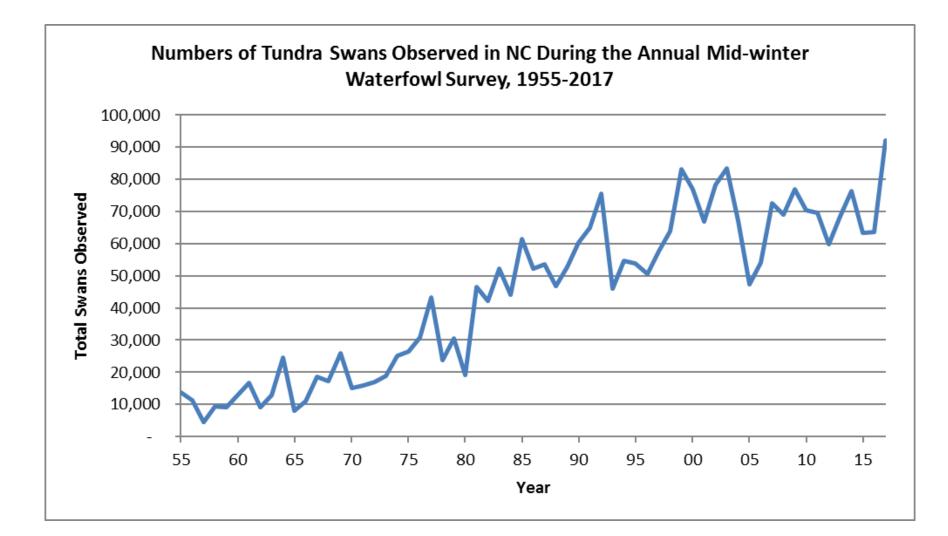
# Trends in Waterfowl Following the Loss of SAV on Lake Mattamuskeet

# **Tundra Swans**

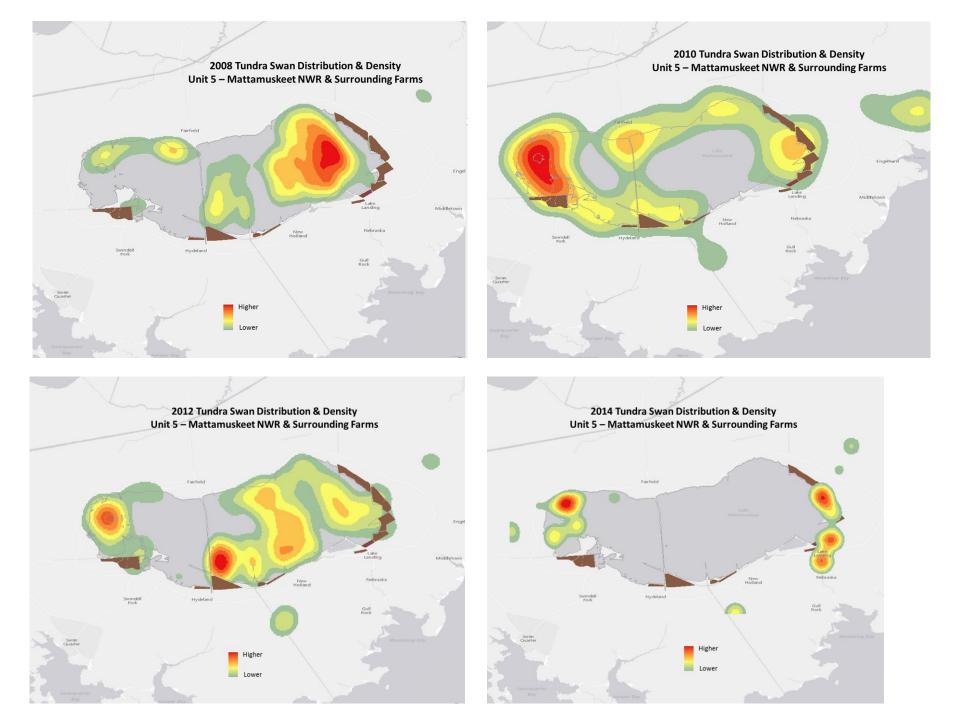
Significant decline in numbers of tundra swans using Lake Mattamuskeet NWR and surrounding farms since loss of SAV began in 2014

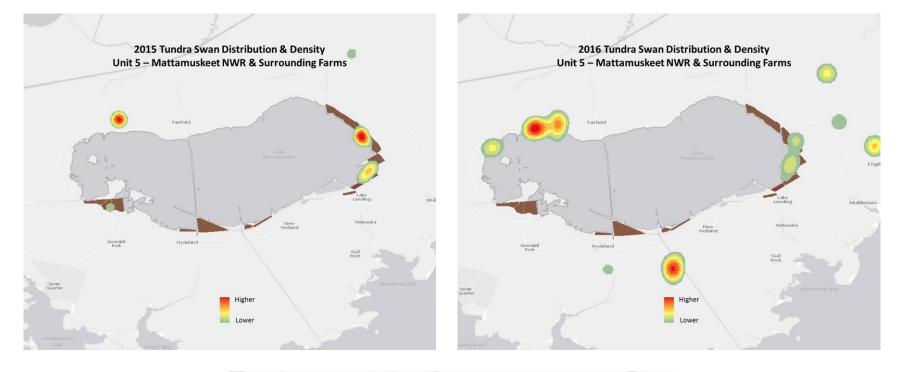
#### Record Numbers of Swans Observed During Annual Mid-Winter Waterfowl Survey in 2017

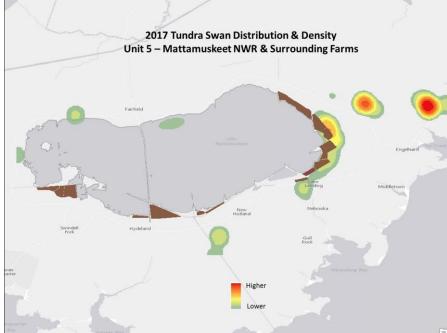
(44,000 Swans Observed on Pungo Lake)

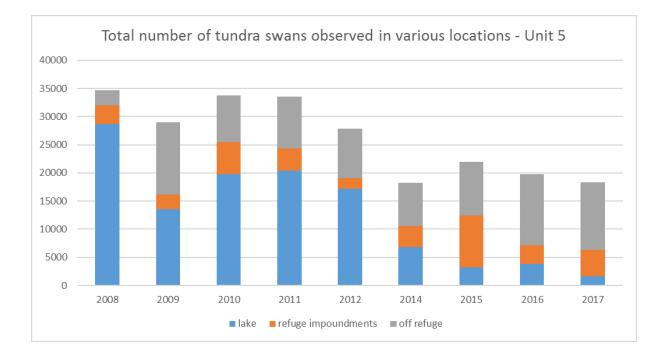


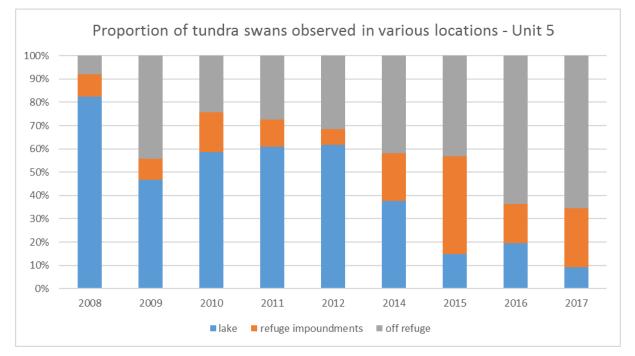








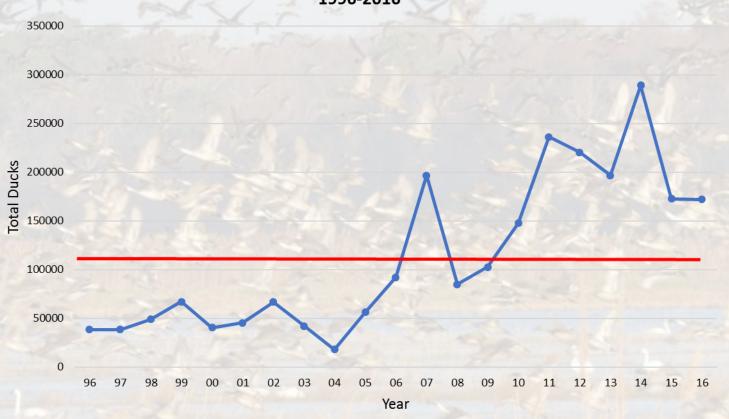




## Ducks

### More difficult to attribute any trends in duck numbers on the refuge to the loss of SAV

#### Total Ducks Observed - January Aerial Waterfowl Survey Mattamukeet NWR 1996-2016





No large-scale duck migration from NC as a result of the loss of SAV on the lake – maybe local shifts in use

On the refuge, duck numbers are likely to reach some lower equilibrium closer to the long-term average

**Refuge impoundments will be more critical in providing** daily energetic demands of ducks

# **Questions?**

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