

Nevada Department of Wildlife

Duck Stamp Program

Fiscal Year 2010

June 2009



Photo by Tim Torrell



Photo by Marcus Jones

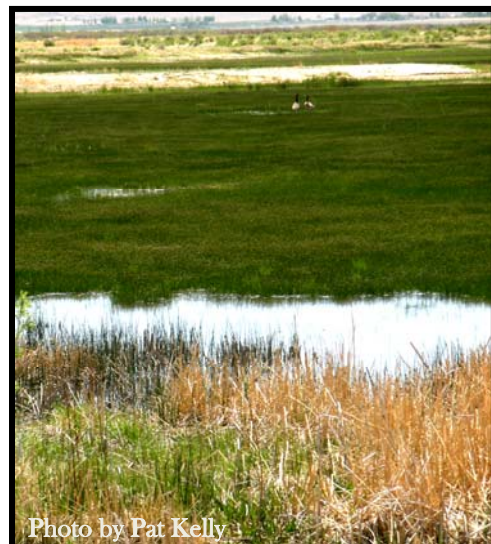


Photo by Pat Kelly

PROGRESS REPORT ON PROJECTS FUNDED IN FY 2009

- North American Waterfowl Management Plan – A total of \$10,000 was expended supporting migratory bird programs associated with the North American Waterfowl Management Plan.
- Lahontan Valley Wood Duck Study – This funding was used to continue a seven year study of the wood duck population in the Lahontan Valley. Activities included banding young and adult wood ducks followed up by analysis of data obtained to determine distribution, migration patterns, productivity and brood survival of the studied population. Field work was conducted by a Master's Degree student and one undergraduate. This project has been examined by other states and could form the foundation for similar studies in those states. The project has also resulted in a stronger relationship between UNR and NDOW. The information derived from the study will ultimately be published in a peer-reviewed journal.
- Carson Lake Water Rights Transfer – A total of \$25,000 was appropriated to pay for professional services related to NDOW's application for the full duty transfer of purchased water from various properties in the Lahontan Valley to the Carson Lake and Pasture. The legal proceedings associated with this project have been stalled and none of the funding was expended this year.
- Carson Lake Boat Channel Maintenance- This funding was utilized for the purchase of herbicides to help maintain open boat channels. The channels are extremely important to consumptive as well as non-consumptive users of the area. The channels are also very important for the department in that they provide access for various surveys, retrieval of diseased waterfowl etc.
- Kirch WMA weed control- Herbicides were purchased and applied to approximately 95 acres of Russian knapweed, tall whitetop, bull thistle, hardstem bulrush, cattail and general vegetation control on public access right-of-ways.
- Kirch WMA prescribed burn- Approximately 180 acres of hardstem bulrush and cattail were burned in the Dacey Unit with the assistance of NDF inmate labor crews. The prescribed burn was done in late fall to remove excessive hardstem bulrush and cattail litter in a prime waterfowl nesting and brood rearing area.
- Steptoe Valley noxious weed control – Funding was used to purchase herbicides to spot treat approximately 900 acres of hoary cress, Canada thistle, and Russian knapweed. Herbicide application was done by in-house personnel, Tri-County Weed Control, and an NDF Prison Crew.
- Mason Valley Tall Whitetop/Hoary Cress Control- A total of \$1,000.00 was expended on herbicides for application to approximately 35 acres of tall whitetop and hoary cress.

- Mason Valley Cattail Control- A total of \$2000.00 was expended on aerial application of herbicides to the southern end of North Pond and to Crappie Pond with the remaining funding spent on the purchase of herbicides for the project.
- Mason Valley Redhead Pump Station- Funding was used to pump approximately 500 acre feet of water from the Mason Valley Fish Hatchery to wetland areas on the east side of the management area. The pumped water was used to create and maintain approximately 300 acres of wetland that would not have had water if not for the pumping.
- Mason Valley Joggles Well Pumping- Electric power bills in the amount of \$4,900 were paid as the result of running the Joggles well. The well produced approximately 330 acre feet of water that was used to flood approximately 250 acres of wetland area on the east side of the management area. The availability of this water during drought years is critical to the overall operation of the area.
- MVWMA water Valve Installation- \$650.00 was utilized to repair a section of pipeline on the Redhead Pond pump station line.
- Mason Valley Water Structure Replacement- \$4,200.00 was expended on new water structures for the Mason Valley WMA. Four three foot structures and ninety feet of plastic corrugated pipe with collars were purchased to replace worn out metal, corrugated structures on the area.
- Fernley Water Structure Replacement- A total of \$1,650.00 was expended on the purchase of two water control structures and collars for the Fernley WMA for the replacement of old galvanized metal structures.
- Key Pittman Farming Program - Triticale, Fall rye and hairy vetch were planted last Fall on all the fields as a cover and food crop for wildlife, soil stabilizer and soil builder. Hairy vetch, oats, clover, millet, sunflower and sorghum were planted in the spring. Efforts continue to select crops and farming strategies that will provide the most benefit to wildlife while also attempting to naturally build soil fertility and tilth.
- Key Pittman noxious weed control -A total of \$1,325.00 was used to purchase herbicides to control noxious and invasive weeds on the project. Weeds treated include hoary cress, Canada thistle, salt cedar and Russian olive. Primary invasive weed species on the area include goats head and cocklebur.
- Overton WMA goose Field Farming – A total of \$3,878 was expended for the purchase of seed that was used on approximately 150 acres of land that is farmed on the area. Crops planted include alfalfa and barley which are intended to provide quality feeding habitat for migratory birds.
- Locke's Ranch noxious weed control – A total of \$2,810 was expended on herbicides to treat tall whitetop, Russian knapweed and tamrisk on the 450 acre parcel.

- Sportsmen's Journal – NDOW combined \$2,500 in Duck Stamp funds with \$2,500 in Upland Game Stamp funds and \$3,000 in donations to print 20,000 copies of the *Nevada Hunter's Journal*. This document has been greatly modified from the initial booklet entitled *Nevada Sportsman's Journal*. In an attempt to ensure that the booklet reaches the hands of small game hunters, a copy will be provided in a mail-out along with the 2008-09 Small Game Questionnaire.
- Waterfowl harvest modeling – By the end of FY2009, NDOW will have expended \$30,000 toward a contract with Chris Nicolai, PhD candidate with the University of Nevada, Reno. A specific list of tasks were established for this contract including population modeling, band recovery assessment, pintail banding project and a revision of NDOW's waterfowl breeding population survey. (NOTE: Part of the funding for this project were carried forward from FY08).
- Eastern Region WMA Weed Management – Funding was used to purchase and apply herbicides to various noxious and invasive weeds at the Bruneau River and Franklin Lake WMAs as well as at Birch Creek in the Toiyabe Range. Weed species treated include musk, scotch and bull thistle, black henbane, Canada thistle, curly dock, white top and mustard.
- Overton Pumping - No funds were expended on this project after it was determined through soil tests that the soils in the north fields are too saline to grow crops. Options for the two fields involved are being weighed.
- Steptoe Valley Pond Vegetation Rehab- Funding was used to purchase various seed mixes including alkali bulrush, annual sunflower, millet, clover, alfalfa, oats, and various bunchgrass. The seed has been planted in areas disturbed during the NAWCA wetland restoration project in an effort to ward off invasion by noxious weeds and to stabilize barren levees.
- Overton Prescribed Burn– Approximately \$1,300 was expended conducting a controlled burn intended to eliminate decadent marsh vegetation from Pintail and Wilson ponds. The burn was conducted by personnel from the Overton, Key Pittman and Kirch WMAs with an assist from volunteers.

Nevada Department of Wildlife
Duck Stamp Project Request FY10 – Summary

	<u>BA 4458</u>	<u>BA 4452</u> (mileage)	<u>Total</u>
N. American Wetlands Conservation Act Support for Migratory Bird Programs	\$10,000	0	\$10,000
Toulon dike project / Humboldt WMA	\$230,000	\$200	\$230,200
Waterfowl Population Assessment	\$11,000	0	\$11,000
Carson Lake kiosk	(postponed pending transfer of Carson Lake and Pasture to State)		
Nevada Hunter's Journal	\$3,500	0	\$3,500
Pintail banding	\$23,000	0	\$23,000
Wood duck study	\$25,000	0	\$25,000
Carson Lake boat channel maintenance and cattail control	\$3,912	0	\$3,912
Mason Valley WMA Cattail control – East Wetland	\$3,585	\$51	\$3,636
Carson Lake noxious weed control	\$1,800	\$153	\$1,953
Mason Valley WMA noxious weed control	\$1,850	\$98	\$1,948
Eastern Region WMA noxious weed control	\$7,500	\$0	\$7,500
Key Pittman WMA noxious weed control	\$1,770	\$85	\$1,855
Kirch WMA noxious weed control	\$1,560	\$202	\$1,762
Overton WMA noxious weed control	\$2,817	\$0	\$2,817
Locke's Ranch noxious weed control	\$1,319	\$909	\$2,228
Steptoe Valley WMA noxious weed control	\$5,000	\$150	\$5,150
Mason Valley WMA Redhead pumping station	\$5,490	\$0	\$5,490
Mason Valley WMA Joggles well pumping	\$4,900	0	\$4,900
Kirch WMA / Prescribed burning / NDF labor	\$2,500	\$100	\$2,600
Kirch WMA / Parshall flume replacement	\$9,569	\$990	\$10,559
Overton WMA Goose field farming	\$3,900	\$0	\$3,900
Steptoe Valley WMA Purchase of Ranger ATV / weed control	\$11,059	\$0	\$11,059
TOTAL	\$371,031	\$2,938	\$373,969

NRS 502.300 Duck stamps: Unlawful to hunt certain migratory game birds without stamp; exceptions; fees; form.

1. Except as otherwise provided in subsection 2, it is unlawful for any person to hunt any migratory game bird, except jacksnipe, coot, gallinule, western mourning dove, white-winged dove and band-tailed pigeon unless at the time he is hunting he carries on his person:

(a) An unexpired state duck stamp validated by his signature in ink across the face of the stamp; or

(b) Such documentation as the Department provides as proof that he has paid to the Department, for the licensing period that includes the time he is hunting, the same fee as that required pursuant to subsection 3 for the purchase of an unexpired state duck stamp for that period.

2. The provisions of subsection 1 do not apply to a person who:

(a) Is under the age of 12 years; or

(b) Is 65 years of age or older.

3. Unexpired duck stamps must be sold for a fee of not more than \$10 each by the Department and by persons authorized by the Department to sell hunting licenses. The Commission shall establish the price to be charged by the Department or agents of the Department for expired duck stamps.

4. The Department shall determine the form of the stamps.

(Added to NRS by 1971, 939; A 1973, 671; 1979, 299; 1981, 539; 1983, 852; 1985, 1708; 1993, 1668; 1995, 1932; [2001, 976](#); [2003, 1542, 2548](#))

NRS 502.310 Duck stamps: Deposit of fees; accounting records; reimbursement of administrative costs. All money received pursuant to [NRS 502.300](#) must be deposited with the State Treasurer for credit to the Wildlife Obligated Reserve Account in the State General Fund. The Department shall maintain separate accounting records for the receipt and expenditure of that money. An amount not to exceed 10 percent of that money may be used to reimburse the Department for the cost of administering the state duck stamp programs. This amount is in addition to compensation allowed persons authorized to issue and sell licenses.

(Added to NRS by 1971, 940; A 1979, 300, 900; 1981, 539; 1985, 1708; 1993, 1668; [2001, 976](#); [2003, 1542, 2548](#))

NRS 502.322 Duck stamps: Use of money received pursuant to [NRS 502.300](#).

1. Before the Department may undertake any project using money received pursuant to [NRS 502.300](#), it shall analyze the project and provide the Commission with recommendations as to the need for the project and its feasibility.

2. Money received pursuant to [NRS 502.300](#) must be used for projects approved by the Commission for the protection and propagation of migratory game birds, and for the acquisition, development and preservation of wetlands in Nevada.

(Added to NRS by 1979, 300; A 1981, 539; 1985, 1708; 1993, 1668; [2001, 976](#); [2003, 1542](#))

NRS 502.324 Duck stamps: Reports to Legislature regarding program. The Department shall, not later than the fifth calendar day of each regular session of the Legislature, submit to the Legislature a report summarizing any projects undertaken, receipt and expenditure of money, and public benefits achieved by the program for the sale of state duck stamps.

(Added to NRS by 1979, 300; A 1985, 1353; 1993, 1668; [2003, 1543](#))

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Fiscal Year:	2010 & 2011	Budget Account:	4458
Bureau:	Habitat	Category:	13
Submitted by:	Dave Pulliam		
Project Title:	N. America Wetlands Conservation Act		

Project Description: (Objectives, Approach, Benefits, Evaluation)

Provide support for migratory bird programs through the North America Wetlands Conservation Act (NAWCA) in Canada. Canadian prairie provinces provide significant breeding and nesting habitats for waterfowl and contributes to Nevada's waterfowl resource. This funding, consistent with the North American Waterfowl Plan and the Wetlands Conservation Act, will assist in the enhancement and maintenance of wetland habitats in Canada.

Project Fit with other Department Programs and Strategic Planning:

Consistent with our Strategic Plan in that the ultimate results will add to the stability and continued waterfowl resources available for public enjoyment in Nevada.

Project Costs:

	Bureau	Days	Travel	Operating	Mileage @ .55¢/mile	Other (Specify)
Year 1				\$10,000		
subtotal:				\$10,000		
Year 2						
subtotal:						
Total:				\$20,000		

Project Funding:

	Funding Source	Amount
Year 1		
subtotal:		\$10,000
Year 2		
subtotal:		\$10,000
Total:		\$20,000

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Fiscal Year:	<u>10</u>	Budget Account:	<u>4458</u>
Bureau:	<u>Habitat</u>	Category:	<u>13 & 71 & Q1</u>
Submitted by:	<u>Pat Kelly</u>		
Project Title:	<u>Toulon dike project</u>		

Project Description: (Objectives, Approach, Benefits, Evaluation)

This project would result in the construction of four cross dikes at various locations in Toulon Lake. Toulon Lake is a long, narrow playa lake located at the Humboldt Wildlife Management Area which is located approximately 10 miles west of Lovelock, Nevada. The only source of water for Toulon Lake is the Toulon Drain which transports drain and irrigation return flows from the west side of the Lovelock Valley to Toulon Lake. Water levels in the lake vary from year to year based on the amount of irrigation water that is available for use on farms that year. Like many areas of Nevada, the Humboldt watershed has experienced numerous drought periods during the past 20 years. Due to the drought conditions and the lack of any other water source, Toulon Lake has only supported quality wetland habitat about once every two or three years on average. In some years, lesser amounts of water enter the 2,200 acre lake body but fail to produce quality habitat because the water disperses over too large of an area and is quickly lost to evaporation. This project would result in the construction of strategically placed cross dikes that would provide the opportunity to capture lesser amounts of water and hold it in smaller pond units during those years when water supplies are meager. The cross dikes would produce a total of five pond units ranging in size from 294 acres to 669 acres. Water managers would have the option of filling an appropriate number of ponds based on predicted water deliveries for that year.

Design work for this project has already been completed. The funding requested in this proposal would pay for the archaeological survey that is required prior to commencement of work and for the actual construction of the dikes.

Project Fit with other Department Programs and Strategic Planning:

This project is identified in the Humboldt Conceptual Management Plan which was completed in January, 2003. One of the goals listed in the plan is to "Maximize the number of quality wetland acres that exist at the Humboldt WMA" and one of the strategies suggested to support that goal is to "Evaluate the value of placing small cross-berms at one or more locations within the Toulon Lake that would allow more efficient use of water supplies within that unit".

In addition, NDOW is contemplating the possibility of constructing a water conveyance system from the Army Drain to Toulon Lake. The combination of an additional water supply and the cross dikes would provide an excellent opportunity to produce quality wetland habitat at Toulon Lake in those increasingly frequent years when natural runoff is not sufficient to do so.

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Estimated cost for the project:

Archaeological survey - \$180,000

Dike construction via contract - \$250,000

TOTAL COST- \$430,000

Project Costs:

	Bureau	Days	Travel	Operating	Mileage @ .55¢/mile	Other (Specify)
Year 1						
				\$430,000	\$200	
subtotal:						
Year 2						
subtotal:						
Total:						

Project Funding:

	Funding Source	Amount
Year 1	Category 13	\$230,000
	Category 71	\$100,000
	Question 1	\$100,000
Year 2		
subtotal:		
Total:		

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Fiscal Year:	<u>2001 and 2011</u>	Budget Account:	<u>4458</u>
Division:	<u>Game</u>	Category	<u>13</u>
Submitted by:	<u>Craig Mortimore</u>		
Project Title:	<u>Waterfowl Population Assessment</u>		

Project Description: (objectives, approach, benefits, evaluation)

Project utilizes a contract biologist to conduct high-level statistical analysis of various waterfowl program elements, including survey & inventory, harvest questionnaire and data analysis, banding programs. See attached Scope of Work document for task outline.

Note: Continuation of a Project Initiated in FY2008 and carried forward into FY2009.

Background: We will employ the contractor to place additional analysis capabilities not afforded under the current workload of the Division's Migratory Game Bird Staff Biologist. All tasks will be conducted under the supervision of this biologist, who will serve as contract administrator. This will be the same contractor funded under this program in late FY08 and throughout FY09.

Harvest frameworks for northern pintails have been restrictive since the 1980's. In recent year regulations have become increasingly restrictive, including partial season lengths and single bird daily bag limits. Waterfowl harvest management in the United States is regulated by the US Fish & Wildlife Service (USFWS). While states and their associated waterfowl coordinators provide input to these regulatory processes through the Pacific Flyway Council (PFC) and its technical body the PF Study Committee (PFSC), the USFWS is ultimately responsible for establishing the frameworks for states waterfowl seasons and bag limits. Because the PFC and other flyway councils have not had meaningful involvement in the analysis of pintail population data, USFWS statisticians have moved forward with incomplete perspective leaving the PFC at odds with the their pintail models and subsequent harvest strategies. We cite a number of biological parameters in arguing for less restrictive harvest management prescriptions. The contractor would apply his statistical knowledge in reviewing the federal approach and work with similar associates in other agencies in attempting to resolve the technical issues relating to the analysis of pintail trends and modeling protocols. The contractor's associations within the waterfowl research community are unmatched by anyone in NDOW and throughout the state representation within the PFSC and would prove invaluable in this endeavor. We are particularly intent on defining regional stock derivations in commanding individually-tailored harvest strategies for pintails. The PFC was successful in attaining this for mallard regulations.

The above is important for waterfowl hunting in Nevada. Presently there is one concern that the waterfowl resource is underutilized in Nevada for several reasons, one of which is strict pintail regulations, which stimulates confusion among waterfowlers. Preliminary banding analysis of mallards and pintails in the Pacific Flyway suggests that harvest has little impact on continental numbers for these species. The contractor would further investigate band recovery data and would design banding strategies for Nevada that we hope will be the basis for a flyway-wide approach.

In addition to this primary program element, the contractor would conduct a number of field activities to contribute to data collection efforts conducted by NDOW. These are described within the attachment.

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Project fit with other Department Programs and Strategic Planning:

This project indirectly addresses the protection and propagation of migratory game birds. Waterfowl management in Nevada is explicitly linked to the USFWS's population modeling and the resultant regulatory frameworks. This model is not entirely suited to regionally-specific harvest prescriptions and the population parameters incorporated into these models. Development of more effective modeling that is linked to waterfowl in the Pacific Flyway, and more particularly, waterfowl in Nevada, is important and perhaps critical for the protection of these species in relation to waterfowl harvest. NDOW will attempt to address Nevada-specific and flyway-centric considerations for the future, with the intent in developing harvest prescriptions that are more reasonable. It is expected that this will result in increased waterfowler retention and recruitment rates.

Project costs:

	Division	Days	Travel	Operating	Mileage	Other (specify)
Year 1 FY2010	Game					\$39,000 ¹ contract
Subtotal:						\$39,000
Year 2 FY2011	Game					\$5,000 ² contract
Subtotal:						\$5,000
TOTAL:						\$44,000

¹ Amount depicted is an estimate. The contract would be paid out throughout the entire FY2010. Amount not paid would be carry-forwarded to FY2011. All expenses paid by contractor.

² Contract would end on September 30, 2010 (FY2011).

Project funding:

	Funding Source	Amount
Project lifespan: Fy2010 – July 1, 2009 – June 30, 2010 FY2011 – July 1 – Sept 30, 2011	Nevada Duck Stamp – 25%	\$11,000
	W-48 (federal aid) – 75%	\$33,000
TOTAL:		\$44,000

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Fiscal Year:	<u>FY2010</u>	Budget Account:	<u>4458</u>
Division:	<u>Game,</u>	Category:	<u>13</u>
Submitted by:	<u>Craig Mortimore, Shawn Espinosa</u>		
Project Title:	<u>Nevada Hunter's Journal</u>		

Project Description: (Objectives, Approach, Benefits, Evaluation)

The *Nevada Hunter's Journal* is a publication developed by the Game Division in 2009 to replace a one-year run of the *Nevada Sportsman's Journal*. The booklet measures 3½" x 8" and is provided to each person selected to receive the Division's post-season Small Game Harvest Questionnaire.

Background:

- 1.) NDOW has been sending out post-season questionnaires to small game hunters for decades. Data gleaned from this process are used to compute harvest estimates, which in turn are used to make management decisions, such as season & bag recommendations and game bird translocations. Because the established questionnaire was deficient in representing harvest of lightly hunted species, the Game Division revised its questionnaire in each of the past three years to seek better data. Game Division also is working with the License Office to create a distribution strategy that closely approximates a census of all small game hunters. Presently the questionnaire does not reach the totality of small game hunters, thus the information from the sample needs to be as accurate and thorough as possible. The *Nevada Hunter's Journal* is designed to encourage the recipient to accurately record hunter and harvest data for each species hunted.
- 2.) This project was launched in FY2008 as the *Nevada Sportsman's Journal* with an initial order of 32,430 units which were delivered in October 2007. Costs for this project amounted to approximately \$18,000, with contributions from Carson Valley Chukar Club (\$5,000) and Nevada Chukar Foundation (\$2,500) included in that total.
- 3.) A second print run was proposed last year with funding allocations amounting to \$2,500 each from Nevada Duck Stamp and Nevada Upland Game Stamp funds contributing toward the \$8,605 bid proffered by the Nevada State Printer to produce 20,000 copies of the revised booklet. These dollars, along with \$2,000 in donations from NBU, WHIN and a private party benefactor and \$1,605 in W-48 funds will pay for the print run which should be completed by the end of March 2009. Most will be directly mailed to Questionnaire recipients and the balance will be distributed through NDOW offices.
- 4.) Game Division will continue to provide the *Nevada Hunter's Journal* through the processes described above for at least three years in order to allow a sufficient time period to assess the hunter usage and data quality efficacy. We ask for \$9,600 to be directed toward this purpose for FY2010, this time to support the printing of 25,000 copies under the premise that next year's Questionnaire mail out will be much larger than this year's.

Project Fit with other Department Programs and Strategic Planning:

- 1.) The *Nevada Hunter's Journal* will facilitate better data collection the Game Division's 2009 Small Game Questionnaire. Better data leads to better analysis and better management decisions.
- 2.) Sportsman's Journal will be perceived by some, and hopefully by most, clientele as an effort by NDOW to give something back to our clientele.

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Project Costs:

	Divisions	Days	Travel	Operating	Mileage	Other (specify)
Year 3 Order 25,000 units.	Game	10				
	Habitat	1				
	Admin.	1				
	LE	1				

Project Funding: (conceptual – needs investigation)

Funding source	Amount
Upland Game Stamp	\$3,500
Duck Stamp	\$3,500
Game Division (W-48)	\$1,300
Operation Game Thief	\$300
Contributions from Conservation Organizations	\$1,000
TOTAL:	\$9,600

Project Tasks Outline:

Task	Timing	Division	Personnel
1. Prepare Print Proposal	Feb.1, 2010	Game	Mortimore
2. Submit Proposal to State Printer			
3. Solicit Conservation Organization Donations	Feb. 15, 2010	Game	Mortimore
4. Solicit OGT Board Contribution		LE	Herndon
5. Print and mail journals	End of March 2010	State Printer and State Mailroom	
6. Take Delivery of undistributed journals	April 2010	Game	
7. Distribute to NDOW offices	Early August 2010	Operations	License
8. Develop media products to notify public.	Mar. & Sept. 2010	Con Ed	PIOs

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Fiscal Year:	<u>2010 & 2011</u>	Budget Account:	<u>4458</u>
Division:	<u>Game</u>	Category	<u>13</u>
Submitted by:	<u>Craig Mortimore</u>		
Project Title:	<u>Pintail Banding and AI Sampling</u>		

Project Description: (objectives, approach, benefits, evaluation)

Capture, band, take avian influenza (AI) surveillance samples and release pintail, tundra swans and other waterfowl at selected sites in Nevada. Fulfills two principle functions:

- 1.) Band pintails before the 2009 and 2010 hunting seasons and in the spring of 2010 & 2011 in order to assess band recovery rates between the two band periods. Data should be useful in determining mortality rates caused by hunting and post-hunt survival. Banding in Nevada would be an element of the Pacific Flyway or continental banding needs assessment.
- 2.) Collect live bird samples from pintails and tundra swans to meet the sampling objectives outlined within Nevada AI Surveillance Plan. Tundra swans and pintails are considered a "primary candidate species" species within the Pacific Flyway's AI plan¹. Nevada has the capacity to conduct live bird sampling under this project.

Note: Project was initiated in FY2009 as an un-funded project which was cobbled together and supported through W-48, AI and Duck Stamp funding (Nicolai contract). See attached synopsis. This request establishes a formal program.

Background: Nevada has been involved in AI surveillance for three years and the overall continental AI surveillance mission continues to be a priority with the US Departments of Interior and Agriculture, which supply grants to the states to conduct the sampling.

Operational banding has been a tool to assist in a number of analytical applications designed to understand the biology of the continent's waterfowl. Nevada does some banding to contribute to the banding mission, though our involvement is rather small. Banding pintails under two time periods could yield the analysis needed to markedly address bias within the pintail population model. This model is used to estimate the breeding population (BPOP), which was measured at 2.6 million birds in 2008 and has a long-term average of 4.1 million birds. The North American Waterfowl Management Plan established a BPOP objective of 5.6 million birds. Specific harvest regulations for pintails have been imposed since 1985, with a one bird daily bag limit since 1998. Managers are not in agreement that the harvest restrictions have been effective in allowing the population to ascend toward the NAWMP objective. We cite changes in breeding habitat, possible redistribution of the BPOP outside of the traditional survey area, and unexplained natural mortality factors as issues that could possibly explain the phenomenon. Banding pintails is one research tool that can help with that explanation.

The USFWS will be preparing a Banding Needs Assessment in which state's banding objectives by species will be established. This is expected to result in federal funding assistance to meet those objectives. Since Nevada has already embarked on the project in the spring of 2009 we feel an interruption in the data string will present analytical challenges.

¹ Surveillance for early detection of highly pathogenic avian influenza H5N1 in wild migratory birds – a strategy for the Pacific Flyway. Pacific Flyway council 2006.

Background, continued

We plan to use rocket nets shot over bait and other trapping techniques to capture pintails, swans and other waterfowl. All birds will be banded and we will collect AI samples from the primary target species and others if such is determined through a revision of Nevada's AI Plan.

Project fit with other Department Programs and Strategic Planning:

NRS 502.322.2 indicates that monies received pursuant to NRS 502.300 (Nevada Duck Stamps) must be used for projects approved by the Commission for the protection and propagation of migratory game birds and for the acquisition, development and preservation of wetlands in Nevada.

We contend that this project indirectly addresses the former of these two criteria, *i.e.*: the protection and propagation of migratory game birds. Waterfowl management in Nevada is explicitly linked to the USFWS's population modeling and the resultant regulatory frameworks. This model is not entirely suited to regionally-specific harvest prescriptions and the population parameters incorporated into these models. Development of more effective modeling that is linked to waterfowl in the Pacific Flyway, and more particularly, waterfowl in Nevada, is important and perhaps critical for the protection of these species in relation to waterfowl harvest. We will attempt to address Nevada-specific and flyway-centric considerations for the future, with the intent in developing harvest prescriptions that are more reasonable. Our belief is that this will result in increased waterfowler retention and recruitment rates.

NDOW does not conduct formal surveys of these species between the early January mid-winter survey and the May BPOP survey. Our repetitive, on-the-ground presence within these wetlands during that interim could give us insight into actual waterfowl usage during the return migration. Waterfowl typically have better nesting and brood rearing success if they arrive on breeding grounds in good condition. Our assessment of habitat conditions in February and March resulting from our increased presence attributed to this project could lead us toward habitat management decisions designed to improve the bird's pre-migration nutrition.

Project costs:
See attachment

Estimated project costs for Pintail Banding Project.

Cat.	Item	Units			Funding Source						
		#		\$	A.I. (NDOW)	Duck Stamp	NWA	Game (W-48)	Con-Ed Vol.	USFWS- SNWR	Vol. In- kind match
Vehicles	Non-agency vehicles (2)	1000	miles	\$0.56						\$560	
	NDOW truck - exclusive to project technician	2000	miles	\$0.56	\$560	\$560					
	Trucks assigned to assisting NDOW personnel	2000	miles	\$0.56	\$373	\$373		\$373			
	NDOW Volunteer program	400	miles	\$0.56					\$224		
	Project volunteers	1200	miles	\$0.56							\$672
Fuel	Through NDOW	1500	gallons	\$3.35	\$2,513	\$2,513					
		300	gallons	\$3.35					\$1,005		
Equipment	Federal bands and aux. markers							OH		OH	
	Trail cameras	2						OH			
	Night Vision goggles	1	pair					LE			
	Night Vision Scope	1		\$700		\$700					
	1 ton capacity grain bin (at Carson Lake WMA)	1		\$10,000		\$5,000					
	Cement pad for grain bin	1		\$1,000							\$1,000
	Repair NDOW grain auger	1		\$1,000		\$499					
	Whole corn (bait)	5000	pounds	\$0.18			\$900				
	Trap materials					\$750	\$750				
	Rocket Net Charges (Winn-Star)	100		\$15		\$1,500					
	Detonator	1		\$325		\$325					
Galvinometer	1		\$200		\$200						
Portable blinds	2		\$250		\$500						
Personnel	NDOW Consv. Aid or contract (1@14/hr x 90)	90	days	\$112		\$10,080					
	NDOW Game Staff Biologist	10	days	\$276				\$2,760			
	NDOW Conservation Education (Vol. Program)	4	days	\$276					\$1,104		
	NDOW Biologist (Neill)	8	days	\$238				\$1,904			
	NDOW WHS assistant	10	days	\$139	\$1,390						
	Volunteers	1200	hours	\$39							\$46,596
	USFWS-SNWR Biologist	20	days	\$240						\$4,800	
	USFWS-SNWR Biotechnician	10	days	\$144						\$1,440	
	On loan from NWA Wood duck Project	20	days	\$65			\$1,300				
	Project Cost Breakdown:					\$4,836	\$23,000	\$2,950	\$5,037	\$2,333	\$6,800
Total Year 1 Project Costs:					\$50,457	10%	56%	6%	10%	5%	13%

OH = "on-hand", already paid for.

LE = NDOW's Law Enforcement Division's equipment



Nevada Waterfowl Banding Program Spring 2009

Synopsis

Location: Carson Lake and Pasture. Churchill County

Dates: February 20 – March 21, 2009

Participants:

- Nevada Department of Wildlife
- University of Nevada, Reno
- United States Fish & Wildlife Service – Stillwater NWR
- Nevada Waterfowl Association
- Volunteers

Results:

Summary of waterfowl captured at Carson Lake and Pasture during spring 2009						
Northern Pintail	Mallard	Tundra Swan	American Coot	American Wigeon	Canvasback	TOTAL
127	91	70	65	1	1	361



**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Fiscal Year: FY2010 **Budget Account:** _____
Bureau: Game **Category:** _____
Submitted by: Craig Mortimore, et. al.
Project Title: Wood Duck Project

Project Description: (Objectives, Approach, Benefits, Evaluation)

- 1.) A proposal for \$10,000 has been submitted for the Nevada Wildlife Heritage Trust, presented by the Nevada waterfowl Association and titled: *Factors Regulating Wood Ducks in Lahontan Valley* (shortened to "Wood Duck Project" here).
- 2.) The Wood Duck Project is in its seventh year of study and has yielded enormous amounts of information about the status of this species in Nevada.
- 3.) The Wood Duck Project has received partial or full funding through Heritage Account for three years; however, this year's project budget was reduced and only includes logistic expenses for the project. We are hoping that duck stamp dollars can be used to accommodate the employment of one Master's Degree student to conduct field work.

Project Fit with other Department Programs and Strategic Planning:

- 1.) Preliminary findings from the project have revealed very interesting assessments of wood duck distribution, migration patterns, productivity and brood survival and overall status in Lahontan Valley.
- 2.) The project has been examined by other states and could form the foundation for similar studies in those states.
- 3.) The project has established a stronger relationship between UNR and NDOW. Publications will be forthcoming and will bring prestige to NDOW.

Project Costs:

	Divisions	Days	Travel	Operating	Mileage	Other (specify)
	Game	2	0	0	<50miles	
Game Division staff biologist donates time and personal mileage to this project. Game Division field biologist in Fallon participates in capture						

Project Funding: (conceptual – needs investigation)

Funding source	Amount
Heritage	\$10,000
Duck Stamp	\$25,000
Subtotal:	\$35,000.00
Nevada Waterfowl Association (fuel and associated costs)	\$4,000
U.S. Fish & Wildlife Service (Housing & Vehicle)	\$7,000
TOTAL:	\$46,000

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Fiscal Year: 10-11 **Budget Account:** 4458
Bureau: Habitat **Category:** 13
Submitted by: Pat Kelly
Project Title: Carson Lake Tule Control

Project Description: (Objectives, Approach, Benefits, Evaluation)

This project would provide additional funding for aerial application of herbicides to areas of the marsh choked up by cattail/bulrush in the Sprig and Big Water Units.

Project Fit with other Department Programs and Strategic Planning:

Aerial application in conjunction with ground spraying aids in keeping the marsh open and viable for wildlife and hunter access, helping to prevent permanent closure of channels.

Approx. \$15.00/Acre@ +/-140 Ac=\$2100.00
 35 gallons Glyphosate herbicide@ \$41.00/gal=\$1435.00
 20 gallons surfactant @18.86/gal.=\$377.20

 Total= \$3,912.20

Prices for aerial application quoted by Jerry Frey of Frey Spray

Project Costs:

	Bureau	Days	Travel	Operating	Mileage @ .55¢/mile	Other (Specify)
Year 1	Habitat			3,912.20		
subtotal:				3,912.20		
Year 2	Habitat			3,912.20		
subtotal:				3,912.20		
Total:				7,824.40		

Project Funding:

	Funding Source	Amount
Year 1	13	3,912.20
Year 2	13	3,912.20
Total:		7,824.40

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Fiscal Year:	<u>FY 10-11</u>	Budget Account:	<u>4458</u>
Bureau:	<u>Habitat</u>	Category:	<u>13</u>
Submitted by:	<u>Pat Kelly</u>		
Project Title:	<u>Cattail and tule control</u>		

Project Description: (Objectives, Approach, Benefits, Evaluation)

This project would involve continuation of the cattail and hardstem bulrush control program at the Mason Valley WMA. The program involves ground application of herbicides to vegetation growing in the water conveyance ditches and aerial application of herbicides to large stands of cattails and hardstem bulrush that have encroached into the pond bottoms.

Project Fit with other Department Programs and Strategic Planning:

One of the strategies listed in the Mason Valley CMP is to maintain a ratio of 30% vegetative cover to 70% open water in the area wetlands. Cattle grazing has greatly reduced the need for large scale vegetation control; however, the need still exists to do some aerial control. Funding should be appropriated to treat approximately 50 acres per year. In addition, efficient use of available water is a primary goal and vegetation must be minimized in area waterways to assure efficient use of water.

Aerial application of herbicides:

44 gallons of glyphosate @ \$41.39 / gallon = \$1,821.16
10 gallons of surfactant @ \$12.39 / gallon = \$123.90
Aerial application of herbicides to 50 acres @ \$15.00 / acre = \$750.00
(As quoted by Jerry Frey with Frey Spray)

TOTAL PER YEAR = \$2,695.06

Ground application of herbicides

20 gallons of glyphosate @ \$41.39 / gallon = \$827.80
5 gallons of surfactant @ \$12.39 / gallon = \$61.95

TOTAL PER YEAR = \$889.75

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Project Costs:

	Bureau	Days	Travel	Operating	Mileage @ .55¢/mile	Other (Specify)
Year 1	Habitat			\$3,585.00	\$51	
subtotal:				\$3,585.00	\$51	
Year 2				\$3,585.00	\$51	
subtotal:				\$3,585.00	\$51	
Total:				\$7,272.00	\$102	

Project Funding:

	Funding Source	Amount
Year 1	Category 13	\$3,585.00
	Category 20	\$51.00
subtotal:		\$3,636.00
Year 2	Category 13	\$3,585.00
	Category 20	\$51.00
subtotal:		\$3,636.00
Total:		\$7,272.00

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Fiscal Year: 10-11 **Budget Account:** 4452
Bureau: Habitat **Category:** 13
Submitted by: Pat Kelly
Project Title: Noxious weed control - Carson Lake

Project Description: (Objectives, Approach, Benefits, Evaluation)

This project would provide for the purchase and application of various herbicides to noxious weeds at the Carson Lake wetland. The area currently has stands of tall whitetop, tamarisk, African rue and Syrian bean caper. NDOW has worked diligently with the Churchill County Weed Abatement District to provide control over these noxious weeds; however, the effort will need to continue indefinitely since the weeds are very persistent.

Project Fit with other Department Programs and Strategic Planning:

NDOW has a legal and professional obligation to continue a noxious weed control program on the area. We will continue to work with and receive some financial assistance from Churchill County in this effort. In addition, the U.S Fish and Wildlife Service has received a grant from the Bureau of Reclamation to finance noxious weed control throughout the Lahontan Valley--including Carson Lake. That program will commence this summer and should provide a significant head start on control of the weeds on the area.

Project Costs:

	Bureau	Days	Travel	Operating	Mileage @ .55¢/mile	Other (Specify)
Year 1	Habitat	25	0	\$1800.00		
	Cat 20				\$153.00	Mileage @.51/mile
subtotal:		25	0	\$1,800	\$153.00	
Year 2	Habitat	25	0	\$1800.00	\$153.00	Mileage @.51/mile
subtotal:		25	0	\$1800.00	\$153.00	
Total:		50	0	\$3600.00	\$306.00	

Project Funding:

	Funding Source	Amount
Year 1	Category 56	\$1800.00
	Category 20	\$153.00
subtotal:		\$1953.00
Year 2	Category 56	\$1800.00
	Category 20	\$153.00
subtotal:		\$1953.00
Total:		\$3906.00

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Fiscal Year:	10-11	Budget Account:	4458
Bureau:	Habitat	Category:	56
Submitted by:	Pat Kelly		
Project Title:	Mason Valley tall white-top control		

Project Description: (Objectives, Approach, Benefits, Evaluation)

This is an ongoing program designed to keep tall white-top, listed as a state noxious weed, from becoming a major issue on the MVWMA. This funding will provide for the chemicals and application to the already existing tall white-top stands on the area to improve waterfowl habitats.

Project Fit with other Department Programs and Strategic Planning:

Tall white-top is listed as a state noxious weed, therefore, the state is statitorily required to make efforts in eradication of the plant.

Project Costs:

	Bureau	Days	Travel	Operating	Mileage @ .55¢/mile	Other (Specify)
Year 1	Habitat			1,850.00		
	Cat 20				98.00	Mileage @ .51/mile
subtotal:						
Year 2				1,850.00		
					98.00	Mileage @ .51/mile
subtotal:						
Total:				3,700.00		

Project Funding:

	Funding Source	Amount
Year 1	Cat. 56	1,850.00
	Cat. 20	98.00
subtotal:		\$1948.00
Year 2	Cat.56	1,850.00
	Cat 20	98.00
subtotal:		\$1948.00
Total:		\$3896.00

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Fiscal Year:	<u>2010</u>	Budget Account:	<u>4458</u>
Bureau:	<u>Habitat</u>	Category:	<u>13</u>
Submitted by:	<u>Gary Branzell</u>		
Project Title:	<u>Eastern Region WMA Weed Control</u>		

Project Description: (Objectives, Approach, Benefits, Evaluation)

Purchase herbicides to be used for noxious weed control on Eastern Region WMA's as well as BLM and Forest Service land to enhance healthy riparian and wetland habitat.

Chemical herbicides and associated equipment will perpetuate NDOW's ongoing cooperative efforts to reduce or eliminate invasive weeds on State of Nevada, Forest Service and BLM land. This is an ongoing annual effort.

Reduction of competitive invasive plants will greatly enhance recovery and or introduction of vegetation that is beneficial to wildlife.

Each treatment site receives multiple annual evaluations. Without question improvements to vegetation on WMA's has been realized due to herbicide applications.

Project Fit with other Department Programs and Strategic Planning:

Noxious weed control supports the goal and objective guidelines within the strategic plan to rehabilitate and maintain critical wildlife habitats

Project Costs:

	Bureau	Days	Travel	Operating	Mileage @ .55¢/mile	Other (Specify)
Year 1	Habitat			\$7,500		
subtotal:				\$7,500		
Year 2	Habitat			\$7,500		
subtotal:				\$7,500		
Total:				\$15,000		

Project Funding:

	Funding Source	Amount
Year 1		
subtotal:		
Year 2	04 Duck Stamp	\$7,500
subtotal:		\$7,500
Total:		\$7,500

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Fiscal Year:	<u>10 & 11</u>	Budget Account:	<u>4458</u>
Bureau:	<u>Habitat</u>	Category:	<u>13</u>
Submitted by:	<u>Ron Mills</u>		
Project Title:	<u>KPWMA Noxious and Invasive Weed Control</u>		

Project Description: (Objectives, Approach, Benefits, Evaluation)

At Key Pittman WMA we will apply the appropriate herbicide to boat launch sites and around irrigation risers to control noxious and invasive weeds improving access for the public and to limit the spread of noxious and invasive plant species into wetland habitats. We also apply an aquatic approved herbicide to cattail and hardstem stands to maintain proper ratios of aquatic vegetation along shore line and open water to optimize wetland dependent specie use and improve public use and access.

Estimated Annual Chemical needs:

Weedar 64 - 20 gallons @ \$15/gal	\$300.00
Glyphosate - 20 gallons @ \$35/gal	\$760.00
Surfactant - 20 gallons @ \$14/gal	\$280.00
Garloon IV - 2.5 gallon @ \$91/gal	\$230.00
Dye/spray indicator - 10 gallons @ \$20/gal	\$200.00
Total	\$1,770.00

As better control is achieved a slight reduction in chemical needs should be possible as the program moves towards annual maintenance.

Project Fit with other Department Programs and Strategic Planning:

Annual vegetation control is identified in all of the current WMA Conceptual Management Plans. Desired Outcome; Wildlife habitats that are in good ecological condition, capable of supporting a diverse array of wildlife species. Goal: Habitat is the key to the success of all wildlife populations.

Effective habitat is an integral function of the Department of Wildlife. NDOW will preserve and protect quality habitat and enhance deficient habitats. Objective: Maintain, protect and enhance wildlife habitats on wildlife management areas (WMA's) by applying good science and best management practices through implementation of Comprehensive Management Plans on all WMA's through 2009. (Comprehensive Strategic Plan-2004-2009)

Achieve an overall goal of no net loss of wetland area or function and the long-term goal to enhance and increase wetland quantity and quality within the WMA. (Wetland Conservation Plan).

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Project Costs:

	Bureau	Days	Travel	Operating	Mileage @ .55¢/mile	Other (Specify)
Year 1	Habitat	25		1770.00	85.00	
subtotal:		25		1770.00	85.00	
Year 2	Habitat	25		1770.00	85.00	
subtotal:		25		1770.00	85.00	
Total:		50		3540.00	170.00	

Project Funding:

	Funding Source	Amount
Year 1	4458 Cat 13	1770.00
	4452 Cat 56	85.00
subtotal:		1855.00
Year 2	4458 Cat 13	1770.00
	4452 Cat 56	85.00
subtotal:		1855.00
Total:		3710.00

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST
FY 2010**

Fiscal Year:	<u>2010</u>	Budget Account:	<u>4458</u>
Bureau:	<u>Habitat</u>	Category:	<u>13</u>
Submitted by:	<u>Dana Johnson</u>		
Project Title:	<u>Kirch WMA Annual Spray Program</u>		

Project Description: (Objectives, Approach, Benefits, Evaluation)

The annual vegetation maintenance spray program consists of late spring and early summer treatment of dams, ditches, water control structures and boat launch facilities throughout the Area targeting invasive species such as tall whitetop by applying the herbicide Plateau with ground spray equipment. The annual vegetation maintenance spray program also includes late summer control of the emergent vegetation, hardstem bulrush and cattail in order to open up overgrown areas to provide optimum emergent vegetation, open water balance for nesting, resting and feeding areas for waterfowl and shore birds. This is accomplished by hand spraying the herbicide glypro using a boat for islands and pond edges and an ATV for locations accessible from shore. Total acreage for the annual vegetation maintenance program is 78-acres in 2010 @ \$20.00 acre for a total of \$1,560.00.

Project Fit with other Department Programs and Strategic Planning:

Annual vegetation control is identified in the KWMA Conceptual Management Plan. Desired Outcome; Wildlife habitats that are in good ecological condition, capable of supporting a diverse array of wildlife species. Goal: Habitat is the key to the success of all wildlife populations. Effective habitat is an integral function of the Department of Wildlife. NDOW will preserve and protect quality habitat and enhance deficient habitats. Objective: Maintain, protect and enhance wildlife habitats on wildlife management areas (WMA's) by applying good science and best management practices through implementation of Comprehensive Management Plans on all WMA's through 2009. (Comprehensive Strategic Plan-2004-2009 page -1)
Achieve an overall goal of no net loss of wetland area or function and the long-term goal to enhance and increase wetland quantity and quality within the WMA. (Wetland Conservation Plan).

Project Costs:

	Bureau	Days	Travel	Operating	Mileage @ .55¢/mile	Other (Specify)
2010	Habitat			\$1560.00	\$202.00	

Project Funding:

	Funding Source	Amount
2010	Cat 13	\$1762.00
	Total:	\$1762.00

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Fiscal Year:	<u>FY-10</u>	Budget Account:	<u>4458</u>
Bureau:	<u>Habitat</u>	Category:	<u>13</u>
Submitted by:	<u>Keith Brose</u>		
Project Title:	<u>Overton Vegetation Control</u>		

Project Description: (Objectives, Approach, Benefits, Evaluation)

Treat ditches, ponds, outlets, drains, fields, and bulrush checks with herbicide to control undesirable vegetation growth. Improve habitat conditions and control invasive plant species.

Project Fit with other Department Programs and Strategic Planning:

Identified in the Overton Conceptual Management Plan.

Project Costs:

	Bureau	Days	Travel	Operating	Mileage @ .55¢/mile	Other (Specify)
Year 1				\$2,817,20		
subtotal:				\$2,817,20		
Year 2						
subtotal:						
Total:				\$2,817.20		

Project Funding:

	Funding Source	Amount
Year 1	Cat 13	\$2,817.2
subtotal:		\$2,817,2
Year 2		
subtotal:		
Total:		\$2,817.2

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST
FY 2010**

Fiscal Year:	<u>2010</u>	Budget Account:	<u>4458</u>
Bureau:	<u>Habitat</u>	Category:	<u>13</u>
Submitted by:	<u>Dana Johnson</u>		
Project Title:	<u>Lockes Ranch weed control</u>		

Project Description: (Objectives, Approach, Benefits, Evaluation)

Weed control was initiated in 2008 on the newly acquired Lockes Ranch property located in Railroad Valley. This project is for follow-up treatments and maintenance of noxious and invasive weeds on Lockes Ranch. Noxious and invasive weed species on this property include tall whitetop, Russian knapweed and salt cedar. Weed maintenance would continue to primarily be in and around wetlands and adjacent meadows. Project would utilize spray equipment and personnel from the Eastern WMA Complex.

Total cost for herbicides applied by ground spray equipment is expected to be \$1091.10 and \$227.50 for Garlan IV herbicide for cut stump treatment of salt cedar

Total estimated cost for herbicides is \$1318.60

Project Fit with other Department Programs and Strategic Planning:

Annual vegetation control is identified in all of the current WMA Conceptual Management Plans. Desired Outcome; Wildlife habitats that are in good ecological condition, capable of supporting a diverse array of wildlife species. Goal: Habitat is the key to the success of all wildlife populations. Effective habitat is an integral function of the Department of Wildlife. NDOW will preserve and protect quality habitat and enhance deficient habitats. Objective: Maintain, protect and enhance wildlife habitats on wildlife management areas (WMA's) by applying good science and best management practices through implementation of Comprehensive Management Plans on all WMA's through 2009. (Comprehensive Strategic Plan-2004-2009 page -1)

Achieve an overall goal of no net loss of wetland area or function and the long-term goal to enhance and increase wetland quantity and quality within the WMA. (Wetland Conservation Plan).

Project Costs:

	Bureau	Days	Travel	Operating	Mileage @ .555¢/mile	Other (Specify)
2010	Habitat			\$1318.60	\$909.00	

Project Funding:

	Funding Source	Amount
2010	Cat 13	\$2227.60

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Fiscal Year:	<u>10, 11</u>	Budget Account:	<u>4458</u>
Bureau:	<u>Habitat</u>	Category:	<u>13</u>
Submitted by:	<u>Mike Zahradka</u>		
Project Title:	<u>Weed Control SVWMA</u>		

Project Description: (Objectives, Approach, Benefits, Evaluation)

Steptoe Valley WMA has several noxious weeds that are mandated by the state of Nevada to be controlled. For the past two years above average precipitation has caused a significant increase in the total acres of noxious weeds on the management area. Most of these weeds are established in the riparian wetland areas. We also have a need to control emergent vegetation in the lake and impoundments on the area. Short white top and Canada thistle have flourished and the total current estimated acreage is 300 acres. Hard stem bullrush and cattail is expanding at Comins Lake and in some of the impoundments impacting hunter and fisherman access and waterfowl use. To maintain these areas the appropriate herbicides need to be applied annually where other methods to control the vegetation is not an option. The goal is to achieve a level of control when total extermination is not possible that would minimize mantime and chemicals needed annually to perform maintenance applications consisting of primarily spot treatments. Since Steptoe Valley is near the top of the water shed we are obligated to control noxious weeds preventing the spread to our down stream and adjoining neighbors. We are active in the local CWMA to control noxious weeds as well.

Current cost estimates for one year of treatment:

Weed R 64 -150 gal at \$14/gal = \$2,100

Rodeo/Glypro-35 gal at \$35/gal = \$1,225

Dye-25 gal at \$19/gal = \$475

Surfactant-100 gal at \$12/gal=\$1,200

Total cost =

\$5,000

Project Fit with other Department Programs and Strategic Planning:

It is hoped that available mantime and funding will be available in FY09 and FY10 to reach a level of control to be considered maintenanc by FY11. This project is identified in the Steptoe Valley WMA Conceptual Management Plan. The NDOW Strategic Plan states: Habitat is the key to the success of all wildlife populations. Effective management is an integral function of the department of Wildlife. Maintain, protect and enhance wildlife habitats on wildlife management areas by applying good science and best management practices through the implementation of Comprehensive Management Plans on all WMAs.

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Project Costs:

	Division	Days	Travel	Operating	Mileage @ .55¢/mile	Other (Specify)
Year 1	Habitat	15	0	5,000	150	chems/miles
subtotal:		15	0	5,000	150	
Year 2	Habitat	15	0	5,000	150	chems/miles
subtotal:		15	0	5,000	150	
Total:		30	0	10,000	300	

Project Funding:

	Funding Source	Amount
Year 1	Cat 13	5,000
	Cat 20	150
subtotal:		5,150
Year 2	Cat 13	5,000
	Cat 20	150
subtotal:		5,150
Total:		10,300

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Fiscal Year: 10-11 **Budget Account:** 4458
Bureau: Habitat **Category:** 13
Submitted by: Pat Kelly
Project Title: Redhead Pumping Station

Project Description: (Objectives, Approach, Benefits, Evaluation)

This project involves the cost of running a fifteen(15) horsepower pumping station located West of Redhead Pond, for a period of approximately six months per year (183 days max.), allowing for the use of alternative water supplies other than decree water for pond management on the Mason Valley Management Area.

Project Fit with other Department Programs and Strategic Planning:

This pipeline project is part of the water conservation program @ MVWMA funded in part by B.O.R, intended to increase flows to Walker Lake. Walker Lake falls under the guidelines of an at-risk, natural desert terminal lake. This pumping station is part of a plan to more efficiently use alternative water supplies, thereby reducing the demand for decree water, thus increasing discharge from the management area to the Walker River.

Project Costs:

	Bureau	Days	Travel	Operating	Mileage @ .51¢/mile	Other (Specify)
Year 1	Habitat					\$30.00/day
						For Aprox. 183 days
subtotal:						\$5490.00
Year 2	Habitat					\$30.00/day
						Approx. 183 days
subtotal:						\$5490.00/yr
Total:						\$10,980.00

Project Funding:

	Funding Source	Amount
Year 1	Project 13 Ducktamp	\$5490.00
subtotal:		\$5490.00
Year 2	Project 13 Duckstamp	\$5490.00
subtotal:		\$5490.00
Total:		\$10980.0

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Fiscal Year:	<u>10-11</u>	Budget Account:	<u>4458</u>
Bureau:	<u>Habitat</u>	Category:	<u>13</u>
Submitted by:	<u>Pat Kelly</u>		
Project Title:	<u>Mason Valley Joggles Well Pumping</u>		

Project Description: (Objectives, Approach, Benefits, Evaluation)

This funding would be utilized for the electrical costs associated with the Joggles Well pumping. This well becomes invaluable in the late summer and early fall months when waterfowl habitat becomes a premium. An increase of 15% has been factored into this amount for electrical increases.

Project Fit with other Department Programs and Strategic Planning:

This project is spelled out in the CMP for the area, specifically providing waterfowl habitat for our hunting public.

Project Costs:

	Bureau	Days	Travel	Operating	Mileage @ .55¢/mile	Other (Specify)
Year 1	Habitat			4,900.00		
subtotal:						
Year 2				4,900.00		
subtotal:						
Total:				9,800.00		

Project Funding:

	Funding Source	Amount
Year 1	Cat. 56	4,900.00
subtotal:		
Year 2	Cat.56	4,900.00
subtotal:		
Total:		9,800.00

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST
FY 2010**

Fiscal Year:	<u>2010</u>	Budget Account:	<u>4458</u>
Bureau:	<u>Habitat</u>	Category:	<u>13</u>
Submitted by:	<u>Dana Johnson</u>		
Project Title:	<u>Kirch WMA-Prescribed Burning</u>		

Project Description: (Objectives, Approach, Benefits, Evaluation)

Prescribed burning is a practical tool for the management of natural vegetation for the control of litter and the stimulation of plant regrowth. Using prescribed fire as a management tool in wetlands can reduce dead debris, control undesirable shrubs, and thick stands of cattail and bulrush, increase availability of desirable forage and improve wildlife habitat. Currently area management includes prescribed burning to improve habitat conditions for resting, nesting and feeding by waterfowl. The burns remove excessive litter and optimize forage production for waterfowl. The burn program is closely tied to herbicide spraying and water management programs. A five-year burning rotation is targeted for wet meadow, annual grassland, riverine, and fresh emergent wetland on the WMA identified as waterfowl forage areas. The green-up of native wetland grasses following the fall burns provide excellent habitat for waterfowl and shorebirds. Prescribed burns on the management area occur in the late fall and winter because by March the waterfowl are nesting and during the summer the vegetation is too green to be effectively burned. Firebreaks are developed and maintained in association with any planned prescribed fire and to protect boundaries and other habitats. On Kirch WMA, prescribed burning is usually conducted in coordination with the Nevada Division of Forestry and occasionally BLM. Funds requested will be used to pay NDF labor for conducting a prescribed burn on the Kirch WMA. Costs quoted by NDF are \$2500.00 per 500-1000 acre burn and include inmate labor crews and support equipment and personnel.

Project Fit with other Department Programs and Strategic Planning:

Prescribed burning is identified in the KWMA Conceptual Management Plan. Desired Outcome; Wildlife habitats that are in good ecological condition, capable of supporting a diverse array of wildlife species. Goal: Habitat is the key to the success of all wildlife populations. Effective habitat is an integral function of the Department of Wildlife. NDOW will preserve and protect quality habitat and enhance deficient habitats. Objective: Maintain, protect and enhance wildlife habitats on wildlife management areas (WMA's) by applying good science and best management practices through implementation of Comprehensive Management Plans on all WMA's through 2009. (Comprehensive Strategic Plan-2004-2009 page-1)

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST
FY 2010**

Project Costs:

	Bureau	Days	Travel	Operating	Mileage @ .55¢/mile	Other (Specify)
2010	Habitat			\$2500.00	\$100.00	
subtotal:						
Total:				\$2500.00	\$100.00	

Project Funding:

	Funding Source	Amount
2010	Cat 13	\$2600.00
Total:		\$2600.00

Nevada Department of Wildlife
LEVEL B PROJECT REQUEST
FY 2010

Burning a dense stand of dead hardstem bulrush - Adams McGill 03



Removing more dead hardstem bulrush – Adams McGill 03



**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST
FY 2010**

Fiscal Year:	<u>2010</u>	Budget Account:	<u>4458</u>
Bureau:	<u>Habitat</u>	Category:	<u>13</u>
Submitted by:	<u>Dana Johnson</u>		
Project Title:	<u>Kirch WMA Parshall Flume Replacement</u>		

Project Description: (Objectives, Approach, Benefits, Evaluation)

Existing parshall flumes are nearing the end of their service life and should be replaced so as to not interrupt ongoing monitoring and data collection. Parshall flumes are an essential part of overall water management at Kirch WMA. Flumes will be built and purchased from a local fabricator and installed by Kirch WMA personnel to help minimize costs of project.

Project Fit with other Department Programs and Strategic Planning:

Monitoring inflow/outflow water measurements are identified in the Kirch WMA Conceptual Management Plan: "The first formal Water Management Plan (WMP) for the KWMA was implemented in 1982. Monitoring studies were implemented at each reservoir to properly evaluate the results of the WMP and make adjustments as required. Monitoring has included: weekly project inflow/outflow water measurements, reservoir submerged vegetative transects and emergent vegetative photo plots. The water distribution system is composed of approximately 17 miles of dirt ditches and about nine miles of natural stream channels. " (KWMA Conceptual Management Plan) Water measurements are taken weekly from 1- 84" parshall flume and 5 - 24" parshall flumes strategically located throughout the water distribution system and are essential to water management at Kirch WMA as well as providing important water data. Project estimate includes materials and labor to construct 1- 84" parshall flume (\$2443.58), 5- 24" parshall flumes (\$1269.72 each), 6 – staff gauges (\$44.94 each), shipping (\$507.00) and mileage (\$990.00).

Project Costs:

	Bureau	Days	Travel	Operating	Mileage @ .55¢/mile	Other (Specify)
2010	Habitat			\$9,569.00	\$990.00	
Total:				\$9,569.00	\$990.00	

Project Funding:

	Funding Source	Amount
2010	Cat 13	\$10,559.00

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Fiscal Year:	<u>10</u>	Budget Account:	<u>4458</u>
Bureau:	<u>Habitat</u>	Category:	<u>13</u>
Submitted by:	<u>Keith Brose</u>		
Project Title:	<u>Overton goose field farming</u>		

Project Description: (Objectives, Approach, Benefits, Evaluation)

This project would involve the planting of wildlife friendly crops in various fields at the Overton Wildlife Management Area. NDOW has entered into a sharecrop agreement with a local farmer who will farm approximately 100 acres of the WMA; however NDOW staff will farm the remaining 50 acres. Both farming programs are intended to provide quality wildlife habitat with emphasis directed toward waterfowl feeding conditions. In addition, area personnel will plant various cereal grains and millet in areas that lie outside of the cultivated fields.

Project Fit with other Department Programs and Strategic Planning:

This project is consistent with strategies included in the Overton Conceptual Management Plan.

Project Costs:

	Bureau	Days	Travel	Operating	Mileage @ .55¢/mile	Other (Specify)
Year 1				\$3,900		
Total:				\$3,900		

Project Funding:

	Funding Source	Amount
Year 1 Total:	Duck Stamp	\$3,900

**Nevada Department of Wildlife
LEVEL B PROJECT REQUEST**

Fiscal Year:	<u>10</u>	Budget Account:	<u>4458</u>
Bureau:	<u>Habitat</u>	Category:	<u>13</u>
Submitted by:	<u>Mike Zahradka</u>		
Project Title:	<u>SVWMA Polaris Ranger</u>		

Project Description: (Objectives, Approach, Benefits, Evaluation)

This project would involve the purchase of a Polaris Ranger XP side by side ATV with windshield installed. The unit would provide the opportunity to control noxious and invasive weeds in wetland areas where conventional trucks and tractors can not go due to boggy conditions. The unit would also be used in vegetation restoration efforts within the recently completed wetland restoration project at the Steptoe WMA. The unit would also be used during noxious weed control and vegetation restoration efforts at other Eastern Complex WMAs.

Project Fit with other Department Programs and Strategic Planning:

The availability of such a unit would provide managers the opportunity to implement noxious weed control and vegetation restoration programs at a level not attainable with conventional pickups and tractors. The control of noxious weeds is required by state law and the control of other invasive weeds is listed as a goal in the Conceptual Management Plans for all of NDOW's wildlife management areas.

Project Costs:

	Division	Days	Travel	Operating	Mileage @ .55¢/mile	Other (Specify)
Year 1	Habitat			\$11,059		
subtotal:				\$11,059		
Year 2						
subtotal:						
Total:				\$11,059		

Project Funding:

	Funding Source	Amount
Year 1	4458 Category 13	\$11,059
subtotal:		
Year 2		
subtotal:		
Total:		\$11,059

OVERVIEW // FEATURES // BUILD & QUOTE // SPECS // SALES

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RANGER BUILD & QUOTE

Model: Delta Green RANGER 4x4

Model Number: R08RH6BAG

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CUSTOMIZATION SUMMARY	MODEL / ITEM #	MSRP
Model		
Delta Green RANGER 4x4 XP (USA)	R08RH6BAG	\$10,499.00
Accessories / Extended Warranty		
RANGER Sport Roof Black	2876399-070	\$239.99
RANGER Steel/Glass Flip-Up Window	2876272	See Dealer
RANGER 2 Receiver Hitch Tongue	2875320	\$39.99
RANGER Front Brushguard	2874961-418	\$179.99
RANGER Front Brushguard Extensions	2875059-418	\$99.99
4,000 lbs. Winch	2876667	\$799.99
Apparel		

Subtotal: \$11,058.96 | Payments: \$180.69 Mo.

* Price and MSRP and do not include freight, setup or labor charges. In California, add \$200 to MSRP for special emission package. Price and product availability subject to change without notice. References to estimated monthly payments are based on MSRP and financing of 8.9% APR for 84 months on the Polaris Loan Care financing subject to credit approval.

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