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# Summary of 2024 Canada Goose Management Program: Egg Addling and Population Surveys

*Okanagan Valley Goose Management Program*

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MAINTAINING THE BALANCE  
BETWEEN PEOPLE AND GEESE



Prepared by:

**EBB** Environmental  
Consulting Inc.

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## Executive Summary

This document provides a summary of activities conducted by EBB Environmental Consulting Inc. (EBB) for the 2024 Okanagan Valley Goose Management Program. This year, the program included egg-addling and post-addling population surveys (ground and aerial). Crews added 1150 eggs from 278 accessible nests. An additional 21 nests were located that were inaccessible due to safety concerns and four nest sites did not have authorization to access. Post-addling ground surveys indicated that approximately 11.4% of the population was comprised of young-of-the-year.

Nest sources such as Vaseux Lake Migratory Bird Sanctuary showed a decline in nesting, particularly compared to early years of the addling program. Challenges were presented by nesting sites which were unreachable and appeared to host an increasing number of nests, compared to past years. These included bluffy areas along Kalamalka Lake and Okanagan Mountain Regional Park. The shift in nesting locations may be from habitat loss associated with wildfire and drought.

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## 1.0 Introduction

### 1.1 Background

The Okanagan Valley supports an introduced population of Canada Geese.; the result of conservation programs in the 1960's and 70's in several locations in southern British Columbia (Campbell *et al* 1990). Introductions are well described in previous OVGMP summaries, Birds of BC (Campbell *et al* 1990) and other goose research documents.

Today, many jurisdictions manage descendants of introduced geese, which have formed non-migratory, resident populations. Non-migratory geese (also referred to as urban, resident, temperate-nesting) are largely perceived as problem wildlife due to their abundance, territorial behaviour, crop damage, risk to human health and safety, fouling of grassy areas with droppings, fecal coliform contamination of public swimming areas, damage to lawns and green spaces, as well as other economic losses (Smith *et al.* 2005). Non-migratory Canada geese can be found on land governed by various jurisdictions including federal, provincial, municipal, First Nation, and private properties such as golf courses, schools, and agricultural lands.

Canada geese, like all waterfowl in Canada, are protected under the federal *Migratory Birds Convention Act* and pursuant *Migratory Bird Regulations*. Management of geese must abide by the federal *Act* as well as any provincial and municipal regulations that apply in their respective regions. Public opinions strongly vary which adds to challenges of goose management.

### 1.2 Regional Background

The Okanagan Valley is coping with an ongoing goose management issue. Canada geese are fouling green spaces and contaminating lake waters, posing risks to human health and economic losses from tourism and recreation. In the late 1990's, communities and stakeholders of the Okanagan Valley formed an Okanagan Regional Goose Management Committee (ORGMC) to implement a unified and landscape-level approach to goose management throughout the region. Partners include:

- North Okanagan Regional District
- District of Coldstream
- Greater Vernon Water
- City of Vernon
- District of Lake Country
- Central Okanagan Regional District
- City of Kelowna
- City of West Kelowna
- Westbank First Nation

- District of Peachland
- District of Summerland
- City of Penticton
- Naramata
- Regional District of Okanagan-Similkameen
- Okanagan Falls
- Town of Oliver
- Town of Osoyoos

### **1.3 Management**

The Okanagan Regional Goose Management Strategy and Action Plan (Robertson Environmental and Ophiuchus Consulting 2006) drafted for ORGMC described control options for resident Canada geese. The plan was drafted in consultation with Canadian Wildlife Service (CWS) of Environment Canada. The plan was the first landscape-level, multi-jurisdictional, cooperatively implemented plan for goose management in Canada. The plan was adopted by ORGMC and is being implemented by EBB Environmental Consulting Inc. (EBB) and other contractors (e.g., Wise Wildlife Control, LaHawk Enterprises).

In addition to cooperative components of goose management (e.g., communications, nest surveys and egg addling, population monitoring), individual jurisdictions continue to mitigate impacts within their boundaries. This often includes scaring and habitat modification to reduce conflicts at key sites.

### **1.4 Coordination and Implementation of the Valley-Wide Egg Addling Program**

Egg addling is a relatively simple, cost-effective and humane tool for controlling reproductive output of Canada geese. A successful addling program depends on a sound ecological approach; factors influencing goose reproduction must be understood (see previous summaries, also Elphick et al 2001, Mowbray et al 2002). Crews must be trained to access nesting areas and addle eggs so that geese will not re-nest. Crews must be thorough, ensuring all nests in a targeted area are included and that non-target species are not harmed. Many nesting areas are within public viewing and crew members may be required to sensitively address questions and refer public to the program coordinator and other resources for additional information.

Early years of the program included development of an egg addling protocol manual, including mapping nest locations with GPS technology, and maintaining records of nest sites and addling activities. This protocol is regularly updated and available as an additional reference document.

## 2.0 Methodology

### 2.1 Administration

#### 2.1.1 Permits

EBB obtained permits from Environment and Climate Change Canada (ECCC) for goose egg addling and addling in the Vaseux Lake Migratory Bird Sanctuary. In 2020, EBB obtained a 10-year authorization for accessing and addling within BC Provincial Parks which included consultation with local First Nations. As part of the consultation process, Westbank First Nation supplied a letter of authorization for access to traditional lands.

ECCC requires individual landowner authorization forms for activities that occur on private lands, in addition to the federal Damage or Danger permit. Under this permitting structure, the federal egg addling permit is sufficient for activities conducted on public lands owned or managed by members of the ORGMC (e.g., municipal parks). Other lands (e.g., private residences, institutions, docks/groins above the high-water mark) required the signature of a landowner or designated manager attesting EBB was authorized to work on those lands. Landowner authorizations are valid for up to three years, depending on landowner preference. Copies of all authorizations must be submitted to CWS as part of mandatory reporting. Landowners who choose the multi-year option must be listed on the permit application of the following year.

**Table 1. Permit Summary**

Permit	Issuer
Canada Goose Egg Addling Permit for OVGMP	Environment Canada (Canadian Wildlife Service)
Landowner attestations as required to augment the OVGMP addling permit	Environment Canada (Canadian Wildlife Service)
Canada Goose Egg Addling Permit, Vaseux Lake Migratory Bird Sanctuary	Environment Canada (Canadian Wildlife Service)
Research and Education Park Use Permit (10 year)	BC Parks/Ministry of Environment and Climate Change Strategy

#### 2.1.2 Communications

A toll number (1-877-943-3209) and e-mail address ([coordinator@okanagangooseplan.com](mailto:coordinator@okanagangooseplan.com)) were set up in 2007 for the public to call with nest locations and other questions. These contacts are active all year. A public service announcement (PSA) was drafted at the onset of the addling season to inform and encourage the public to report nests or observations of leg-banded birds.

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## 2.2 Field Program

### 2.2.1 Pairs Surveys

Prior to the addling season, pairs of geese were surveyed to estimate timing of nesting. This also allowed crews to become familiar with the landscape when the fast-paced nesting and laying season occurred. Pairs and lone Canada geese were identified. Any early nests were noted. Flocks of geese were also noted, but these groups were typically not nesting (e.g., had not reached maturity or lost their mates). The pairs survey also acted as an opportunity to engage with landowners regarding authorizations. Information requirements or authorizations sorted out prior to peak nesting saved time during the field-intensive addling season.

### 2.2.2 Egg Addling

Daily addling occurred between April 1 and May 10, 2024. Crews worked in pairs following the *United States Humane Society Canada Goose Egg-addling Protocol* (HSUS 2020) and *Best Practices for Destroying Eggs or Preventing Hatching: Canada Goose Management* (Environment Canada 2011).

During addling, one crew member moved the female or pair away from the nest while the other worked at the nest. The crew member working at the nest counted, addled, and marked each egg; the other fended off the guard, if required, and recorded data. Crews numbered the nests in the field to make rechecking easier and allow them to identify new nests quickly. Marking was such that all the eggs in Nest 1 were labelled “1”, all the eggs in Nest 2 were labelled “2” etc. In addition, the crew member at the nest took GPS coordinates and field notes.

Canada goose eggs are humanely addled until about 14 days of incubation (HSUS 2020). If there was concern that eggs were older than 14 days, crews performed a float test to estimate age (HSUS 2020). If eggs were less than 14 days’ incubation, the crew member working at the nest addled each egg, either by shaking or oiling.

### 2.2.3 Additional Surveys

#### 2.2.3.1 Gosling Surveys

Follow-up ground surveys for gosling estimates were conducted in early June to help identify areas where nests were missed and estimate the number of young in the population. The entire valley was surveyed, so the estimate contained data from properties that did not participate in the egg addling program.

### 2.2.3.2 Aerial Survey

An aerial survey was conducted on July 2 to estimate the size of the population during moult. The aircraft contained the pilot, a wildlife biologist in the front right position and a wildlife technician in the rear left position of a high-wing Cessna 180 float plane. The survey route consisted of flying the entire valley, departing from Kelowna, north to Vernon, south to Osoyoos, and then returning to Kelowna. The survey took approximately five hours. Observers were equipped with a digital camera, GPS unit, mapping tablet, and binoculars. The survey consisted of flying the shorelines of all the major waterbodies and observing for geese. Geese were counted manually and photographed. Adult and young geese were not differentiated. The estimate was compared to previous surveys to estimate size and act as an index for population growth.

## 2.3 Leg Band Data

EBB crews observed geese for leg-bands (Figure 1). Some leg-band data returns were also provided from the National Bird Banding Office (i.e., observations that were reported to that office were forwarded to EBB) and directly through the OVGMP website. Maps (available on the website) are updated to provide an overview of distribution of banded birds.



**Figure 1. Leg-banded goose A3X (Kelowna; the band is quite worn).**

### 3.0 Results

#### 3.1 Egg Addling

EBB crews found 303 nests. Of these, 1150 eggs were addled from 278 accessible nests. An additional 89 eggs were identified that had been predated and did not require addling; 21 nests were inaccessible due to safety concerns (e.g., unsafe location); and 4 nests were not addled due to lack of authorizations to access the nests (e.g., landowner did not want the nest addled or landowner was absent and could not provide authorization).

Table 2 provides a summary of egg addling data. An overview of nest distribution is provided in Figures 2 and 3. Regional data are detailed in Appendix A. The mean clutch size was 5 eggs, which was higher than in 2023 (4 eggs) and consistent with average clutch size for Canada geese.

**Table 2. Okanagan Valley Egg Addling Data Summary**

Nest Element	Value
Minimum Clutch Size	0
Maximum Clutch Size	10
Mean Clutch Size	4.8 (5)
Number of Accessible Nests	278
Number of Inaccessible or Unauthorized Nests	25
Total Number of Addled Eggs	1150
Number of Geese Prevented from Entering Population (approximately 75% of addled eggs)	863

Each year, nests are built on a variety of substrates including:

- Rooftops (cottage, home and industrial),
- Planters,
- Boat covers, boats and barges,
- Groins/breakwaters,
- Trees/stumps,
- Docks/wharves,
- Log booms,
- Osprey nesting platforms,
- Cliffs,
- Beaver lodges,
- Islands and peninsulas,
- Debris piles, and
- Incineration and garbage bins.

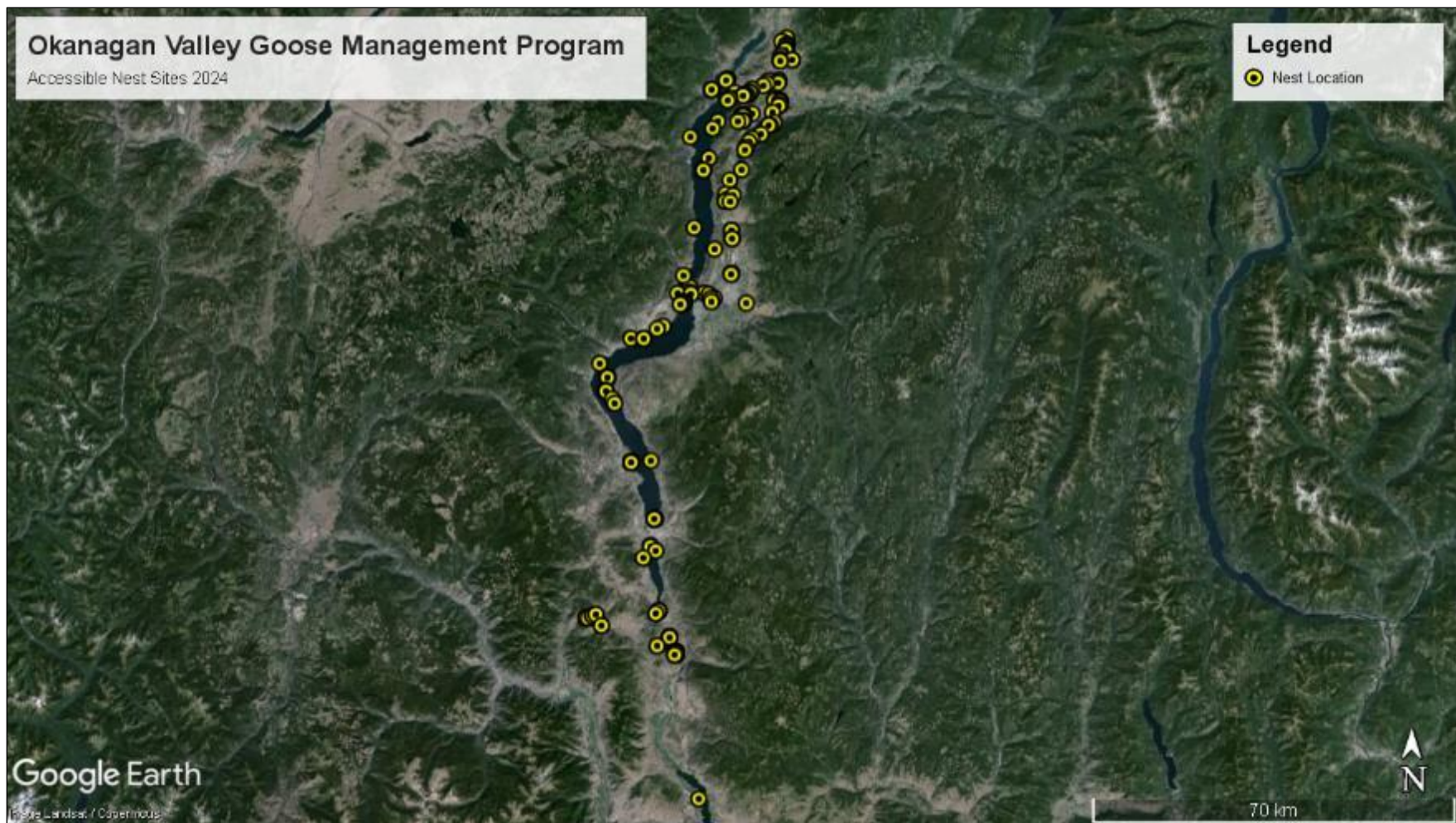


Figure 2. Accessible nest sites (added) during the 2024 field season (valley overview)

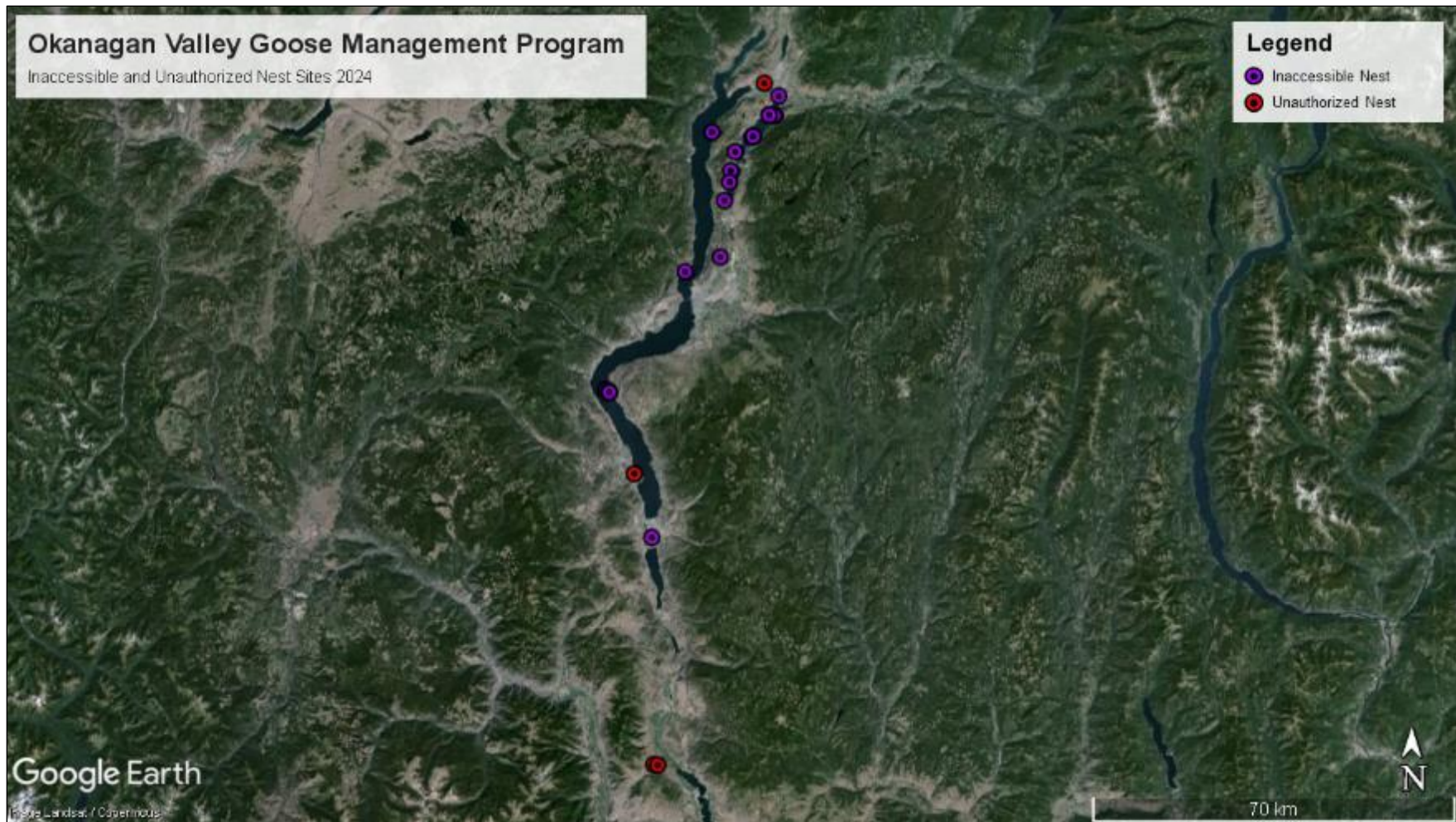
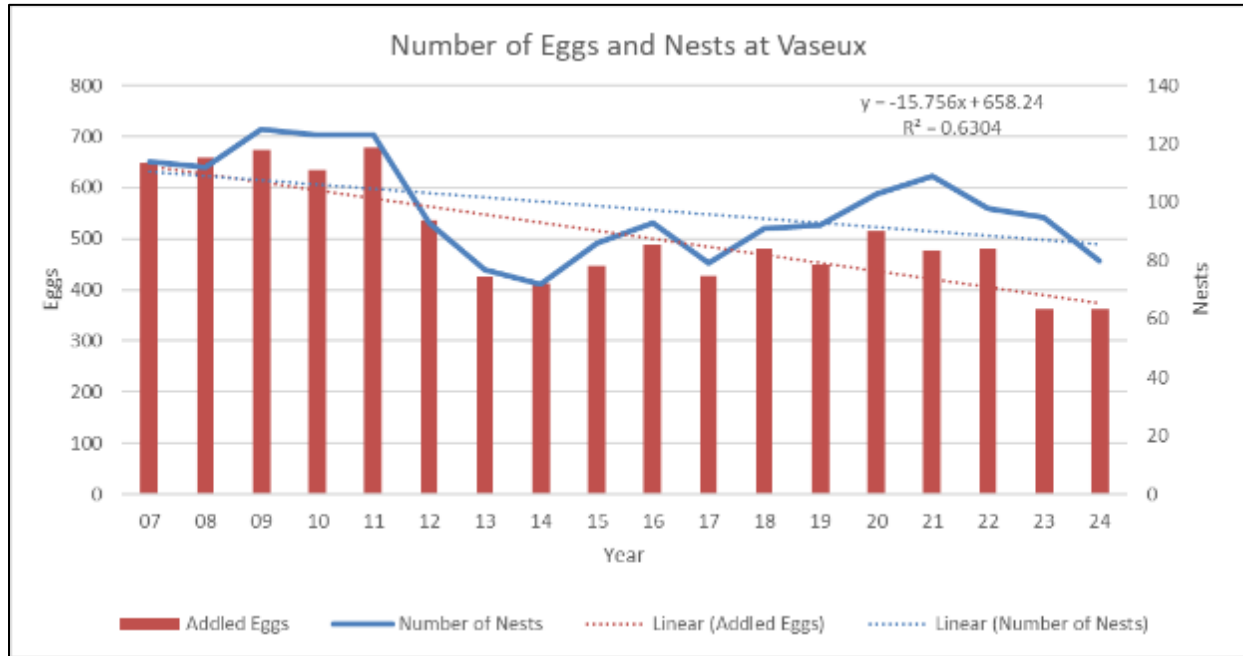


Figure 3. Inaccessible and unauthorized nests (not added) during 2024 field season

Vaseux Lake Migratory Bird Sanctuary remained the largest source of nests; however, the number is decreasing with a noted decline in nest numbers over the last four years (Figure 4). The overall number is down one-third compared to the peak (125 nests in 2009 compared to 80 in 2024).



**Figure 4. Declining nest numbers at Vaseux lake Migratory Bird Sanctuary**

### 3.2 Communications

A media release was provided to the City of Kelowna communications department for distribution to valley media outlets, and jurisdictional media staff at the onset of the addling program (April 3).

This year we received 28 emails and 25 calls from the public regarding egg-addling, and 3 requests for interviews from media. Throughout out the summer additional emails/calls from public and media included topics such as:

- Goose kill programs
- Geese at beaches and parks,
- Reports of feeding geese
- Injured geese or other wildlife observations, and
- Collecting eggs for personal use (e.g., art, consumption).

### 3.3 Ground Surveys

During ground surveys, population composition was 1226 adults and 159 goslings (11.4% young overall; Figure 5; Table 3). The highest number of geese was observed at Vaseux Lake. The highest amounts of young were observed at Kin Beach, Kaloya Regional Park and Kelowna waterfront parks.

### 3.4 Aerial Surveys

1968 geese were observed survey from 59 locations. The highest numbers were observed on the northwest arm of Okanagan Lake, Kin Beach, and Vaseux Lake. (Figure 6). Figure 7 provides a comparison to previous years. Although the slope is not statistically significant, the data suggest the population has may be increasing slightly.



**Figure 5. Kaloya Regional Park (June 11, 2024)**

**Table 3. Summary Data for 2024 Post-adding Population Ground Surveys**

Region	Site	Adults	Juveniles	Total	Estimated Clutches
Osoyoos	Osoyoos Lake	32	4	36	1
Oliver	Tuc-el-nuit Lake	0	0	0	
RDOS	Vaseux Lake	529	7	536	2
Okanagan Falls	Christie Memorial Park	17	3	20	1
Penticton	North Skaha Lake	0	0	0	
Penticton	SS Sicamous	0	0	0	
Penticton	Penticton Marina	0	0	0	
Naramata	Manitou Park	0	0	0	
Summerland	South Lakeshore Drive	9	0	9	
Summerland	North Lakeshore Drive	0	0	0	
Peachland	Beach Ave (south)	3	0	3	
Peachland	Beach Avenue (north)	49	0	49	
West Kelowna	Cove Marina	0	0	0	
West Kelowna	Gellatly Landing Park	9	5	14	
West Kelowna	Marina Park	0	0	0	
West Kelowna	West Kelowna Yacht Club	0	0	0	
West Kelowna	Powers Point	0	0	0	
West Kelowna	Rotary Park (Gellatly Bay)	0	0	0	
West Kelowna	Shelter Bay Marina	0	0	0	
Kelowna	Waterfront Parks	14	43	57	7
West Kelowna	Traders Cove Park	0	0	0	
Kelowna	Ellison Lake	64	0	64	
Lake Country	Beasley Park	91	31	122	6
Lake Country	Oyama Rail Trail	0	0	0	
Lake Country	Young Wetland	0	0	0	
Lake Country	Kaloya Regional Park	75	43	118	8
Coldstream	Kal Lake	0	0	0	
Vernon	Paddlewheel Park	67	0	67	1
Vernon	Kin Beach	240	22	262	4
Vernon	Swan lake	27	1	28	
<b>Total</b>		<b>1226</b>	<b>159</b>	<b>1385</b>	<b>11.4</b>

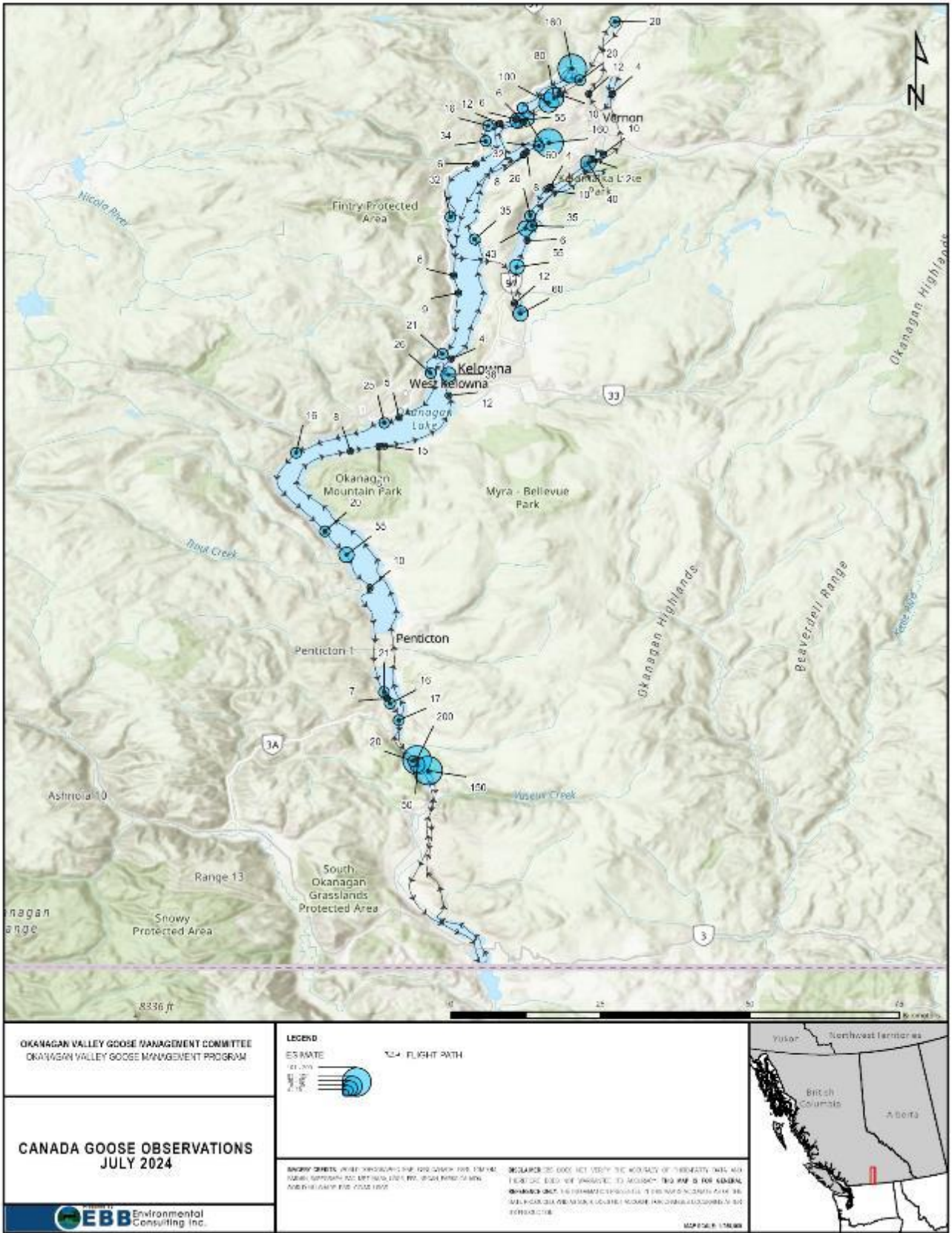
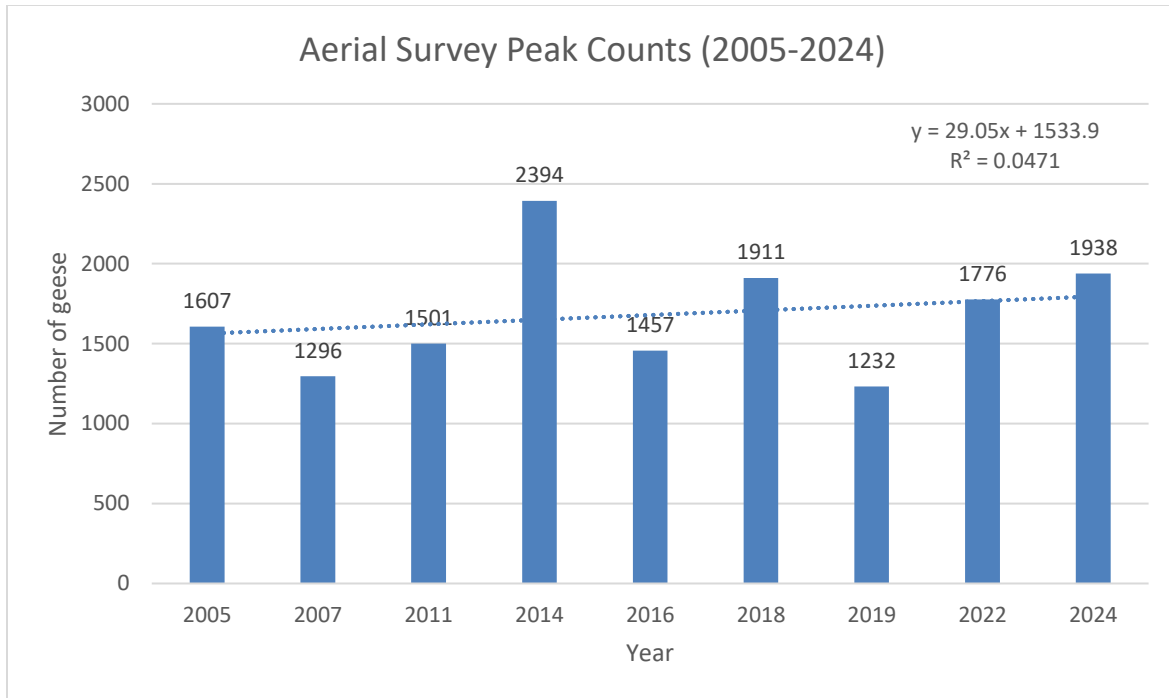


Figure 6. Aerial Survey Results



**Figure 7. Aerial Counts (2005-2024)**

## 4.0 Summary and Discussion

This year 1150 eggs were added in the Okanagan Valley. Taking natural mortality into account, adding prevented over 850 new geese from entering the population. Cumulatively, over the span of the adding program, 18,000 geese have been directly prevented from entering the population. Recognizing each female goose can hatch up to 240 goslings in her lifetime, many additional generations of geese have also been prevented from hatch. The estimate of goslings in the population was 11.4%—this is a slight increase from 2023, but typical across all years of the program (average 2007-2024 = 11.4%)

As in previous years, EBB found that the highest density and number of nests were in the Vaseux Lake Migratory Bird Sanctuary (80 nests; 361 eggs), but the number appears to be declining indicating that where nests can be regularly accessed, adding is an effective tool for controlling population growth.

We observed some differences in nesting this year—an increased number of nests could not be reached along bluff/cliff shorelines (e.g. Kalamalka Lake; Okanagan Mountain Provincial park) and some “regular” spots were vacant. Cliff nests were likely undercounted—the crew did not invest time in areas that could not be accessed. We suspect that nesting locations shifted and

regular spots were not used because of loss of habitat (e.g. loss of cabins, docks, planters and natural features) caused by wildfires in 2023 and drought/loss of smaller wetlands.

Population surveys indicated that areas that have struggled with moulting geese in the past, continue to do so. These hot spots are characterized by beaches with lawns and water that are used by people and geese. Similar to nesting, we suspect factors such as wildfire, drought, and increased shoreline development reduced available habitat, impacting the distribution of geese and concentrating geese into fewer preferred spaces (e.g. beaches) and increasing their interactions with people.

The number of geese in the valley may also be increasing—whether from natural increase of the valley population and/or immigration from areas outside the valley that have experienced habitat saturation or degradation. The human population is also increasing in the Okanagan such that goose/people encounters are likely increasing.

The 2023 summary report noted that changes (2022) to the Migratory Bird Regulations allow for harvest of geese and a broader scope for use of Damage or Danger permits. Members of ORGMC may want to discuss feasibility of a regional approach to these types of options, and discuss if different, management approaches would benefit communities along the valley.

The leg-band observation database continues to grow, but the number of banded geese has decreased with natural attrition and hunting. Data are still helpful and the distribution of data points continues to indicate that population control of these geese does not impact natural migratory populations and will likely have long-term benefits towards mitigation and prevention of damage caused by geese in the Okanagan Valley.

## **5.0 Recommendations**

Recommendations continue to focus on ensuring addling crews have access/authorization to nesting areas. Urban centres remain a challenge—some people do not want crews to access their properties and/or enjoy nesting geese. Public education remains an important tool for goose management.

The following recommendations have been provided to ensure continued program success. Recommendations include items that are on-going or newly identified. Action items from previous years that were addressed have been removed. Recommendations are as follows:

- ❖ Comprehensive fall meeting

Action: Meet with all participating jurisdictions to share management experience this year. It is important to exchange information on success and failures of goose management—including techniques, public opinion of specific regions, challenges

Action: Coordinator to review relevant updated regulations at the 2024 fall meeting—potentially lead discussion to see if communities are interested in using any of the new tools

❖ Continue working closely with Vernon

Action: Continued adding pressure, public communications, support for jurisdictional management programs

❖ Achieve buy-in from new partners, stakeholders and the general public

Action: Continue to promote program activities through networks and other conferences/venues

Action: Have committee members discuss the issue with their counterparts in other jurisdictions, engage councils where appropriate; discuss the issue with potential partners such as golf course superintendents, hunting/fishing clubs, naturalist groups.

❖ Continue with public education/communications/best management practices

Action: Assist inquiring landowners on habitat management options to reduce attractiveness of their properties to geese.

Action: Continue to provide an information package to landowners with a copy of the information pamphlet, landowner attestation form (required by ECCC)

Action: Advise against nest destruction--destruction of nests within a breeding season can result in re-nesting at new (unknown) locations, and adding crews missing the new nest.

## 6.0 References

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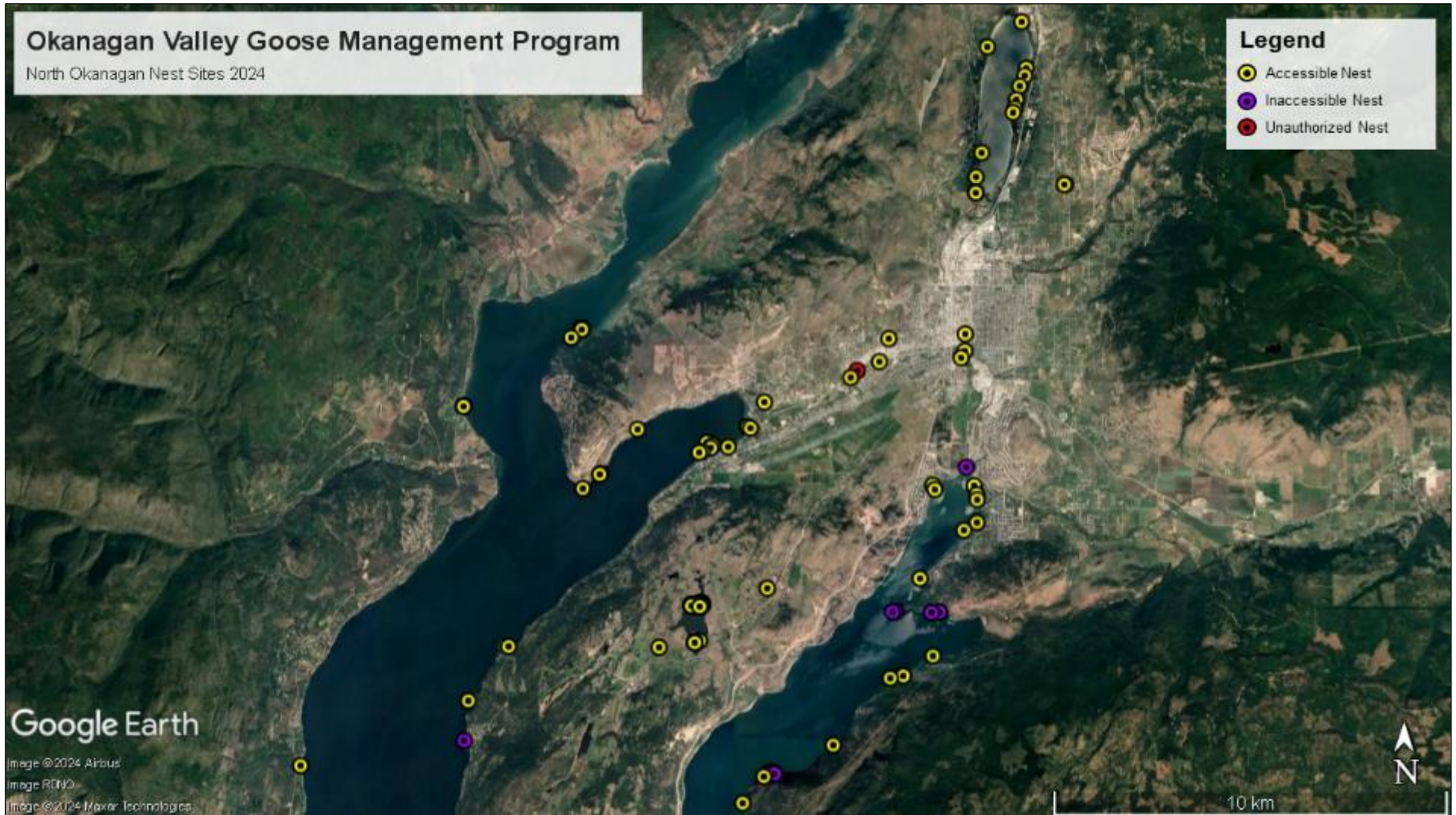
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**APPENDIX A**

*Egg Addling Data: Regional Summaries*

## North Okanagan



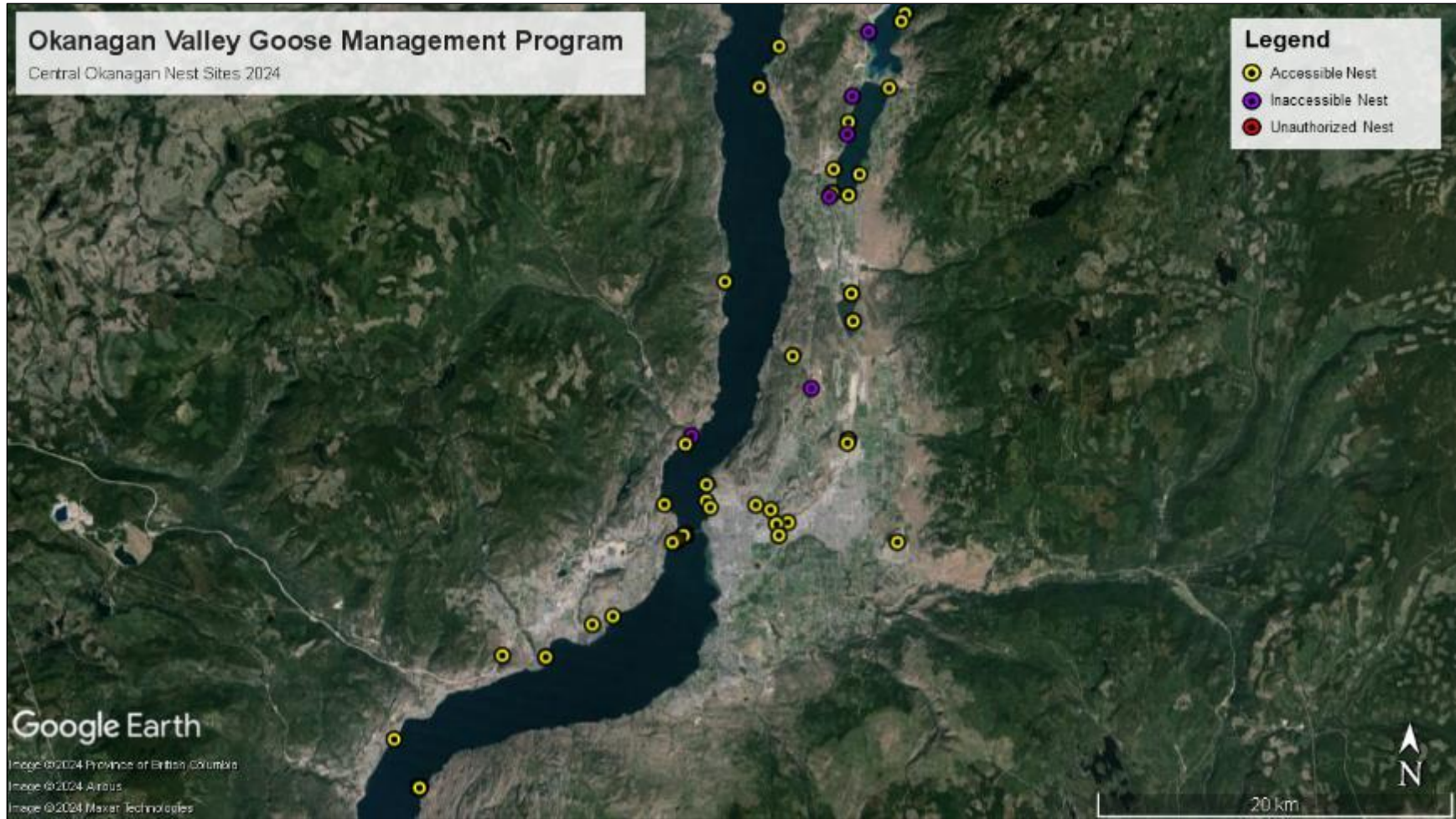
<b>Zone</b>	<b>Northing</b>	<b>Easting</b>	<b>Region</b>	<b>Site</b>	<b>Access</b>	<b>Addled</b>
11	5570318.95	336353.29	North Okanagan	4218 28 Ave	Accessible	6
11	5569515.66	335520.39	North Okanagan	5300 25 St	Unauthorized	0
11	5569341.13	335349.96	North Okanagan	Big Chief Trailer Park	Accessible	5
11	5574207.33	341021.92	North Okanagan	Cools Pond Park	Accessible	0
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11	5568756.73	333115.69	North Okanagan	Holiday Park - Vernon	Accessible	7
11	5566990.70	338257.29	North Okanagan	Husband Rd Osprey Platform	Inaccessible	0
11	5566548.83	337388.00	North Okanagan	Kalamalka Lake	Accessible	4
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11	5559272.34	332901.17	North Okanagan	Kalamalka Lake	Accessible	6
11	5558618.79	332349.05	North Okanagan	Kalamalka Lake	Accessible	5
11	5557491.03	331718.84	North Okanagan	Kalamalka Lake	Accessible	4
11	5557496.98	331777.66	North Okanagan	Kalamalka Lake	Accessible	5
11	5557050.79	331513.00	North Okanagan	Kalamalka Lake	Accessible	2
11	5562220.30	337279.44	North Okanagan	Kalamalka Lake	Accessible	5
11	5563362.16	336359.29	North Okanagan	Kalamalka Lake	Inaccessible	0
11	5563355.79	336271.99	North Okanagan	Kalamalka Lake	Inaccessible	0
11	5563319.96	337268.64	North Okanagan	Kalamalka Lake	Inaccessible	0
11	5563323.68	337473.97	North Okanagan	Kalamalka Lake	Inaccessible	0
11	5559338.35	333176.06	North Okanagan	Kalamalka Lake	Inaccessible	0
11	5559375.26	333108.55	North Okanagan	Kalamalka Lake	Inaccessible	0
11	5559372.68	333042.93	North Okanagan	Kalamalka Lake	Inaccessible	0
11	5563611.82	331142.47	North Okanagan	MacKay Reservoir	Accessible	6
11	5563622.02	331131.05	North Okanagan	MacKay Reservoir	Accessible	0
11	5563682.27	331372.04	North Okanagan	MacKay Reservoir	Accessible	4
11	5563676.30	331375.45	North Okanagan	MacKay Reservoir	Accessible	0
11	5563654.49	331148.39	North Okanagan	MacKay Reservoir	Accessible	8
11	5563644.41	331149.92	North Okanagan	MacKay Reservoir	Accessible	6
11	5563624.99	331139.78	North Okanagan	MacKay Reservoir	Accessible	7
11	5563607.45	331141.70	North Okanagan	MacKay Reservoir	Accessible	4
11	5563623.02	331147.00	North Okanagan	MacKay Reservoir	Accessible	6
11	5563617.56	331135.66	North Okanagan	MacKay Reservoir	Accessible	6
11	5563586.06	331352.08	North Okanagan	MacKay Reservoir	Accessible	7
11	5563598.86	331360.83	North Okanagan	MacKay Reservoir	Accessible	7
11	5563609.63	331356.55	North Okanagan	MacKay Reservoir	Accessible	6
11	5563613.12	331360.22	North Okanagan	MacKay Reservoir	Accessible	4
11	5563607.46	331364.59	North Okanagan	MacKay Reservoir	Accessible	5

<b>Zone</b>	<b>Northing</b>	<b>Easting</b>	<b>Region</b>	<b>Site</b>	<b>Access</b>	<b>Addled</b>
11	5563673.00	331384.03	North Okanagan	MacKay Reservoir	Accessible	3
11	5563673.28	331373.34	North Okanagan	MacKay Reservoir	Accessible	4
11	5563678.85	331367.44	North Okanagan	MacKay Reservoir	Accessible	0
11	5563687.59	331380.79	North Okanagan	MacKay Reservoir	Accessible	4
11	5563690.26	331371.34	North Okanagan	MacKay Reservoir	Accessible	7
11	5563681.75	331363.21	North Okanagan	MacKay Reservoir	Accessible	5
11	5563666.91	331365.42	North Okanagan	MacKay Reservoir	Accessible	9
11	5563642.68	331417.03	North Okanagan	MacKay Reservoir	Accessible	7
11	5563634.18	331426.50	North Okanagan	MacKay Reservoir	Accessible	6
11	5563640.10	331422.02	North Okanagan	MacKay Reservoir	Accessible	5
11	5563648.95	331423.90	North Okanagan	MacKay Reservoir	Accessible	7
11	5563653.91	331420.06	North Okanagan	MacKay Reservoir	Accessible	6
11	5562705.99	331206.06	North Okanagan	MacKay Reservoir	Accessible	6
11	5562678.38	331209.72	North Okanagan	MacKay Reservoir	Accessible	6
11	5562678.38	331209.72	North Okanagan	MacKay Reservoir	Accessible	5
11	5562722.68	331328.62	North Okanagan	MacKay Reservoir	Accessible	6
11	5569966.27	338302.76	North Okanagan	OK Springs Brewery	Accessible	6
11	5568826.18	325391.40	North Okanagan	Okanagan Lake	Accessible	6
11	5568806.40	325384.96	North Okanagan	Okanagan Lake	Accessible	10
11	5568803.65	325384.70	North Okanagan	Okanagan Lake	Accessible	2
11	5567505.60	331413.76	North Okanagan	Okanagan Lake	Accessible	6
11	5567523.46	331490.93	North Okanagan	Okanagan Lake	Accessible	5
11	5567753.19	331619.11	North Okanagan	Okanagan Lake	Accessible	5
11	5568099.76	332745.21	North Okanagan	Okanagan Lake	Accessible	5
11	5567018.58	328888.45	North Okanagan	Okanagan Lake	Accessible	2
11	5570512.13	328178.82	North Okanagan	Okanagan Lake	Accessible	4
11	5570731.85	328420.05	North Okanagan	Okanagan Lake	Accessible	5
11	5570740.91	328467.30	North Okanagan	Okanagan Lake	Accessible	3
11	5570713.30	328458.85	North Okanagan	Okanagan Lake	Accessible	5
11	5567613.91	331712.25	North Okanagan	Okanagan Lake	Accessible	6
11	5567678.71	331765.74	North Okanagan	Okanagan Lake	Accessible	6
11	5567632.21	332161.80	North Okanagan	Okanagan Lake	Accessible	5
11	5568134.26	332667.61	North Okanagan	Okanagan Lake	Accessible	2
11	5568125.92	329844.56	North Okanagan	Okanagan Lake	Accessible	1
11	5566993.71	328853.64	North Okanagan	Okanagan Lake	Accessible	5
11	5561328.85	325410.88	North Okanagan	Okanagan Lake	Accessible	6
11	5562680.17	326458.26	North Okanagan	Okanagan Lake	Accessible	2
11	5560329.49	325291.54	North Okanagan	Okanagan Lake	Inaccessible	0
11	5556460.21	329665.67	North Okanagan	Osprey Platform	Inaccessible	0
11	5569792.20	338201.98	North Okanagan	Polson Park	Accessible	5
11	5562579.54	330296.42	North Okanagan	Predator Ridge	Accessible	6
11	5564015.18	333089.61	North Okanagan	Roseâ€™s Pond	Accessible	0
11	5576210.71	339762.18	North Okanagan	Swan Lake	Accessible	0
11	5576102.27	339720.95	North Okanagan	Swan Lake	Accessible	6
11	5576438.15	339815.07	North Okanagan	Swan Lake	Accessible	7

<b>Zone</b>	<b>Northing</b>	<b>Easting</b>	<b>Region</b>	<b>Site</b>	<b>Access</b>	<b>Added</b>
11	5576788.71	339913.71	North Okanagan	Swan Lake	Accessible	6
11	5577058.83	340050.91	North Okanagan	Swan Lake	Accessible	6
11	5577251.04	340093.32	North Okanagan	Swan Lake	Accessible	4
11	5578466.55	340009.76	North Okanagan	Swan Lake	Accessible	6
11	5577828.85	339100.28	North Okanagan	Swan Lake	Accessible	1
11	5575071.86	338876.90	North Okanagan	Swan Lake	Accessible	6
11	5574446.43	338713.78	North Okanagan	Swan Lake	Accessible	6
11	5574067.53	338688.24	North Okanagan	Swan Lake	Accessible	0
11	5574032.37	338697.30	North Okanagan	Swan Lake	Accessible	6
11	5570400.11	338324.30	North Okanagan	Vernon Library	Accessible	5

<b>Nest Summary</b>	<b>Value</b>
<b>Minimum Clutch Size</b>	0
<b>Maximum Clutch Size</b>	10
<b>Mean Clutch Size</b>	4.3
<b>Total Number of Nests</b>	101
<b>Total Number of Eggs</b>	421

## Central Okanagan

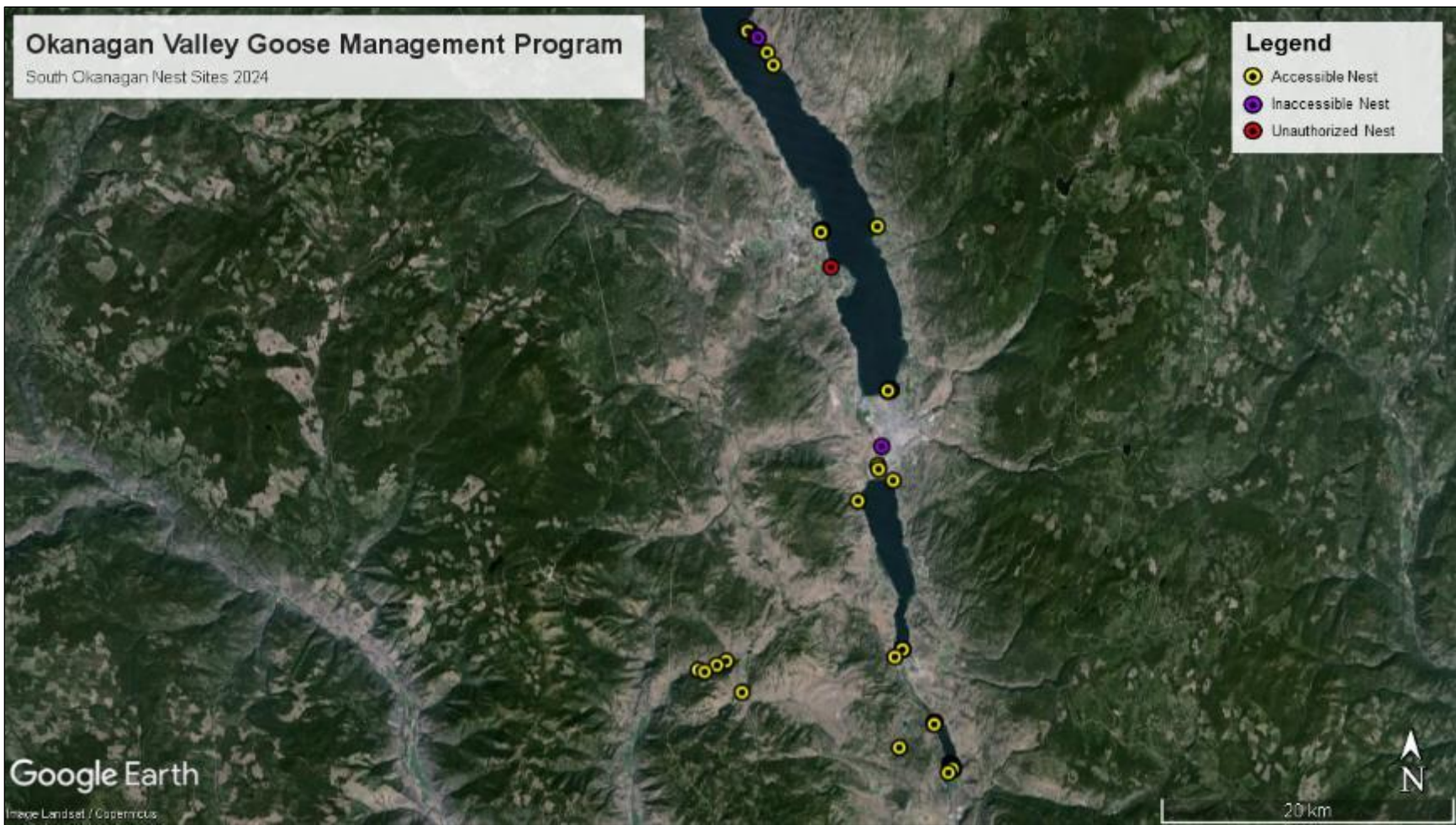


<b>Zone</b>	<b>Northing</b>	<b>Easting</b>	<b>Region</b>	<b>Site</b>	<b>Access</b>	<b>Addled</b>
11	5523606.99	315149.28	Central Okanagan	1310 Greenbay Road	Accessible	5
11	5547317.70	327557.85	Central Okanagan	2830 Woodsdale Road	Accessible	4
11	5547368.09	327567.33	Central Okanagan	2830 Woodsdale Road	Accessible	4
11	5559785.43	321122.41	Central Okanagan	8525 Ewings Landing	Accessible	10
11	5533688.10	319596.09	Central Okanagan	Osprey Platform	Inaccessible	0
11	5523155.60	313988.19	Central Okanagan	Boucherie Climbing Area	Accessible	4
11	5533438.54	328420.01	Central Okanagan	Carney Pond	Accessible	5
11	5533468.86	328421.05	Central Okanagan	Carney Pond	Accessible	0
11	5533268.50	328370.88	Central Okanagan	Carney Pond	Accessible	1
11	5541667.87	328626.10	Central Okanagan	Duck Lake	Accessible	0
11	5540110.61	328715.10	Central Okanagan	Duck Lake	Accessible	3
11	5541702.88	328631.25	Central Okanagan	Duck Lake	Accessible	0
11	5540128.68	328727.75	Central Okanagan	Duck Lake	Accessible	0
11	5528838.26	325001.65	Central Okanagan	Enterprise Way	Accessible	6
11	5536345.71	326350.24	Central Okanagan	Glenmore Landfill	Inaccessible	0
11	5521435.13	308926.54	Central Okanagan	Hardy Slough	Accessible	5
11	5529538.34	324034.76	Central Okanagan	Kelowna Golf & Country	Accessible	0
11	5538165.33	325296.08	Central Okanagan	McKinley Reservoir	Accessible	5
11	5514131.39	304190.45	Central Okanagan	Okanagan Lake	Accessible	3
11	5514089.28	304199.81	Central Okanagan	Okanagan Lake	Accessible	4
11	5514062.19	304271.33	Central Okanagan	Okanagan Lake	Accessible	5
11	5514060.36	304277.31	Central Okanagan	Okanagan Lake	Accessible	7
11	5527732.71	318495.16	Central Okanagan	Okanagan Lake	Accessible	6
11	5527867.52	318761.69	Central Okanagan	Okanagan Lake	Accessible	5
11	5527808.76	318621.84	Central Okanagan	Okanagan Lake	Accessible	7
11	5533235.60	319242.56	Central Okanagan	Okanagan Lake	Accessible	6
11	5555640.17	324581.59	Central Okanagan	Okanagan Lake	Accessible	2
11	5553386.65	323463.83	Central Okanagan	Okanagan Lake	Accessible	5
11	5553364.90	323476.41	Central Okanagan	Okanagan Lake	Accessible	7
11	5553335.09	323454.49	Central Okanagan	Okanagan Lake	Accessible	4
11	5514131.52	304338.61	Central Okanagan	Okanagan Lake	Accessible	4
11	5553342.90	323452.90	Central Okanagan	Okanagan Lake	Accessible	3
11	5553344.55	323465.01	Central Okanagan	Okanagan Lake	Accessible	3
11	5529676.79	320632.87	Central Okanagan	Okanagan Lake	Accessible	5
11	5530970.15	320417.91	Central Okanagan	Okanagan Lake	Accessible	0
11	5542353.59	321485.72	Central Okanagan	Okanagan Lake	Accessible	5
11	5529863.25	318049.88	Central Okanagan	Okanagan Lake	Accessible	2
11	5528105.96	324492.89	Central Okanagan	Orchard Mall	Accessible	6
11	5516769.79	302847.68	Central Okanagan	Pentowna Marina	Accessible	7
11	5529812.92	323201.18	Central Okanagan	Redlich Pond	Accessible	6
11	5530043.15	320407.00	Central Okanagan	Rotary Park Marsh	Accessible	5

<b>Zone</b>	<b>Northing</b>	<b>Easting</b>	<b>Region</b>	<b>Site</b>	<b>Access</b>	<b>Addled</b>
11	5552817.60	328724.31	Central Okanagan	Osprey Platform	Inaccessible	0
11	5497899.00	308417.70	Central Okanagan	Summerland Marina	Accessible	6
11	5497844.89	308511.45	Central Okanagan	Summerland Marina	Accessible	4
11	5497757.36	308429.27	Central Okanagan	Summerland Marina	Accessible	0
11	5497792.99	308509.09	Central Okanagan	Summerland Marina	Accessible	0
11	5497900.25	308521.15	Central Okanagan	Summerland Marina	Accessible	5
11	5495372.47	309052.70	Central Okanagan	Thorner Street	Unauthorized	0
11	5528749.71	324359.11	Central Okanagan	U-haul Enterprise Way	Accessible	8
11	5528121.66	319124.37	Central Okanagan	WB Bridge	Accessible	6
11	5528130.34	319144.72	Central Okanagan	WB Bridge	Accessible	8
11	5528137.81	319161.62	Central Okanagan	WB Bridge	Accessible	7
11	5528136.96	319170.88	Central Okanagan	WB Bridge	Accessible	6
11	5528142.46	319182.60	Central Okanagan	WB Bridge	Accessible	6
11	5528150.83	319200.39	Central Okanagan	WB Bridge	Accessible	5
11	5528150.63	319239.15	Central Okanagan	WB Bridge	Accessible	9
11	5528137.86	319233.74	Central Okanagan	WB Bridge	Accessible	0
11	5528134.88	319221.48	Central Okanagan	WB Bridge	Accessible	6
11	5528142.93	319215.61	Central Okanagan	WB Bridge	Accessible	5
11	5528142.93	319211.12	Central Okanagan	WB Bridge	Accessible	7
11	5528138.87	319189.66	Central Okanagan	WB Bridge	Accessible	5
11	5528139.62	319169.14	Central Okanagan	WB Bridge	Accessible	4
11	5528135.28	319210.22	Central Okanagan	WB Bridge	Accessible	6
11	5528126.31	319122.69	Central Okanagan	WB Bridge	Accessible	6
11	5528139.37	319235.20	Central Okanagan	WB Bridge	Accessible	1
11	5528125.07	319183.94	Central Okanagan	WB Bridge	Accessible	5
11	5528128.33	319130.07	Central Okanagan	WB Bridge	Accessible	0
11	5521363.88	311378.72	Central Okanagan	W. Kelowna Yacht Club	Accessible	0
11	5521334.60	311365.22	Central Okanagan	W. Kelowna Yacht Club	Accessible	5
11	5548391.20	329116.75	Central Okanagan	Wood Lake	Accessible	6
11	5551356.84	328495.75	Central Okanagan	Wood Lake	Accessible	7
11	5548675.85	327649.81	Central Okanagan	Wood Lake	Accessible	5
11	5550659.14	328435.49	Central Okanagan	Wood Lake	Inaccessible	0
11	5547133.46	327398.35	Central Okanagan	Wood Lake Campground	Inaccessible	0

<b>Nest Summary</b>	<b>Value</b>
<b>Minimum Clutch Size</b>	0
<b>Maximum Clutch Size</b>	10
<b>Mean Clutch Size</b>	4.0
<b>Total Number of Nests</b>	75
<b>Total Number of Eggs</b>	297

# South Okanagan



<b>Zone</b>	<b>Northing</b>	<b>Easting</b>	<b>Region</b>	<b>Site</b>	<b>Access</b>	<b>Addled</b>
11	5469420.38	313159.09	South Okanagan	Christie Island	Accessible	0
11	5469417.36	313170.99	South Okanagan	Christie Island	Accessible	5
11	5469409.20	313154.37	South Okanagan	Christie Island	Accessible	0
11	5440024.29	311640.48	South Okanagan	Conifryd Lake	Unauthorized	0
11	5439882.95	312393.98	South Okanagan	Conifryd Lake	Unauthorized	0
11	5461388.63	316237.17	South Okanagan	Hatfield	Accessible	7
11	5461418.20	316230.98	South Okanagan	Hatfield	Accessible	7
11	5461459.57	316229.65	South Okanagan	Hatfield	Accessible	6
11	5461479.17	316214.71	South Okanagan	Hatfield	Accessible	6
11	5461495.14	316230.66	South Okanagan	Hatfield	Accessible	6
11	5461474.32	316241.51	South Okanagan	Hatfield	Accessible	6
11	5461504.23	316229.39	South Okanagan	Hatfield	Accessible	1
11	5461520.85	316219.55	South Okanagan	Hatfield	Accessible	7
11	5461529.74	316214.88	South Okanagan	Hatfield	Accessible	6
11	5461526.50	316205.62	South Okanagan	Hatfield	Accessible	1
11	5461523.52	316197.80	South Okanagan	Hatfield	Accessible	7
11	5461498.67	316205.31	South Okanagan	Hatfield	Accessible	6
11	5461543.78	316191.93	South Okanagan	Hatfield	Accessible	6
11	5461536.51	316203.62	South Okanagan	Hatfield	Accessible	6
11	5461547.89	316185.59	South Okanagan	Hatfield	Accessible	7
11	5461549.05	316174.64	South Okanagan	Hatfield	Accessible	5
11	5461530.05	316168.54	South Okanagan	Hatfield	Accessible	10
11	5461520.97	316187.96	South Okanagan	Hatfield	Accessible	3
11	5461511.07	316169.88	South Okanagan	Hatfield	Accessible	6
11	5461499.85	316183.05	South Okanagan	Hatfield	Accessible	4
11	5461490.25	316180.08	South Okanagan	Hatfield	Accessible	5
11	5461487.50	316188.45	South Okanagan	Hatfield	Accessible	6
11	5461471.76	316190.57	South Okanagan	Hatfield	Accessible	5
11	5461458.58	316198.55	South Okanagan	Hatfield	Accessible	5
11	5461455.85	316202.40	South Okanagan	Hatfield	Accessible	6
11	5461452.23	316208.52	South Okanagan	Hatfield	Accessible	9
11	5461408.89	316210.40	South Okanagan	Hatfield	Accessible	6
11	5461408.11	316221.63	South Okanagan	Hatfield	Accessible	5
11	5461558.11	316171.59	South Okanagan	Hatfield	Accessible	3
11	5461534.67	316182.80	South Okanagan	Hatfield	Accessible	0
11	5461507.63	316193.97	South Okanagan	Hatfield	Accessible	0
11	5461512.26	316210.12	South Okanagan	Hatfield	Accessible	0
11	5461317.94	316247.42	South Okanagan	Hatfield	Accessible	0
11	5461314.56	316255.49	South Okanagan	Hatfield	Accessible	2
11	5461524.30	316211.45	South Okanagan	Hatfield	Accessible	4
11	5461349.29	316246.32	South Okanagan	Hatfield	Accessible	7
11	5461332.10	316243.65	South Okanagan	Hatfield	Accessible	3
11	5461326.00	316260.98	South Okanagan	Hatfield	Accessible	6
11	5461313.35	316262.68	South Okanagan	Hatfield	Accessible	5

11	5461319.91	316271.92	South Okanagan	Hatfield	Accessible	5
11	5461307.63	316273.03	South Okanagan	Hatfield	Accessible	2
11	5461297.67	316269.20	South Okanagan	Hatfield	Accessible	5
11	5461299.67	316259.67	South Okanagan	Hatfield	Accessible	7
11	5461273.94	316283.03	South Okanagan	Hatfield	Accessible	6
11	5461247.75	316285.99	South Okanagan	Hatfield	Accessible	7
11	5461244.05	316275.70	South Okanagan	Hatfield	Accessible	5
11	5461239.97	316284.22	South Okanagan	Hatfield	Accessible	4
11	5461226.31	316287.73	South Okanagan	Hatfield	Accessible	7
11	5461228.99	316294.07	South Okanagan	Hatfield	Accessible	4
11	5461225.11	316301.53	South Okanagan	Hatfield	Accessible	7
11	5461222.04	316310.71	South Okanagan	Hatfield	Accessible	7
11	5461226.48	316290.81	South Okanagan	Hatfield	Accessible	7
11	5461212.55	316304.17	South Okanagan	Hatfield	Accessible	7
11	5461206.84	316300.06	South Okanagan	Hatfield	Accessible	7
11	5461209.73	316311.81	South Okanagan	Hatfield	Accessible	3
11	5461215.70	316313.13	South Okanagan	Hatfield	Accessible	2
11	5461231.18	316312.03	South Okanagan	Hatfield	Accessible	1
11	5461234.30	316304.15	South Okanagan	Hatfield	Accessible	3
11	5461238.07	316309.16	South Okanagan	Hatfield	Accessible	6
11	5461247.88	316300.25	South Okanagan	Hatfield	Accessible	6
11	5461250.09	316305.52	South Okanagan	Hatfield	Accessible	5
11	5461256.53	316299.41	South Okanagan	Hatfield	Accessible	2
11	5461253.31	316295.93	South Okanagan	Hatfield	Accessible	6
11	5461270.41	316296.20	South Okanagan	Hatfield	Accessible	5
11	5461272.66	316287.57	South Okanagan	Hatfield	Accessible	5
11	5461284.74	316292.32	South Okanagan	Hatfield	Accessible	6
11	5461307.94	316280.87	South Okanagan	Hatfield	Accessible	6
11	5461310.78	316277.14	South Okanagan	Hatfield	Accessible	4
11	5461319.69	316277.41	South Okanagan	Hatfield	Accessible	5
11	5461345.08	316278.35	South Okanagan	Hatfield	Accessible	8
11	5461213.51	316301.16	South Okanagan	Hatfield	Accessible	1
11	5461204.25	316309.20	South Okanagan	Hatfield	Accessible	1
11	5461267.12	316296.16	South Okanagan	Hatfield	Accessible	3
11	5461304.83	316283.00	South Okanagan	Hatfield	Accessible	3
11	5461278.03	316279.46	South Okanagan	Hatfield	Accessible	3
11	5461256.72	316282.44	South Okanagan	Hatfield	Accessible	0
11	5479549.61	310417.46	South Okanagan	Hwy 97	Accessible	3
11	5468920.63	312609.57	South Okanagan	OK Falls Island	Accessible	7
11	5511461.80	303880.88	South Okanagan	Okanagan Lake	Accessible	4
11	5511482.60	303961.69	South Okanagan	Okanagan Lake	Accessible	3
11	5509968.35	305162.28	South Okanagan	Okanagan Lake	Accessible	6
11	5509107.80	305552.84	South Okanagan	Okanagan Lake	Accessible	5
11	5498028.09	312273.92	South Okanagan	Okanagan Lake	Accessible	6
11	5511674.58	303759.17	South Okanagan	Okanagan Lake	Accessible	0

11	5511461.02	303823.67	South Okanagan	Okanagan Lake	Inaccessible	0
11	5511484.21	304000.25	South Okanagan	Okanagan Lake	Inaccessible	0
11	5510996.54	304562.23	South Okanagan	Okanagan Lake	Inaccessible	0
11	5510993.61	304573.01	South Okanagan	Okanagan Lake	Inaccessible	0
11	5511078.30	304418.44	South Okanagan	Okanagan Lake	Inaccessible	0
11	5433483.84	320088.61	South Okanagan	Osoyoos Lake Island	Accessible	7
11	5487007.14	312899.84	South Okanagan	Penticton Marina	Accessible	0
11	5486959.56	312779.67	South Okanagan	Penticton Marina	Accessible	0
11	5486935.78	312688.46	South Okanagan	Penticton Marina	Accessible	0
11	5486933.06	312665.81	South Okanagan	Penticton Marina	Accessible	0
11	5486927.51	312658.59	South Okanagan	Penticton Marina	Accessible	0
11	5486938.57	312719.56	South Okanagan	Penticton Marina	Accessible	0
11	5486976.07	312861.27	South Okanagan	Penticton Marina	Accessible	0
11	5480853.54	312844.84	South Okanagan	Skaha Marina	Accessible	5
11	5462769.68	312747.46	South Okanagan	Sleeping Waters	Accessible	4
11	5468992.00	301158.80	South Okanagan	Toy Lake	Accessible	0
11	5466842.86	302164.72	South Okanagan	Twin Lakes	Accessible	6
11	5464418.04	315209.42	South Okanagan	Vaseaux Wetlands	Accessible	0
11	5464420.07	315153.84	South Okanagan	Vaseaux Wetlands	Accessible	0
11	5464370.39	315184.56	South Okanagan	Vaseaux Wetlands	Accessible	0
11	5464271.49	315159.01	South Okanagan	Vaseaux Wetlands	Accessible	0
11	5483188.36	312142.19	South Okanagan	Warren Ave W	Inaccessible	0
11	5468445.78	299242.33	South Okanagan	Yellow Lake	Accessible	0
11	5468728.49	300509.88	South Okanagan	Yellow Lake	Accessible	5
11	5468311.98	299662.79	South Okanagan	Yellow Lake	Accessible	5
11	5469420.38	313159.09	South Okanagan	Christie Island	Accessible	0
11	5469417.36	313170.99	South Okanagan	Christie Island	Accessible	5
11	5469409.20	313154.37	South Okanagan	Christie Island	Accessible	0
11	5440024.29	311640.48	South Okanagan	Conifryd Lake	Unauthorized	0
11	5439882.95	312393.98	South Okanagan	Conifryd Lake	Unauthorized	0
11	5461388.63	316237.17	South Okanagan	Hatfield	Accessible	7
11	5461418.20	316230.98	South Okanagan	Hatfield	Accessible	7
11	5461459.57	316229.65	South Okanagan	Hatfield	Accessible	6
11	5461479.17	316214.71	South Okanagan	Hatfield	Accessible	6

<b>Nest Summary</b>	<b>Value</b>
<b>Minimum Clutch Size</b>	0
<b>Maximum Clutch Size</b>	10
<b>Mean Clutch Size</b>	3.8
<b>Total Number of Nests</b>	117
<b>Total Number of Addled Eggs</b>	432