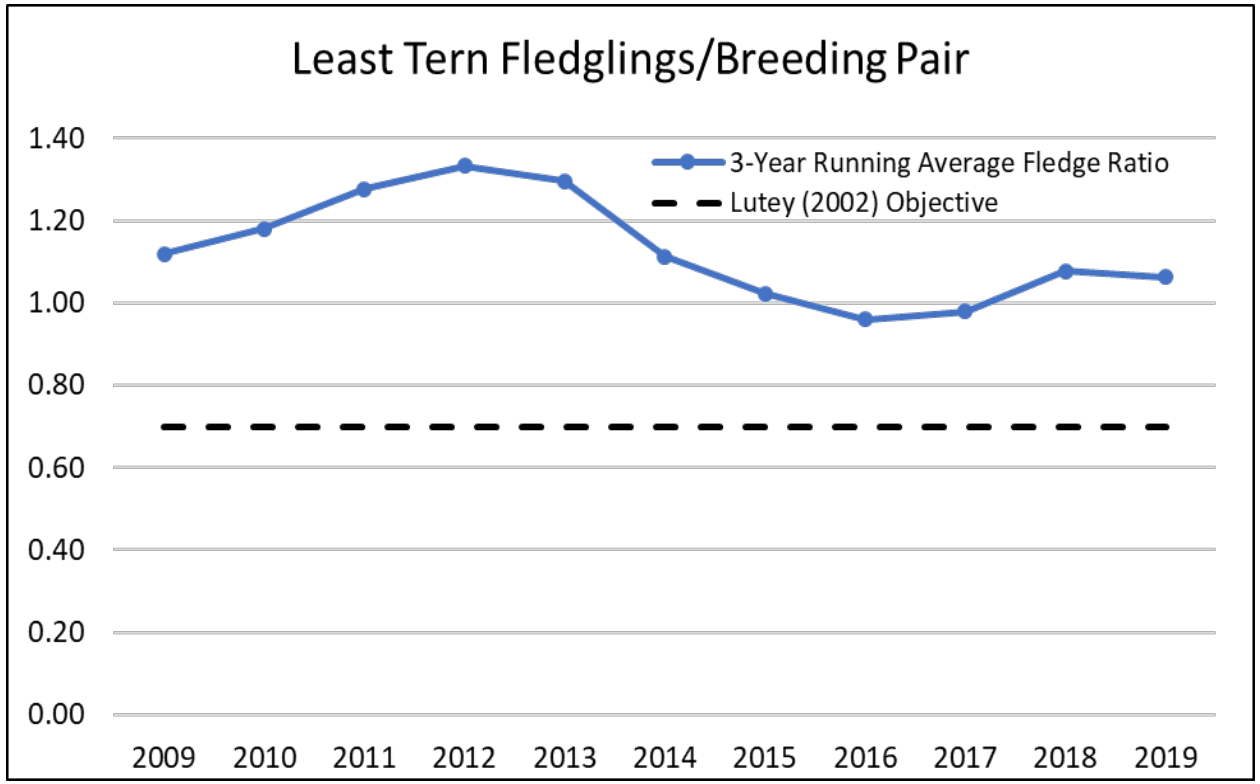
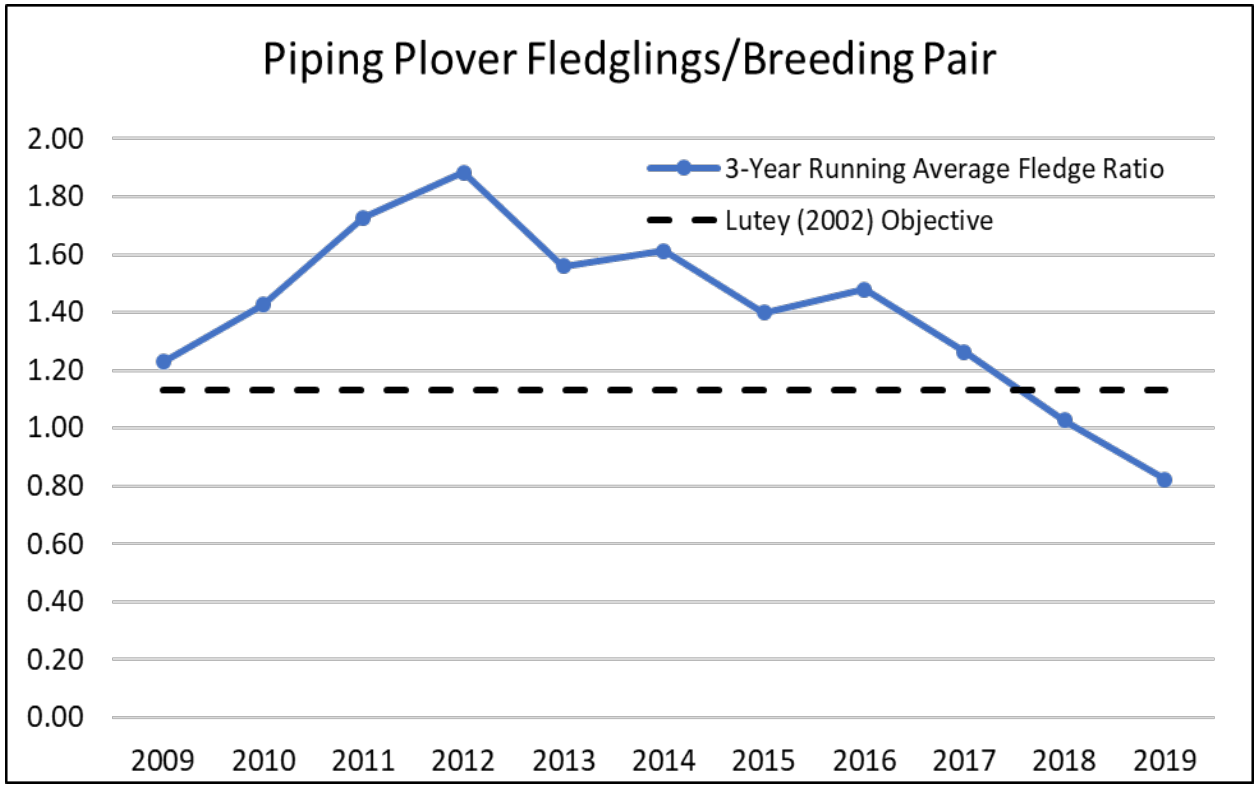
Deeper-Dive Topics

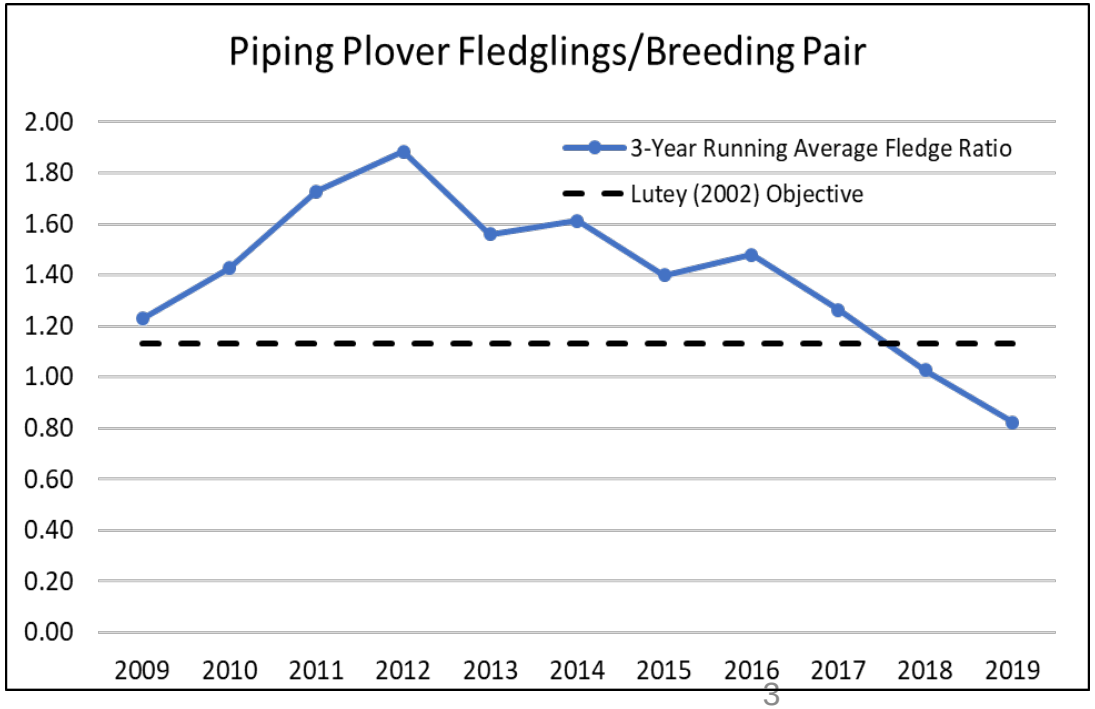
Tern and Plover Predator Management

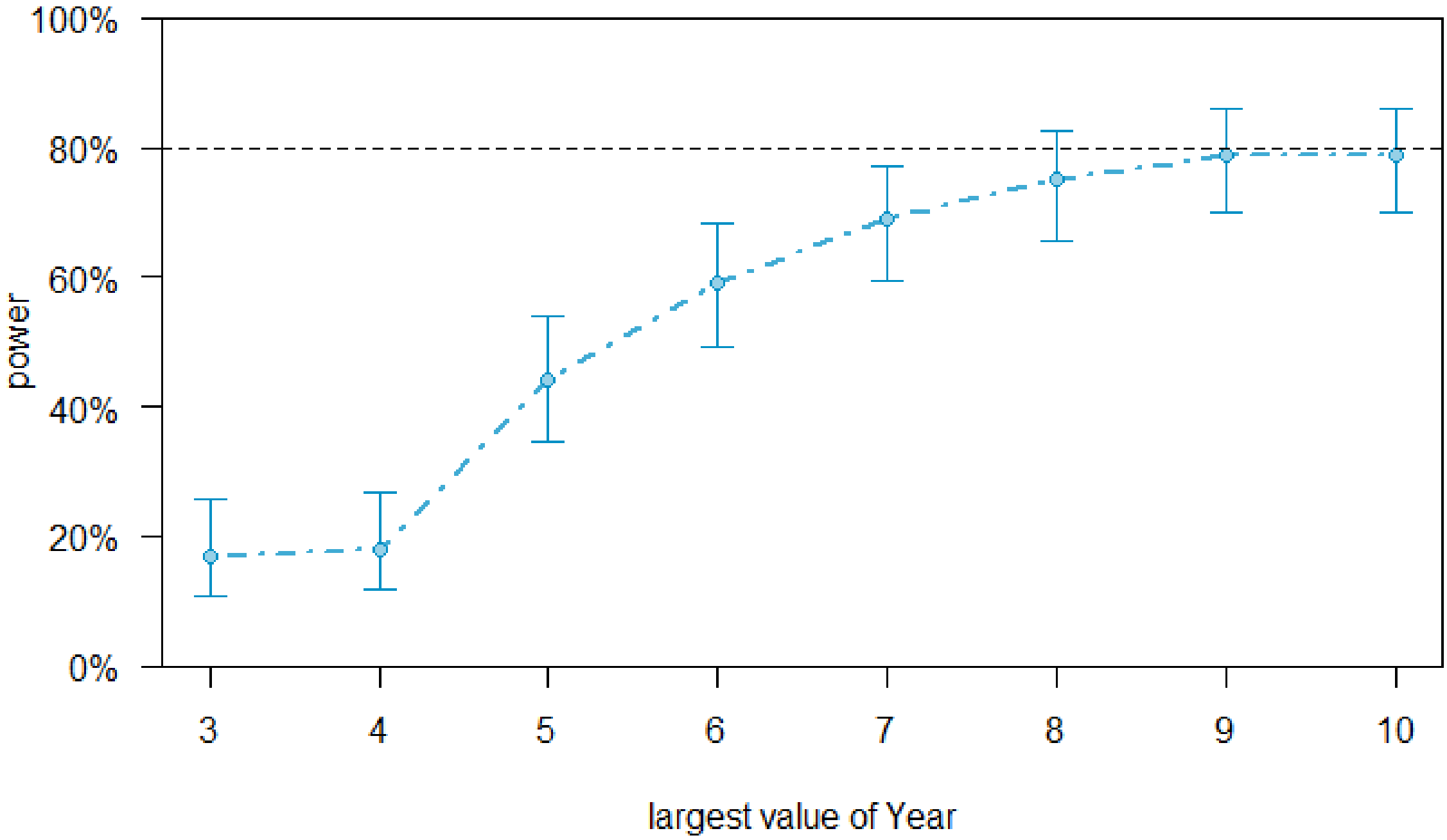

Least Tern Fledglings/Breeding Pair
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
3-Year Running Average Fledge Ratio
Lutey (2002) Objective

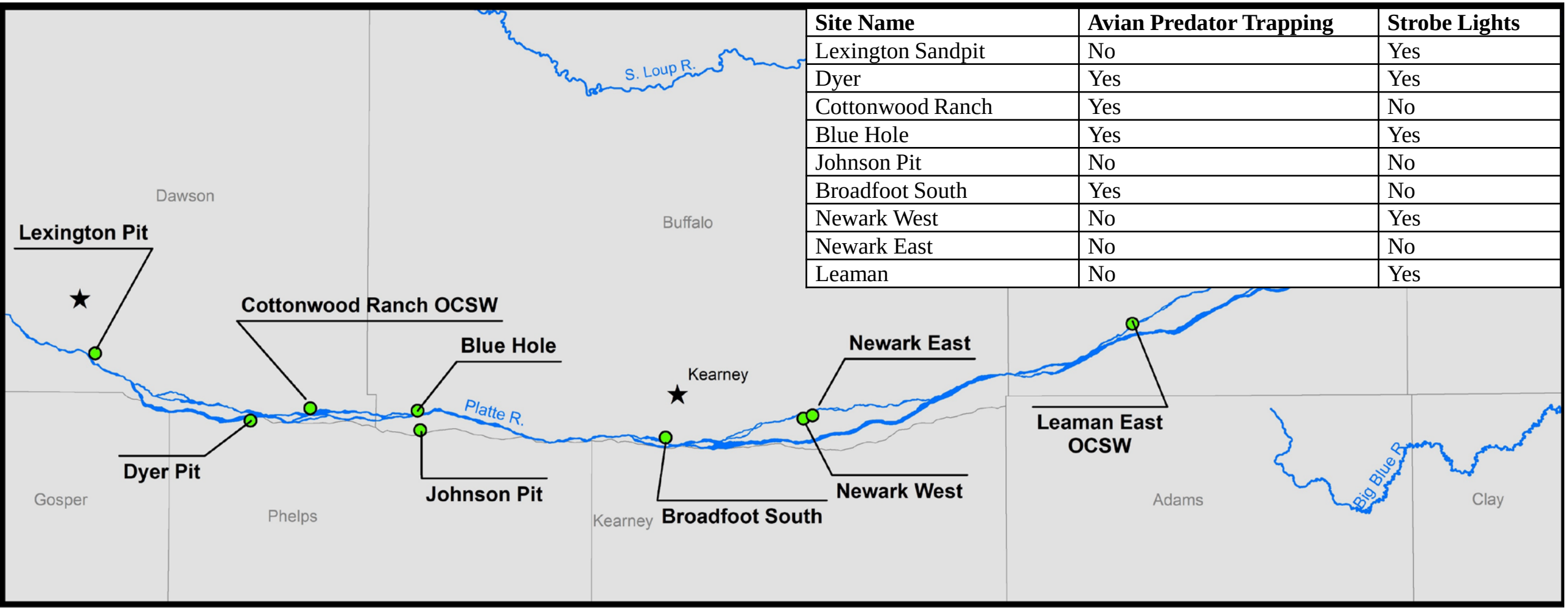

Piping Plover Fledglings/Breeding Pair
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
3-Year Running Average Fledge Ratio
Lutey (2002) Objective

Power Analysis

- Data – PIPL fledglings per nest 2012 – 2019
  - 2012-2016 = Avian management
  - 2017-2019 = No avian management
- Assumed fledglings per nest
  - 0.75 = No avian management
  - 1.06 = Strobe lights
  - 1.06 = Avian trapping
  - 1.50 = Strobe lights and avian trapping




100%
80%
60%
40%
20%
0%
power
3
4
5
6
7
8
9
10
largest value of Year



Site Name	Avian Predator Trapping	Strobe Lights
Lexington Sandpit	No	Yes
Dyer	Yes	Yes
Cottonwood Ranch	Yes	No
Blue Hole	Yes	Yes
Johnson Pit	No	No
Broadfoot South	Yes	No
Newark West	No	Yes
Newark East	No	No
Leaman	No	Yes