



# Reserve Forestland Analysis

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DEPARTMENT OF FORESTS, PARKS, AND RECREATION

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April 29, 2021

# Using Significant and Sensitive Ecological Conditions as a Method for Establishing Parcel Eligibility for Passive and Restorative Management Towards Old Forest Conditions

- Parcels exceeding a certain threshold of ecologically significant or sensitive conditions could be eligible to be managed for old forest without timber as a required objective.
- Restorative and or passive management of the forest could be an eligible management strategy across these parcels.
- Easements requiring passive management of the forest may not preclude eligibility on these parcels.



# Is and is not:

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## IS A STRATEGY TO

Expand eligibility of restorative or passive management for old forests in UVA.

Complement the working lands focus of the program by focusing opportunities for attainment of old forests on those lands that have significant or sensitive ecological conditions.

Reduce barriers for eligibility of parcels with forever wild easements.

Support continued active management on those parcels with the fewest barriers to active management.

## IS NOT A STRATEGY TO

Maximize eligibility of old forest across the program.

Incentivize easements by conditioning eligibility on existence of an easement.

Fully or exclusively address the old forest targets in VCD.

# Preliminary Analysis:

On UVA enrolled or potentially eligible parcels identify:

- **Vernal pools** (Mapped vernal pools + 100' buffer)
- **Riparian Areas** (Blue line streams and surface water + 100' buffer)
- **Natural Communities** (S1 or S2 natural community types, with an occurrence rank of A, B or C or S3 natural community types with an occurrence rank of A or B)
- **RTE Species** (Use the Nat. Heritage polygon (Need to discuss further with F&W))
- **Wetlands of any type/Surface waters less than 20 acres**
- **Steep Slopes** (over 35%)

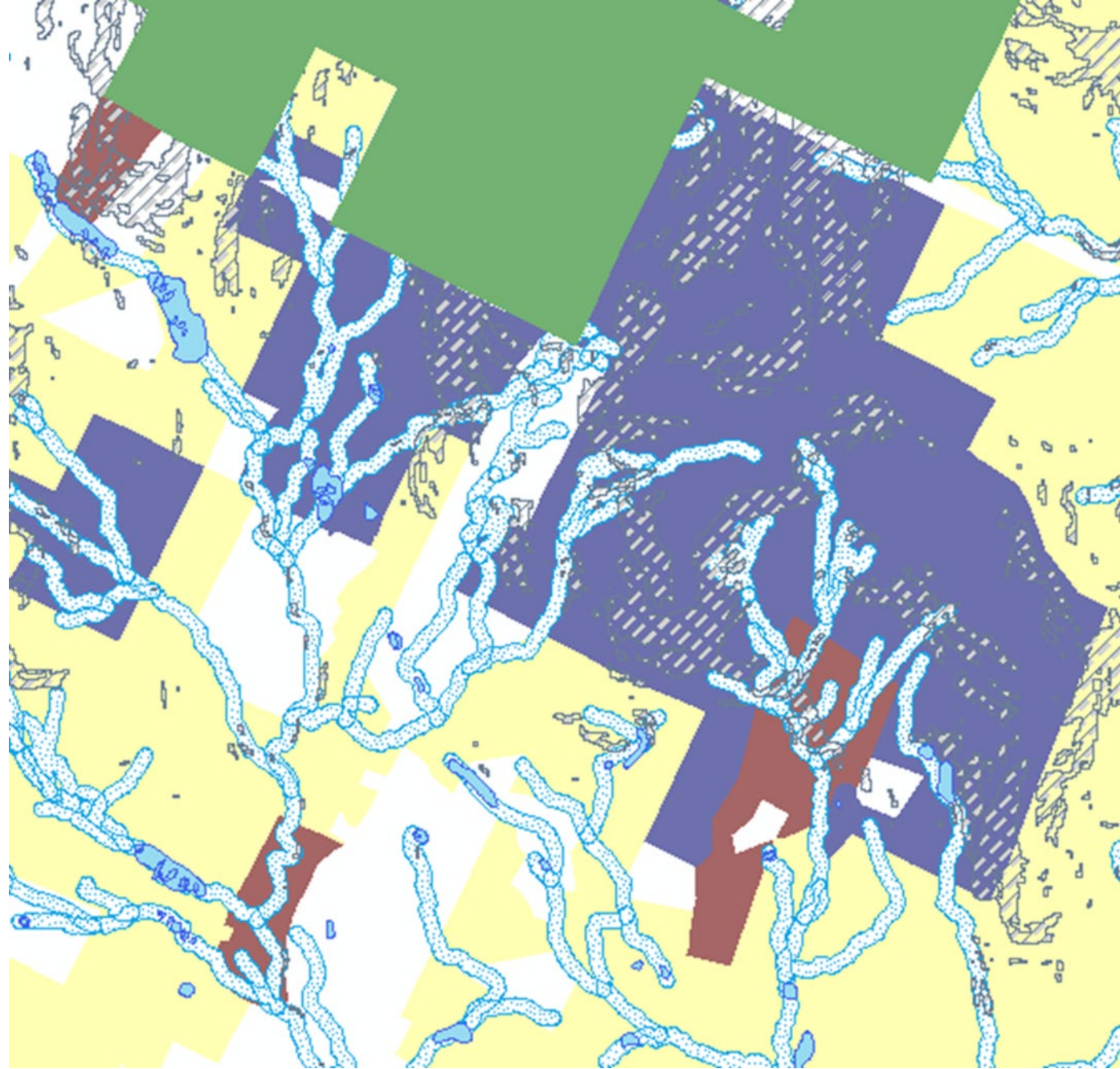
We stacked all of these conditions on top of each other and calculated the total % of each parcel in one or more of these conditions.

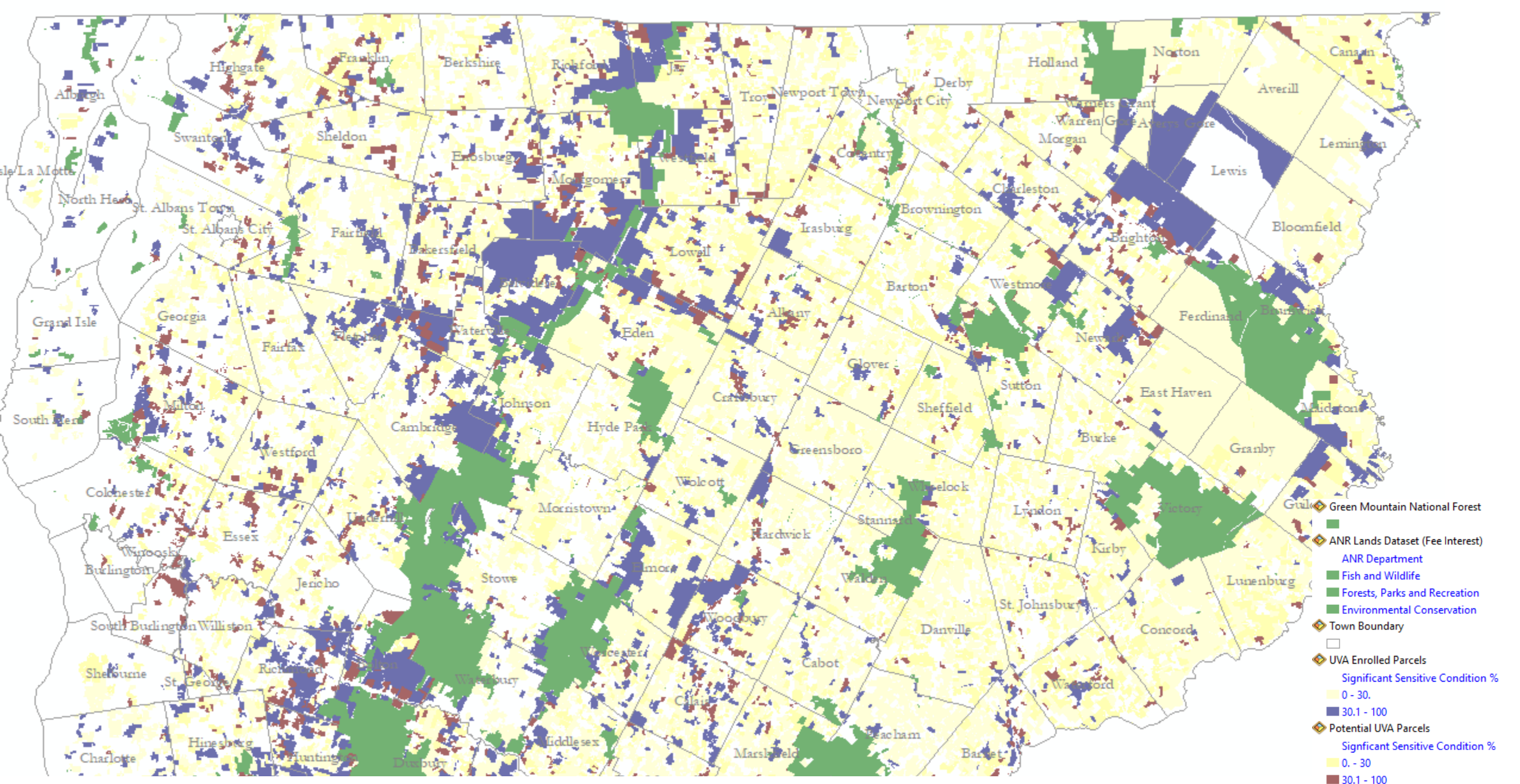


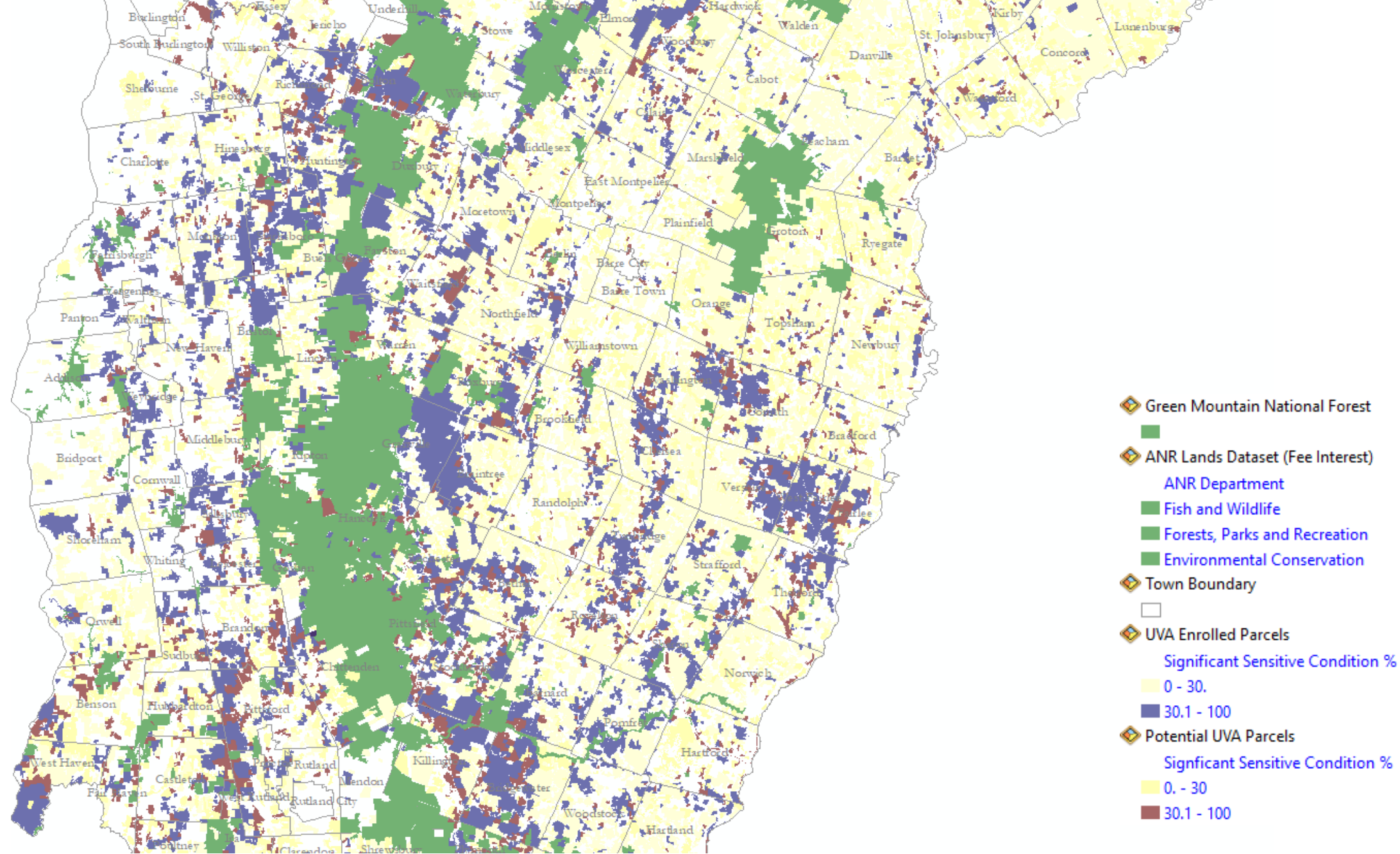
## The Initial Results:

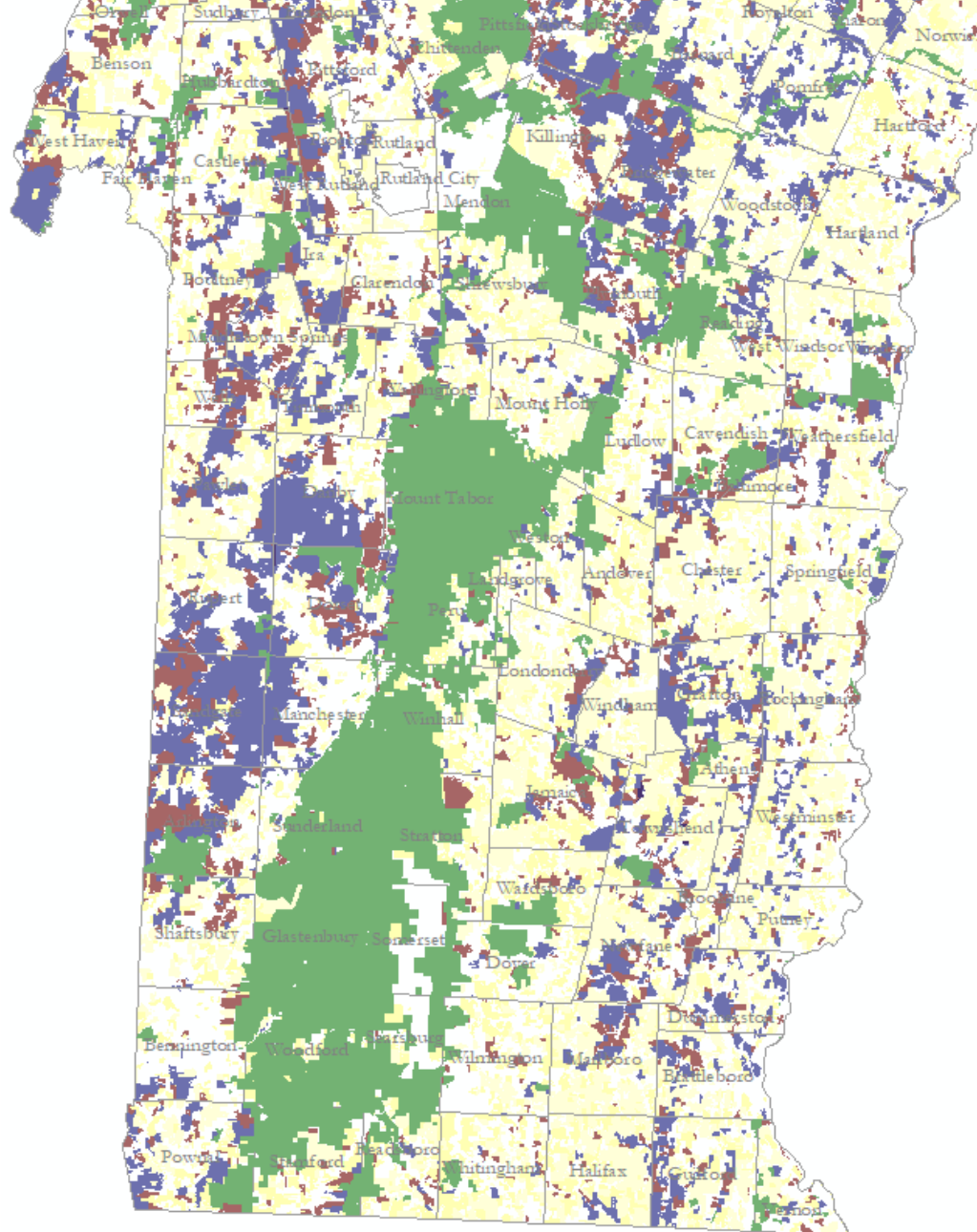
The following maps illustrate the results of the analysis when greater than **30%** of the parcel is occupied by significant/sensitive conditions identified.\*





\*This analysis would not define eligibility; it would be defined by conditions demonstrated on the ground.









-  Green Mountain National Forest
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-  ANR Lands Dataset (Fee Interest)
  - ANR Department
  -  Fish and Wildlife
  -  Forests, Parks and Recreation
  -  Environmental Conservation
-  Town Boundary
-  UVA Enrolled Parcels
  - Significant Sensitive Condition %
  -  0 - 30.
  -  30.1 - 100
-  Potential UVA Parcels
  - Significant Sensitive Condition %
  -  0. - 30
  -  30.1 - 100

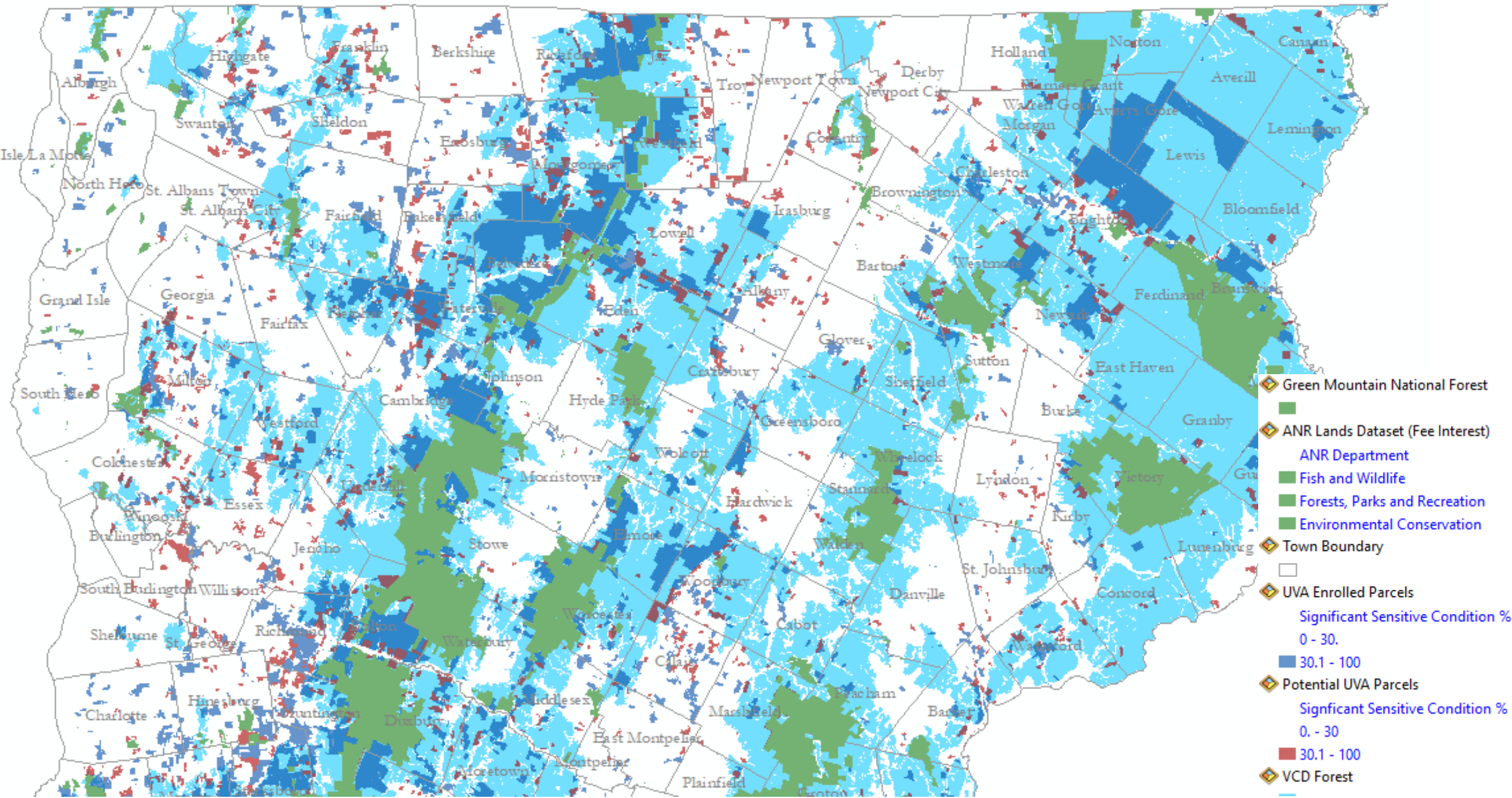


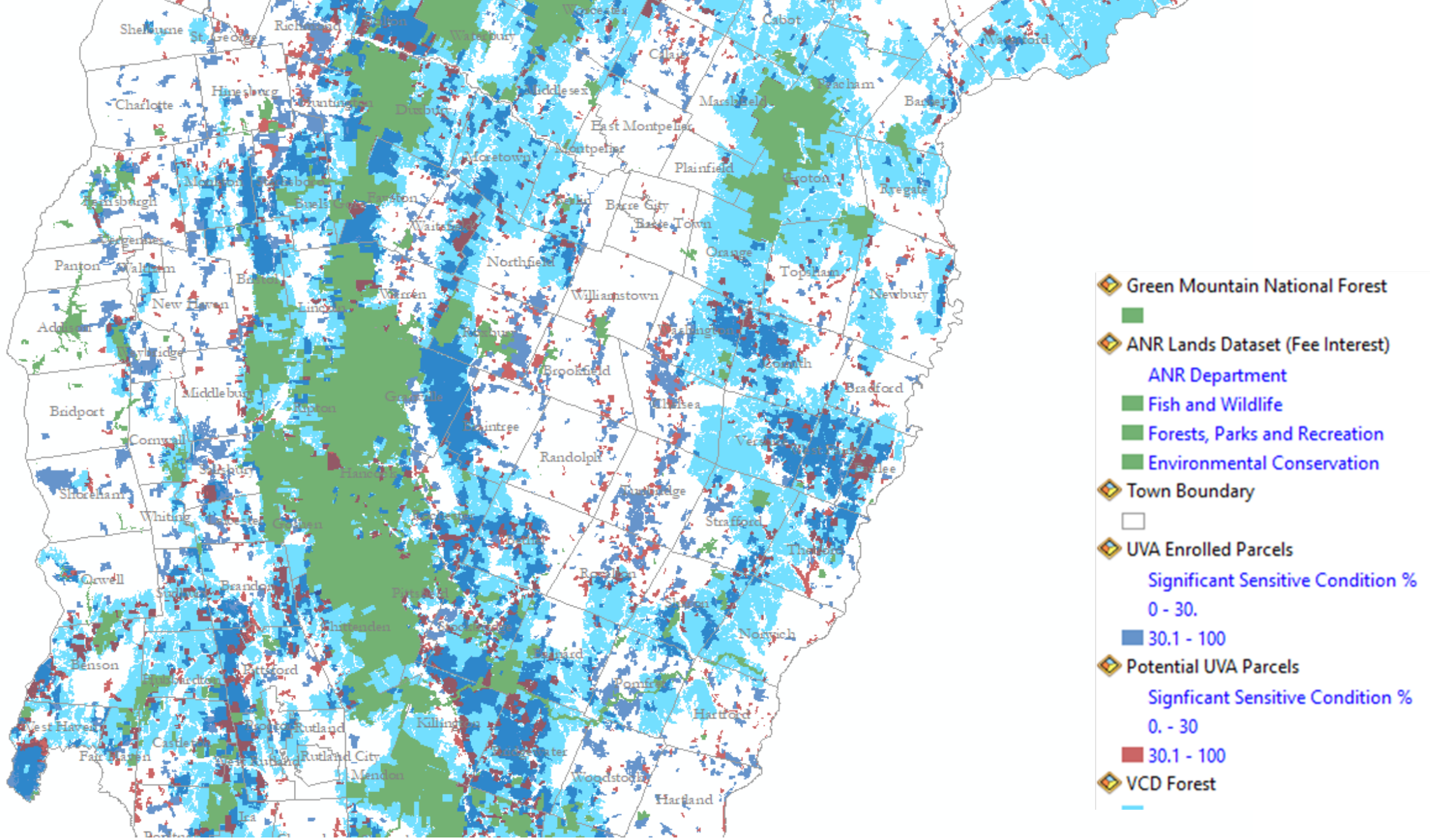
# Acres of Significant and Sensitive Condition Types















Parcel Size	Forest Parcels	Vernal (ac)	Riparian (ac)	>35% (ac)	Nat comS1S2	Nat comS3Ac	RTE NATCOMA	Wetland (ac)
0	130	11	1,576	1,699	0	0	124	1,085
.1 - 49	5641	170	27,538	21,502	0	6	4,384	13,407
50 - 99	4822	331	41,944	41,638	0	20	8,223	22,450
100 - 499	4674	943	92,812	130,049	1	128	20,902	47,206
500 - 999	236	132	14,381	29,465	0	100	3,942	6,297
1000 - 4999	138	141	23,827	53,096	6	279	8,919	8,785
5000+	14	26	10,137	11,344	0	1	4,402	4,588
(blank)		6	595	670	0	0	60	313
<b>Grand Total</b>	<b>15,655</b>	<b>1,760</b>	<b>212,809</b>	<b>289,464</b>	<b>7</b>	<b>533</b>	<b>50,956</b>	<b>104,131</b>

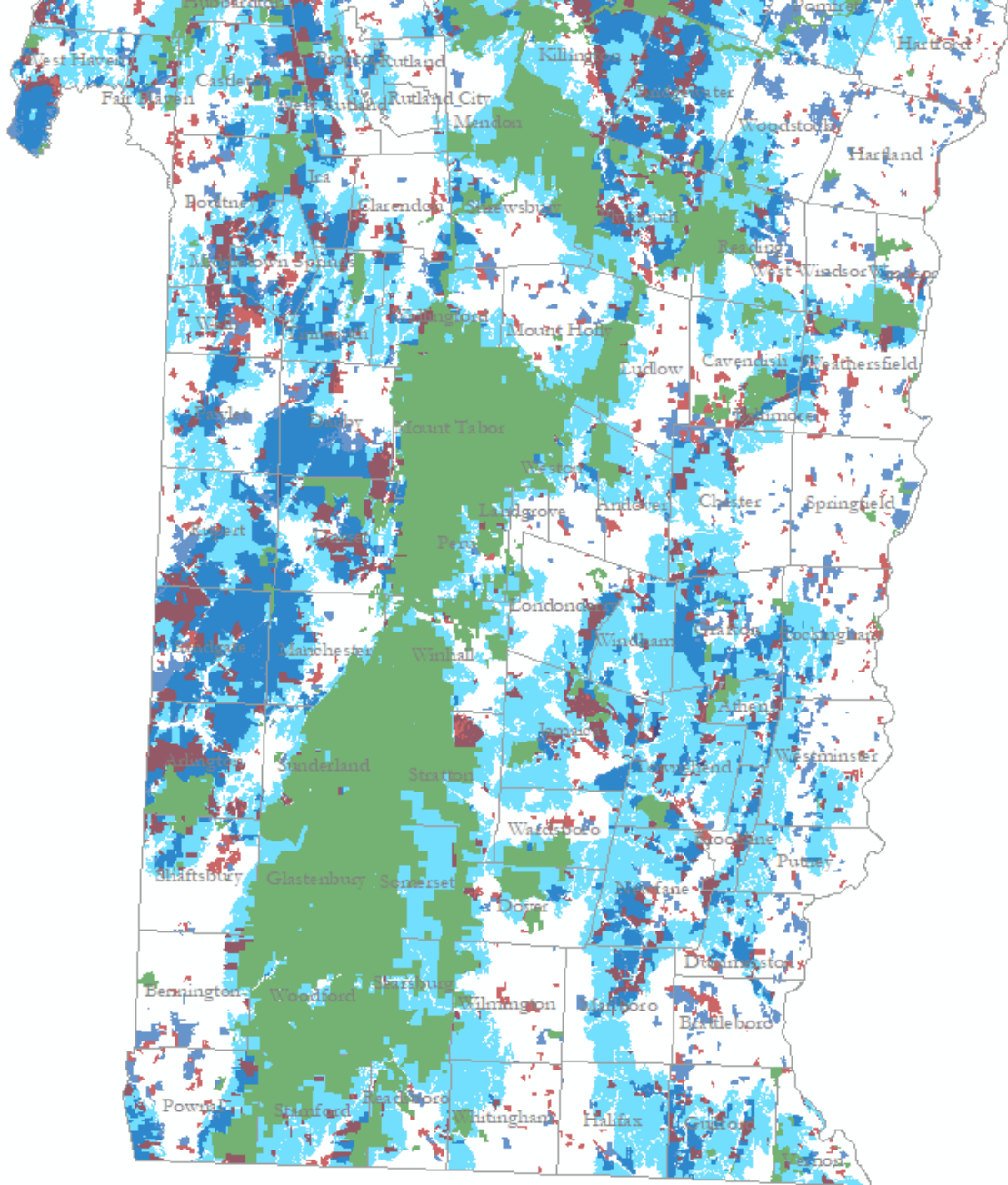
# Parcel Size Class Eligibility

Parcel Size Class	# of Parcels >30%	% of Parcels >30%	Total Parcels/Size Cls
0	37	28	130
.1 - 49	1475	26	5647
50 - 99	1221	25	4823
100 - 499	1319	28	4674
500 - 999	87	37	236
1000 - 4999	67	49	138
5000+	4	29	14
<b>Grand Total</b>	<b>4210</b>		<b>15716</b>





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# Acres of UVA enrolled parcels by % threshold

	<b>Parcels</b>	<b>Sig Sens Acres</b>	<b>Forestland Acres</b>	<b>Riparian Acres</b>	<b>Productive Forest Tradeoff</b>
>30%	4210	362,000	607,000	79493	324,493
>40%	2290	242,000	337,000	41942	136,942
>50%	1240	144,000	159,000	19527	34,527
>60%	728	92,301	85,708	9869	3,276



Questions?