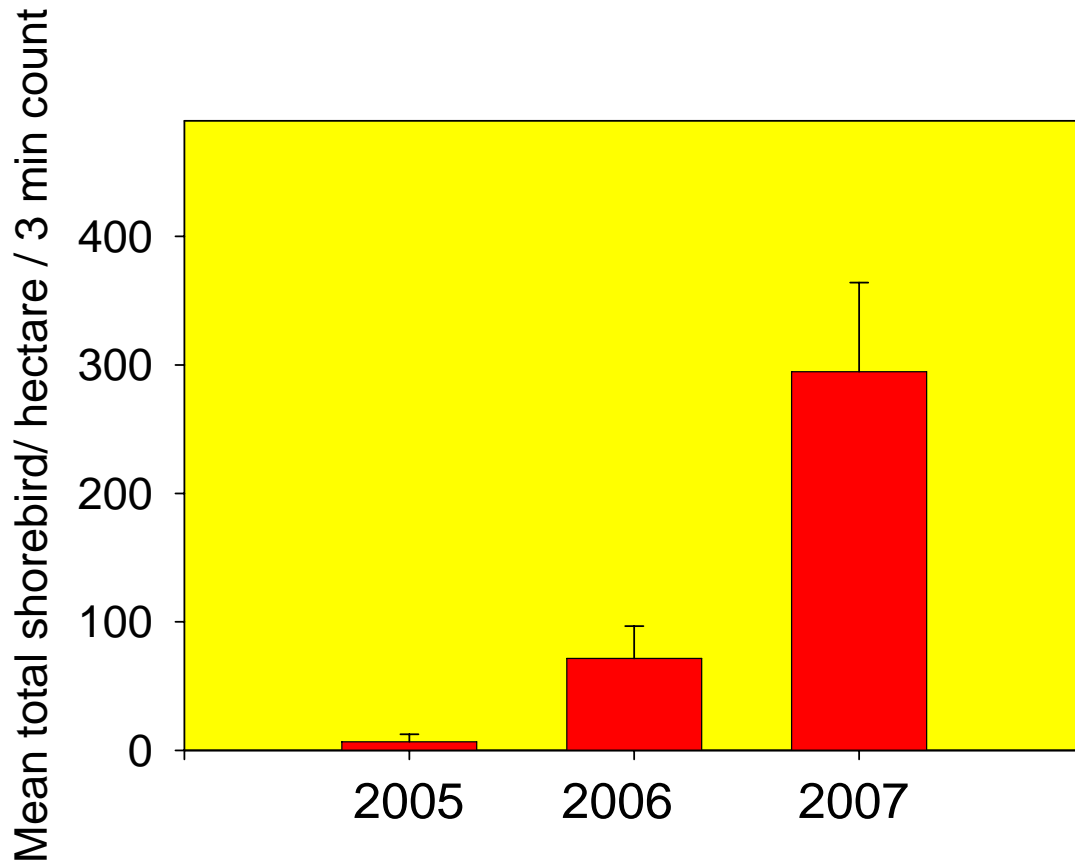


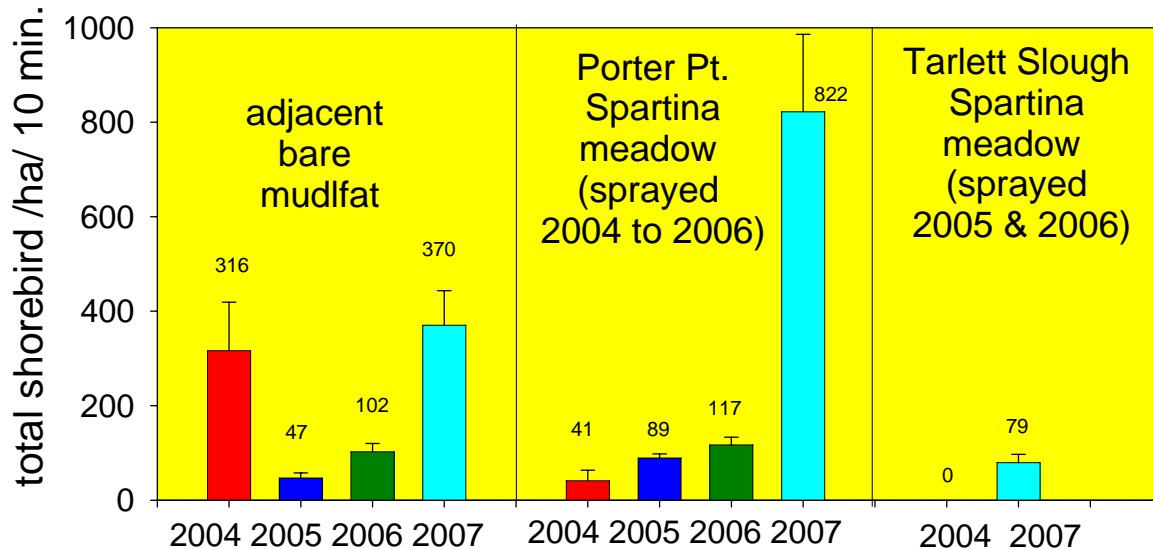
Mean Spring Migration Shorebirds @ Palix River mudflat following Spartina Control



Palix River meadow was ~ 600 acre of solid Spartina.
The meadow was treated with imazapyr by air in fall 2004,
boom sprayed in 2005, and spot sprayed in 2006 and 2007.
Data collected by Washington State University for the Willapa
National Wildlife Refuge

Total Shorebirds During Spring Migration Porter Pt. Unit, Willapa National Wildlife Refuge

Change in foraging density following Spartina control



Data reflect increase in usage of prime shorebird habitat following control of Spartina.

The Porter Point meadow treated in 2004 to 2006 was essentially Spartina free in Spring 2007.

The Tarlett Slough meadow was treated in 2005 & 2006 was ~ 60 % Spartina free in Spring 2007. This meadow had zero bird usage in 2004.

Study conducted by WSU Long Beach

Bars = mean shorebird (all species) with standard error