

What is a Piping Plover?

Length: 5.25"

Weight: 11g (.39 oz)

Wing span: 8"



Length: 7.25"

Weight: 55g (1.9 oz)

Wing span: 19"

Length: 10"

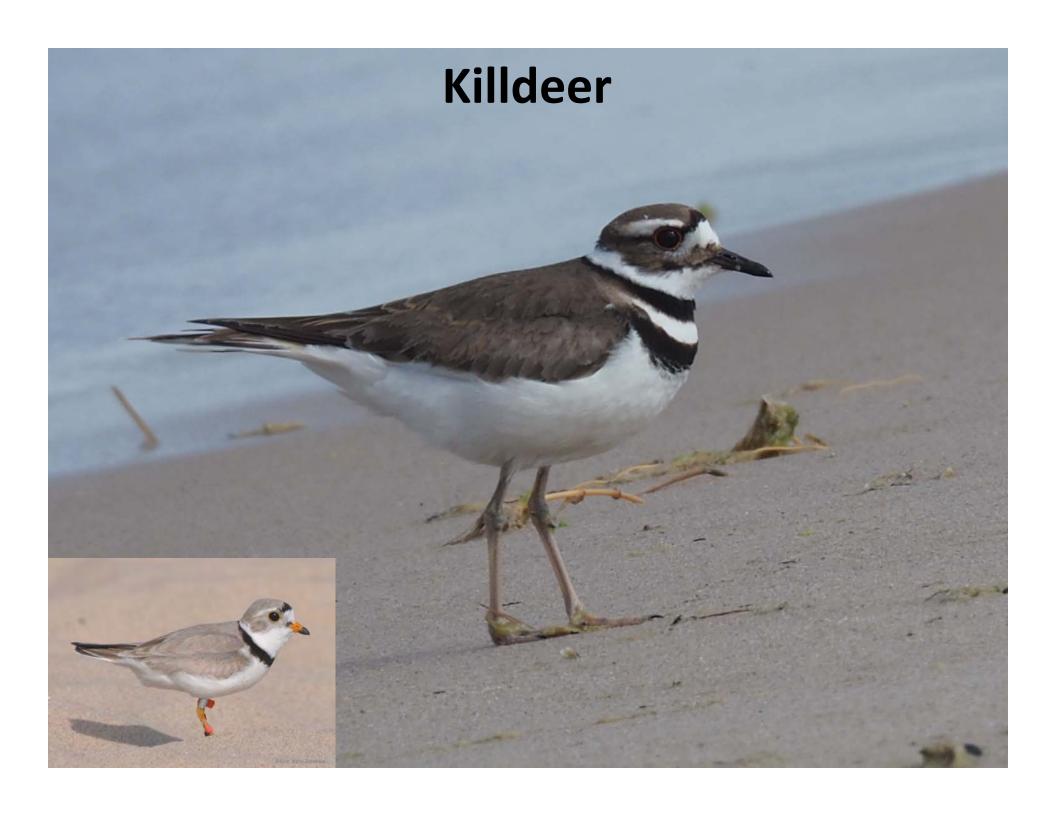
Weight: 77g 2.7 oz)

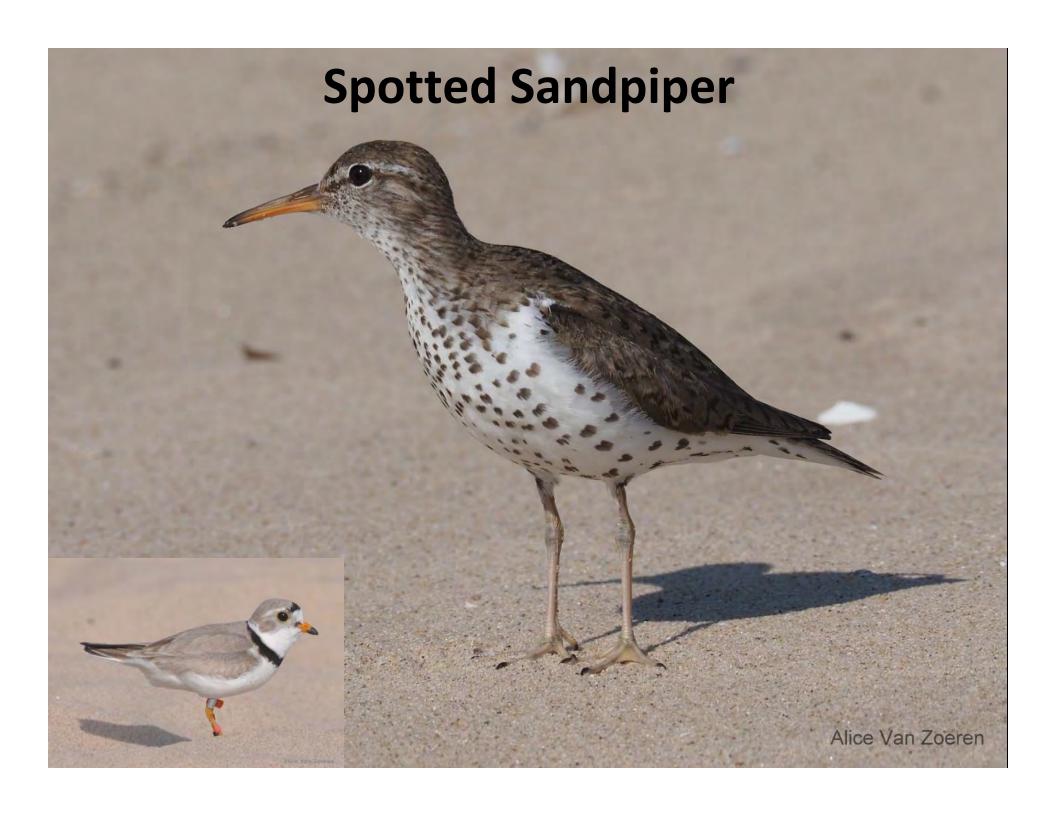
Wing span: 17"

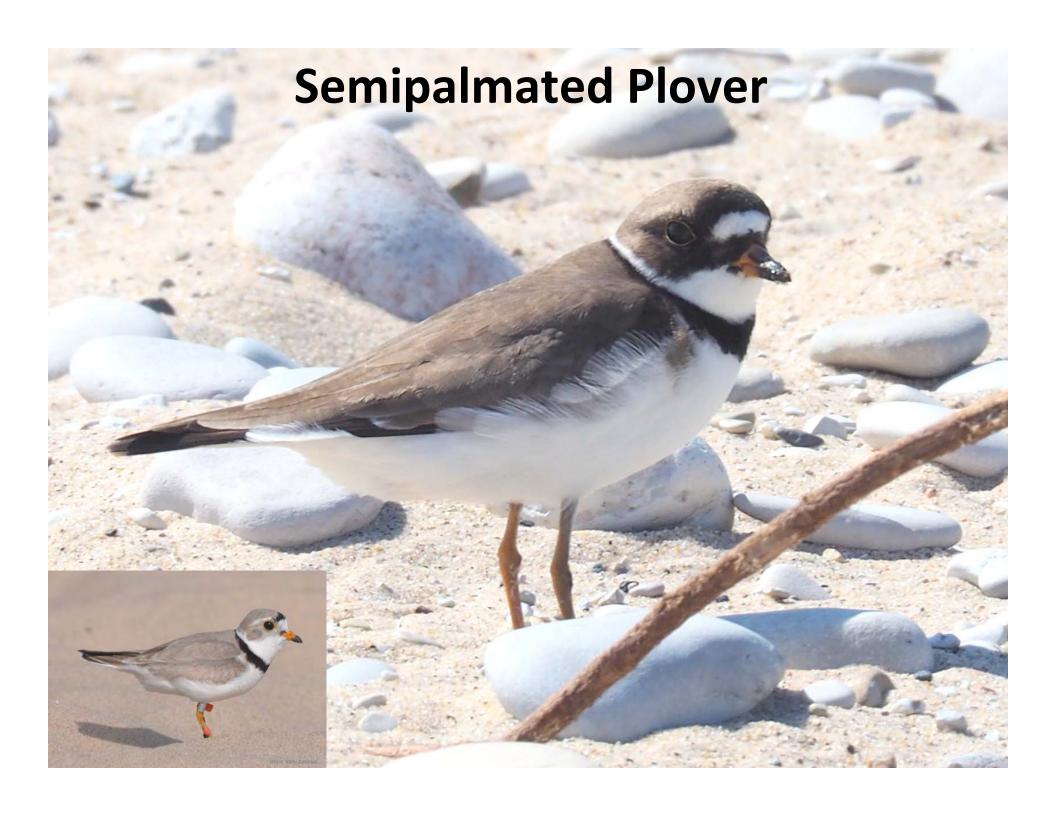


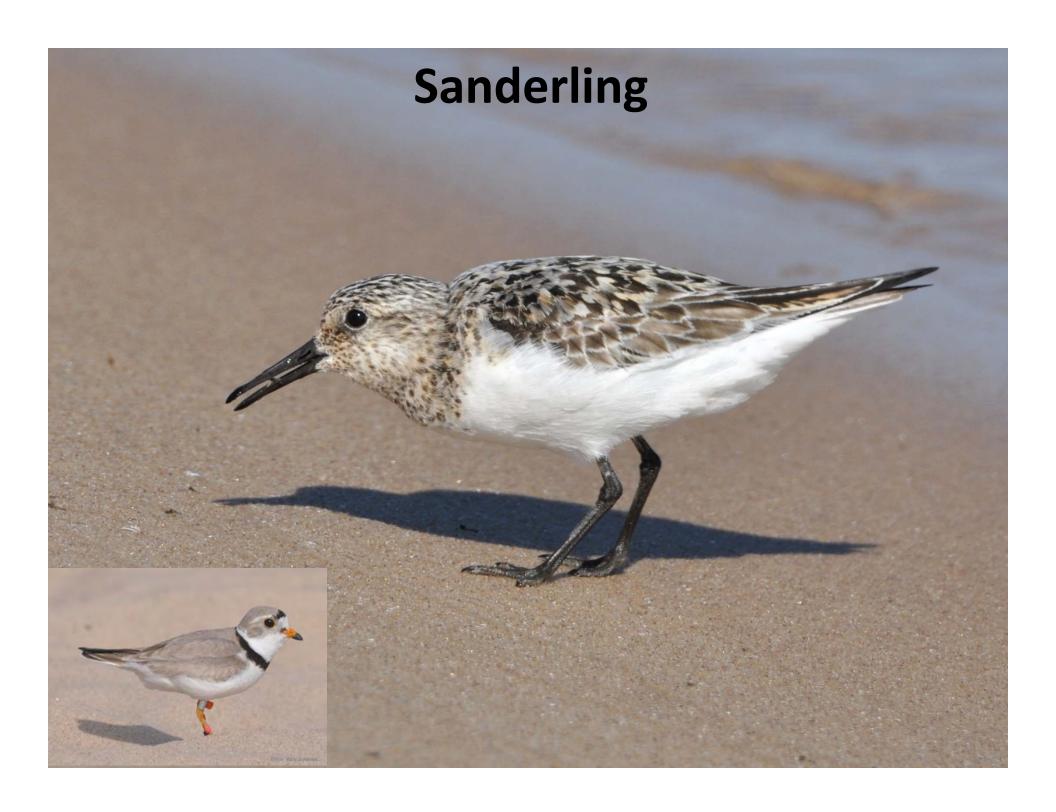


What other birds are found on the beach?









Where can one find Piping Plovers?



Piping Plovers in the Great Lakes



Piping Plovers in the Great Lakes



Piping Plovers in the Great Lakes



Why are Piping Plovers Endangered?

Reasons for Population Decline – Market Hunting and Collecting



Reasons for Population Decline – Shoreline Development







Reasons for Population Decline – Increase in Predator Populations

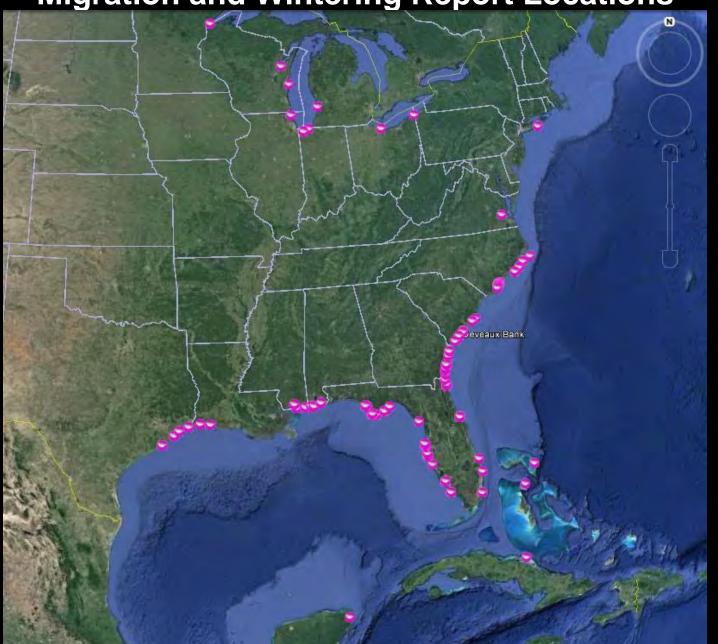




What do Piping Plovers do during the year?

Great Lakes Piping Plover Non-breeding Season 2015-2016

Migration and Wintering Report Locations



Flight Display









Territorial Disputes

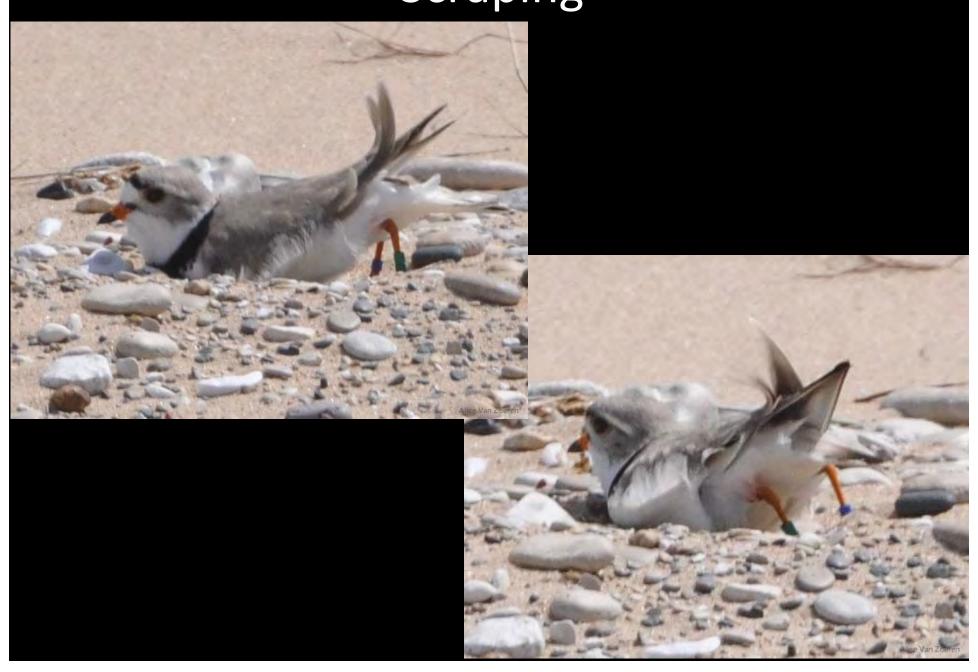












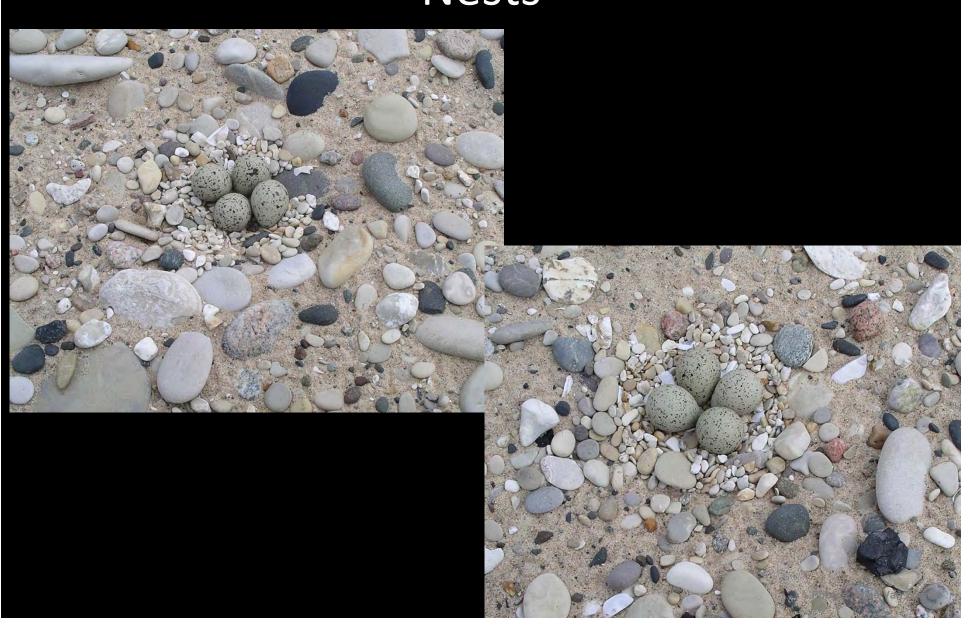


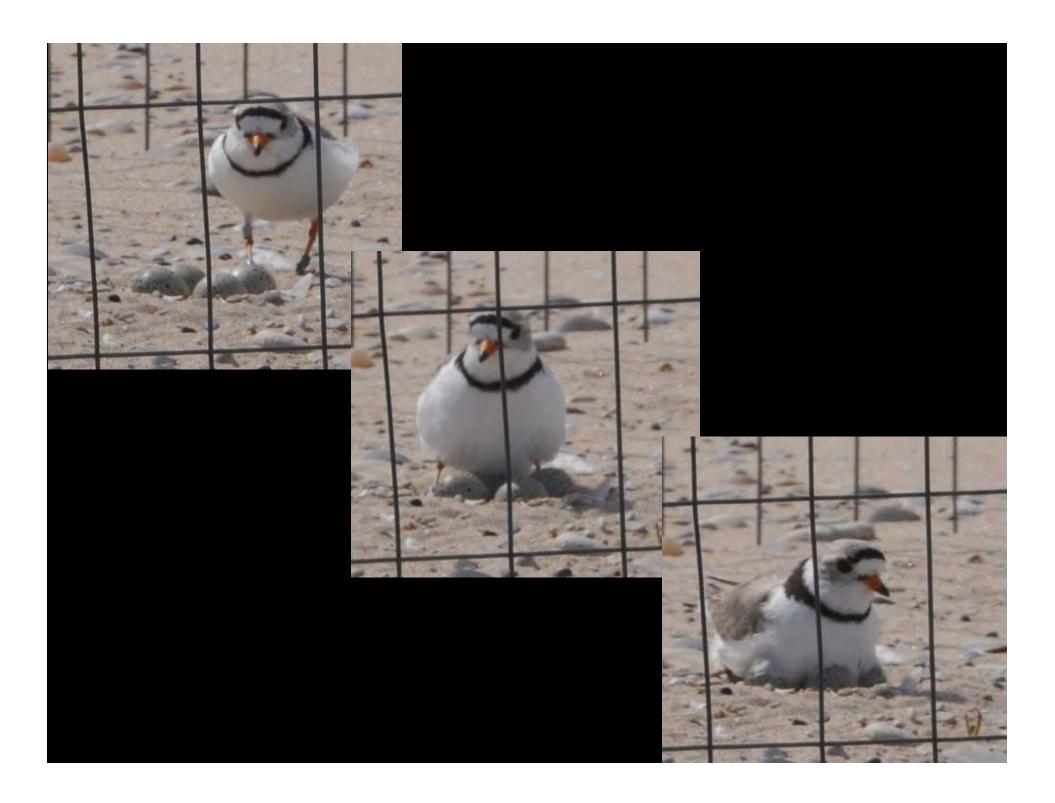


Tilt Display









Chick Development



Chick Development





11 Days 14 Days

Chick Development





24 Days 30 Days

Fledging



Piping Plover Recovery Plan



U.S. Fish and Wildlife Service – Administers the Endangered Species Act, coordinates partnership efforts <u>Land Management Agencies – Responsible for management of plovers on their lands</u>



National Park Service



US Forest Service



Michigan, Wisconsin and Illinois Departments of Natural Resources



New York State Department of Environmental Conservation



Canadian Wildlife Service



Ontario Ministry of Natural Resources and Forestry



Great Lakes Tribes



USDA Wildlife Services

Salvage Captive-rearing



American Zoo and Aquarium Association - Detroit Zoo

Research



University of Minnesota



Lake Superior State University



University of Michigan Biological Station

Additional Land Protection/Monitoring/Support





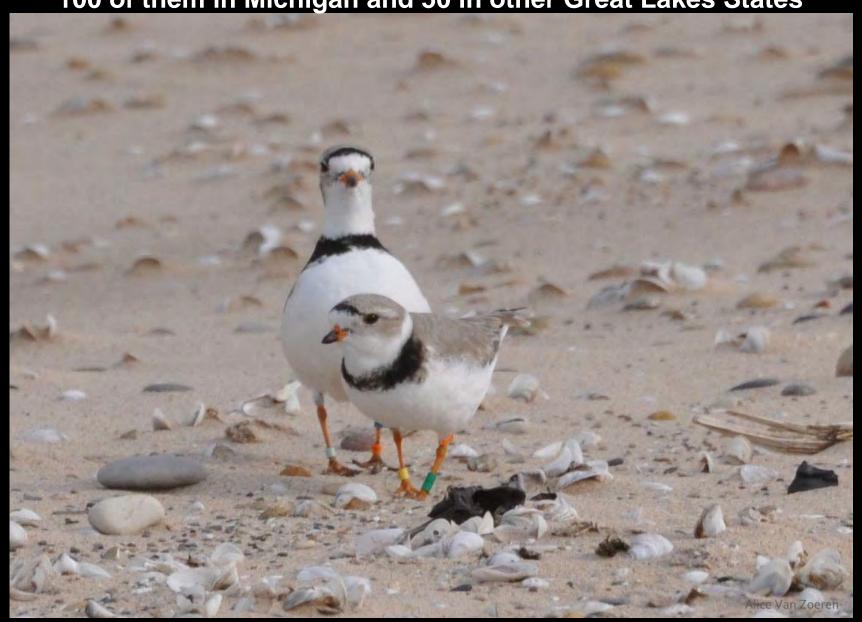
📤 🥕 \infty Non-governmental Organizations (UP Land Conservancy, TNC, Audubon Society, etc.)



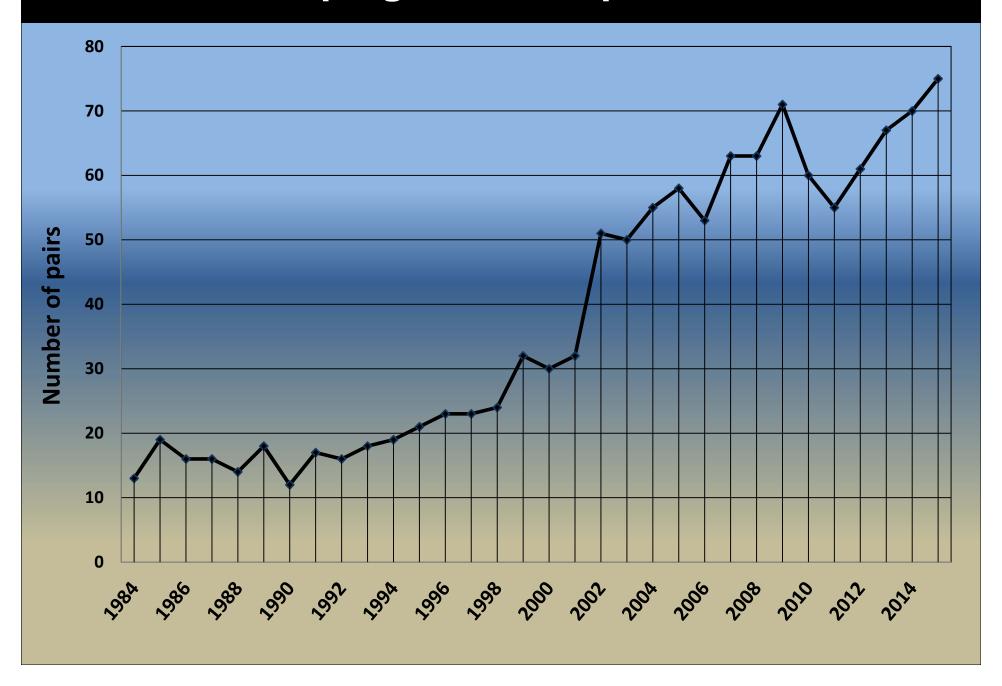
Volunteers, Interns and Landowners

At least 150 pairs for 5 consecutive years, with

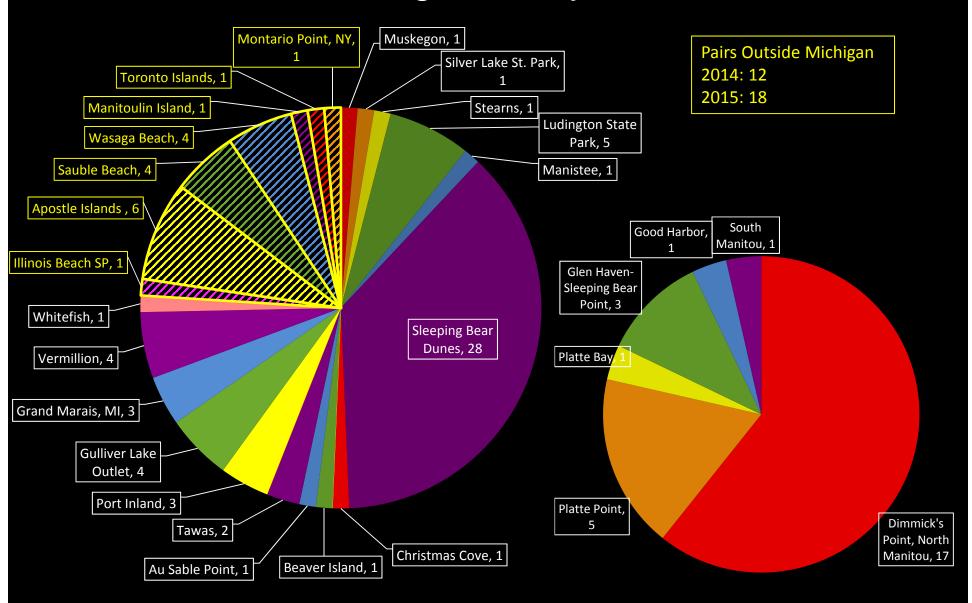
100 of them in Michigan and 50 in other Great Lakes States



Great Lakes Piping Plover Population 1984-2015



Number of Nesting Pairs by Location - 2015



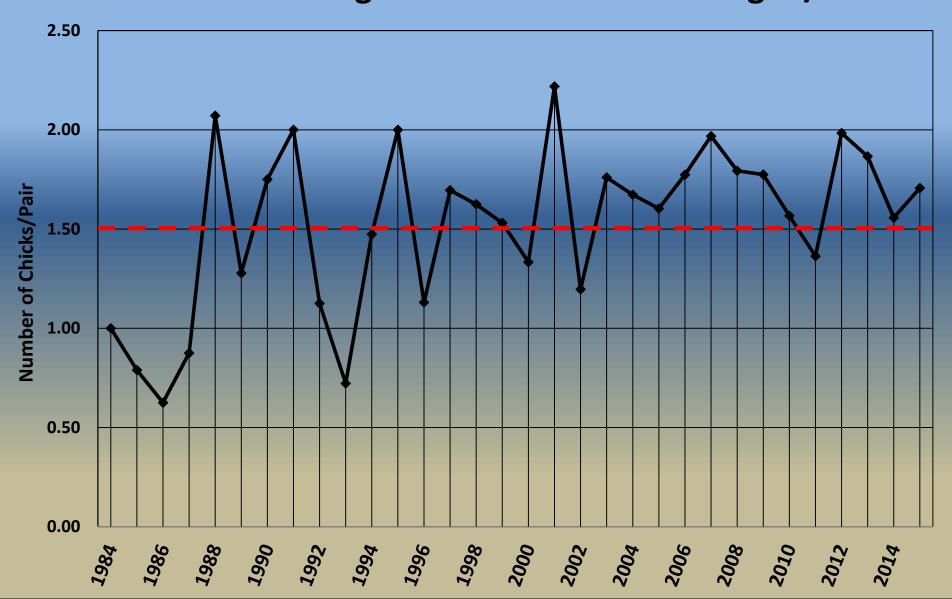
Entire Great Lakes Population

Sleeping Bear Dunes

A yearly average of 1.5-2.0 fledglings per pair, for 5 years and 10-year projections indicate that the population will be stable, or continue to grow.



Great Lakes: Average Number of Chicks Fledged/Pair



Protection and long-term maintenance of essential breeding and wintering habitat are ensured.



Genetic diversity within the population is adequate



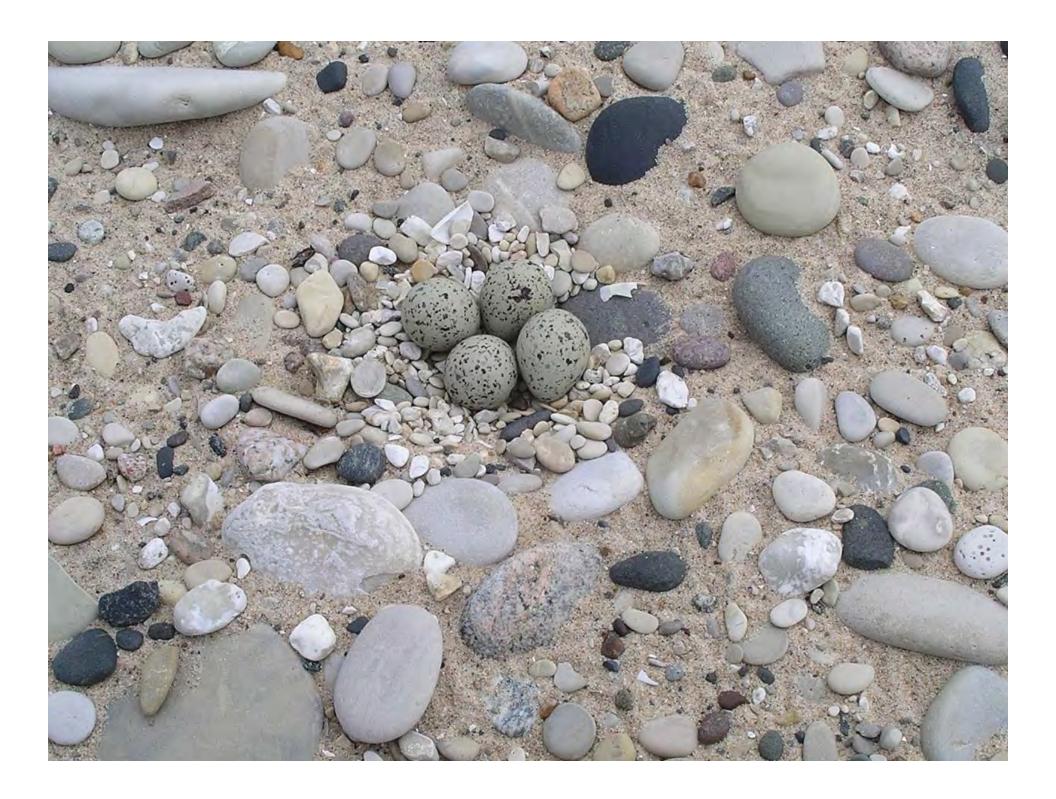
Agreements and funding mechanisms are in place for long-term protection and management activities



Helping Piping Plovers













Releasing Captive-reared Chicks



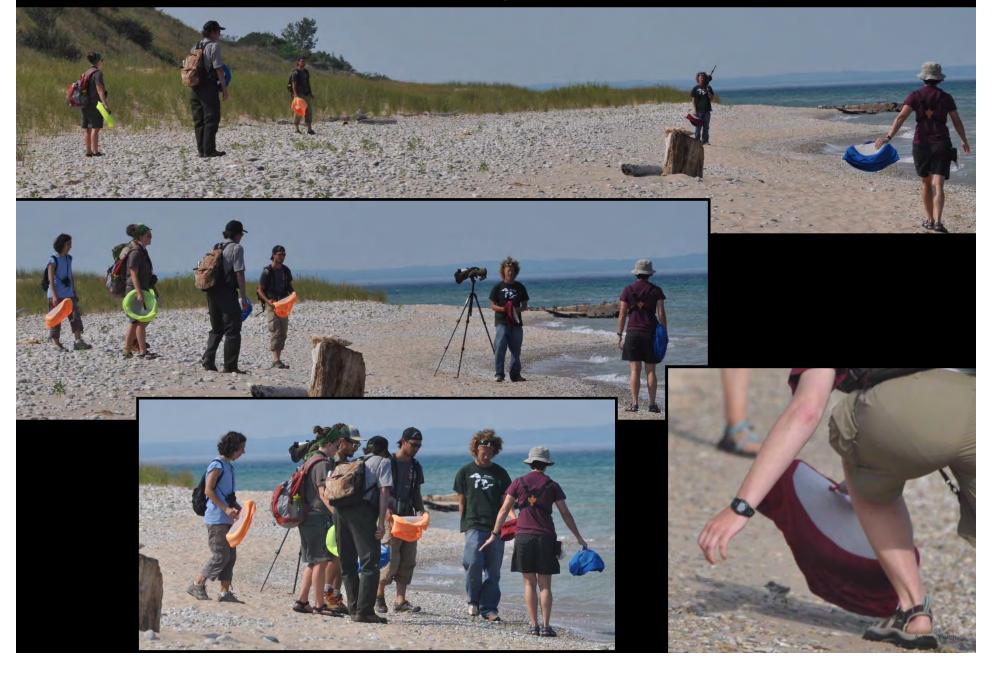
Piping Plover Research To Aid Recovery

Some important things we've learned by banding Piping Plovers

- Breeding separation of the three Piping Plover Populations
- Mate and nest site fidelity
- Longevity
- Mortality rates and causes
- Wintering locations
- Migration routes
- Dispersal from natal sites
- Critical habitat requirements
- Genetic Diversity in the Population
- Sex ratios at hatching and fledging



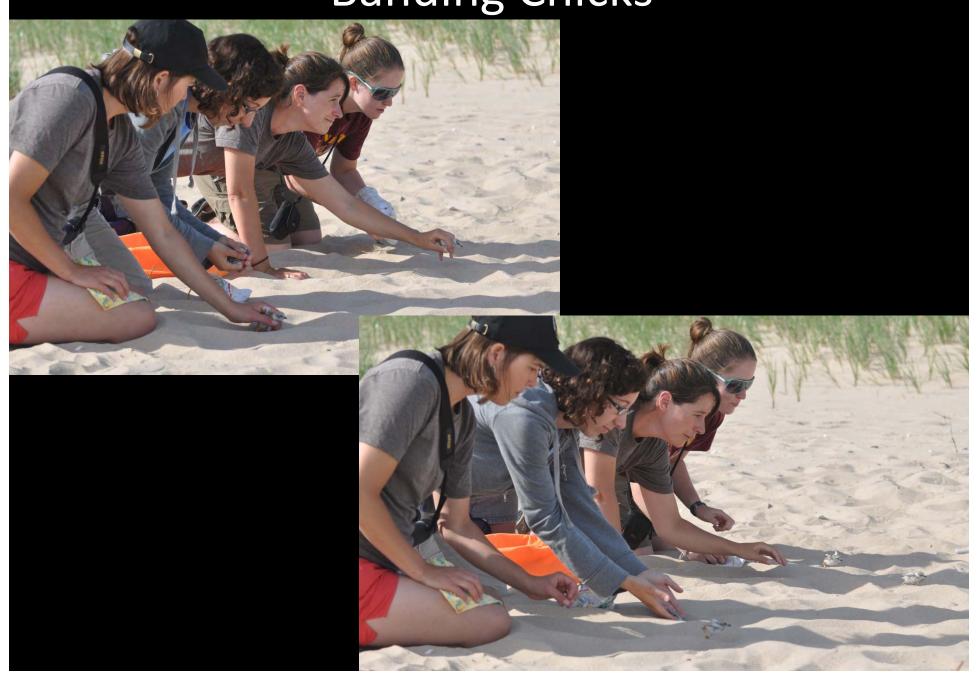
Banding Chicks



Banding Chicks







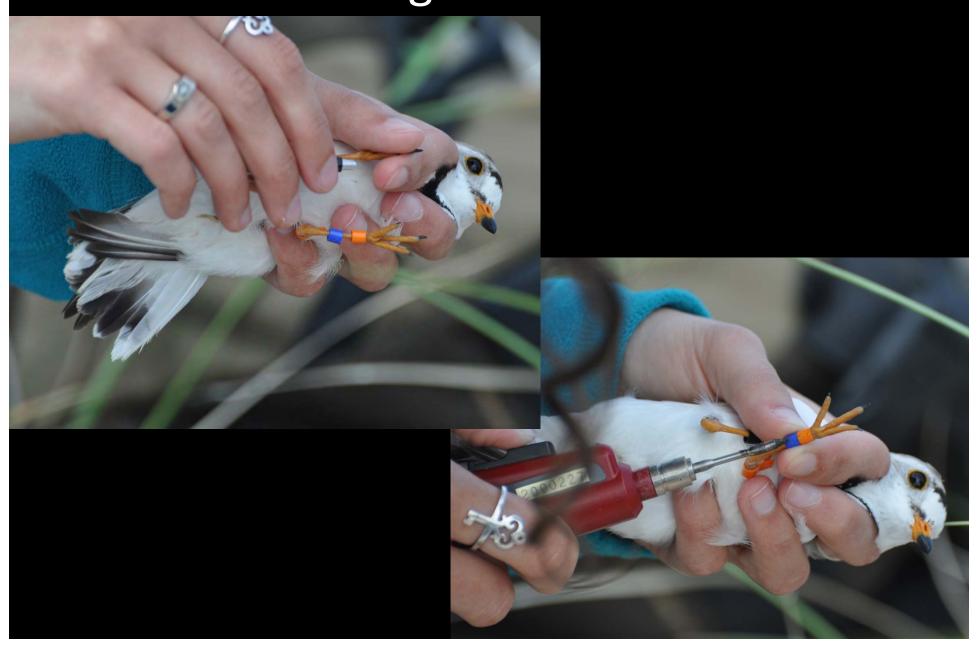
Banding Chicks



Banding Adult Plovers - Potter Trap



Banding Adult Plovers

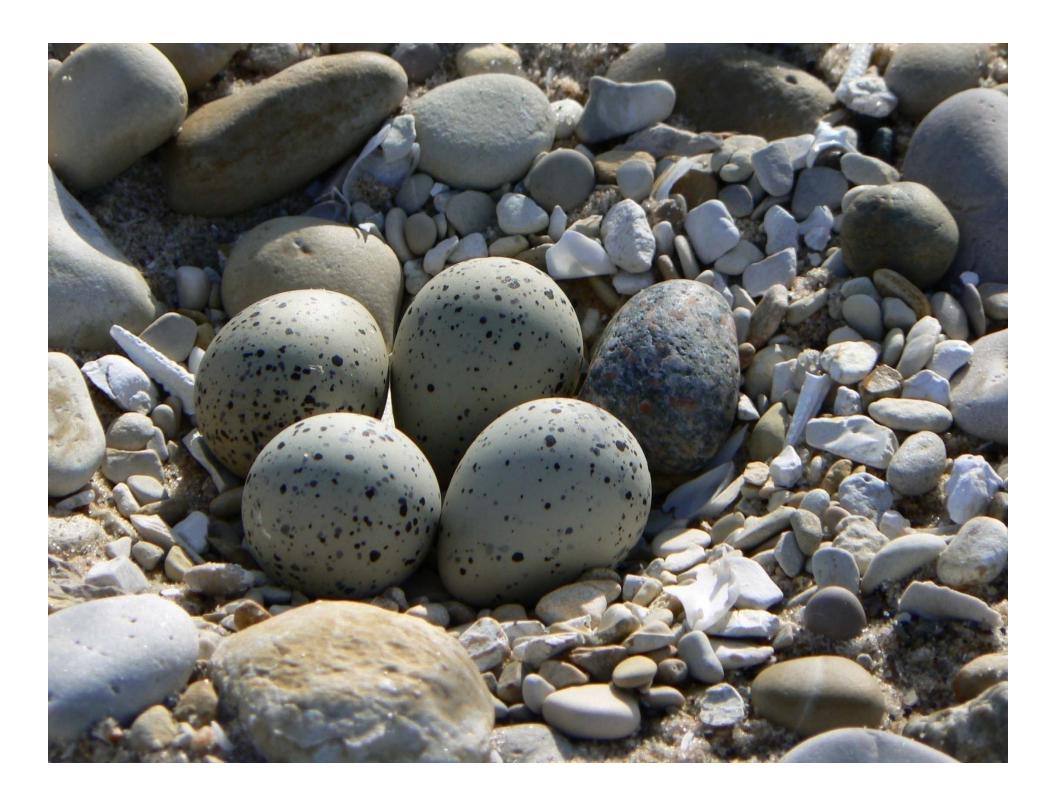


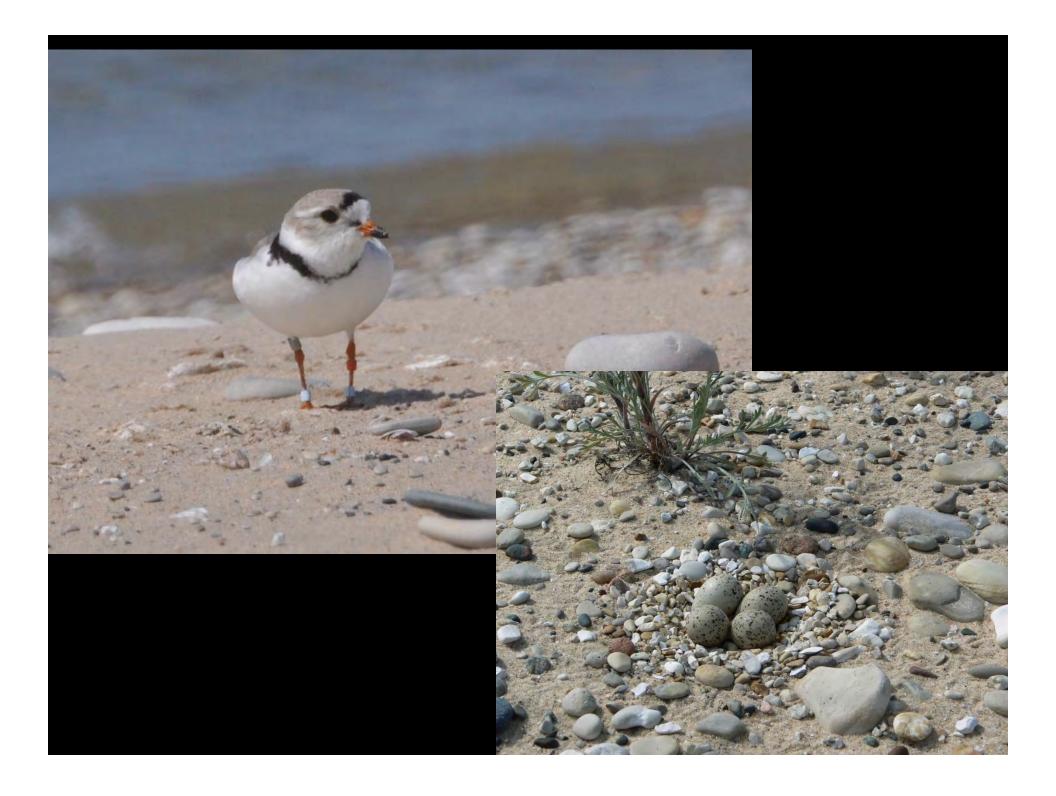
As the Plover world turns

Ob:X,b (aka Rocky) Slow start to success

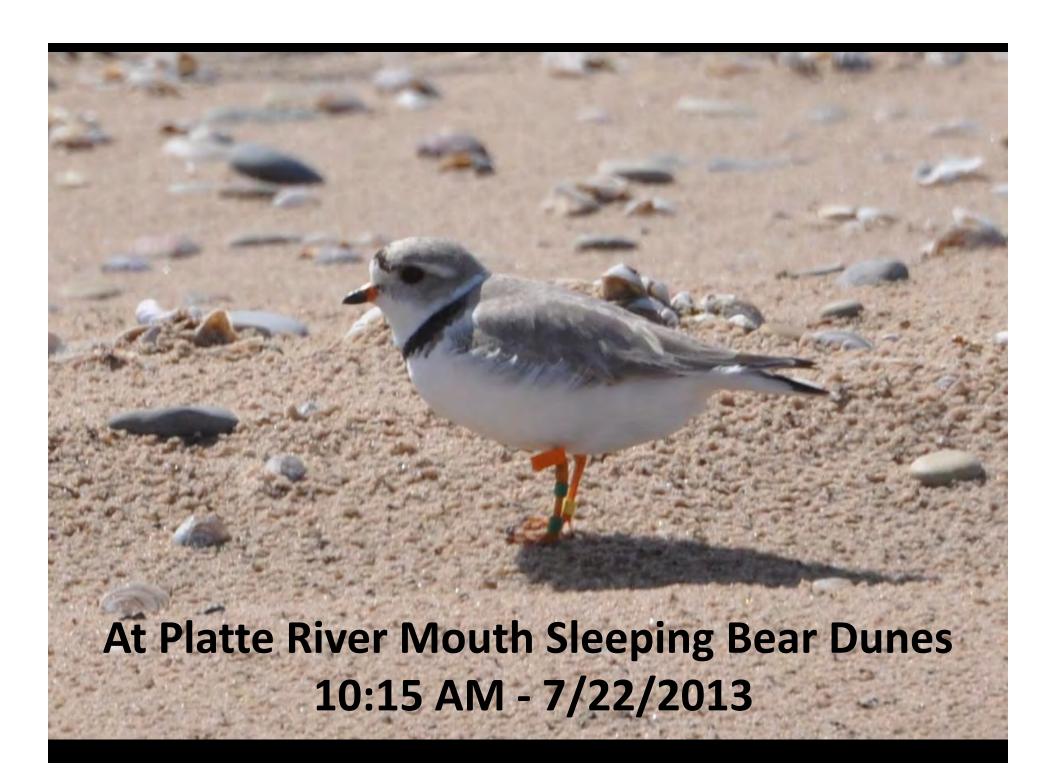








Of, GG: X, Y Migration Speed Record







How you can Help:

- Keep pets on leashes and out of "No Pets" area
- Report any pets off-leash or in restricted areas to NPS staff
- Clean up any garbage left on the beach
- Don't feed gulls, crows or other wild animals
- •Report sightings of Piping Plovers in areas where there aren't known nests (no plover fencing)
- Volunteer to help monitor Piping Plover nesting activities and survey beaches
- Volunteer to help with Botulism E beach patrols
- •To volunteer or report observations call: 231-326-4751
- Report banded plovers on winter range to plover@umn.edu