

- Ma-le'l Dunes
- Independent variables: wetland type, vegetation, altered/unaltered
- Response variable: Virginia rail detections

Unaltered Altered Figure 3. Number of Virginia rail found in altered vs unaltered

nificant effect on occupancy	P-value
allow wetland	0.04
nergent vegetation	0.005
altered habitat	0.002



Figure 5. Virginia Rail in emergent vegetation and brush.



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Virginia rail significantly use **shallow**, emergent, unaltered wetlands

Results align with the literature for habitat characteristics

Some detections were in blackberry brush even though emergent vegetation was nearby, so level of cover and ground accessibility for rails may be factors worth exploring

Challenges: detection accuracy, removal of wetlands from the study, audio calling is controversial

Confounding variables: weather, noise, human presence, seasonal vegetation, wetland accessibility

A more thorough index of Humboldt County's less accessible wetlands should be undertaken

Wetlands with shallow, emergent vegetation should be a **conservation focus** for Virginia rail

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