



**UBBWA Llano Seco Unit  
Upland Restoration, Free Roam Phase I  
Contract #P1680045**

**Upland Game Bird Stamp Final Report**



**Perennial Grasses after Sprouting (Planted Fall 2018)**

### **Project Summary**

California Waterfowl Association undertook the planting of the Llano Seco Unit's upland fields during the fall of 2017 and 2018, located within the free roam area. The improvements are intended to establish a perennial grass mix dedicated to enhancing nesting cover for all ground nesting bird species. Of the \$52,116.60 budgeted, a total of \$52,024.35 in upland game bird stamp funds were spent to complete the project. An increase in acreage benefits elevated the planting area to  $\pm 101$  acres (92 acres proposed) and a total of \$92.25 of the budget remains.

### **Project Details**

The project was undertaken in phases starting in 2017 with the planting of 40 acres and then in 2018 with the completion of the planting with an additional  $61 \pm$  acres. In the fall of 2017 the initial 40 acres was chopped and then stubble disked followed by a finish disking. Once the first rains hit the field was then sprayed with an all spectrum herbicide and the seed was then drilled. In the spring the broadleaf weeds were sprayed and the 61 acres was also sprayed with an all

spectrum herbicide to prevent growth of weeds as well. In the fall of 2018 we were able to mow and then stubble disk followed by the finish disk. The drilling of the seed mix took place and the completion of the project was wrapped up.

The grasses that have grown since 2017 are establishing well with an average height of about 12"-15" currently with thick coverage. This year they should really start to shoot up and dominate. The 2018 seeding has already grown to about 6" and the vetch is actually coming in very nice as well as the perennials. Over the next three years the perennial grasses will start to dominate and provide improved cover for all ground nesting birds. The maturity of this site will take place over the next three years and the full potential for production will grow along with it.

#### Final Construction Costs:

<b><u>EXPENSE</u></b>	<b><u>BUDGET</u></b>	<b><u>TOTAL EXPENSES</u></b>
<b>Materials:</b>		
Perennial Grass Mix	\$11,040.00	\$13,695.00
<b>Subtotal</b>	<b>\$11,040.00</b>	<b>\$13,695.00</b>
<b>Construction:</b>		
Field Contouring/Earthwork	\$4,000.00	\$0.00
Field Prep and Seeding	\$13,800.00	\$18,815.00
Spraying of Broadleaf Control	\$15,180.00	\$9,415.00
<b>Subtotal</b>	<b>\$32,980.00</b>	<b>\$28,230.00</b>
Personnel Services	\$4,395.20	\$7,026.94
Mileage	\$626.40	\$127.63
Miscellaneous	\$125.00	\$0.00
<b>Subtotal</b>	<b>\$5,146.60</b>	<b>\$7,154.57</b>
<b>OPERATING EXPENSES</b>	<b>\$49,166.60</b>	<b>\$49,079.57</b>
CWA Overhead @ 14%	\$6,883.32	\$6,871.14
CWA In-Kind Contribution of O/H @ 8%	\$3,933.33	\$3,926.37
<b>Final Project Costs</b>	<b>\$52,116.60</b>	<b>\$52,024.35</b>



**Chopped Field**



**Ready for Seeding**



**Seed Mix**





**Seed Drill**



**Planting in Action**



**2018 Fall Planting in Spring 2019**



**Fall 2018 Planting about 5-6"**





**Vetch is very Prolific**



**Fall 2017 Results**



**12-18" of Growth so Far (Spring 2019) of the 2017 Grasses**



