

**U.S. Fish and Wildlife Service  
2009 - 2010 Sacramento NWR Free Roam Area  
Habitat Description (when completely flooded)**

Conditions could fluctuate depending on weather, beavers and levee breaks

<b>Tract</b>	<b>Habitat</b>	<b>Dominant Vegetation</b>	<b>Ave. Normal Water Depth</b>	<b>% Open Water</b>	<b>Considerations</b>
21 North half	SFM	Jointgrass/Bulrush	Moderate	80%	Limited cover
21 South half	Upland	Saltgrass	N/A	N/A	
22 North half	SFM	Timothy/Bulrush	Moderate	80%	
22 South half	Upland	Saltgrass	N/A	N/A	
24.1	SFM	Tule/Timothy	Moderate	60%	Spot discing
24.2	SFM	Timothy/Bulrush	Moderate	90%	Spot discing
24.3	SFM	Timothy/Tule	Moderate	90%	Limited cover
25	Upland	Bulrush	N/A	N/A	
27	SFM	Bulrush/Cocklebur	Moderate	50%	
28.1	WG	Watergrass/Jointgrass	Moderate	20%	Heavy discing, difficult walking
28.2	WG	Watergrass/Smartweed	Moderate	20%	Heavy discing, difficult walking
30	SFM	Bulrush/Timothy	Moderate/Deep	60%	Limited cover
31 North half	SFM	Timothy/Bulrush	Moderate/Deep	95%	"Caution: Deep Water" signs are posted; use caution wading
31 South half	SFM	Timothy	Shallow/Moderate	95%	
34.1	WG	Watergrass/Smartweed	Moderate	20%	Spot discing
34.2	SFM	Timothy/Cocklebur	Moderate	80%	
35.1	WG	Watergrass/Smartweed	Moderate	20%	Spot discing
35.2	SFM	Bulrush/Bermuda	Moderate/Deep	50%	Spot discing
35.3	SFM	Cattail/Timothy	Moderate	20%	
37	Upland	T. Wheat/Perla Grass	N/A	N/A	
38.1	SFM	Timothy/Cocklebur	Moderate/Deep	80%	Disabled boat launch Use caution wading
38.2	SFM	Timothy/Tule	Moderate/Deep	80%	Use caution wading
40.1	WG	Smartweed/Watergrass	Moderate	20%	Spot discing, difficult walking
40.2	WG	Watergrass/Tule	Moderate	30%	Spot discing, difficult walking
40.3	WG	Watergrass/Smartweed	Moderate	20%	Spot discing, difficult walking
40.4	WG	Watergrass/Tule	Moderate/Deep	20%	Spot discing
41	SW	Timothy/Bulrush	Moderate/Deep	60%	Caution: deep ditch in center and south end; Use caution wading
43	Upland	T. Wheat/Perla Grass	N/A	N/A	Pheasant hunting only

## KEY

**SFM - Seasonally Flooded Marsh**

**Shallow – 0-12”**

**Mix – plants and water evenly distributed**

**SW - Summer Water**

**Moderate – 12-24”**

**WG - Watergrass**

**Deep - >24”**

### Description of plants above water:

	<b>Height</b>	<b>Stems</b>	<b>Leaves</b>	<b>Seed Head</b>	<b>Other names</b>
<b>Cattail</b>	4-8 ft.	few, stout, long as leaves	long, flat, sword-shaped	brown, cigar-shaped	water-torch, soft-flag, broad-leaved cattail
<b>Tule</b>	6-12 ft.	thick, round, pithy	none	brown, small loose clusters	roundstem bulrush, bull tule
<b>Watergrass</b>	2-4 ft.	stout, semi flat at base	long, narrow	yellow-green tinged purple, 4-8 in.	millet
<b>Bulrush</b>	2-4 ft.	triangular	long, slender, >1/4" wide	brown, loose clusters	tuberous bulrush
<b>Bermuda Grass</b>	3"-1 ft.	semi flat, purplish	flat, short	4 individual spikes	devil's grass, wire grass
<b>Joint Grass</b>	1-3 ft.	long, thin, round sprawling	flat, long	several individual spikes	beaver hay
<b>Smartweed</b>	1-5 ft.	stems swollen above nodes	long and narrow	white/red	Knotweed