

Figure 3.
2017 Moose
Archery Season
Permit
Allocation

17 Total Permits
Bulls Only



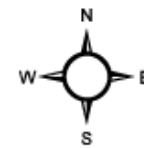
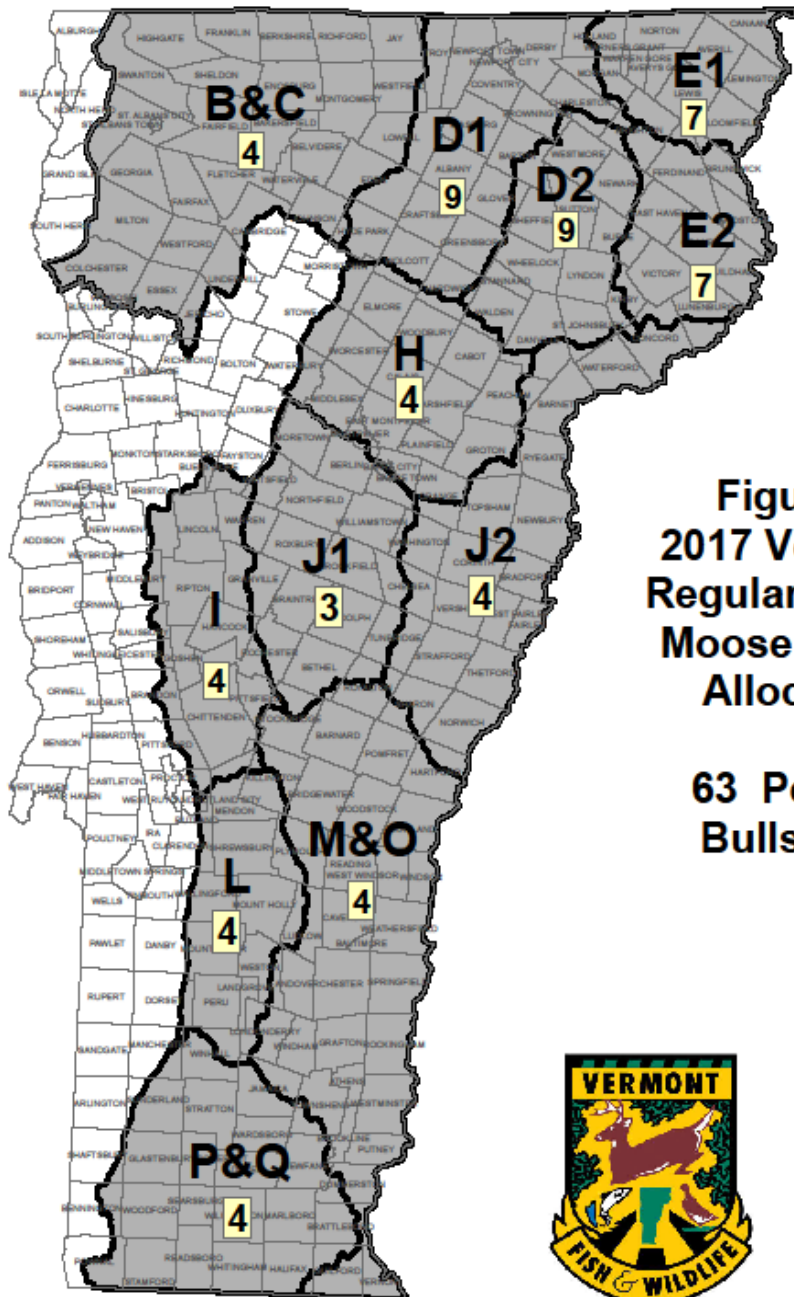


Figure 2.
2017 Vermont
Regular Season
Moose Permit
Allocation

63 Permits
Bulls Only



2017 Archery Season

- 8 bulls/18 permits = 44% success
(33% in 2016)
- 6-year average = 36%
- E1 , E2, H, J1, J2, M

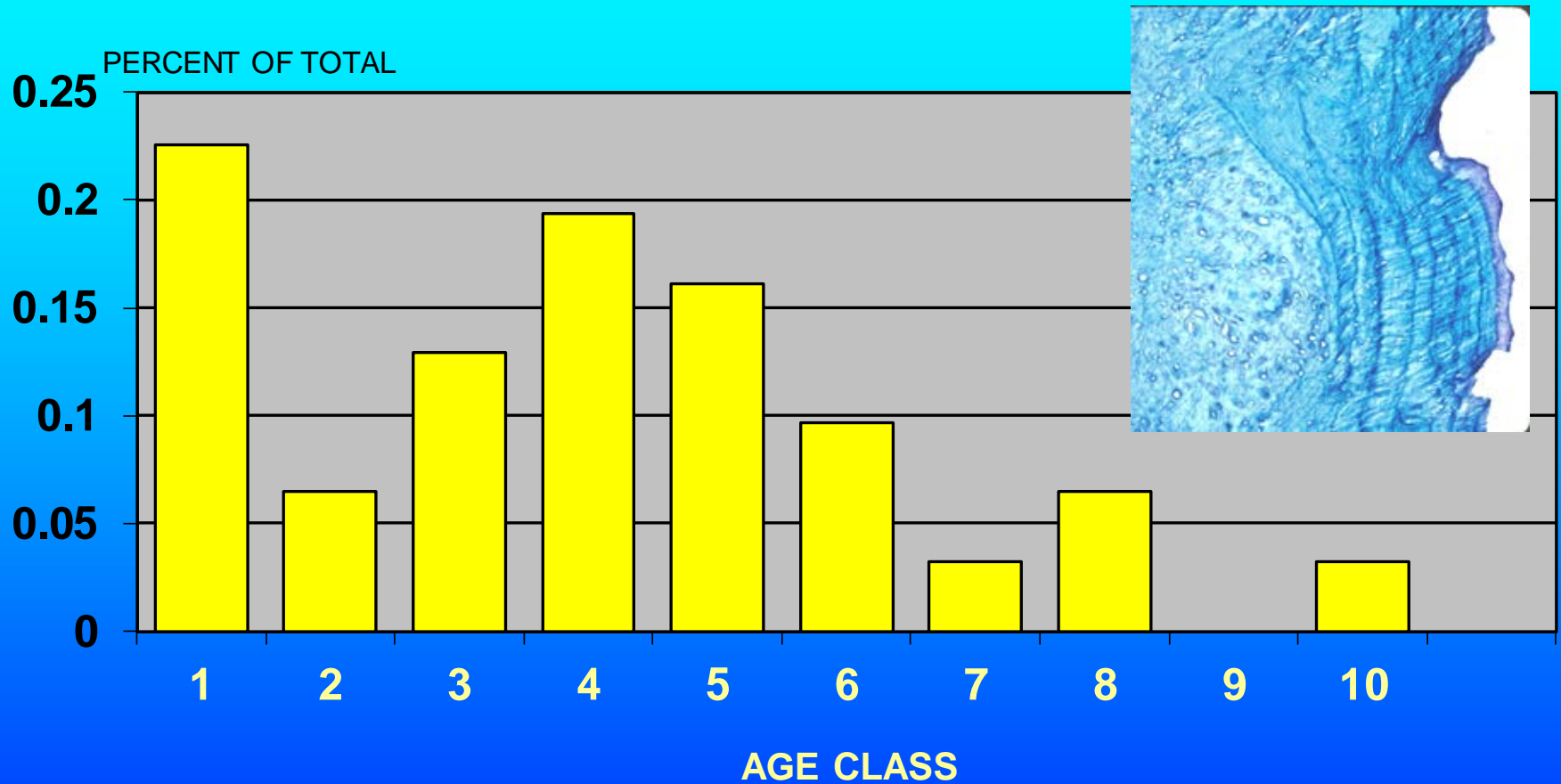
2017 Regular Season

- 70 permits - Bull Only
- 32 moose = 46%
- (45% in 2016)



2017 Seasons Combined = Estimated 6 tons, or
48,000 servings of moose meat

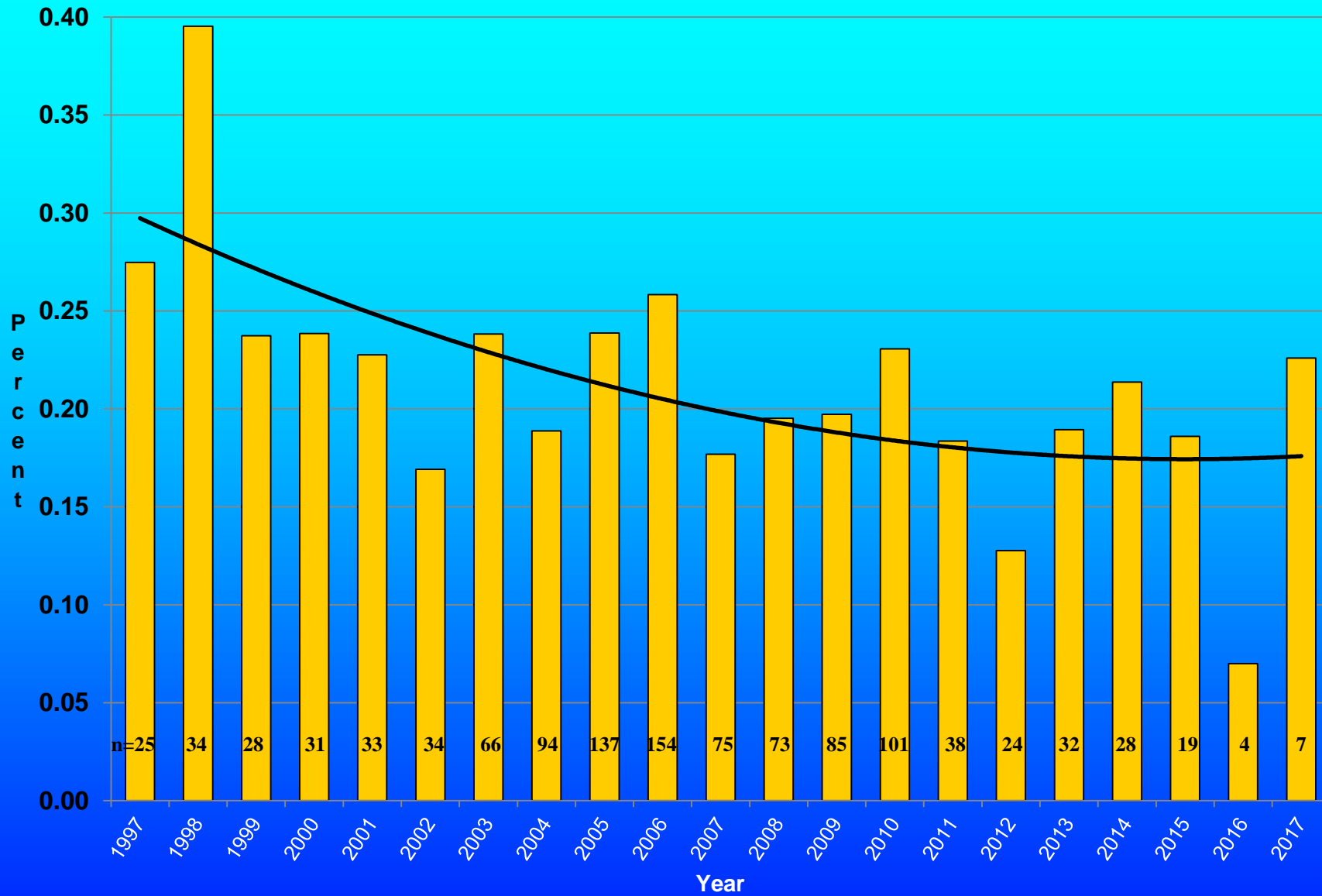
VT Moose Aged by Cementum Annuli 2017 Legal Harvest



Ave. age = 3.97 years (n = 31)

58% \geq 4 years old

Percent Yearling Moose in VT Harvest



2017 Calving Rates

16 calves/30 cows

= 0.53

10% yearling cows?

16 calves/27 cows

= 0.59

20% yearling cows?

16/24 = 0.67



2017 Survival Results

Overwinter

18 of 30 calves (60%)

27 of 30 cows (90%)

Blood loss to ticks

Newborn Calves

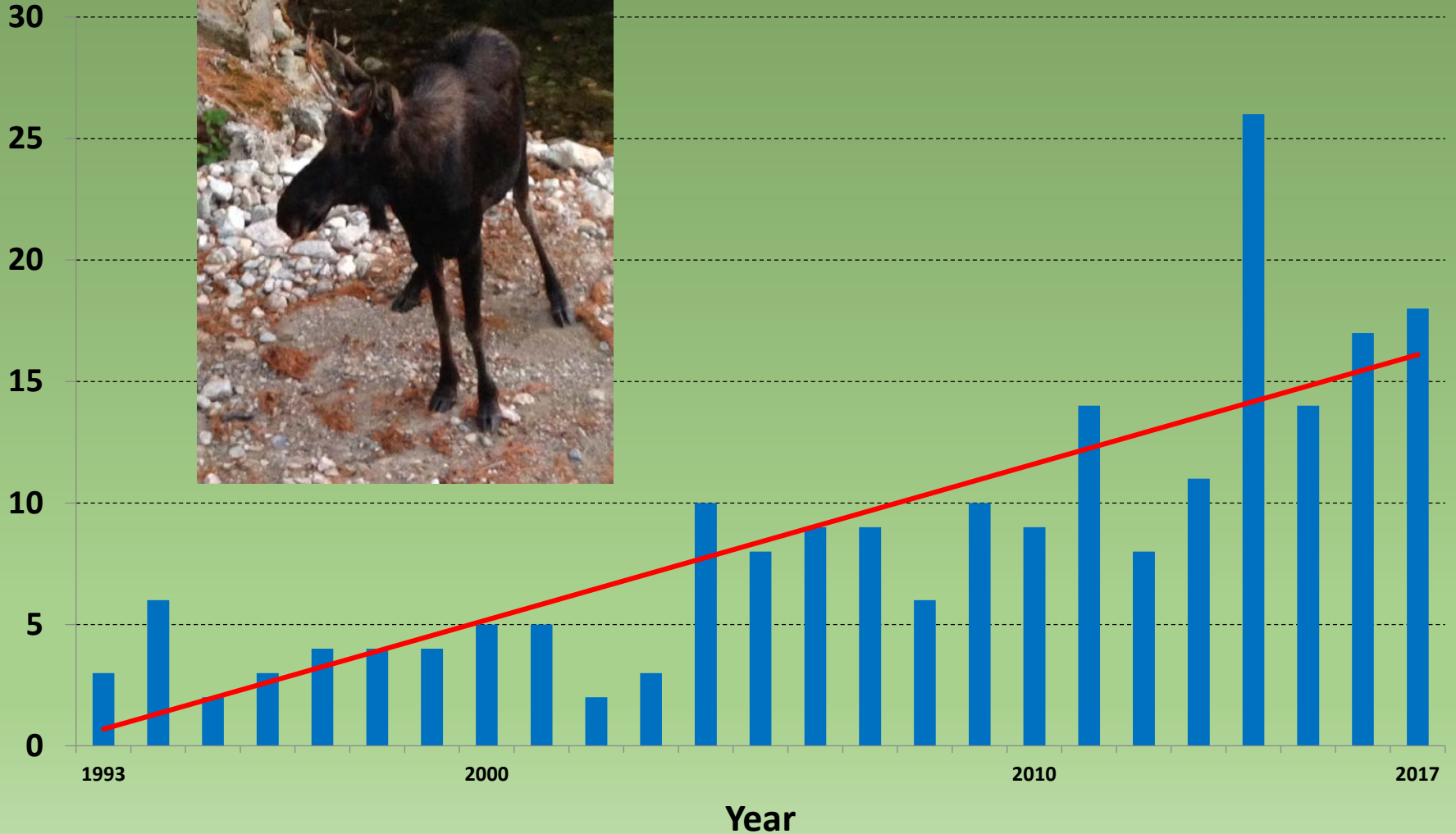
10 of 16 calves (62%)



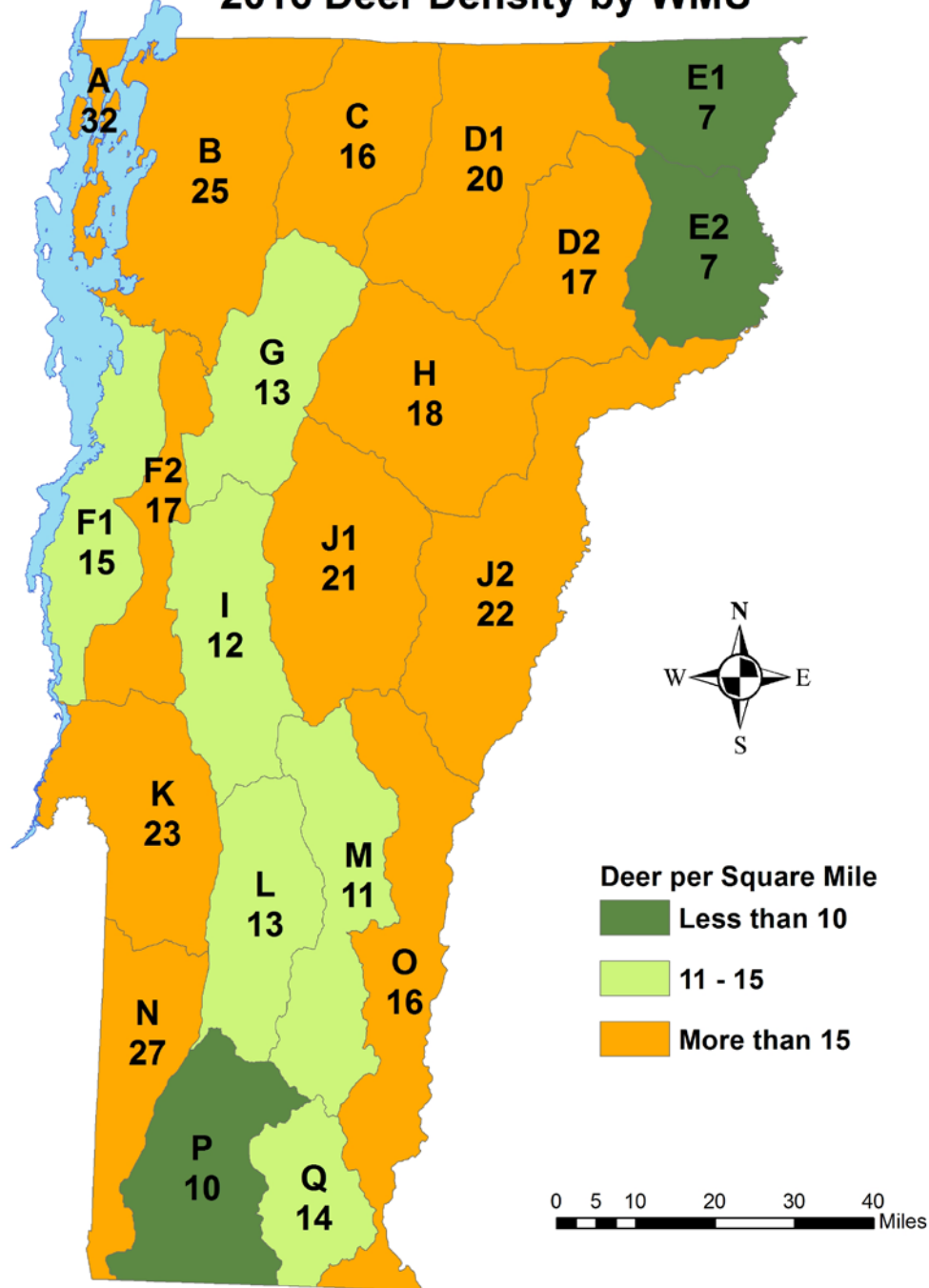
Increase in Brainworm Mortality



Percent

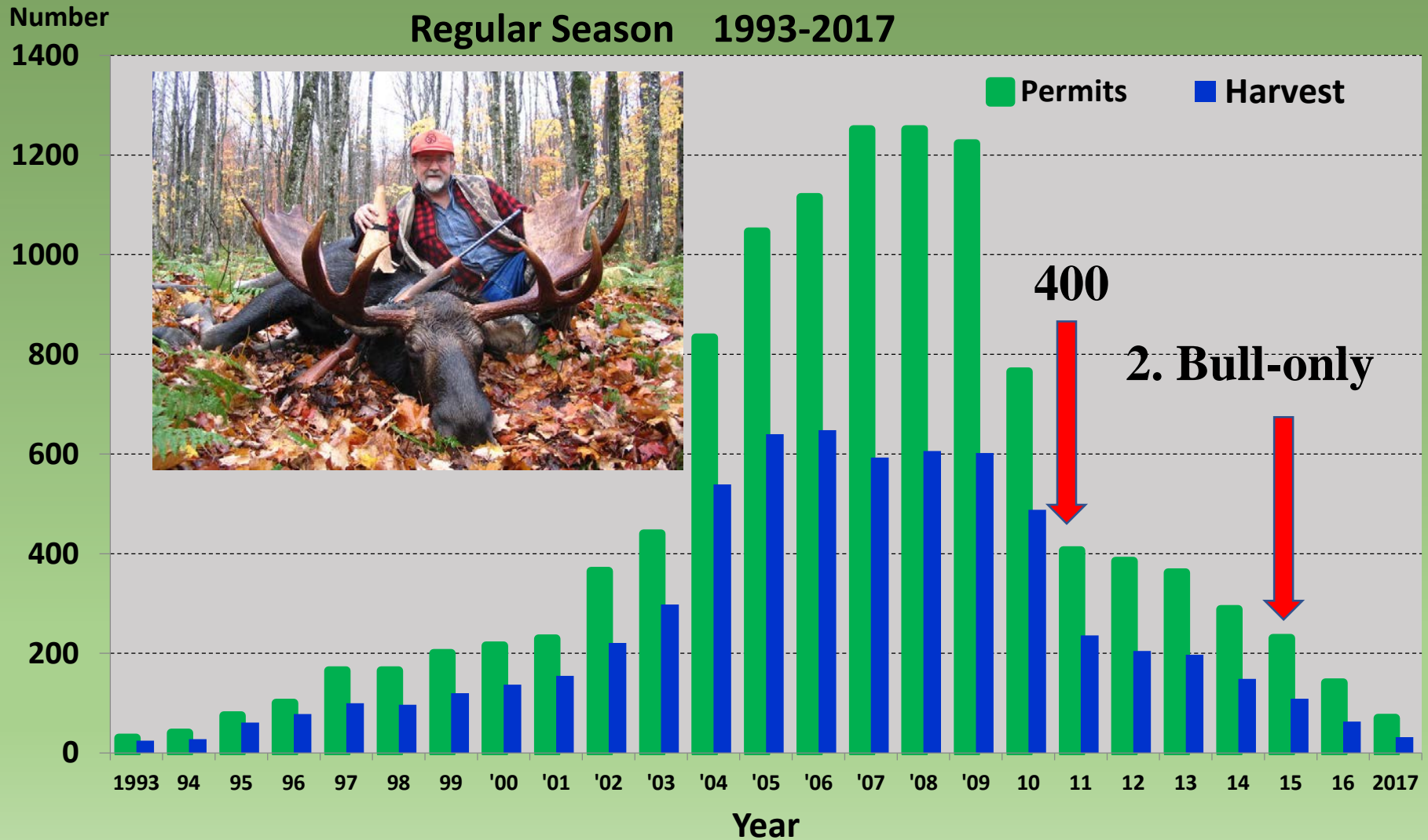


2016 Deer Density by WMU



Deer densities
>10 deer/mi²
= increase rate
of brainworm in
moose

Management actions: 1. Reduce permit numbers

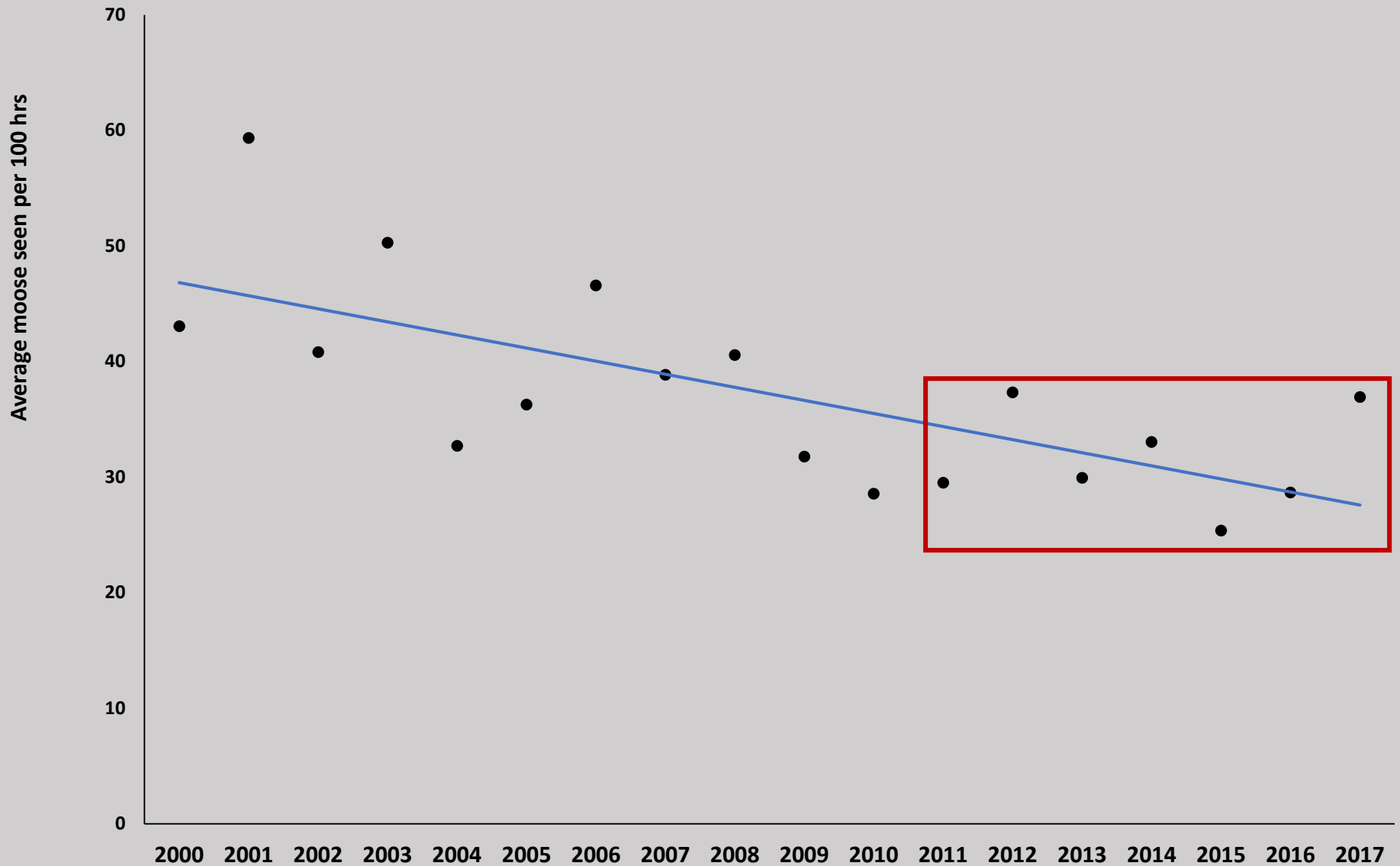


Moose Population Estimates



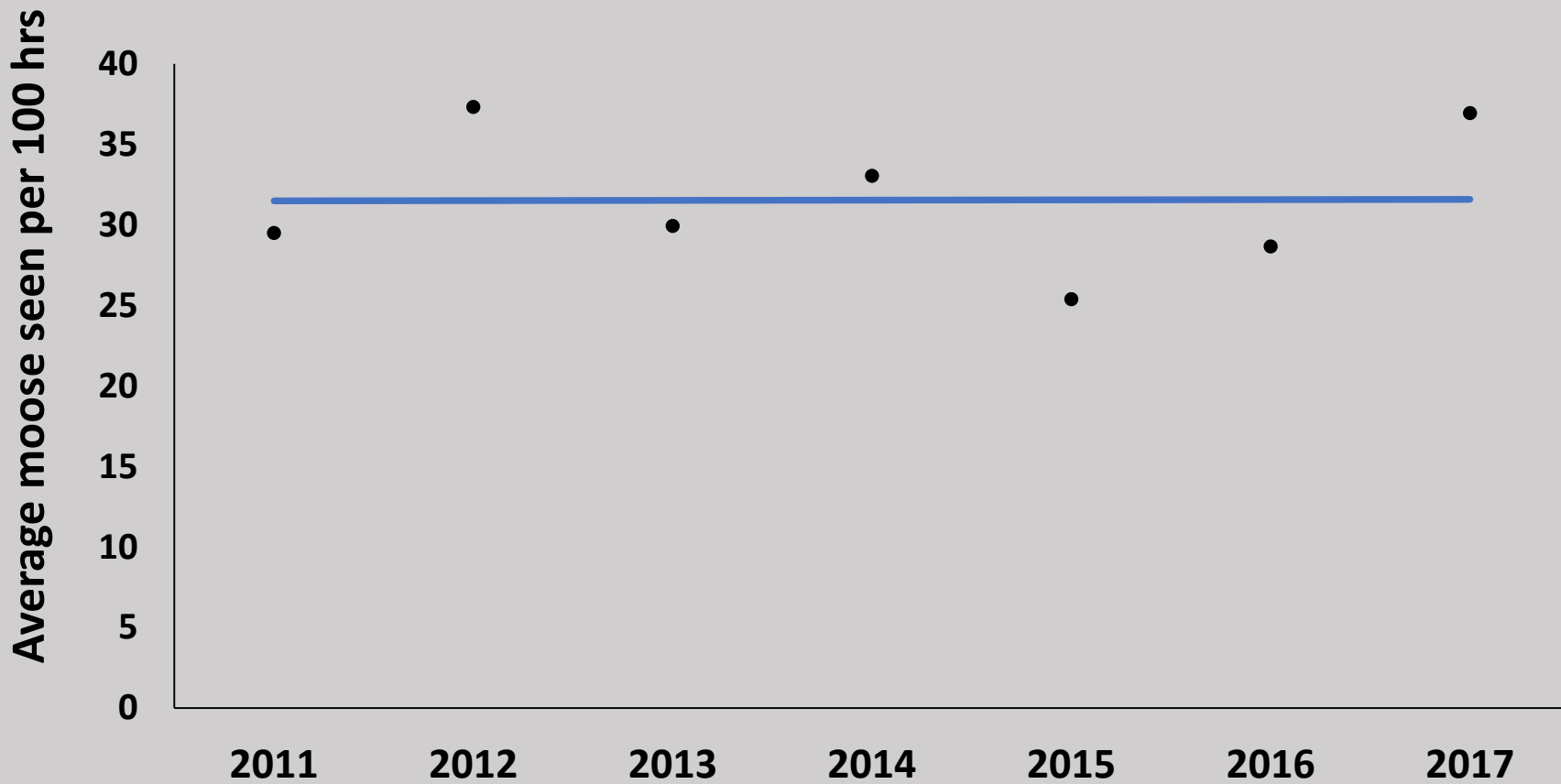
Moose sighting rates from 2000-2017

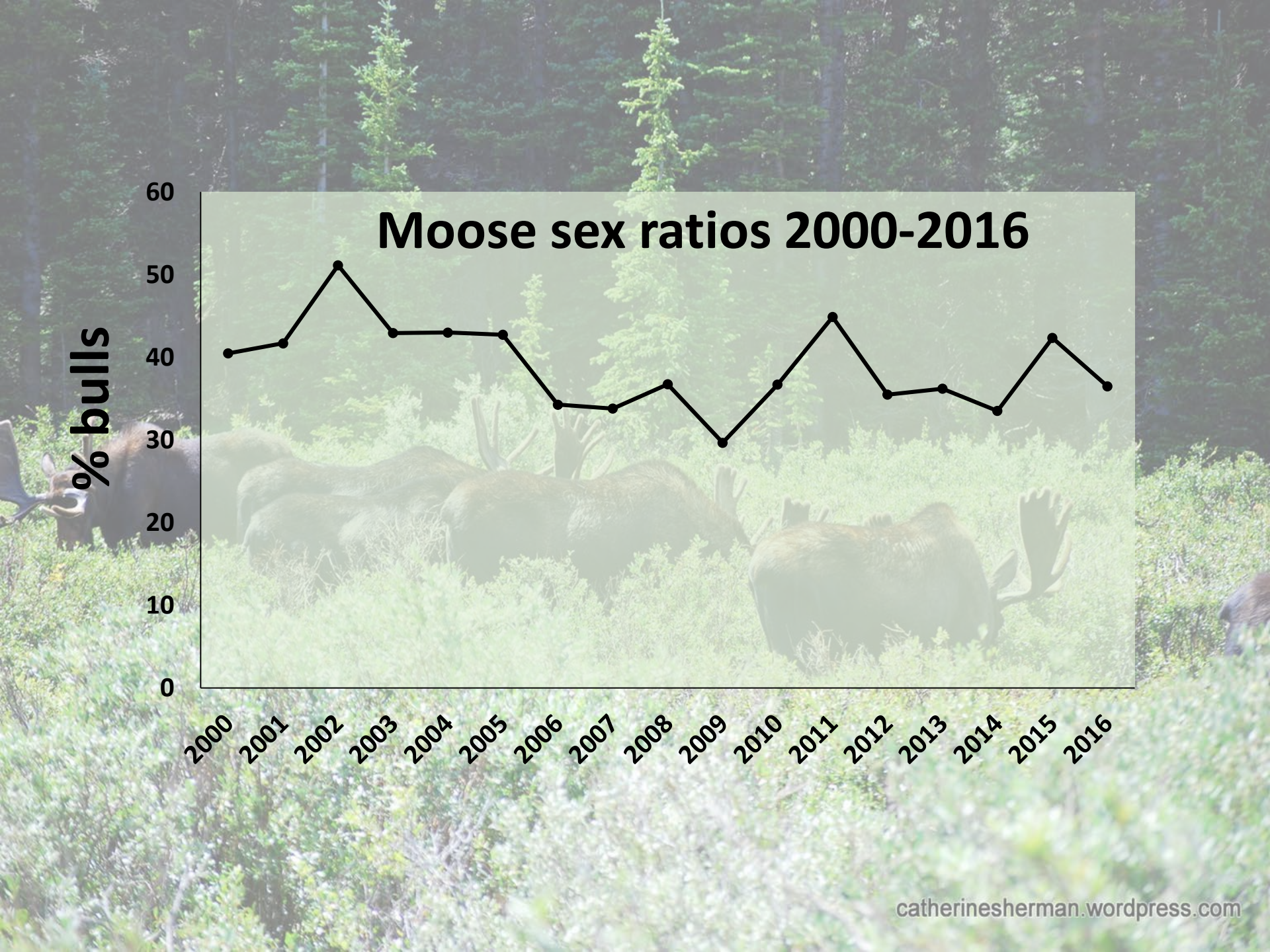
WMU E (E1 and E2)



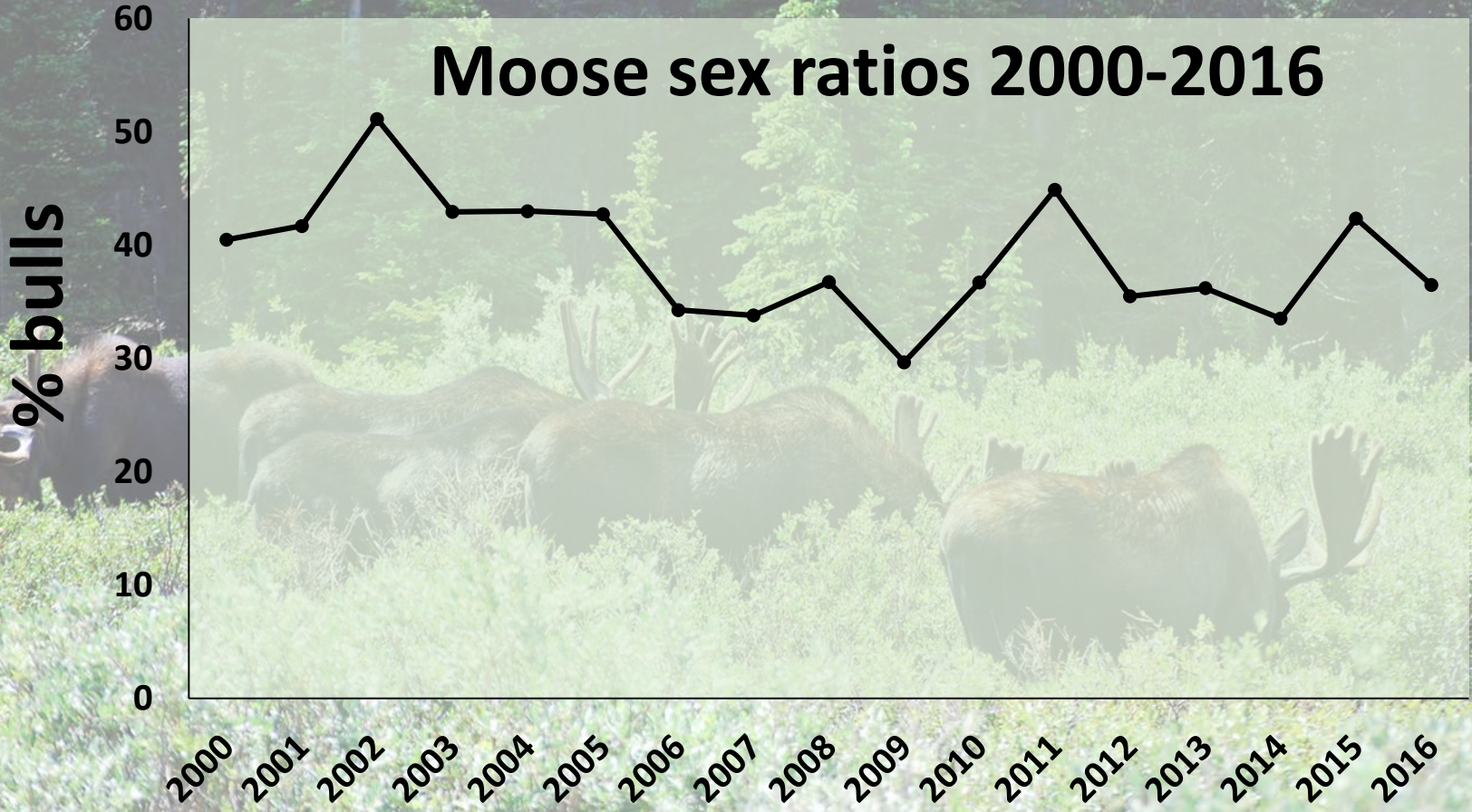
Moose sighting rates from 2011-2017

WMU E (E1 and E2)





Moose sex ratios 2000-2016



Moose Densities and Tick Epizootics

- Below 0.75 moose/mi² = low tick levels
- Above 1.30 moose/mi² = high mortality rate
- WMU E = 1.05 moose/mi²



Interim target density for E1 & E2 = 1.0 moose/mi²

All other WMUs < 75% of interim target thresholds of 0.25 – 0.75



| Proposed 2018 Moose Season Permits | | | | |
|---|-----------|-----------|-----------------------|---------------|
| WMU | E1 | E2 | All Other WMUs | Totals |
| Archery | 2 | 2 | 0 | 4 |
| Regular | 5 | 5 | 0 | 10 |

**3 Public meetings – December, 2017
Charleston - Montpelier - Woodstock**



Common Concerns

Winter ticks – pesticides? biological controls?

Climate change favoring ticks and brainworm

Habitat – public and private lands

Why still hunting?

Thresholds for no permits?

Big Maple

Bear predation

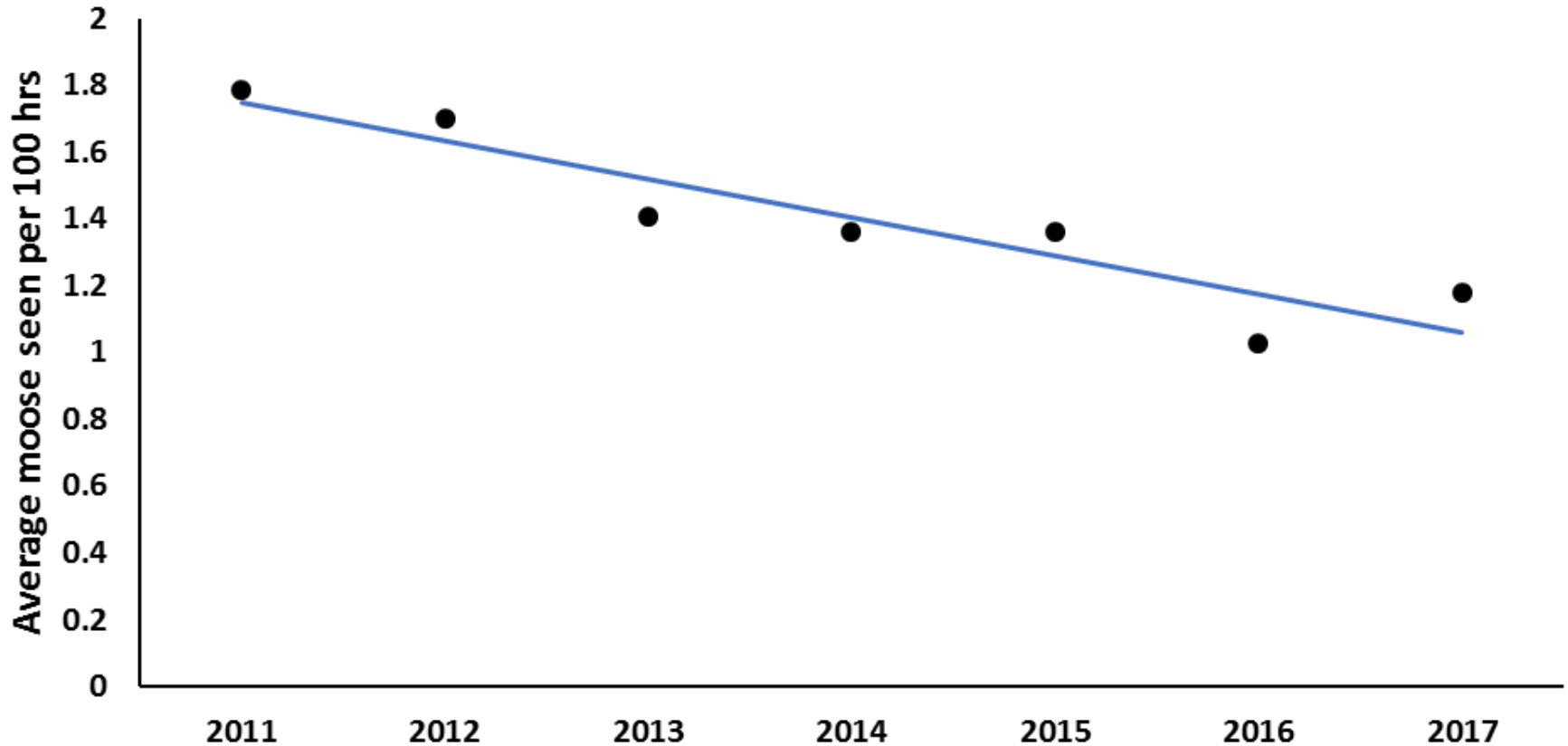




Questions?

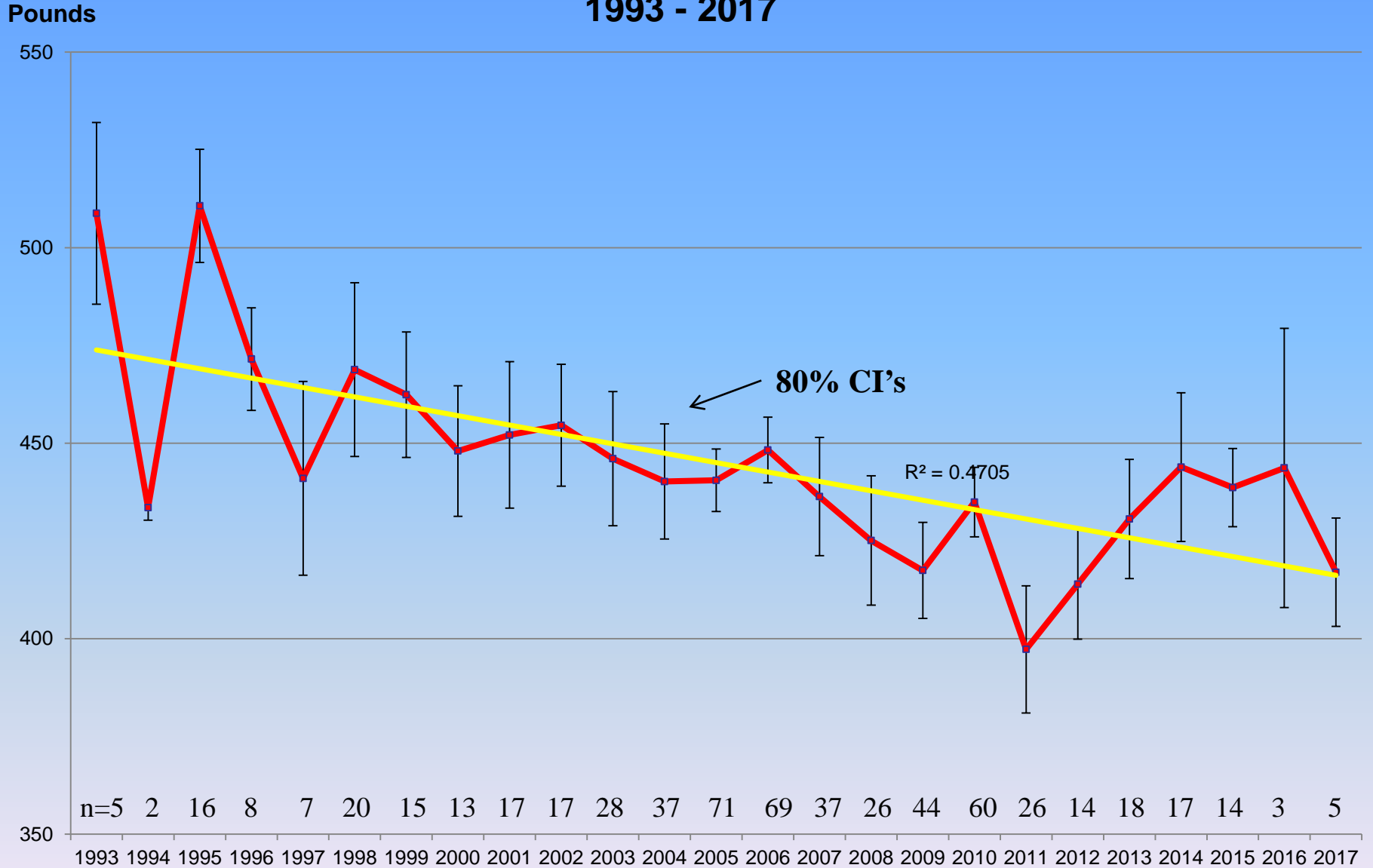
MOOSE CORE AREA (WMU E1, E2, D1, D2) TRENDS FROM 2011-2017

Moose sighting rates from 2011-2017



All deer hunters survey respondents

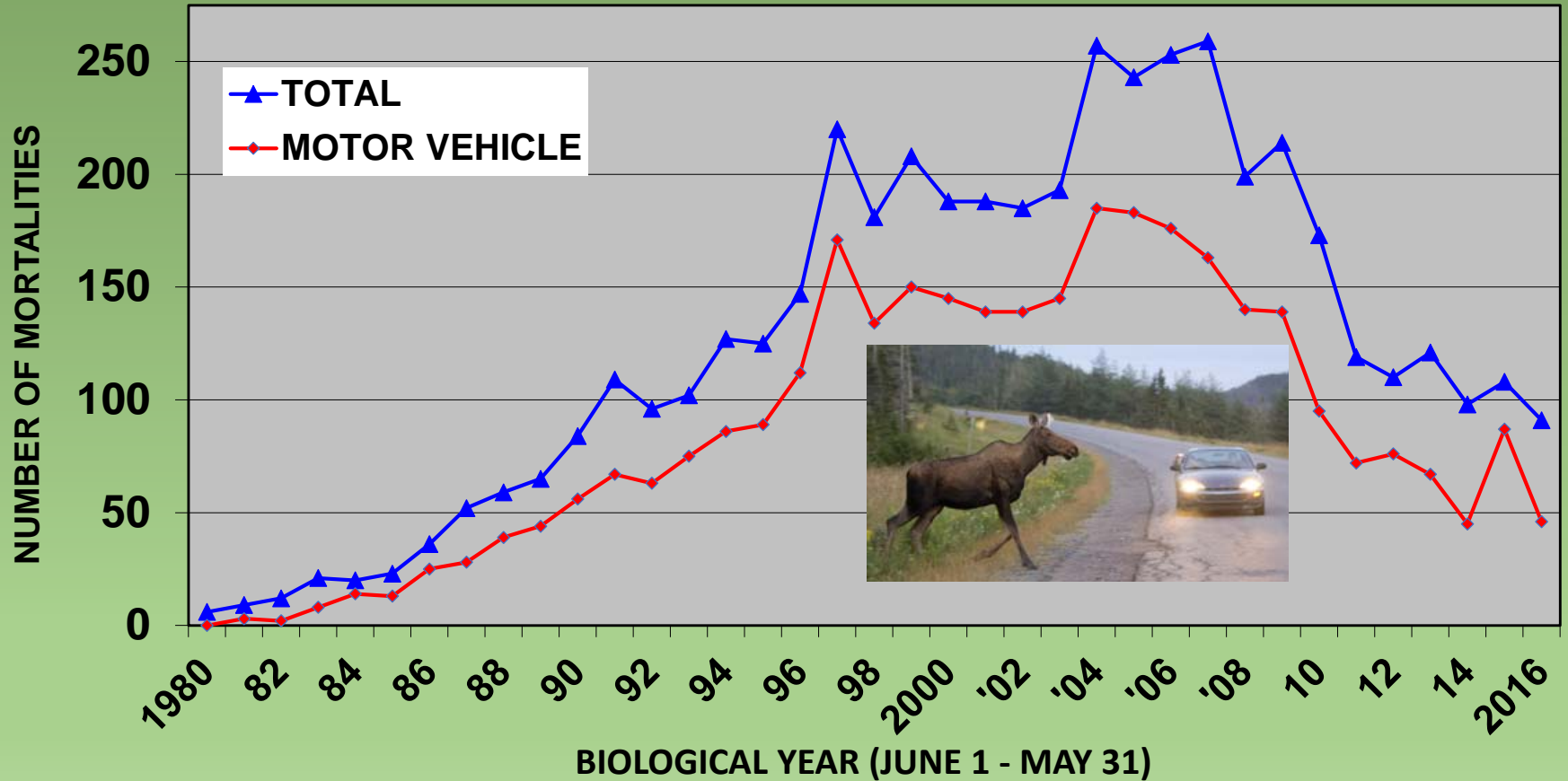
Yearling Bull Dressed Carcass Weights 1993 - 2017



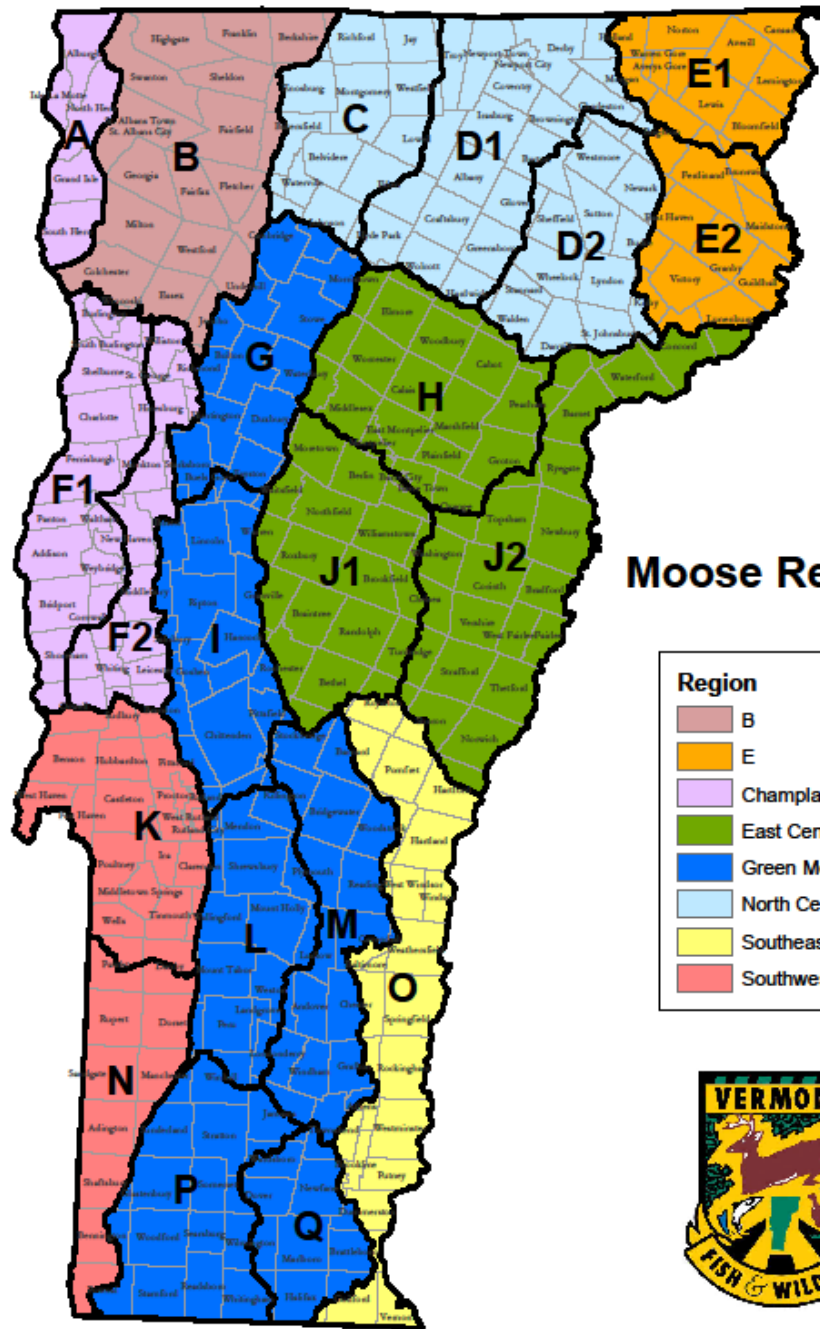
589 Total Bulls

2017 = 417 lbs









VT Non-Hunting Moose Mortalities 1980 – 2016



4766 Total Moose, 3244 MV (68%)



Moose Regions

| Region | |
|---|------------------|
|  | B |
|  | E |
|  | Champlain Valley |
|  | East Central |
|  | Green Mountains |
|  | North Central |
|  | Southeast |
|  | Southwest |

