

## **CONSERVATION ENHANCEMENT ACTIVITY**

# CONSERVATION STEWARDSHIP PROGRAM

### E646B

Extend retention of captured rainfall for migratory waterfowl and wading bird late winter habitat

**Conservation Practice 646: Shallow Water Development and Management** 

**APPLICABLE LAND USE: Crop (Annual & Mixed)** 

**RESOURCE CONCERNS: Animals** 

**PRACTICE LIFE SPAN: 5 years** 

## **Enhancement Description:**

When flooded to shallow depths during fall and winter, agricultural fields provide ideal foraging habitat for myriad species of waterfowl and wading birds. Harvested and idled agricultural lands, notably those occurring within rice rotations, contain high densities of residual (i.e., waste) grain and natural seeds following harvest. In addition, flooded conditions promote establishment of aquatic invertebrate populations, a protein-rich food source for shorebirds as well as waterfowl and wading birds. Flooded conditions across the broader landscape promote a network or continuity of habitat that is available to migratory waterfowl and wading birds. Benefits may become greatest during late winter and early spring as birds are assimilating nutrient and fat reserves in preparation for northward migration. However, agricultural fields flooded during fall-winter are typically drained during late January or February in advance of spring planting. This often results in a rapid reduction in available habitat and may constrain ability of migratory birds to adequately prepare for migration, with greatest impacts likely occurring during years of low winter precipitation. Retention of water on agricultural lands into early spring will produce maximum benefits to migratory waterfowl and shorebirds by providing high quality habitat during a time when habitat may otherwise be in low abundance.

E646B - Extend retention of captured	August 2019	Page 1
rainfall for migratory waterfowl and wading		
bird late winter habitat		

### Criteria:



This enhancement applies to crop land use acres with leveed fields capable of holding water at an average depth of 6 to 18 inches for the duration of the activity.

- Develop a wildlife habitat management plan for the targeted species suite.
- Water control structures affecting the subject land use are to be closed by mid-fall and remain closed until late winter to early spring.
  - Water depths of 6 to 10 inches provide maximum benefit to targeted species.
  - Water depths shall not exceed 18 inches for any extended period.
- A Wildlife Habitat Evaluation Guide (WHEG) specific to shallow water habitat on cropland must be used to show that implementation of the Enhancement will improve wildlife habitat value from fair (planning criteria = 0.5) to good (planning criteria greater than 0.5 and less than or equal to 0.6) or from good to very good (planning criteria greater than 0.6).

Note: This Enhancement may be grouped with E647A - Manipulate vegetation on fields with captured rainfall for waterfowl and wading bird winter habitat. If not grouped with E647A, this Enhancement may also be grouped with E646C — Manipulate vegetation and maintain closed structures for shorebird mid-summer habitat or E646D — Manipulate vegetation and maintain closed structures for shorebird late summer habitat.

E646B - Extend retention of captured	August 2019	Page 2
rainfall for migratory waterfowl and wading		
bird late winter habitat		



# **Documentation and Implementation Requirements:**

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# CONSERVATION

Pai	rticipar	nt Will:			ARDS	HIP
		o implementation, ensure water control ures are in proper working order.	PRO	GK	AIVI	
	Prior to implementation, meet with NRCS to review results of the wildlife habitat					
	assessment conducted by NRCS and discuss range of management alternatives that would improve wildlife habitat conditions.					nat would
		o implementation, meet with NRCS to obtain a	and review	the W	ildlife Habit	at
	During implementation, follow the Wildlife Habitat Management Plan including opening / closing water control structures as specified in order to hold water at the proper time and at the proper depth.					
	During	g implementation, maintain a field log to includ	de:			
	0	Crops grown and the harvest date for the cro		n the a	applic <mark>able a</mark>	cres;
	0	Date/time the water control structure was cle				
	0	Date/time of each field visit and observed wa and average water depths;	ater levels o	r perc	ent holding	capacity
	0	Date/time when the water control structures	-			
	0	Digital photographs documenting the conditi provided.	on of the st	ructur	es and the	habitat
		mplementation, provide the field log to NRCS applemented to meet criteria.	for review t	o veri	f <mark>y enhance</mark> r	ment
NR	CS Will	<b>:</b>				
	As nee	eded, provide additional technical assistance to	o th <mark>e partici</mark>	pant.		
	leveed fields capable of holding water at an average depth of 6 to 18 inches for the					
	durati	on of the activity.				
		o implementation, assess the habitat condition	_			
	Guide	to calculate current WHEG score and anticipat	ted WHEG s	core a	fter implen	nentation

E646B - Extend retention of captured	August 2019	Page 3
rainfall for migratory waterfowl and wading		
bird late winter habitat		



	Planned Post Implementation WHEG score =	<b>STEWARDSHIP</b>			
•		PROGRAM			
	Prior to implementation, review the results of the				
	wildlife habitat evaluation with the participant, and				
	alternatives that would improve wildlife habitat co				
	Prior to implementation, develop a Wildlife Habitat species.	t Management Plan for targeted suite o			
	Prior to implementation, meet with participant to r Plan.	review the Wildlife Habitat Managemen			
	After implementation, reassess habitat condition u	ısing Wildlife Habitat Evaluation <mark>Guide;</mark>			
	Post Implementation WHEG score =				
	After implementation, review field log to verify enhancement was implemented to meet criteria.				
	circeria.				
NRC	CS Documentation Review:				
	ave reviewed all required participant documentatio				
par	rticipant has implemented the enhancement and m	let all criteria and requirements.			
Par	rticipant Name	_ <mark>Contract Nu</mark> mber			
Tot	tal Amount Applied	Fiscal Year Completed			
		ristar rear completed			
NR	CS Technical Adequacy Signature	Date			

E646B - Extend retention of captured	August 2019	Page 4
rainfall for migratory waterfowl and wading		
bird late winter habitat		



# **OREGON SUPPLEMENT TO CONSERVATION**

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### **Additional Documentation Requirements for Oregon**

In addition to the documentation requirements specified in the National job sheet E646B, the following additional documentation requirements apply in Oregon:

 Use the SONEC Wildlife Habitat Evaluation Guide (WHEG) located in the eFTOG. Though it was designed for the southern region of the state, it can be applied as needed for the purpose of this enhancement. Direct any questions regarding the use of the WHEG to your Basin or State biologist. eFOTG: Section 3: Oregon Conservation Planning Documents: Wildlife Habitat Inventory Documents

Present \	WHEG Sc	ore:_	 
Planned	WHEG So	ore:	

Document in the practice specification how this enhancement will maintain or enhance the habitat for the identified wildlife species.