa on 100 acres west of Hwy 139 for deer and pronghorn antelope use. ➤ Maintain a 50-acre field of alfalfa and grass, providing forage for deer. ➤ Maintain 4 goose nesting platforms at Round Valley Reservoir. ➤ Continue to maintain the 150-foot radius Bald eagle protection area in section 30. ➤ Leave 100 acres of bitterbrush in the Windmill Field for wildlife. ➤ Leave 50 acres of native vegetation in the triangle field between SR 139 and Horse Lake Road for wildlife use.

***PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS***

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
<p>FOUR PINES RANCH</p> <p>DEER ZONE B1</p> <p>MENDOCINO</p> <p>2,001 ACRES</p>	<p><i>Authorized Harvest:</i> 12 forked-horn or better buck deer and 4 antlerless deer</p> <ul style="list-style-type: none"> • Issue 12 buck deer tags for the period of July 16, 2021 through November 30, 2021. • Issue 4 antlerless deer tags for the period of September 15, 2021 through November 30, 2021. • No more than 6 buck deer may be harvested after October 24, 2021. 	<ul style="list-style-type: none"> ➤ Maintain 7 previously improved springs and 2 existing ponds to provide water for wildlife. ➤ Develop 1 spring to provide additional water for wildlife. ➤ Plant and maintain 0.25-acre forage plot with legumes for wildlife use in section 1, 7, 11, 12, or 13. Maintain existing forage plots for exclusive use by wildlife. ➤ Treat 0.25 acres of invasive weeds in section 1, 7, 11, 12, or 13, by hand manipulation or herbicides, to encourage native vegetation growth. ➤ Remove 100 feet of interior fence to enhance wildlife passage in section 1, 7, 11, 12, or 13. ➤ Create a 0.25-acre opening through dense brush in section 1, 7, 11, 12, or 13 to enhance wildlife access to forage. ➤ Remove encroaching conifer seedlings and saplings in 0.25 acres of oak woodlands in section 1, 7, 11, 12, or 13. ➤ Restrict livestock grazing to no more than 50 head of cattle during the winter and spring to maintain habitat quality for mule deer. ➤ Plant 50 willow shoots at existing water sources; improve existing willow patches by trimming to encourage growth. ➤ Create 3 brush piles for wildlife cover. ➤ Maintain and/or improve existing water sources at dams/ponds to provide water for wildlife.

***PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS***

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
<p>HATHAWAY OAK RUN RANCH</p> <p>DEER ZONE C3</p> <p>SHASTA</p> <p>6,640 ACRES</p>	<p><i>Authorized Harvest:</i> 12 forked-horn or better buck deer</p> <ul style="list-style-type: none"> • Issue 12 buck deer tags for the period of September 19, 2021 through November 30, 2021. • No more than 9 buck deer may be harvested after October 24, 2021. 	<ul style="list-style-type: none"> ➤ Maintain the 6-acre riparian livestock exclusion on Swede Creek by inspecting fencing and making any necessary repairs. ➤ Maintain or improve 7 springs that provide year-round water for wildlife by checking for broken pipes and repairing as necessary and clearing sediment and vegetation from the sources. ➤ Maintain existing deer forage areas by diverting spring water over the maximum area possible and along the contour through a shallow ditch system. ➤ Promote vernal pool flora and fauna by using cattle grazing to protect and maintain 2 vernal pools in Sections 9 and 18. ➤ Maintain previously installed owl boxes along Oak Run Creek by checking use and replacing material as necessary.
<p>JERUSALEM CREEK RANCH</p> <p>DEER ZONE B5</p> <p>SHASTA</p> <p>726 ACRES</p>	<p><i>Authorized Harvest:</i> 4 forked-horn or better buck deer</p> <ul style="list-style-type: none"> • Issue 4 buck deer tags for the period of August 7, 2021 through November 30, 2021. 	<ul style="list-style-type: none"> ➤ Maintain 2 water sources that provide water for wildlife by checking for broken pipes and repairing as necessary. ➤ Thin at least 5 acres of dense thickets of stunted interior live oak trees by cutting trunks from multi-trunk trees. The new shoots provide high-quality forage for wildlife. ➤ Mechanically treat a minimum of 5 acres decadent Ceanothus or white leaf manzanita.

PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
JS RANCH DEER ZONE C3 SHASTA 6,500 ACRES	<p>Authorized Harvest: 12 forked-horn or better buck deer and 1 bull elk</p> <ul style="list-style-type: none"> • Issue 12 buck deer tags for the period of August 1, 2021 through November 30, 2021. • No more than 6 buck deer may be harvested after October 24, 2021. • Issue 1 bull elk tag for the period of August 1, 2021 through November 30, 2021. 	<ul style="list-style-type: none"> ➤ Retain vegetation for wildlife cover along irrigation canal banks to the extent it does not interfere with ditch maintenance. ➤ Manage grazing to prevent erosion and retain browse and grass for wildlife use. ➤ Maintain water in irrigation canals year-round to provide water for wildlife ➤ Continue to maintain at least 750 acres of irrigated pastures for wildlife use. ➤ Maintain at least a 50-acre irrigated pasture for elk foraging in the north east corner of the ranch and the Rock Garden Flats. ➤ Mechanically control the spread of extensive blackberry thickets within a 650-acre area. Bramble margins and some interior areas will be cut or crushed to reduce blackberry water consumption and increase forage. ➤ Install water bars on dirt roads adjacent to Cow Creek to prevent sediment erosion into the creek. ➤ Maintain the exclusion of livestock from 0.50 miles of riparian area by inspecting exclusion fencing and repairing any damage. ➤ Maintain at least 4 food plots for wildlife forage. ➤ Maintain cattle exclusion fencing and replant 50 acres within 4 wildlife food plots. ➤ Maintain the livestock exclusion area of 1,000 acres to provide forage for wildlife during late summer and early fall. Livestock are excluded from June 1 through October 31. ➤ Enhance and maintain ponds by enlarging and repairing spillways and dams and making any other necessary repairs. ➤ Maintain a 200-acre fenced area with no human disturbance or cattle grazing for wildlife use year-round.

***PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS***

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
<p>LOOKOUT RANCH</p> <p>DEER ZONE X1</p> <p>MODOC</p> <p>6,880 ACRES</p>	<p><i>Authorized Harvest:</i> 6 forked-horn or better buck deer</p> <ul style="list-style-type: none"> • Issue 6 buck deer tags for the period of August 15, 2021 through November 30, 2021. • No person shall take more than 1 buck deer annually in the X zones. 	<ul style="list-style-type: none"> ➤ Renovate and re-level at least 80 acres of wild rice to improve water storage for waterfowl. ➤ Remove western junipers from 3 acres at Moon Pasture. ➤ Plant 250 willows in the Buck Pasture draw below the third pond and 250 willows in the southwest corner of the marsh. ➤ Plant 30 acres of millet, chufa, and dwarf corn on the eastside marsh to be left unharvested and un-grazed, 12 acres of wild rice to be left unharvested in Buck Pasture, 10 acres of barley to be left unharvested in Bass Pond, and 15 acres in the pivot corners to provide forage for wildlife. ➤ Rotate 200 head of cattle through deeded ground. During summer, graze 75% of cattle on private lease ground, then bring cattle back to the ranch in fall to manage crop residue that restricts plant growth and development. ➤ Build at least 5 brush piles (average size of 12 x 8 ft.) in the Moon Pasture to provide escape cover for wildlife.

PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
MENDIBOURE RANCH DEER ZONE X5B LASSEN 8,840 ACRES	<p>Authorized Harvest: 3 forked-horn or better buck deer and 1 buck pronghorn antelope</p> <ul style="list-style-type: none"> • Issue 6 buck deer tags for the period of October 2, 2021 through October 31, 2021. • No person may take more than 1 buck deer annually in the X zones. • In no case shall the number of tags issued be used to exceed the authorized harvest. • The number of tag holders actively hunting shall not exceed the number of deer available to harvest. • Issue 1 buck pronghorn antelope tag for the period of August 28, 2021 through September 12, 2021. 	<ul style="list-style-type: none"> ➤ Maintain aspen and willow livestock exclosure fencing at Etchecopar Spring, Van Loan Creek, and Big Springs by checking and repairing fencing if needed. ➤ Remove at least 25 junipers from the Big Springs area. Create brush piles from these removed trees. ➤ Maintain at least 7 acres of dryland alfalfa and reseed as necessary for wildlife. Construct a wildlife-friendly fence to exclude cattle from the plot. ➤ Maintain springs and water sources. ➤ Cut at least 150 mountain mahogany branches with ripe seeds and disperse on the ground to recruit young plants. ➤ Maintain perimeter fences to keep cattle excluded from habitat enhancement areas. Any repairs are replaced with wildlife friendly fencing. ➤ Continue rotational cattle grazing so that the residual dry matter does not fall below 40% using the Double-Weight sampling technique.
OBSERVATION PEAK RANCH DEER ZONE X5B LASSEN 640 ACRES	<p>Authorized Harvest: 1 forked-horn or better buck deer</p> <ul style="list-style-type: none"> • Issue 1 buck tag for the period of September 25, 2021 through November 30, 2021. 	<ul style="list-style-type: none"> ➤ Seed 1 acre of mountain mahogany at a rate of 0.20 lbs./acre to promote establishment of adult plants to provide food for mule deer. ➤ Water 100 bitterbrush seedlings during the summer to promote establishment of adult plants to provide food for mule deer. ➤ Plant 100 bitterbrush seedlings with protection tubes to promote establishment of adult plants to provide food for mule deer.

PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
RED ROCK RANCH DEER ZONE X3B LASSEN 6,887 ACRES	<p>Authorized Harvest: 7 forked-horn or better buck deer, 2 buck pronghorn antelope, and 1 bull elk</p> <ul style="list-style-type: none"> • Issue 7 buck deer tags for the period of August 16, 2021 through November 30, 2021. • No person shall take more than 1 buck deer annually in the X zones. • Issue 2 buck pronghorn antelope tags for the period of August 16, 2021 through November 30, 2021. • Issue 1 bull elk tag for the period of August 16, 2021 through November 30, 2021. 	<ul style="list-style-type: none"> ➤ Restore 33 acres of aspen meadow in Red Rock Creek, Quaking Creek, and Bare Creek. This year includes field work, planning, and implementation. ➤ Maintain the livestock fencing at 2 springs near Windy Flat to exclude livestock. ➤ Inspect and make any necessary repairs to the livestock exclusion fencing around 2 aspen and willow stands that provide deer fawning habitat. ➤ Maintain aspen enclosure in Boot Lake Canyon, west of Boot Lake, to exclude livestock grazing and encourage the development of additional fawning habitat. ➤ Continue rotational grazing to rest at least 1 meadow for wildlife cover and forage. ➤ Maintain Little Boot Lake and Little Boot Springs through inspection, evaluation, and repair.
RICKERT RANCH DEER ZONE C3 SHASTA 4,441 ACRES	<p>Authorized Harvest: 9 forked-horn or better buck deer and 1 bull elk</p> <ul style="list-style-type: none"> • Issue 10 buck deer tags for the period of August 1, 2021 through November 30, 2021. • Only 5 buck deer shall be harvested after October 25, 2021. • In no case shall the number of tags issued be used to exceed the authorized harvest. • The number of tag holders actively hunting shall not exceed the number of deer available to harvest. • Issue 1 bull elk tag for the period of August 1, 2021 through November 30, 2021. 	<ul style="list-style-type: none"> ➤ Enhance water storage capacity through spring box development and installation of a wildlife drinker in the upper portion of Little Cow Creek. ➤ Create at least 8 brush piles in French Creek drainage. Piles will be 12 feet wide by 6 feet tall for quail habitat. ➤ Develop one 0.25-acre semi-irrigated food plot in the French Creek area. Irrigation will be dependent upon water availability from source spring and pond area. ➤ Improve understory habitat in Little French Creek area by removing downed trees along at least 0.25 miles of the flats.

PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
SL RANCH DEER ZONE X3A MODOC 7,500 ACRES	<p><i>Authorized Harvest:</i> 4 forked-horn or better buck deer and 1 buck pronghorn antelope</p> <ul style="list-style-type: none"> • Issue 4 buck deer tags for the period of August 1, 2021 through November 30, 2021. • No person shall take more than 1 buck deer annually in the X zones. • Issue 1 buck pronghorn antelope tag for the period of August 1, 2021 through September 30, 2021. 	<ul style="list-style-type: none"> ➤ Use a combination of chainsaws and herbicides to remove western juniper from at least 5 acres. ➤ Treat at least 5 acres of young juniper trees with herbicide. ➤ Flood 300 acres of harvested wild rice fields for waterfowl use. ➤ Maintain the livestock exclusion fence around the spring below Likely Mill to exclude cattle. ➤ Maintain 2 springs on Rocky Prairie and 1 pond by ensuring that fencing excludes cattle. Any damaged fences and structures will be repaired as necessary. ➤ Maintain the livestock exclusion fencing along the West Side Canal where willows are present. Fences and structures will be repaired as necessary. ➤ Plant 200 willow shoots along the north and south banks of the West Canal. ➤ Maintain and replace goose nesting platforms as needed. ➤ Provide 3 acres of grain plots for wildlife use.

PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
WALTON HOMESTEAD FAMILY, LLC DEER ZONE X3A LASSEN 5,980 ACRES	<p>Authorized Harvest: 5 either-sex deer and 1 buck pronghorn antelope</p> <ul style="list-style-type: none"> • Issue 5 either-sex deer tags for the period of August 15, 2021 through November 30, 2021. • No antlerless deer shall be harvested before September 15, 2021. • No person shall take more than 1 buck deer annually in the X zones. • Issue 1 buck pronghorn antelope tag for the period of August 1, 2021 through September 30, 2021. 	<ul style="list-style-type: none"> ➤ Remove and/or thin junipers on 200 acres to maintain habitat quality for mule deer and pronghorn. ➤ Complete and maintain at least 200 yards of wildlife friendly fencing on the exterior fencing on the North property line. ➤ Plant at least 200 pounds of grasses and forbs as wildlife food sources. ➤ Plant at least 1 acre of bitterbrush and mahogany for wildlife forage and habitat. ➤ Plant at least 1 acre of berries, roses, and aspens for wildlife forage and habitat. ➤ Complete 2 spring development projects. Include fencing, guzzlers and remote watering troughs. ➤ Identify and begin work on a well drilling and conveyance system for livestock watering to relieve the demand on springs to allow better access for wildlife use. ➤ Maintain the containment basin, piping, and water trough downhill from the spring for Hanna's and Horse Meadow Springs. ➤ Maintain wildlife-friendly livestock enclosure fencing around springs and basins and use solar pumping or gravity flow to give wildlife water access outside the fence. ➤ Maintain aspen enclosure fencing and continue to remove junipers and pine trees within the enclosures.

NORTH CENTRAL REGION

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
ANDERSON RANCH DEER ZONE C4 GLENN 400 ACRES	<p>Authorized Harvest: 3 forked-horn or better buck deer and 5 antlerless deer</p> <ul style="list-style-type: none"> • Issue 3 buck deer tags for the period of August 21, 2021 to November 30, 2021. • Issue 5 antlerless deer tags for the period of August 21, 2021 to November 30, 2021. The SHARE Program will be re-evaluated in 2022 for any tag donations. 	<ul style="list-style-type: none"> ➤ Maintain all previous plantings and habitat work to continue to benefit wildlife. ➤ Place 3 wildlife resting logs, 1 in Chandler Pond and 2 in Howard Pond. ➤ Build and place 5 bluebird nesting boxes on the eastern portion of the ranch. ➤ Replace all trees/plants that did not survive previous plantings.

PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
BIRD HAVEN RANCH DEER ZONE D3 GLENN 2,500 ACRES	<p>Authorized Harvest: 6 forked-horn or better buck deer</p> <ul style="list-style-type: none"> • Issue 6 buck deer tags for the period of August 21, 2021 to November 30, 2021. • 1 of the 6 tags will be reserved for a junior hunter. 1-2 of these tags will be donated to a non-profit or sold to generate revenue for any such non-profit. 	<ul style="list-style-type: none"> ➤ Maintain all previous plantings and habitat work to continue to benefit wildlife. ➤ Maintain and monitor 150 wood duck boxes. ➤ Retreat and clean-up 1-2 acres of Himalayan blackberry. ➤ Spot spray 150 acres for noxious weeds. ➤ Plant 10 separate 2+ acre foraging/nesting habitat food plots (corn, safflower, oats, or milo). ➤ Restore and enhance 25 acres of wetland habitat (clean swales, remove downed trees, mowing, spraying noxious weeds, burning and discing).
DESERET FARMS – BALLARD UNIT DEER ZONE C4 BUTTE 2,948 ACRES	<p>Authorized Harvest: 2 forked-horn or better buck deer and 10 antlerless deer</p> <ul style="list-style-type: none"> • Issue 2 buck deer tags for the period of November 1, 2021 through December 31, 2021. • Issue 10 antlerless deer tags for the period of November 1, 2021 through December 31, 2021. One of the antlerless tags must be a Junior tag. 	<ul style="list-style-type: none"> ➤ Replace any plantings that have died from all previous years including caging and the installation of irrigation. Outcome will total 100 plantings. ➤ Enhance 5 basking/nesting islands in Soto Lakes with noxious weed treatments and planting to improve nesting cover. ➤ Continue star thistle control on 25 acres. ➤ Continue removal of feral hogs.
DESERET FARMS – WILSON UNIT DEER ZONE C4 BUTTE 7,989 ACRES	<p>Authorized Harvest: 6 forked-horn or better buck deer and 15 antlerless deer</p> <ul style="list-style-type: none"> • Issue 6 buck deer tags for the period of November 1, 2021 through December 31, 2021. • Issue 15 antlerless deer tags for the period of November 1, 2021 through December 31, 2021. One of the antlerless tags must be a Junior tag. 	<ul style="list-style-type: none"> ➤ Remove/suppress 0.25 acres of non-native blackberry. ➤ Replace any plantings that have died from all previous years including caging and the installation of irrigation. Outcome will total 100 plantings. ➤ Repair/relocate 10 wood duck nesting boxes. ➤ Maintain all wildlife boxes (bats, bluebird, wood duck) and record usage. ➤ Continue removal of feral hogs.

PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
LLANO SECO RANCHO DEER ZONE C4 BUTTE 14,500 ACRES	<p>Authorized Harvest: 25 forked-horn or better buck deer</p> <ul style="list-style-type: none"> • Issue 25 buck deer tags for the period of September 1, 2021 through November 30, 2021. 	<ul style="list-style-type: none"> ➤ Mow 300 acres on west side to control yellow star and bull thistle. ➤ Grow 750 acres of dry land grains and allow access by mule deer. ➤ Maintain or replace existing 50 barn owl and wood duck nest boxes. ➤ Maintain or replace 4 pond turtle basking structures.
ORDWAY RANCH DEER ZONE D5 CALAVERAS 850 ACRES	<p>Authorized Harvest: 6 forked-horn or better buck deer</p> <ul style="list-style-type: none"> • Issue 6 buck deer tags for the period of September 25, 2021 through November 30, 2021. 	<ul style="list-style-type: none"> ➤ No cattle grazing in Pasture D. ➤ Maintain 4 water sources for wildlife (including 3 solar-powered wells). ➤ Maintain 50 acres of fencing around 2 natural springs and creek to exclude cattle. ➤ Continue control of invasive weeds. ➤ Develop new wildlife brush piles and enhance existing brush piles.
ROCK CREEK DEER ZONE C4 BUTTE/TEHAMA 9,945 ACRES	<p>Authorized Harvest: 30 forked-horn or better buck deer</p> <ul style="list-style-type: none"> • Issue 33 buck deer tags for the period of August 21, 2021 through November 30, 2021. • In no case shall the number of tags issued be used to exceed the authorized harvest. • The number of tag holders actively hunting shall not exceed the number of deer available to harvest. 	<ul style="list-style-type: none"> ➤ Remove and replace 1 mile of old interior fencing on the Garner Ranch with wildlife friendly fencing. ➤ Remove old debris (old structures, fencing, branding corals in the Franks Cabin area on the Rose Ranch. The fencing/corrals/structures are not wildlife friendly and deer cannot access the area. Habitat enhancement in the location is difficult until the clean-up is complete ➤ Clear two 0.50-acre areas of decadent ceanothus on the Watson Ranch to promote new growth. ➤ Manage grazing to restore overgrazed range for the betterment of wildlife. ➤ Maintain all previously developed springs and well sites, maintain cattle exclusion and friendly deer fencing, and replenish previously created brush piles.

PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
SOPER-WHEELER DEER ZONE D3 BUTTE 5,250 ACRES	<p>Authorized Harvest: 18 forked-horn or better buck deer, 26 turkey, 200 quail, and 5 black bears</p> <ul style="list-style-type: none"> • Issue 18 buck deer tags for the period of August 21, 2021 through November 30, 2021. 2 tags to be donated to California Deer Association for auction with the season extended to December 10, 2021 for any donated tags. • Issue 26 turkey tags for the periods of Oct 16, 2021 through November 30, 2021 (fall season, either-sex harvest) and March 13, 2022 through May 16, 2022 (spring season, bearded turkey only harvest). Two tags to be donated to the Hunter Education Instructor Tag Incentive Program (HEI). Two tags to be donated to the SHARE Program. • Issue 200 quail tags for the periods of October 1, 2021 through February 28, 2022. • Issue 5 bear tags for the period of Aug 21, 2021 to December 31, 2021 or when statewide quota of 1,700 is met. 	<ul style="list-style-type: none"> ➤ Create 10 brush piles to provide cover for quail and songbirds. ➤ Maintain and provide maintenance on all 11 wells, 5 water sources, and 7 guzzlers. ➤ Manage grazing to restore overgrazed range for the betterment of wildlife. ➤ Plant 5 acres of turkey mullein or other seed-bearing plants for game birds. ➤ Develop 1 water source in a newly opened area.
SPURLOCK RANCH DEER ZONE B3 GLENN 2,630 ACRES	<p>Authorized Harvest: 10 forked-horn or better buck deer</p> <ul style="list-style-type: none"> • Issue 10 buck deer tags for the period of September 18, 2021 through November 30, 2021. 	<ul style="list-style-type: none"> ➤ Maintain cattle stocking rate at or below 200 cow/calf pairs. ➤ Restrict cattle grazing from October 25 to May 15; post- season grazing standard of 1,200 lbs/acre RDM. ➤ Treat 20 acres of yellow star thistle and bull thistle with herbicide. ➤ Maintain cattle exclusion fences around riparian area below Fig Tree Pond, on both sides of creek in Vanderford Valley, and around reservoir and riparian area in Johanson Valley. ➤ Plant willow cuttings inside fenced areas excluded from cattle.

PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
SUGARLOAF- BANGOR RANCH DEER ZONE D3 YUBA 2,626 ACRES	<p>Authorized Harvest: 12 forked-horn or better buck deer, 50 turkey, and 200 quail</p> <ul style="list-style-type: none"> • Issue 12 buck deer tags for the period of September 25, 2021 through November 30, 2021. • Issue 50 turkey tags for the periods of October 1, 2021 through January 15, 2022 (fall season, either-sex harvest) and March 1, 2022 through May 15, 2022 (spring season, bearded turkey-only harvest). • Issue 200 quail tags for the period of September 1, 2021 through February 28, 2022. Additional orders are approved in 100 seal increments up to the authorized harvest. 	<ul style="list-style-type: none"> ➤ Maintain cattle stocking rate at or below 200 cow/calf pairs. ➤ Restrict cattle grazing from December 1 to May 15. ➤ Maintain hot-line around Round Lake to keep livestock from riparian plantings (willows and cottonwoods). ➤ Maintain solar operated well to provide a consistent water source for Round Lake. ➤ Install solar pump and pipe to restore the water supply to Wood Duck Lake.

CENTRAL REGION

PLM Area	Proposed Season and Harvest	Habitat Improvement Program
BARDIN RANCH DEER ZONE A MONTEREY 8,000 ACRES	<p>Authorized Harvest: 2 bull elk and 4 antlerless elk</p> <ul style="list-style-type: none"> • Issue 2 bull elk tags for the period October 1, 2021 through December 31, 2021. • Issue 4 antlerless elk tags for the period October 1, 2021 through December 31, 2021. 	<ul style="list-style-type: none"> ➤ Maintain existing springs, pipelines and troughs to provide water for wildlife. ➤ Develop additional water storage in lower Water canyon for wildlife. ➤ Plant 30 acres of forage grass for use by wildlife. ➤ Maintain rotational grazing system and allow cattle access to the upper hills only from November through June. ➤ Develop 2 additional “elk crossings” in area fences where appropriate. ➤ Mechanically remove and create 6 brush piles to enhance bird and small game habitat.

**PLM AREA LICENSE
ANNUAL RENEWALS, 2021/2022
PROPOSED SEASONS, HARVESTS, AND HABITAT IMPROVEMENTS**

SOUTH COAST REGION		
PLM Area	Proposed Season and Harvest	Habitat Improvement Program
<p>SANTA CATALINA ISLAND</p> <p>DEER ZONE A</p> <p>LOS ANGELES</p> <p>42,100 ACRES</p>	<p>Authorized Harvest: 500 deer: 250 either-sex deer and 250 antlerless deer</p> <ul style="list-style-type: none"> • Issue 300 tags, 150 antlerless deer tags and 150 either- sex deer tags for the period of July 13, 2021 to December 26, 2021. • No antlerless deer may be harvested before September 15, 2021. • The licensee may request (in writing) up to an additional 50 antlerless deer tags and up to an additional 50 either-sex deer tags to accomplish the authorized harvest. Any tags not requested during this request-period can be rolled over into and allocated during the next request period. • On or before December 1, 2021, the licensee may request (in writing) up to an additional 50 antlerless deer tags and up to 50 either-sex deer tags to accomplish the authorized harvest. 	<ul style="list-style-type: none"> ➤ Continue annual Catalina Island fox recovery activities including census, vaccination of 300 individuals against CDV/rabies, and monitoring 50 radio collared individuals. ➤ Continued monitoring of island for non-native mammals (e.g., raccoons). ➤ Continued bison herd management through contraception (maintain <150) to protect native plants. ➤ Continue animal and plant baseline monitoring activities. ➤ Continue to optimize weather data collection and analysis. ➤ Continue invasive plant removal through the Catalina Habitat Improvement and Restoration Program (CHIRP). ➤ Continue monitoring and maintenance of deer exclosures erected post-fire and for rare species. ➤ Continue and expand education and outreach through Naturalist Training, Kids in Nature, Island Scholars, Families in Nature, and Nature Works programs.

INLAND DESERT REGION		
PLM Area	Proposed Season and Harvest	Habitat Improvement Program
<p>BIG MORONGO SPRINGS RANCH</p> <p>DEER ZONE D14</p> <p>SAN BERNARDINO</p> <p>6,632 ACRES</p>	<p>Authorized Harvest: 10 forked-horn or better buck deer, 2 antlerless deer, and 2 black bear</p> <ul style="list-style-type: none"> • Issue 10 buck deer tags for the period of September 12, 2021 through December 6, 2021. • Issue 2 antlerless deer tags for the period of September 12, 2021 through December 6, 2021. • Issue 2 bear tags for the period of September 12, 2021 through December 6, 2021 or when the statewide quota of 1,700 is met. 	<ul style="list-style-type: none"> ➤ Continue no grazing by livestock. ➤ Repair or replace all pipelines and tanks damaged by Sawtooth wildfire to provide water to wildlife. ➤ Repair fire-damaged roads within PLM. ➤ Continue monitoring of water sources with trail cameras.