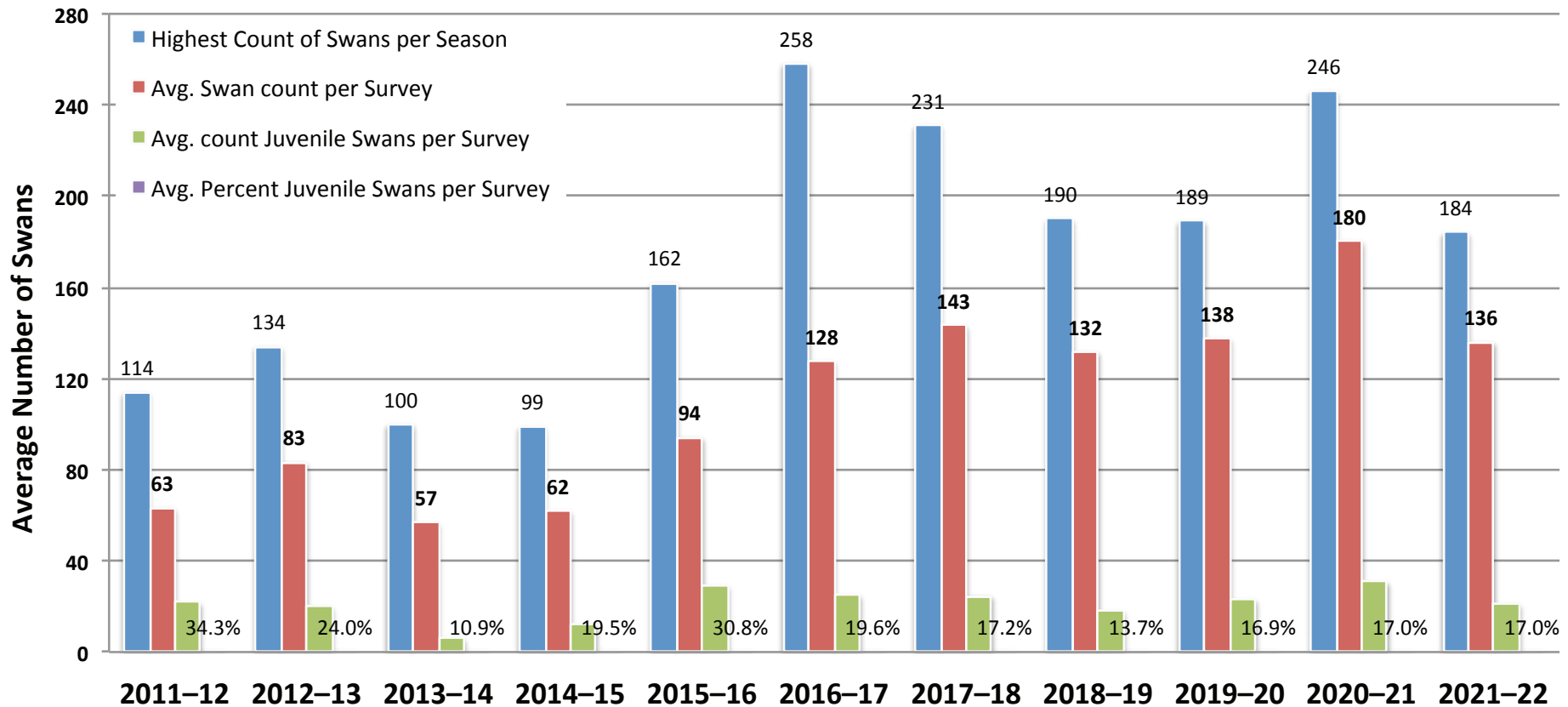


Seasonal high counts, 2011–2022 OPAS

Looking back

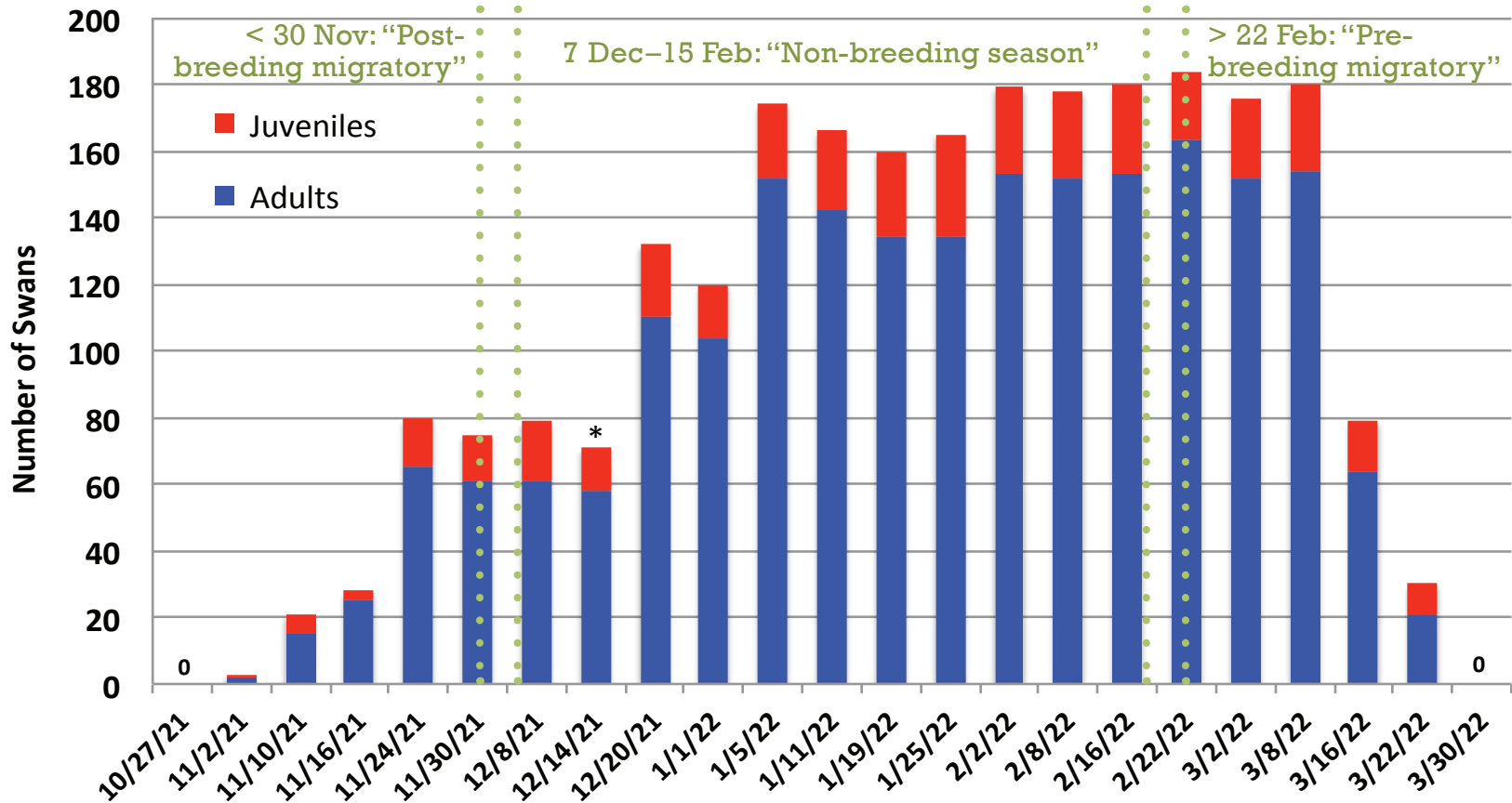
Peak and Average Numbers of Swans counted by OPAS Volunteers in the Sequim-Dungeness Valley, 2011–2022



2021–2022 results, OPAS

Total adult and juvenile swans, week by week

Numbers of Swans counted by OPAS Volunteers in the Sequim-Dungeness Valley, 2021–2022

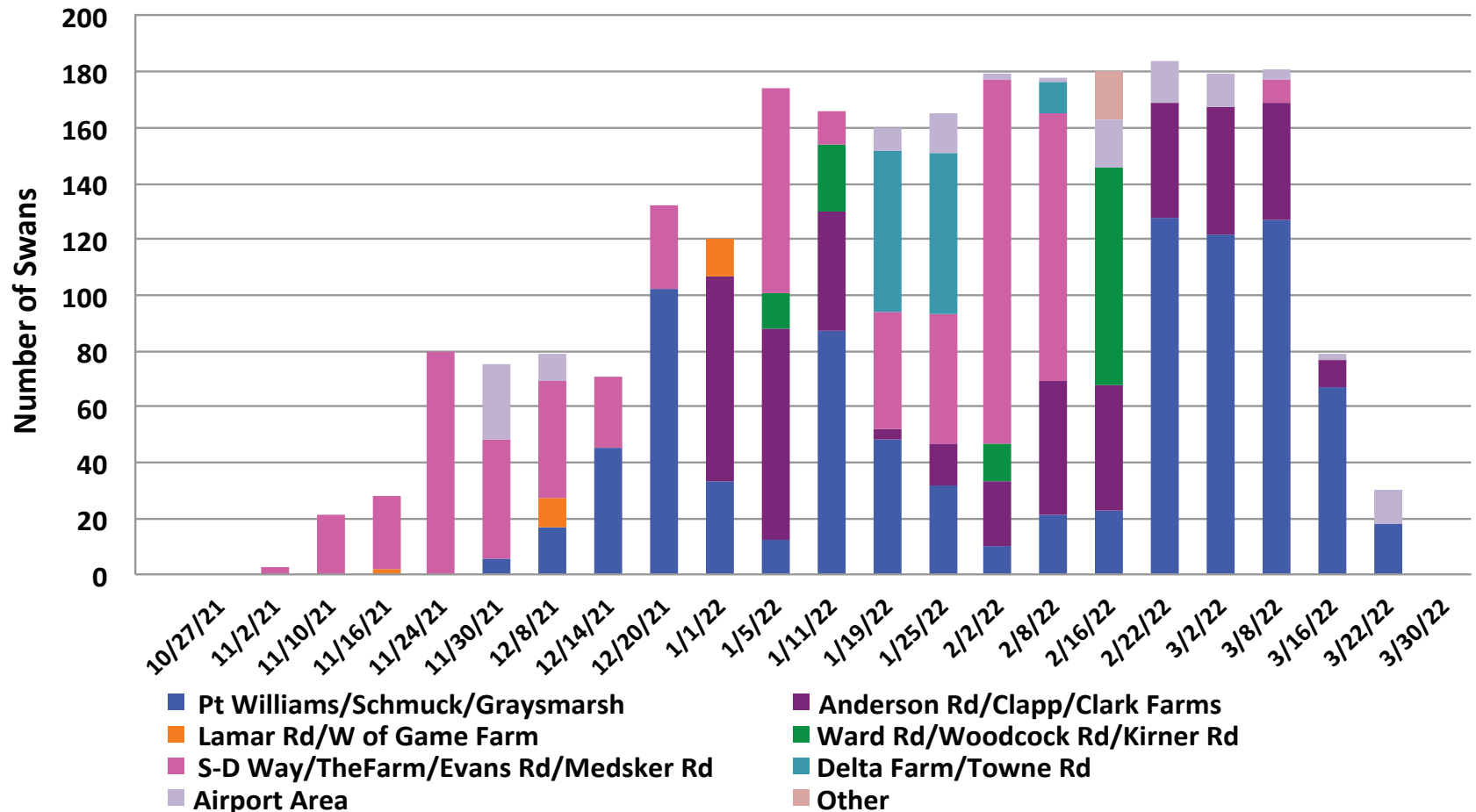


* Age not recorded in all locations.

2021–2022 results, OPAS

Daytime locations used through season

Locations occupied by Swans observed by
OPAS Volunteers in the Sequim-Dungeness Valley, 2021–2022



2021–2022 results, OPAS

Daytime habitats types used through season

Forage site needs

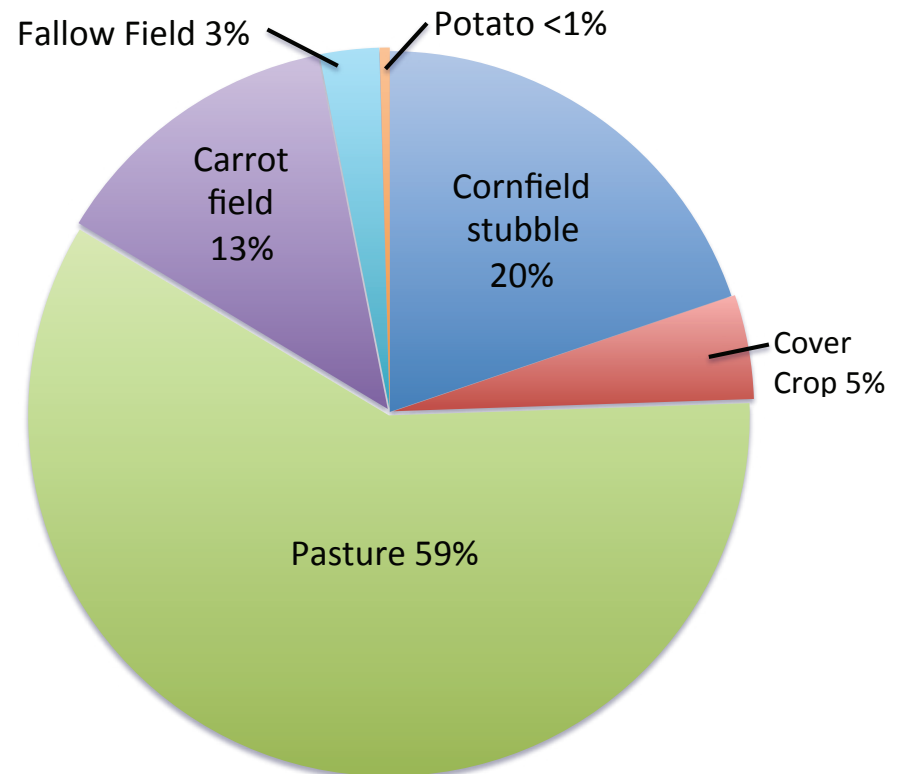
- Nutrition
- Water & grit (water day & night, even if food is a lesser quality)
- Proximity to roosting



grass–legume cover crop

Percent Diurnal Habitats used by Trumpeter and Tundra Swans in the Sequim-Dungeness Valley, 2021–2022

Observed by Olympic Peninsula Audubon Society Volunteers
N = 2441 Swan sightings in recorded habitats

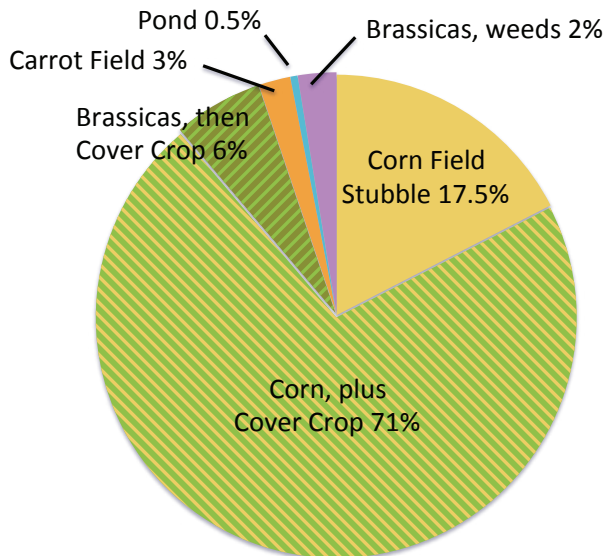


2019–2022 results, OPAS

Year-to-year usage by habitat type

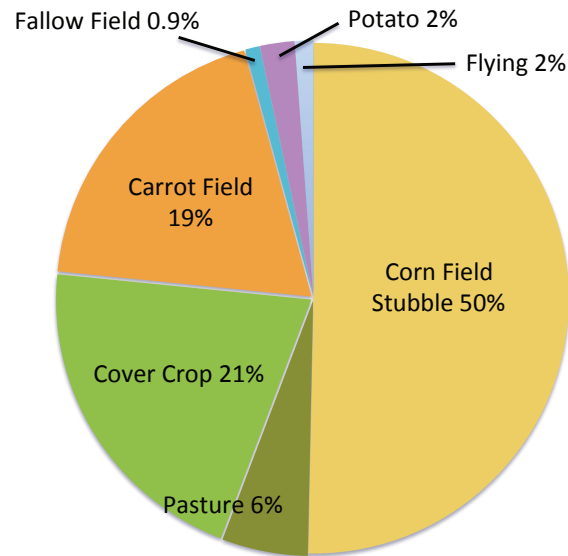
2019-2020

N = 2294 Swan sightings in recorded habitats



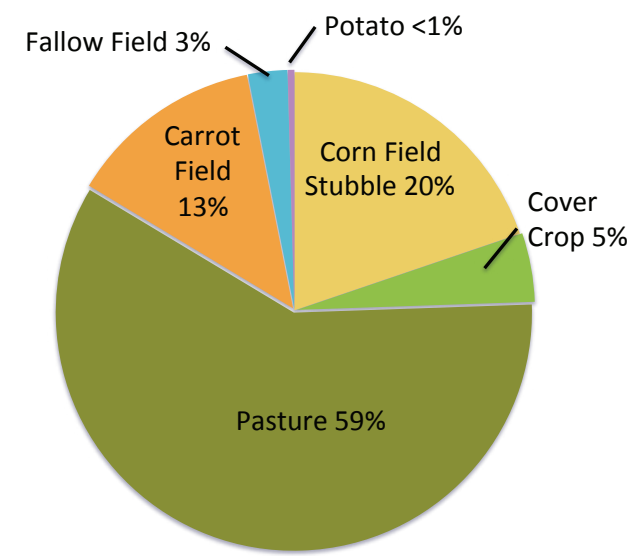
2020-2021

N = 3453 Swan sightings in recorded habitats



2021-2022

N = 2441 Swan sightings in recorded habitats



Autumn / Winter:
Carbohydrates and fats

Late Winter / Spring:
Green protein

- Crop plantings differ every year
- Meeting nutritional needs
- Incentivized habitat: WDFW cannot compensate for crop damage, but can work with farmers to help soil tilth and benefit swan habitat

2019–2022 results, OPAS

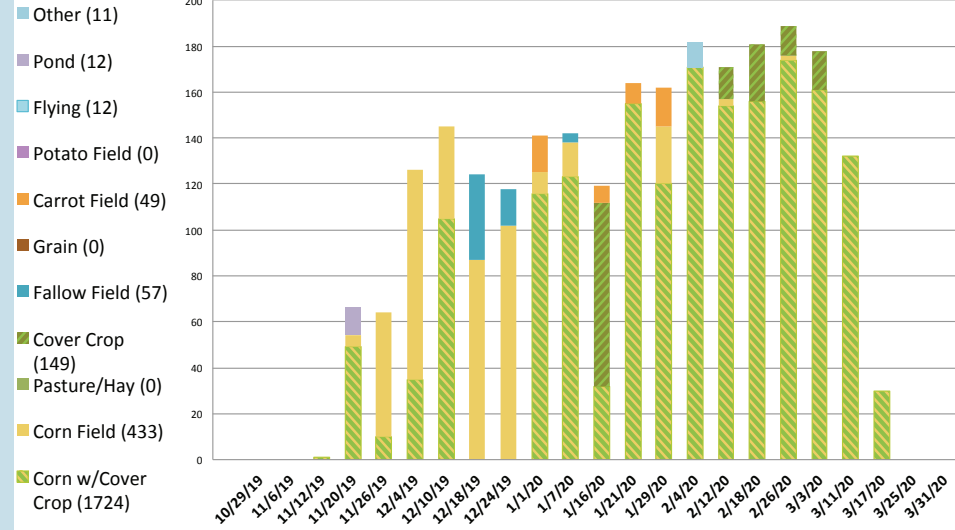
Week by week habitat types

Through three seasons:

- Diverse sources of nutrients
- Spring & green protein
- Carrot field mitigations:
19–20 few carrots;
20–21 short term hazing effort;
21–22 cover cloth and hazing

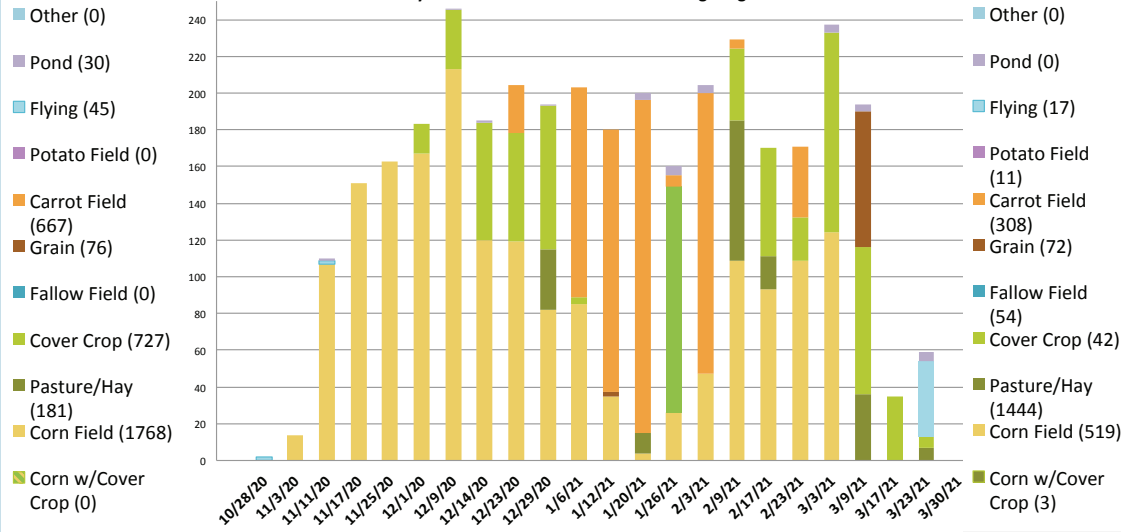
Diurnal Habitats used by Swans in the Sequim-Dungeness Valley, 2019–2020

Observed by OPAS Volunteers. N = 2294 Swan sightings



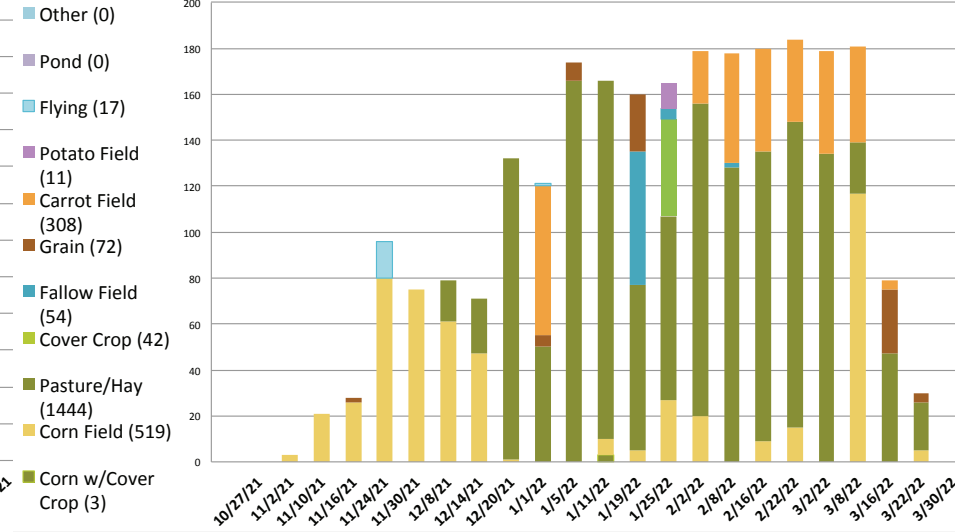
Diurnal Habitats used by Swans in the Sequim-Dungeness Valley, 2020–2021

Observed by OPAS Volunteers. N = 3453 Swan sightings



Diurnal Habitats used by Swans in the Sequim-Dungeness Valley, 2021–2022

Observed by OPAS Volunteers. N = 2481 Swan sightings



Roosting Survey

Through four winters, 2018–2022

MARSH POND

- Roberta's Pond
- Pond west of Game Farm

SLOUGHS

- Gierin marsh / Graysmarsh

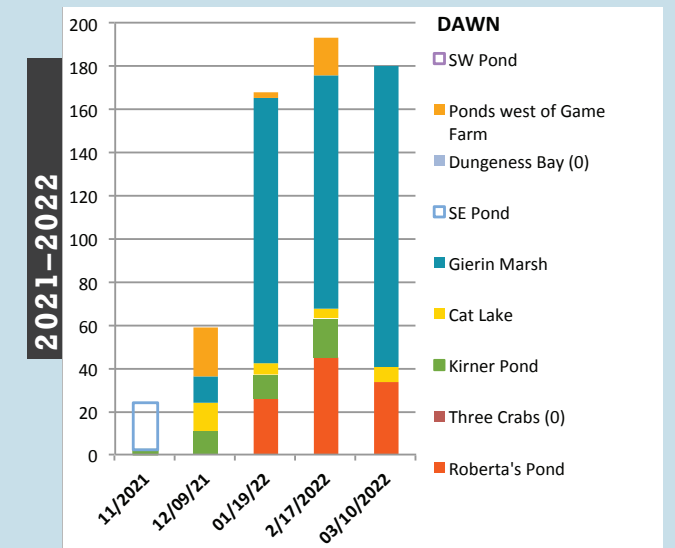
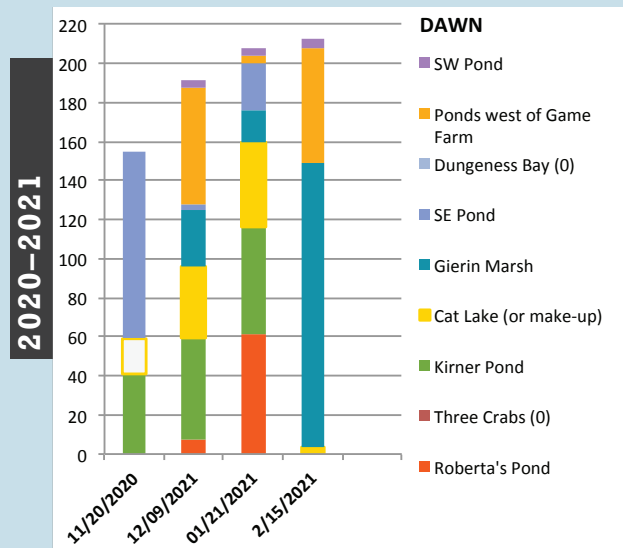
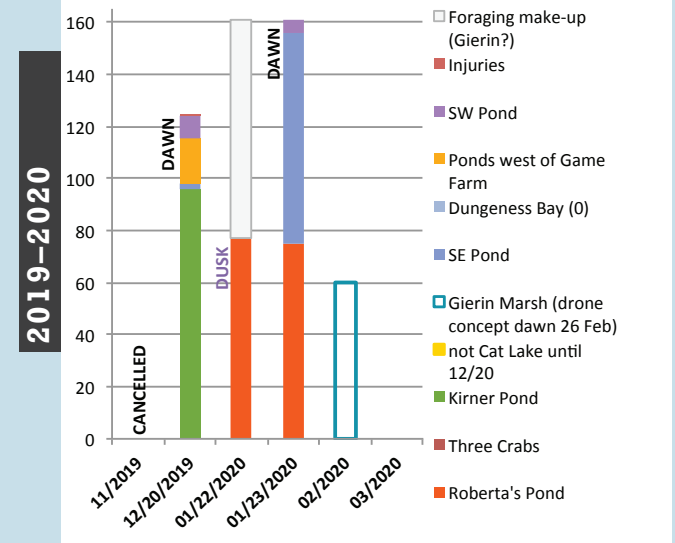
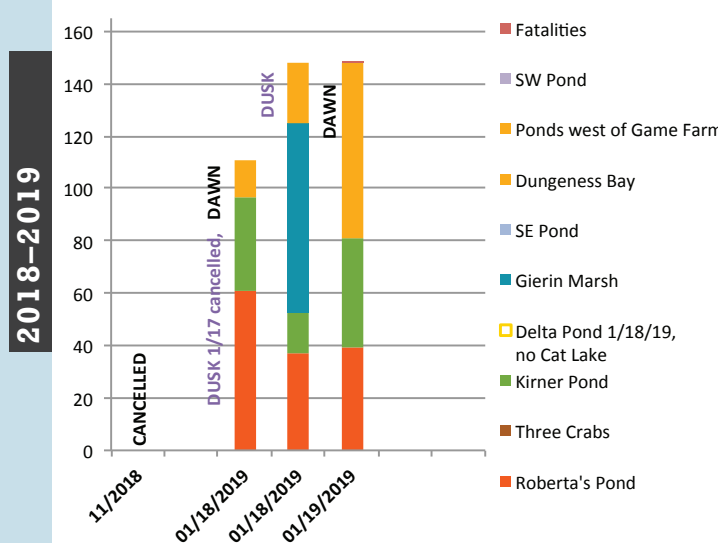
POND

- Pond (SE)
- Pond (SW)
- Kirner Pond
- Cat Lake (not Nov '20)

BAYS

- (0) Three Crabs
- (0) Dungeness Bay

Roosting Locations Used by Swans, Observed by OPAS Volunteers at Dawn

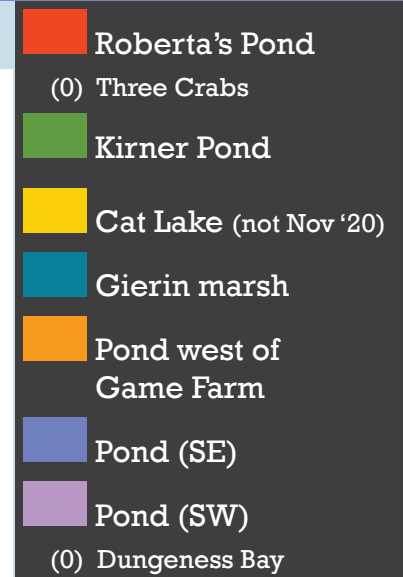
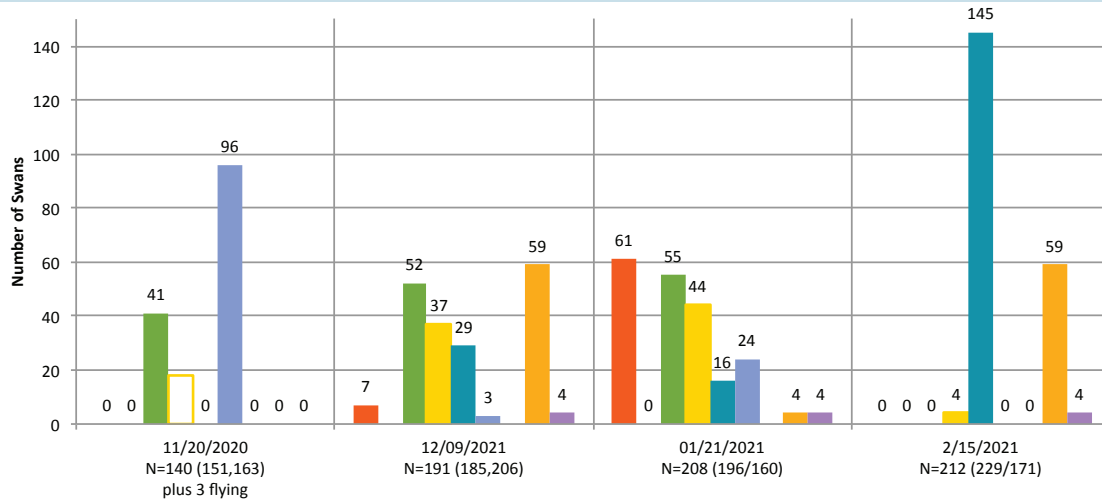


Roosting Survey

2020–21 and 2021–22: four surveys each

Roosting Locations Used by Swans, Observed by OPAS Volunteers at Dawn, 2020–2021

2020–2021



Roosting Locations Used by Swans, Observed by OPAS Volunteers at Dawn, 2021–2022

2021–2022

