

MASSWILDLIFE

Massachusetts Deer Management Westford Sportsmen's Club Martin Feehan – Deer & Moose Project Leader

My Background





MASSWILDLIFE

Using Data to Monitor and Manage Populations

Deer Data Collected

Harvest data

- Sex ratios
- Age structure
- Health (antler beam diameter \rightarrow reproductive capacity)

Hunter Survey

- Effort
- Success rates
- Sighting rates
- Non-harvest mortality
- Pellet count surveys
- Browse surveys



Biological Data Collected

- First week of shotgun season biologists collect
 Sex, weight, age, antler beam diameter
- Many deer harvested during short period
- Consistency with previous years' data

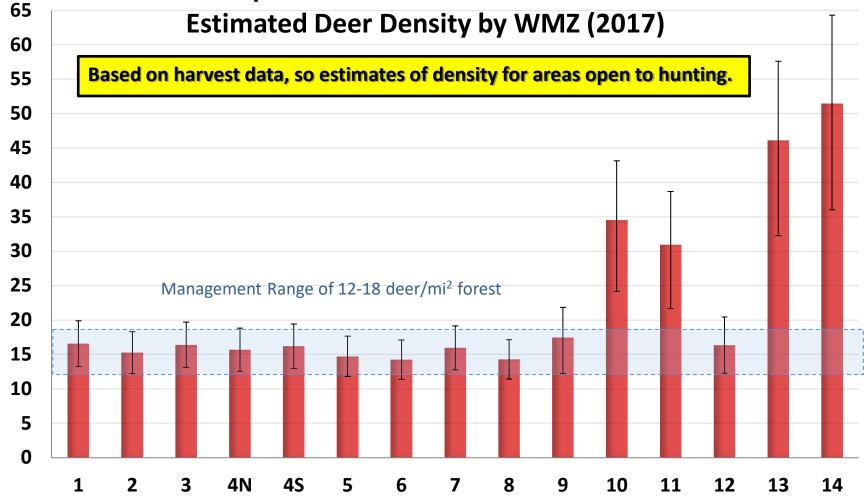


Deer Harvest Data

- Downing Population Reconstruction Model
 - Uses harvest data for estimates of density
 - Harvest data are a *sample* of the population
 - It is an average and only relevant for *hunted* areas

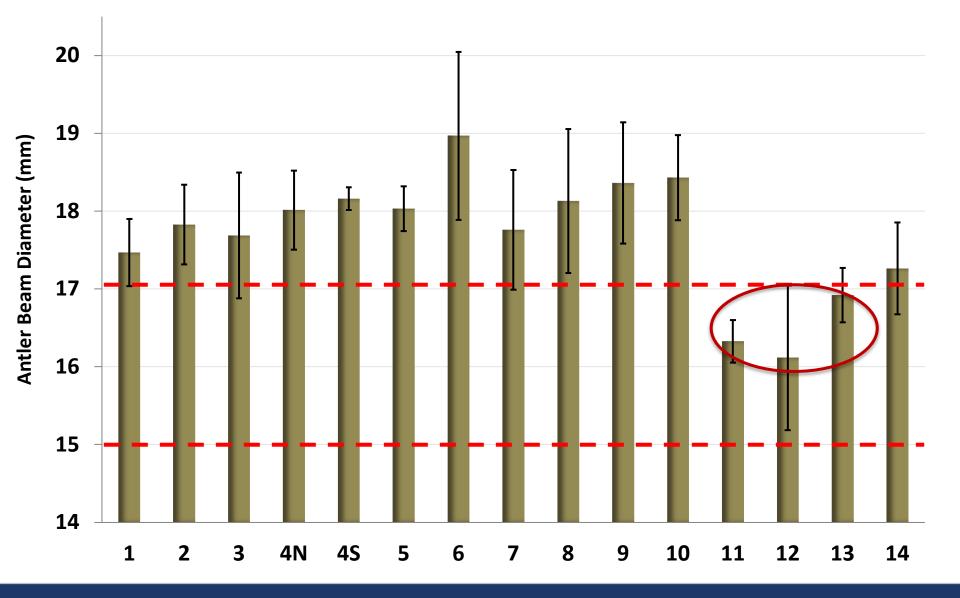
Population Model

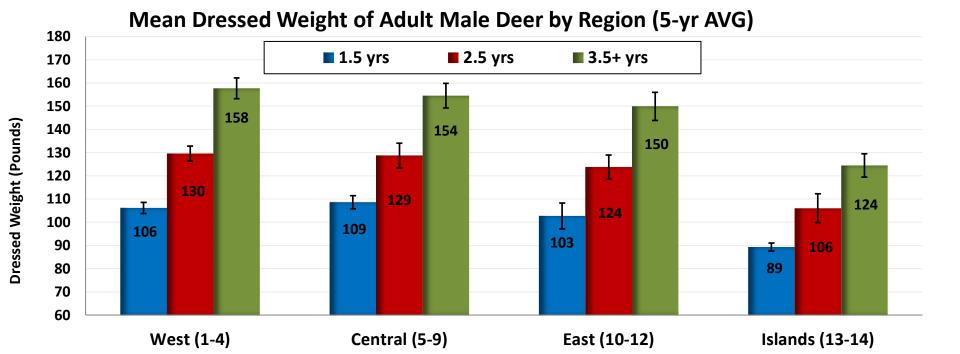
Population Reconstruction Model



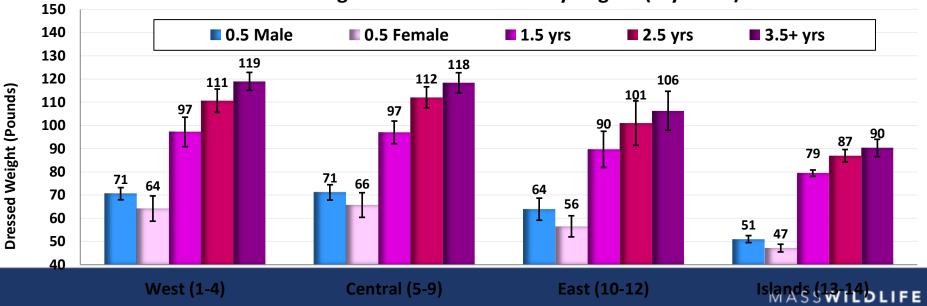
Estimate of Density (Deer/mi² of Forest)

3-Year Average Yearling Male Antler Beam Diameter

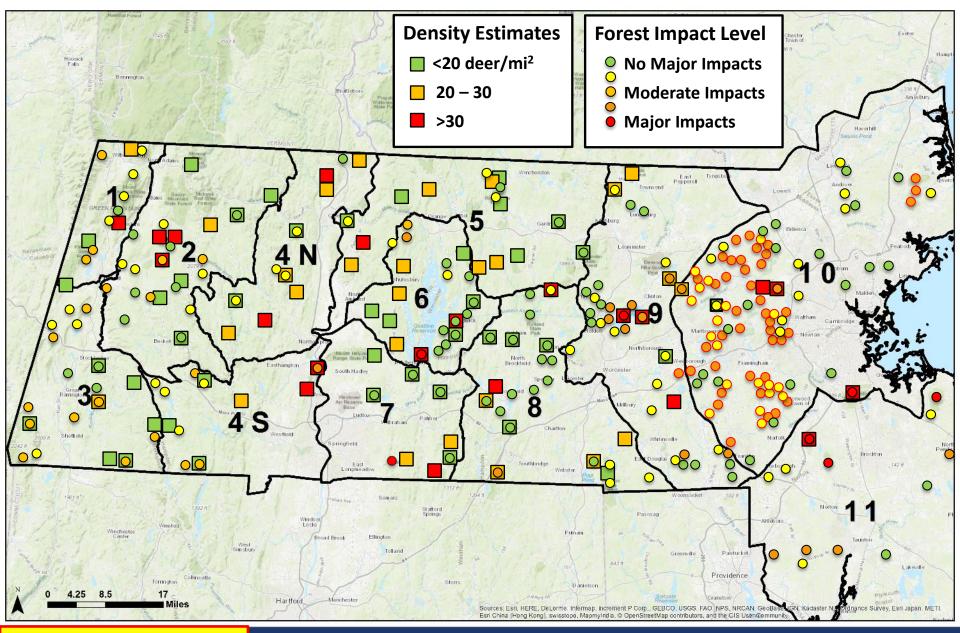




Mean Dressed Weight of Antlerless Deer by Region (5-yr AVG)

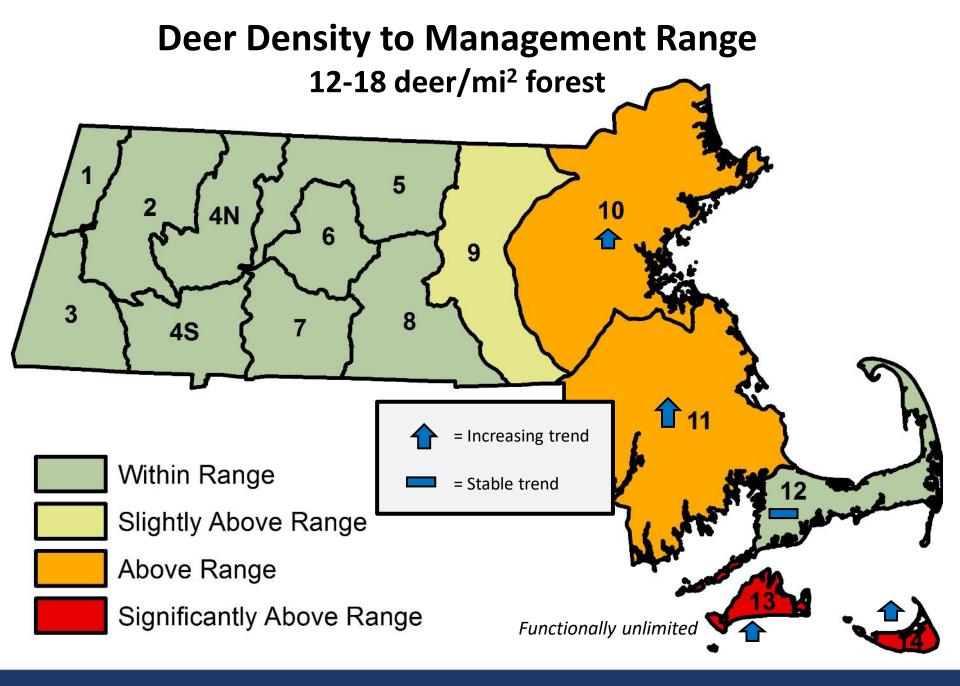


Forest Impacts and Pellet Count Density Estimates



Additional Data

Management Ranges by Wildlife Management Zone 10 **4N** 6 9 3 8 **4S** 11 **Deer Density Ranges** 6-8 deer/sqmi forest 12-18 deer/sqmi forest 20 Miles



Antlerless Deer Permits

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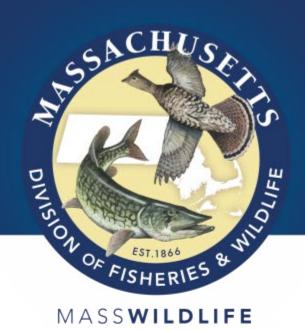
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 Manage Population through Regulated Female Harvest (Antlerless Deer Permits)

- Antlerless Permits Allocated by WMZ
 - Target Direction: Increase, Stabilize, or Decrease
 - Harvest Data and Success Rates

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Hunter access restrictions limit management ability



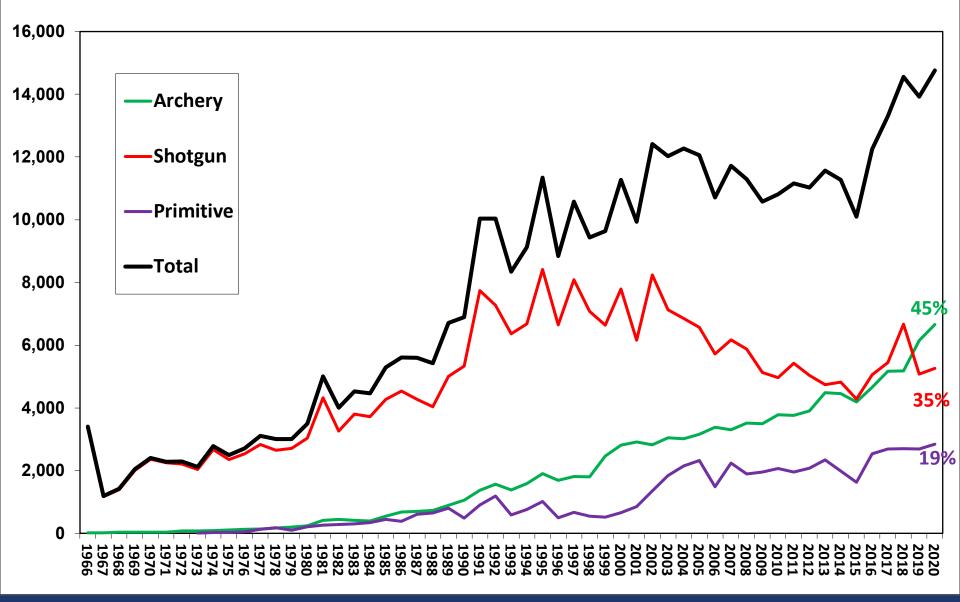
2020 Deer Harvest Summary

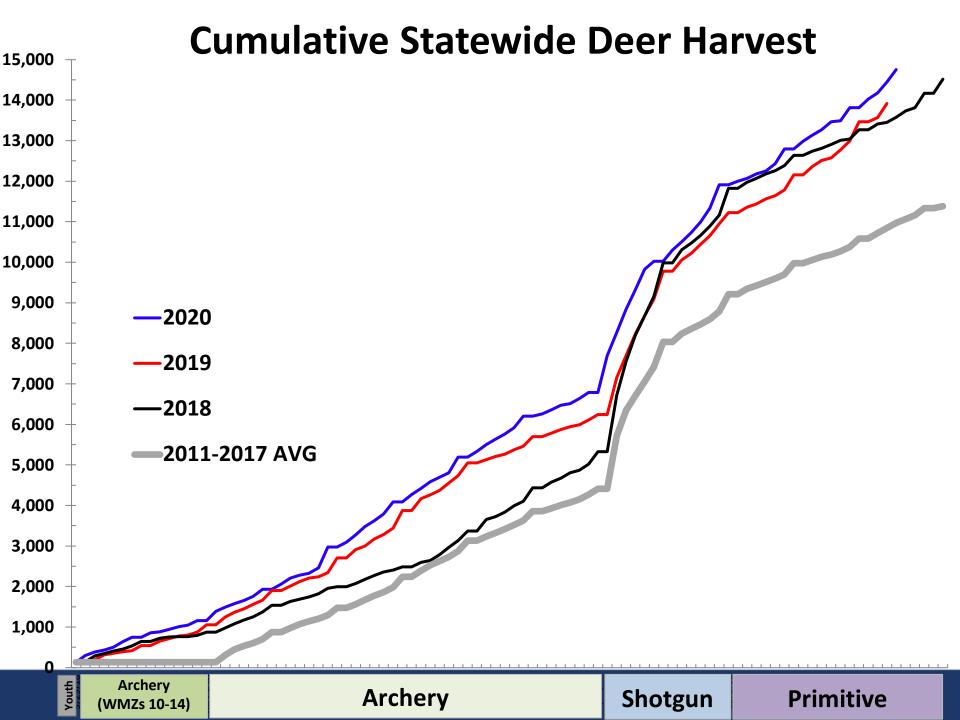
Statewide Harvest by Season

	AVG 2017-2019	2020	
Archery	5,502	6,655	New Record
Shotgun	5,575	5,138	Below AVG
Primitive	2,691	2,842	New Record
Youth/Para	118	131	
Total	13,887	14,757	New Record

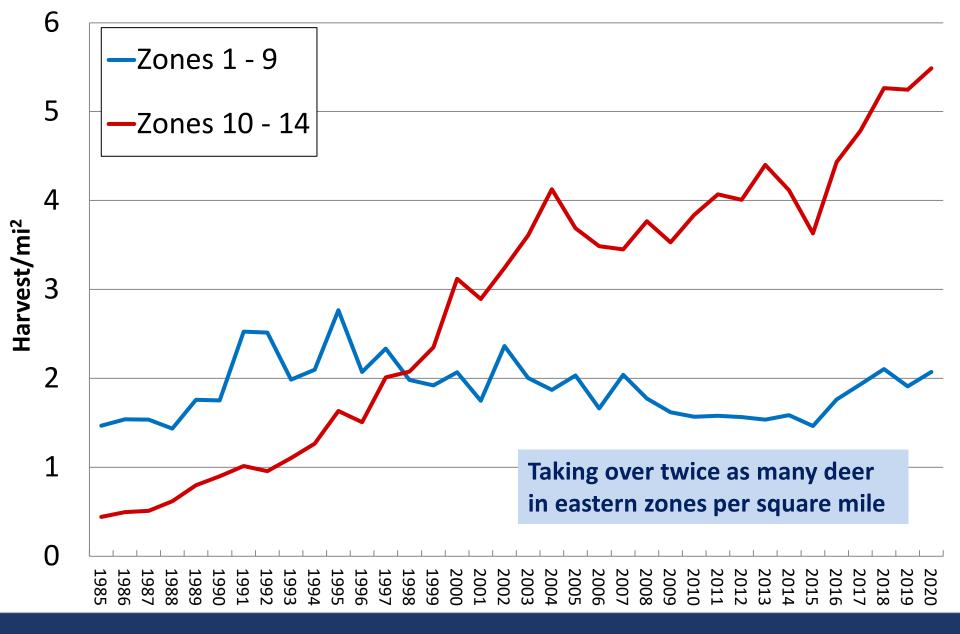
ADP allocations in 2020 were the same as 2019, but a record number of licenses were sold.

Total Statewide Deer Harvest





Average Deer Harvest per Square Mile (East vs. West)



2021-2022 Deer Season

- Youth Day : Oct 2
- Archery
 - Zones 1-9 : Oct. 4 Nov. 27
 - Zones 10-14 : Oct. 18 Nov. 27
- Shotgun *We will be operating biological deer check*
 - Nov. 29 Dec. 11
- Primitive
 - Dec. 13 Dec. 31

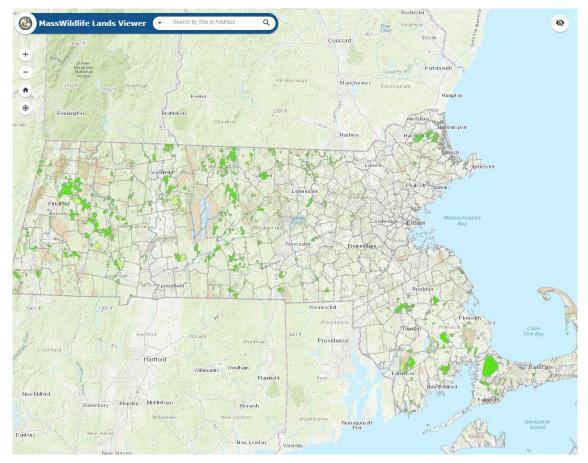
ADP Allocations – Same for 2021

2021 Antlerless Deer Permit allocations and odds of winning by Wildlife Management Zone

Zone	Allocation	Odds	Surplus
1	600	53%	0
2	300	20%	0
3	1,600	88%	0
4N	600	31%	0
4S	500	37%	0
5	1,500	47%	0
6	300	45%	0
7	2,400	89%	0
8	2,600	73%	0
9	5,500	100%	1,410
10	12,000	100%	9, 0 92
11	13,000	100%	7,770
12	1,000	84%	0
13	2,700	100%	2,526
14	2,700	100%	2,619

Where to Hunt

- Check out MassWildlife Lands Viewer
- Talk to landowners, particularly ag or garden groomed properties



2021 Issues

- MassFishHunt New License System will Debut Dec. 1st
- 2021 EHD Outbreak in NY State
 - Confirmed in 7 counties & Suspected in 9 counties
 - No Cases in Massachusetts
 - Does Not Impact Humans or Most Animals
 - If you see a deer that looks like it has a fever, swollen mouth, neck, or tongue, hemorrhaging, or dead bodies near water contact your local DFW District office.

Questions – Pre-Submitted

- What plants do deer like to eat and what are their favorite?
- Why is it that moose are dying from ticks, and deer in the same areas don't seem to be affected?
- Does F&G have plans to figure out how to expand hunting opportunities where the deer populations are highest, i.e., eastern MA?
- Why is the season scheduled when it is with the rut only during archery?
- Is Chronic Wasting Disease becoming a concern in MA?
- I keep seeing bucks sparring on my trail cams in late August, that seems too early, is this a sign that hunting season should be starting earlier?
- Are Moose coming into the area?
- What is the typical range of deer in our area? I've seen a buck on my trail cam at the club show up across town crossing the road in front of me. A very unique antler profile made this an exact match. That is several miles. Is that normal?



QUESTIONS or Comments?

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mass.gov/masswildlife

