Virginia proposed Land Use change results

Tom Butler, EPA

1/10/2025

The goal today:

Proposed decisions:

Alter the Land Uses in CAST to represent, Managed and Unmanaged Hay as well as Managed and Unmanaged Pasture.

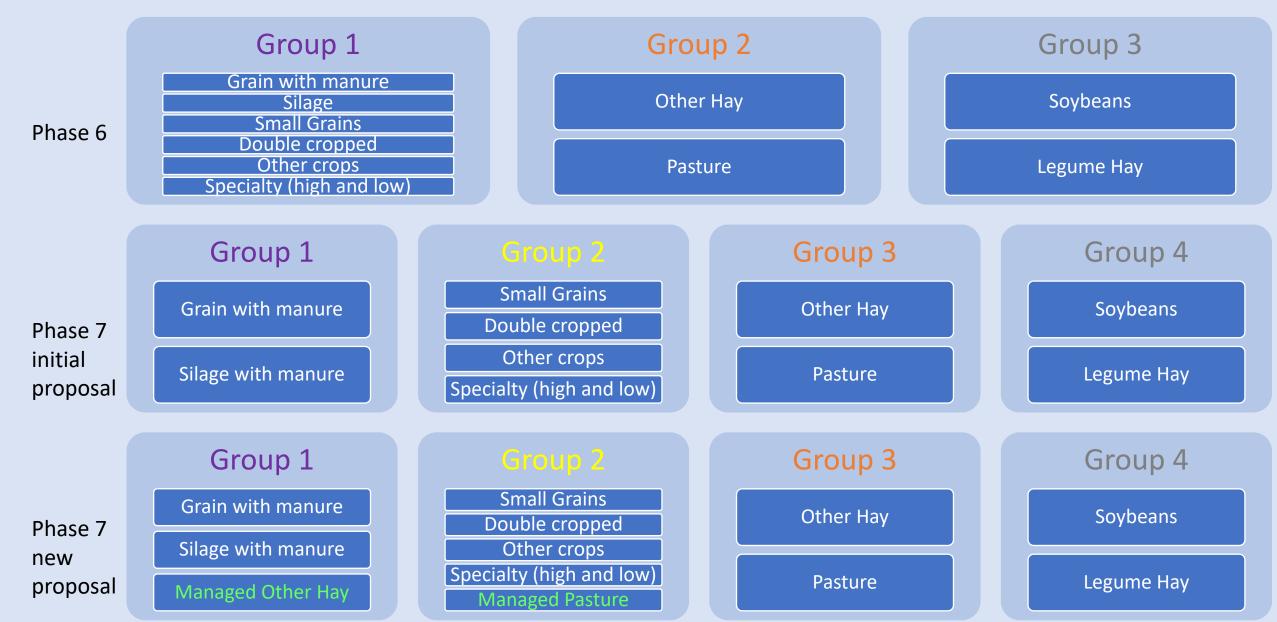
Modify the manure spread algorithm to create a fourth group as proposed by Virginia for Phase 7.

How it started:

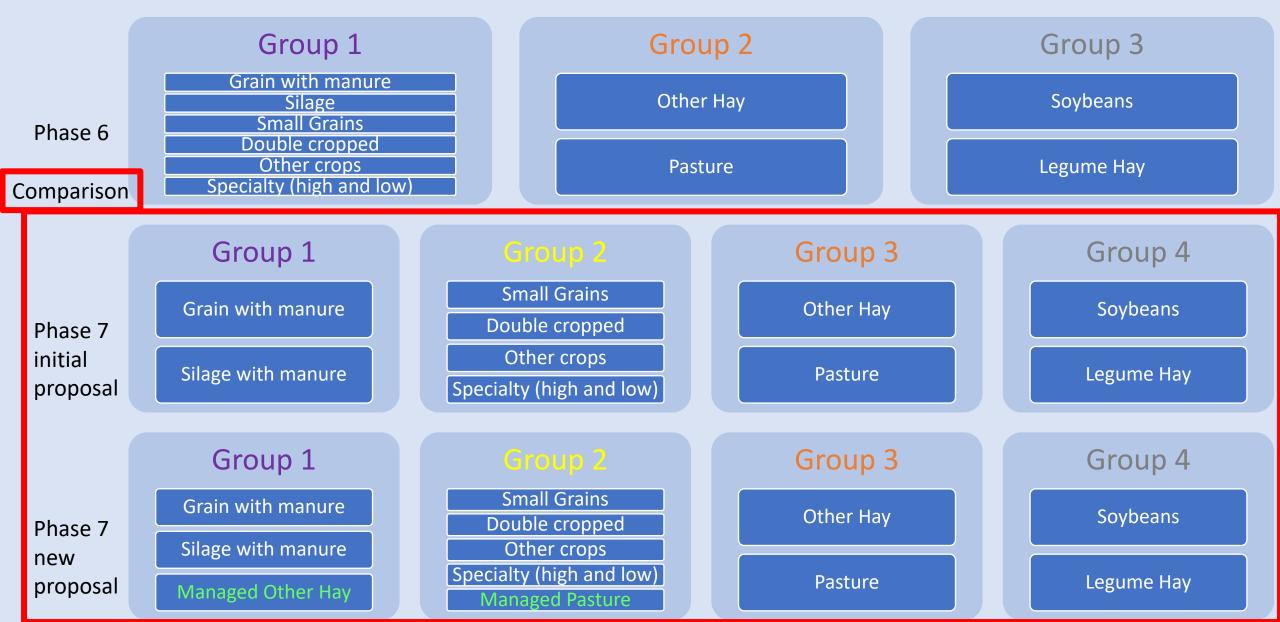
10/11/2024 To what extent do you agree with the following: Should the manure spread algorithm be modified to create a fourth group as shown in this presentation?

Role	Name	Affiliation	Vote		Notes		
Signatory	Clint Gill	DE		4			
	Alisha						
		MD		4			
	Cassie						
	Davis Scott Heidel	NY		4			
				4			
	Tim Larson	VA		2		concerns about pa	sture
	Dave						
	Montali	WV		4			
	Jeff						
e		EPA		4			
	y					step in the right direction, worried about	
	Ken Staver	UMD		4		legumes not getting	
		USDA-					
	Tamie Veith			4			
		USDA-					
-		NRCS		4			
	Alex Soroka	USGS		4			
	Zach	· / -					
	Easton	VT		4			
Stop		Hold		Stand Aside	Ag	ree with	Endorse
				re		servations	
1		2		3	4		5

Recap: Multiple iterations



Recap: Multiple iterations



What is in the new proposal?

Application rates for hay and pasture are changed to:

- N=120 and P=40 for managed hay (all crops)
- N=60 and P=30 for managed pasture

25% of hay acres = managed

10% of pasture acres = managed

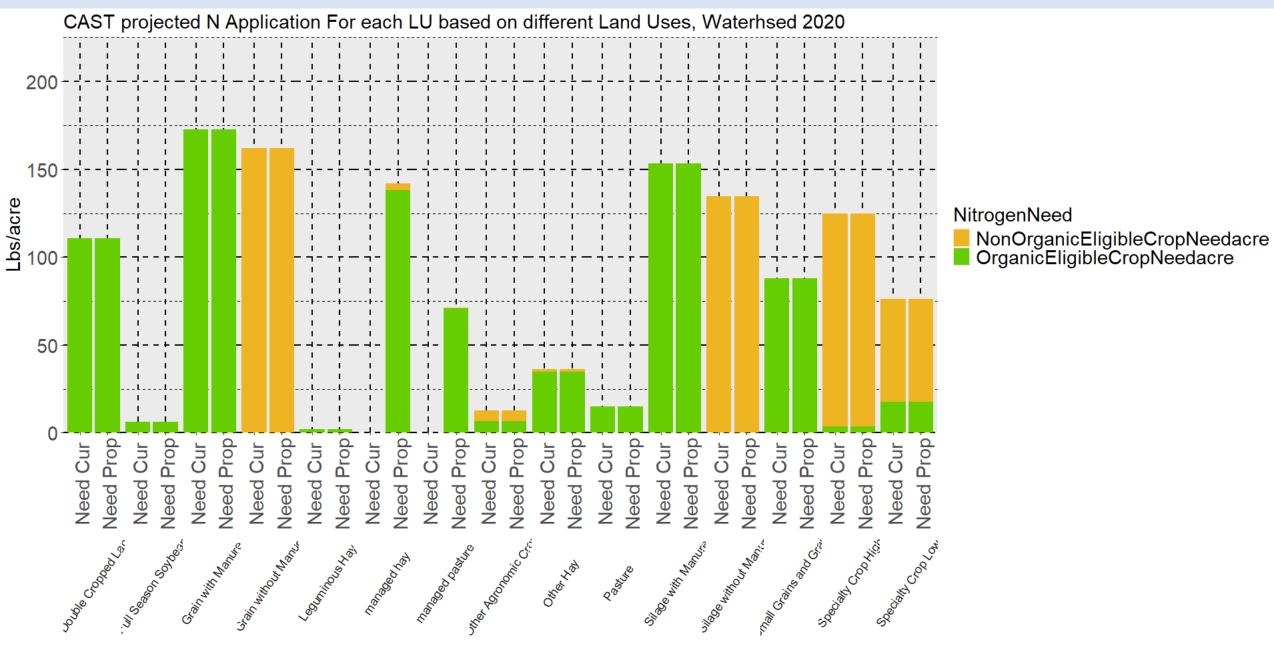
N NonNM factor for managed hay and pasture = 1.2

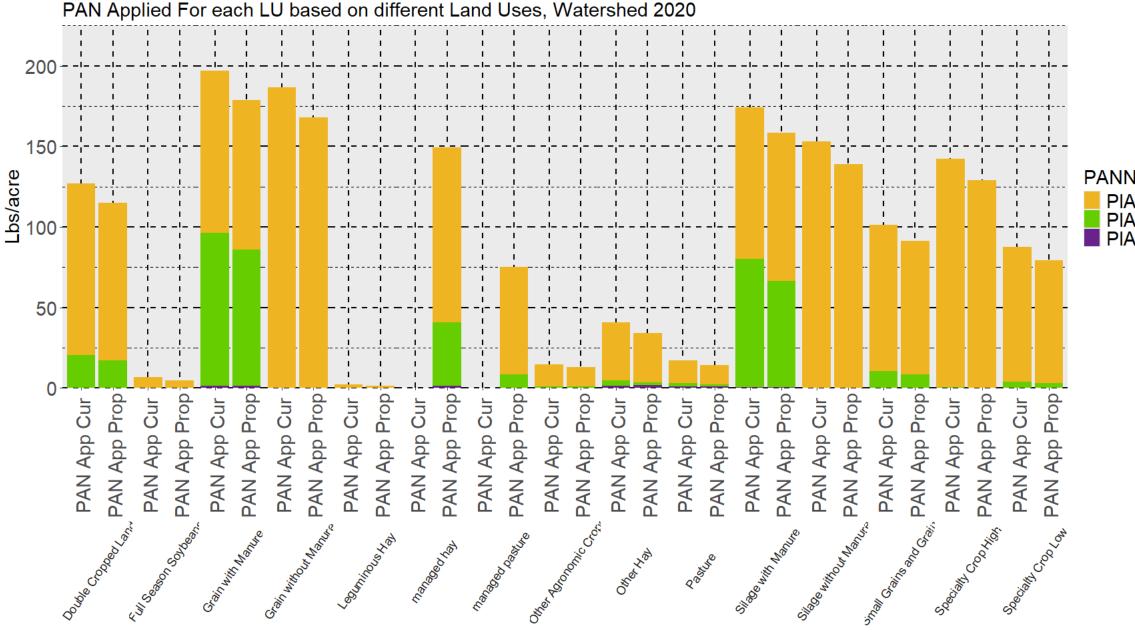
P NonNM factor for managed hay and pasture = 1.0

Summary

- Three scenarios have existed
 - 1. Phase 6
 - 1. Three application curves
 - 2. Phase 7 initial proposal
 - 1. Four application curves
 - 3. Phase 7 new proposal
 - 1. Four application curves
 - 2. New managed Pasture and Hay categories
- Compared scenarios Two and Three
 - Phase 7 initial (current) vs Phase 7 new (proposed)

What happens across the watershed?

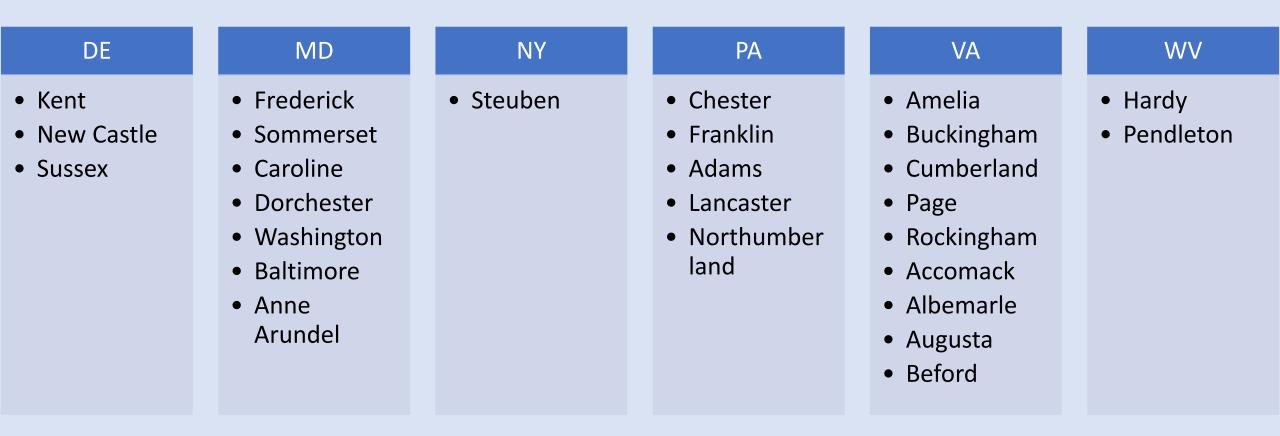




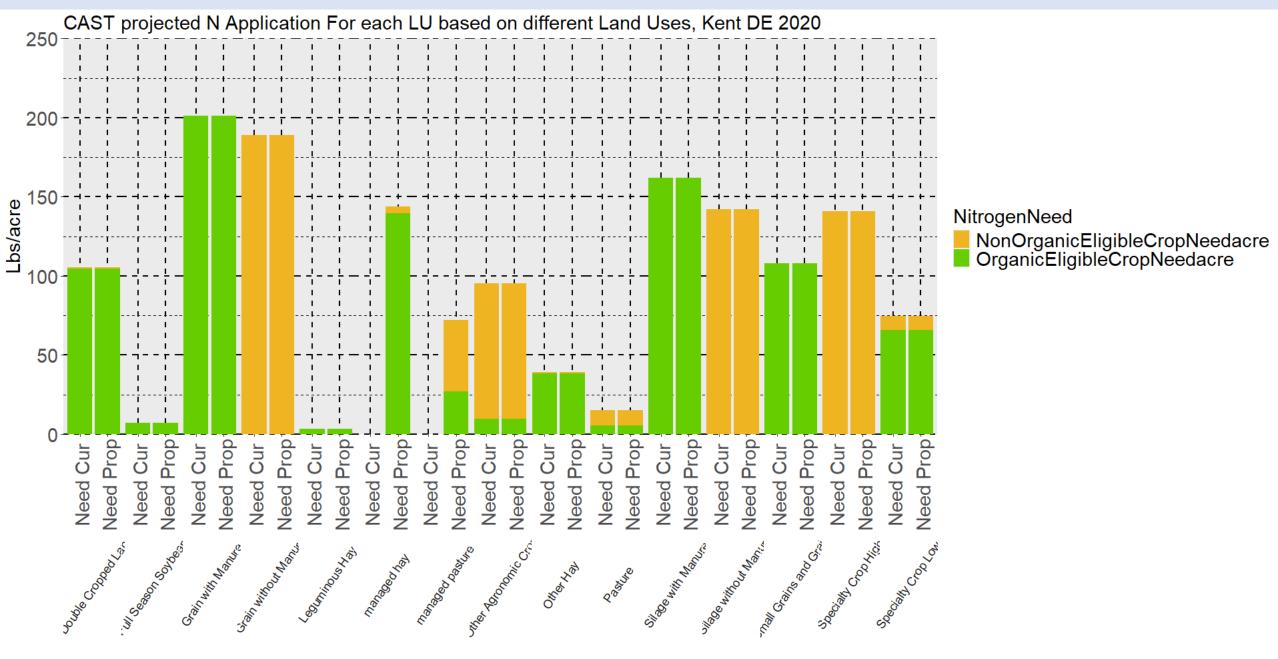
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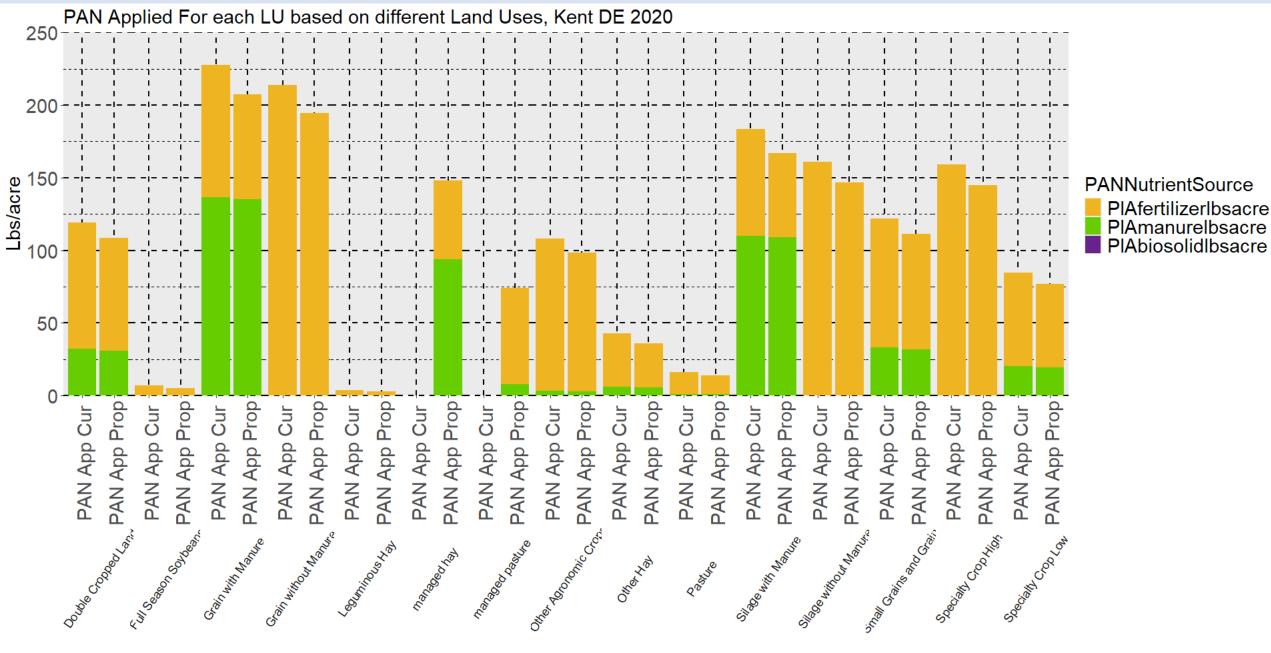
Land Use

County requests for comparison

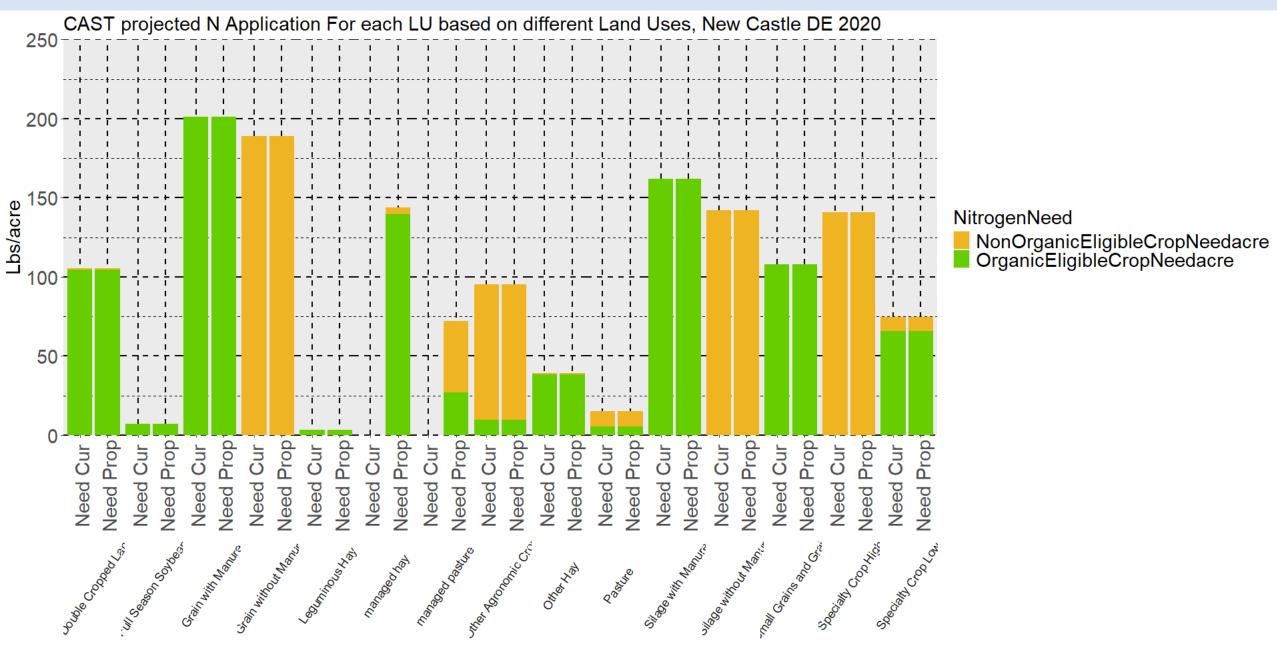


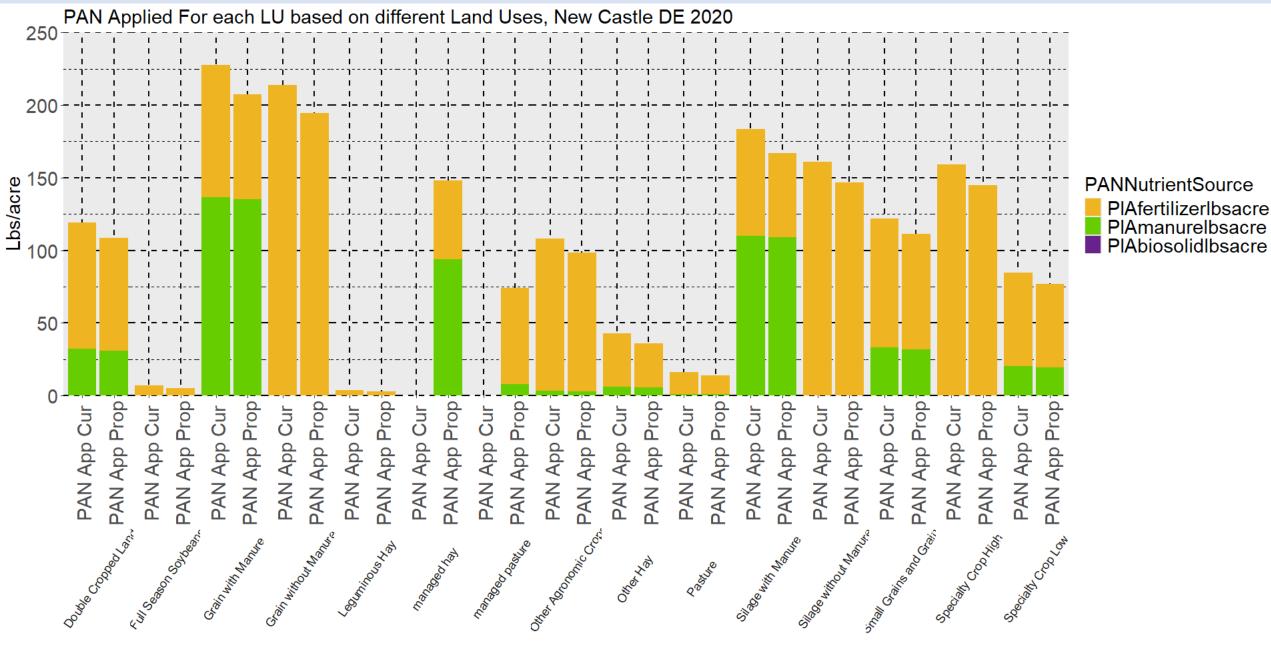
Kent, DE



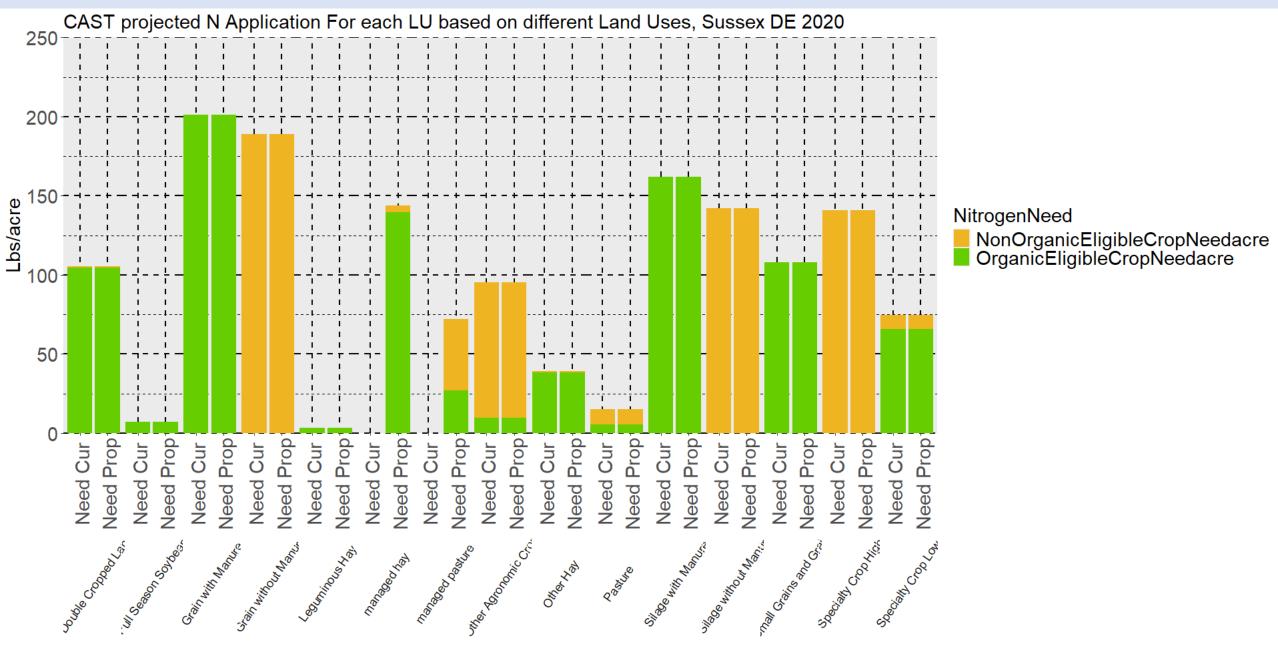


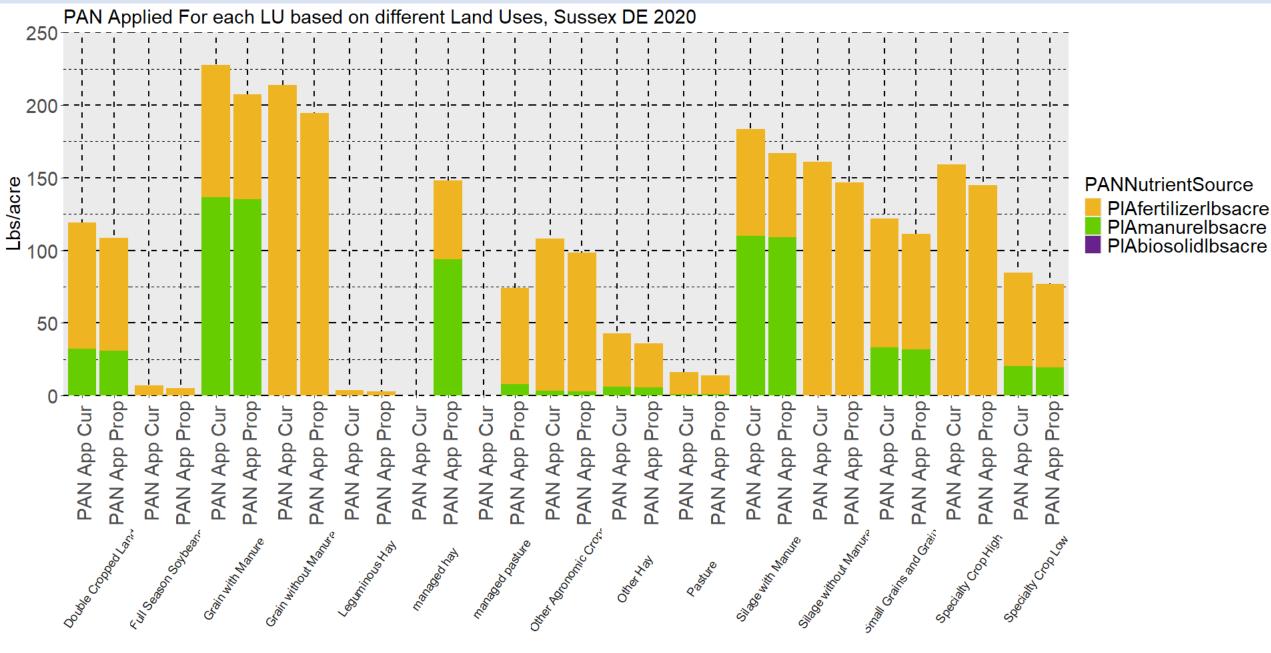
New Castle, DE



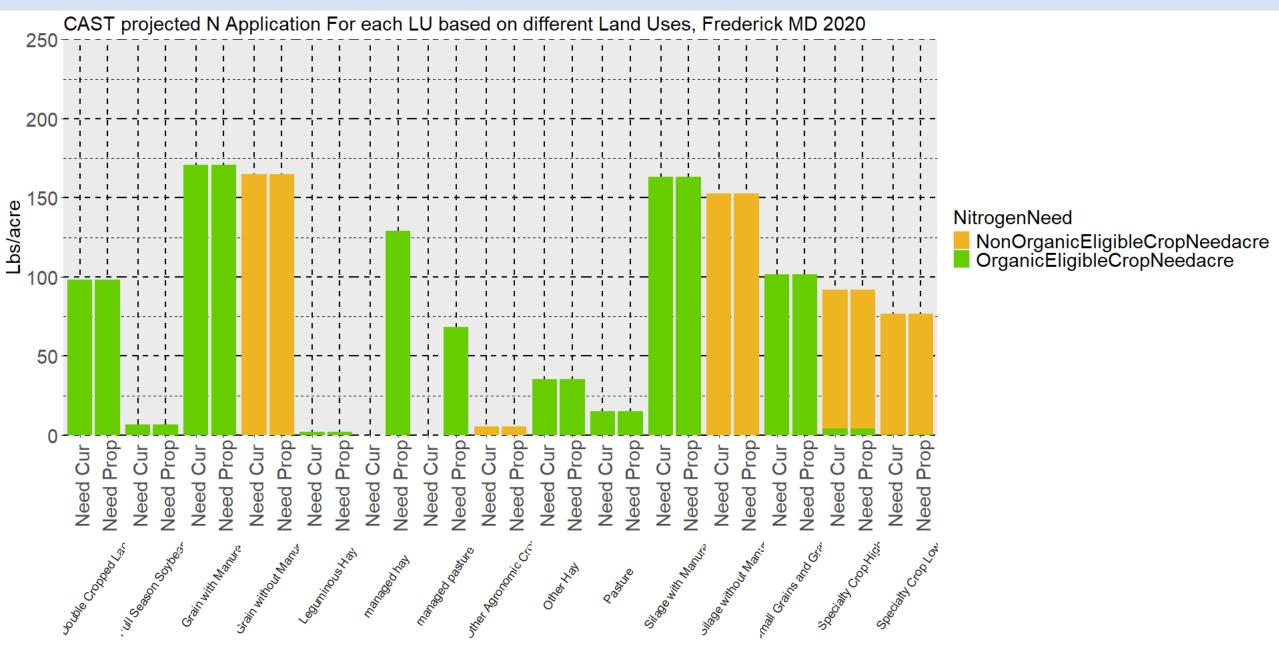


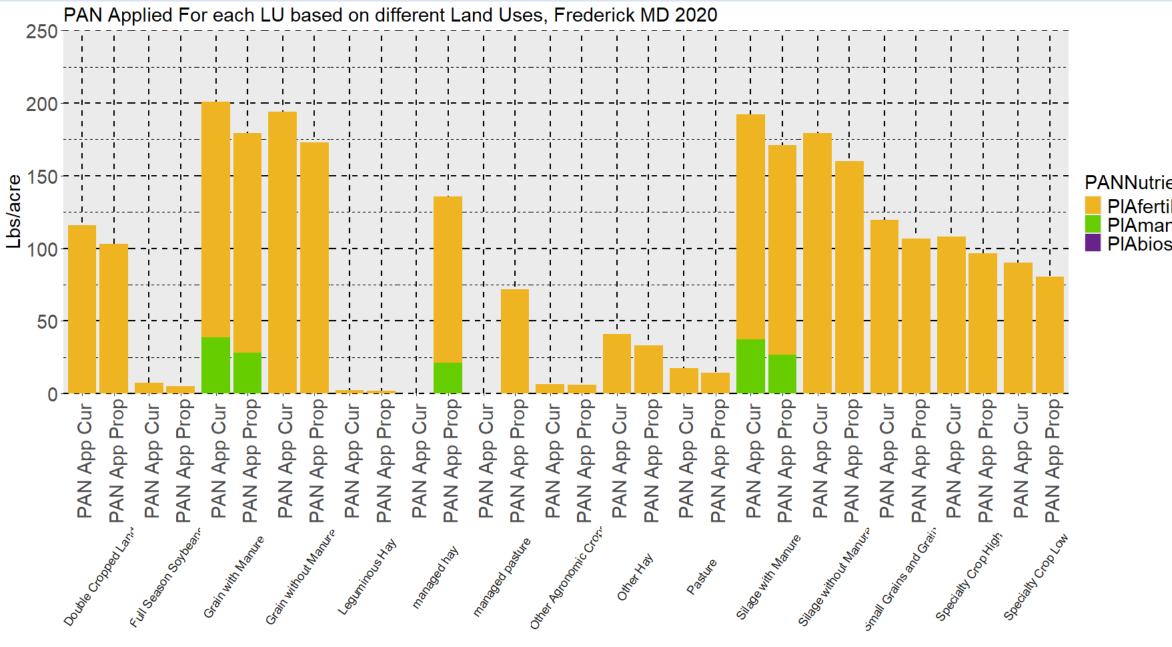






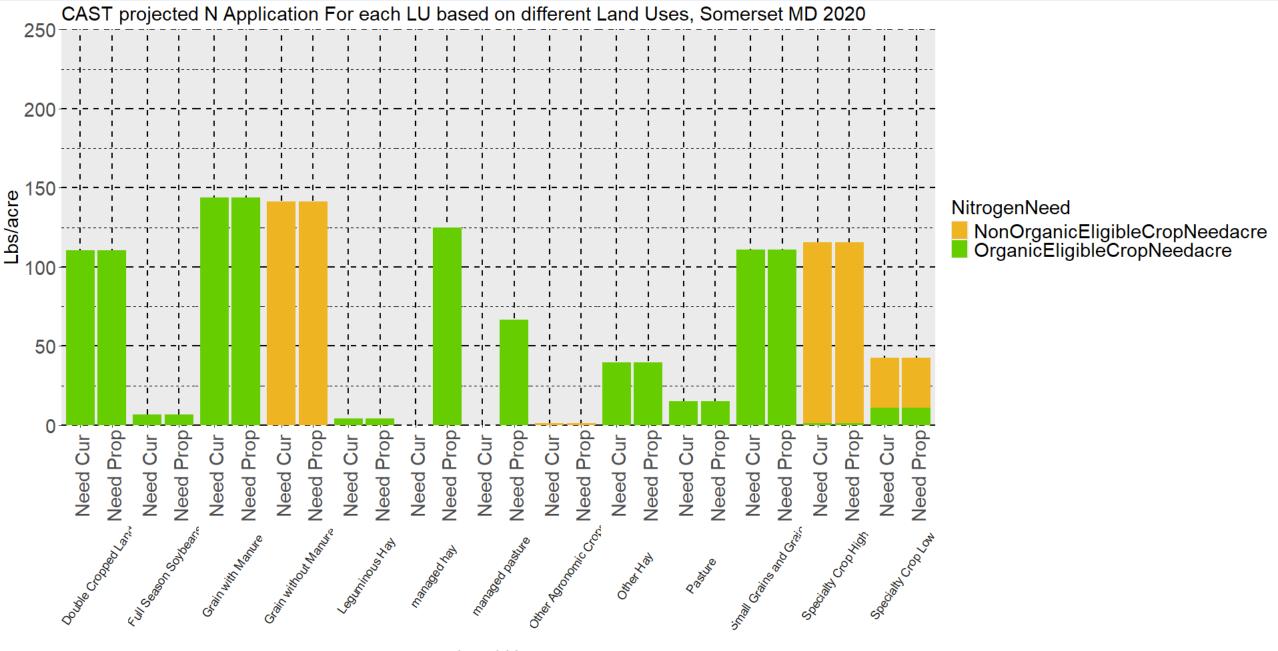
Frederick, MD

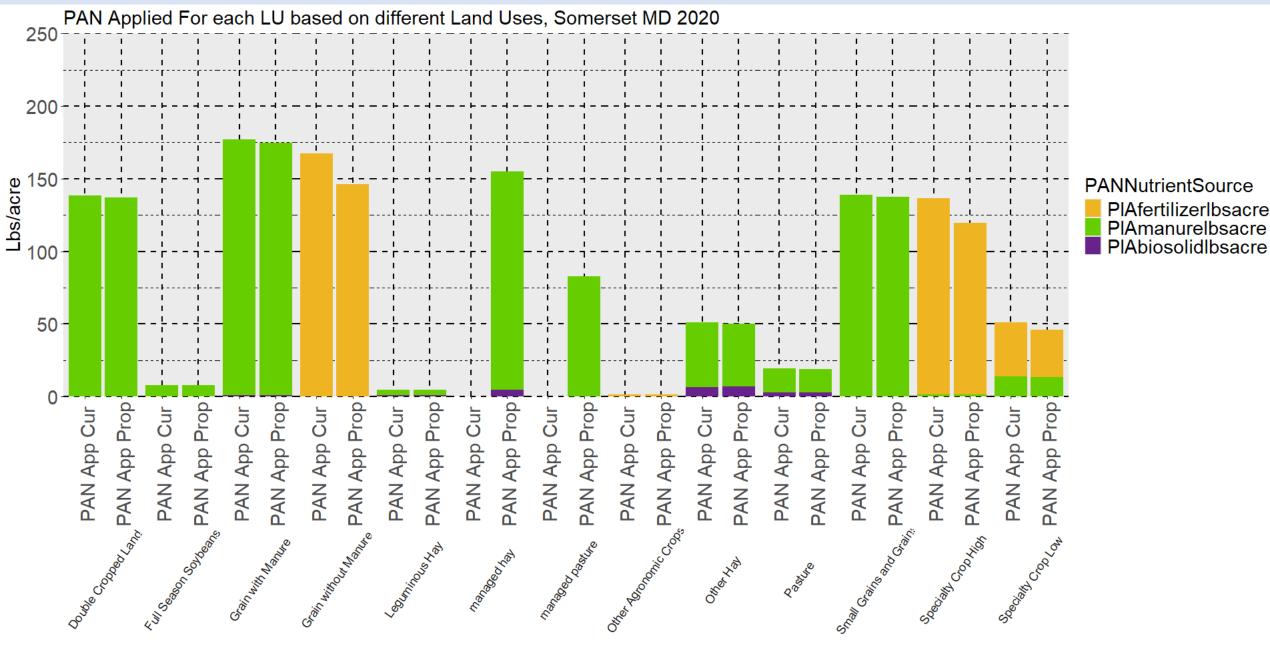




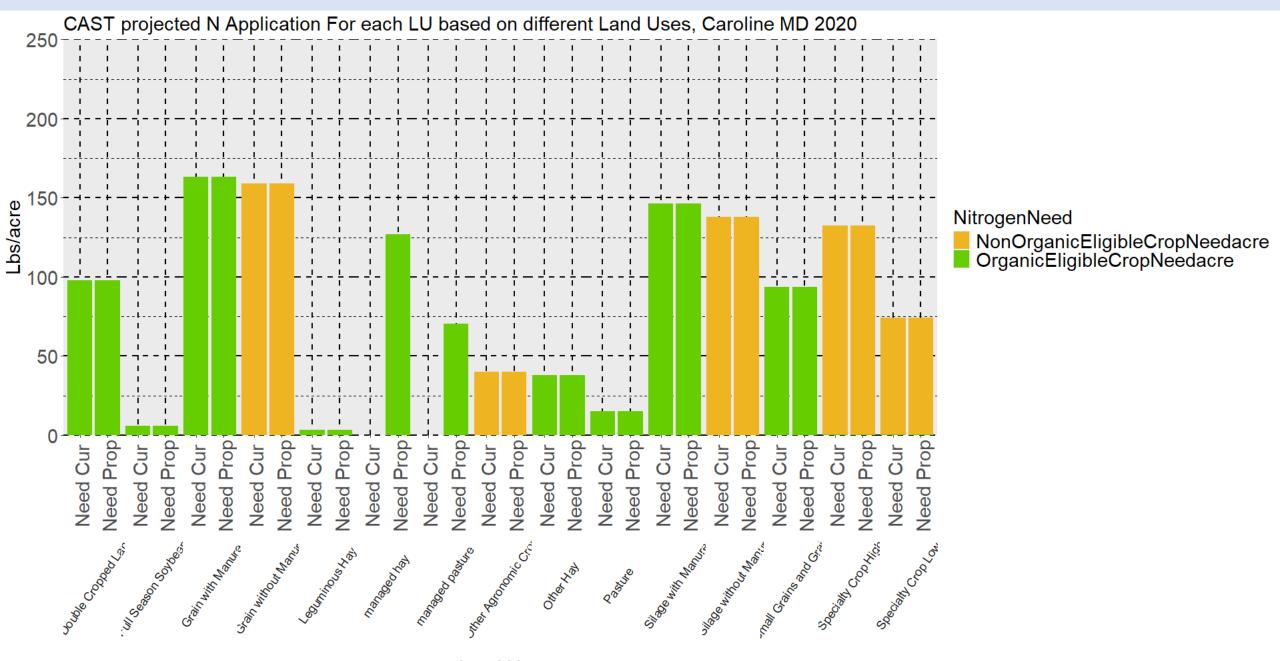
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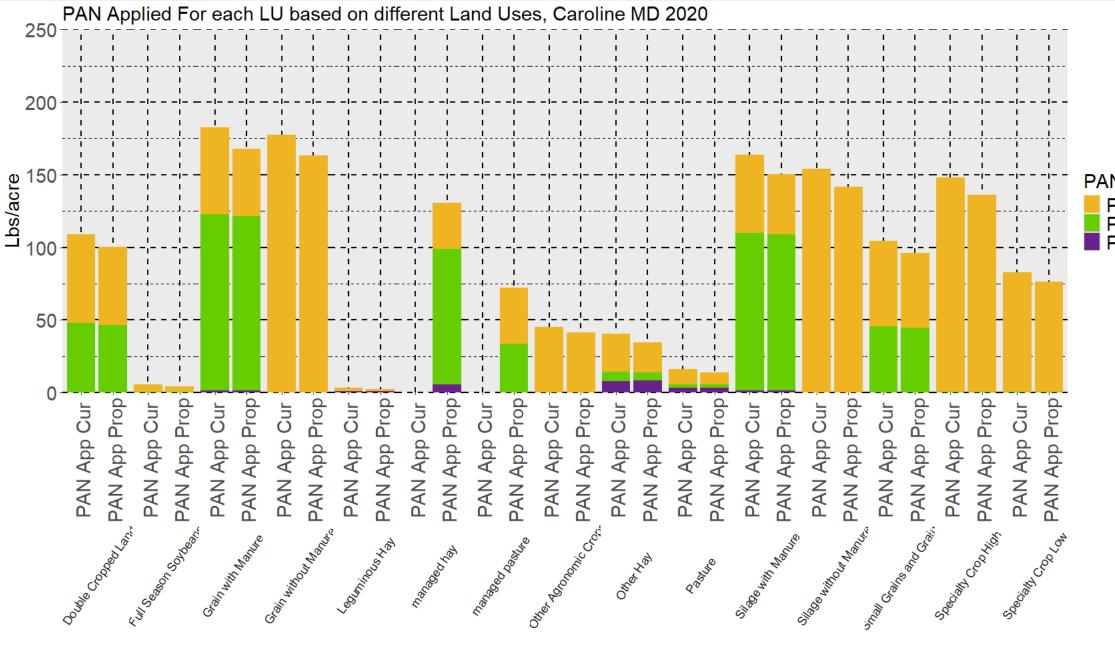
Somerset, MD





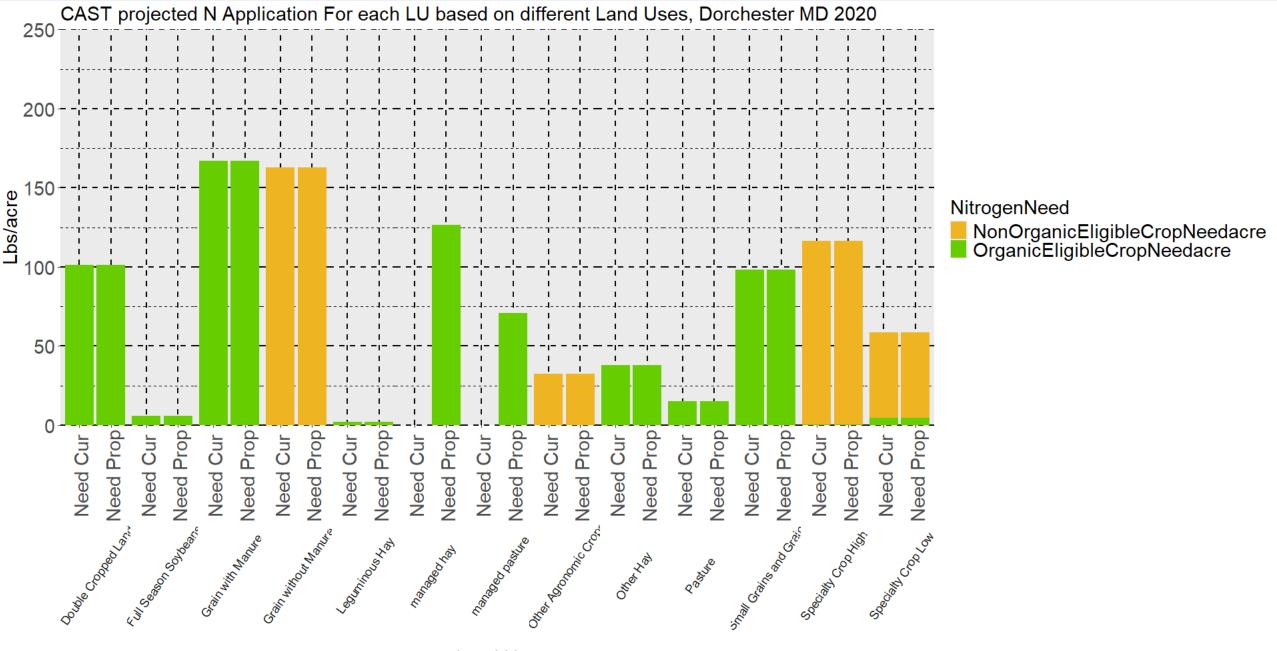
Caroline, MD

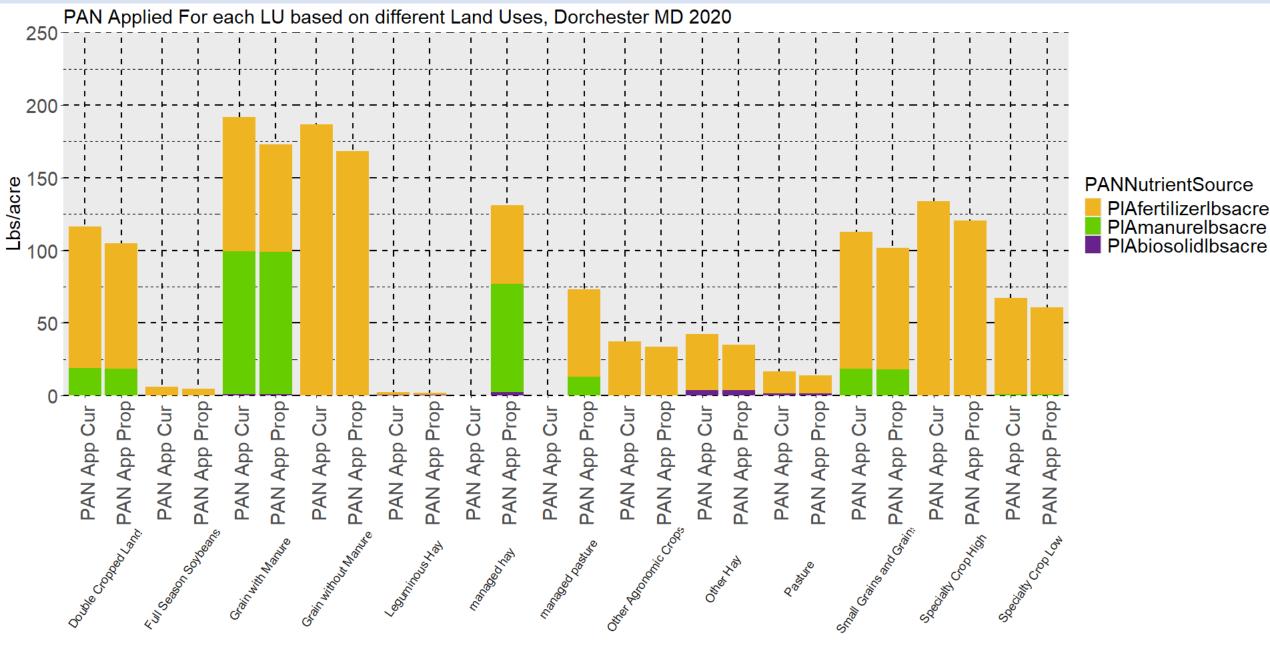




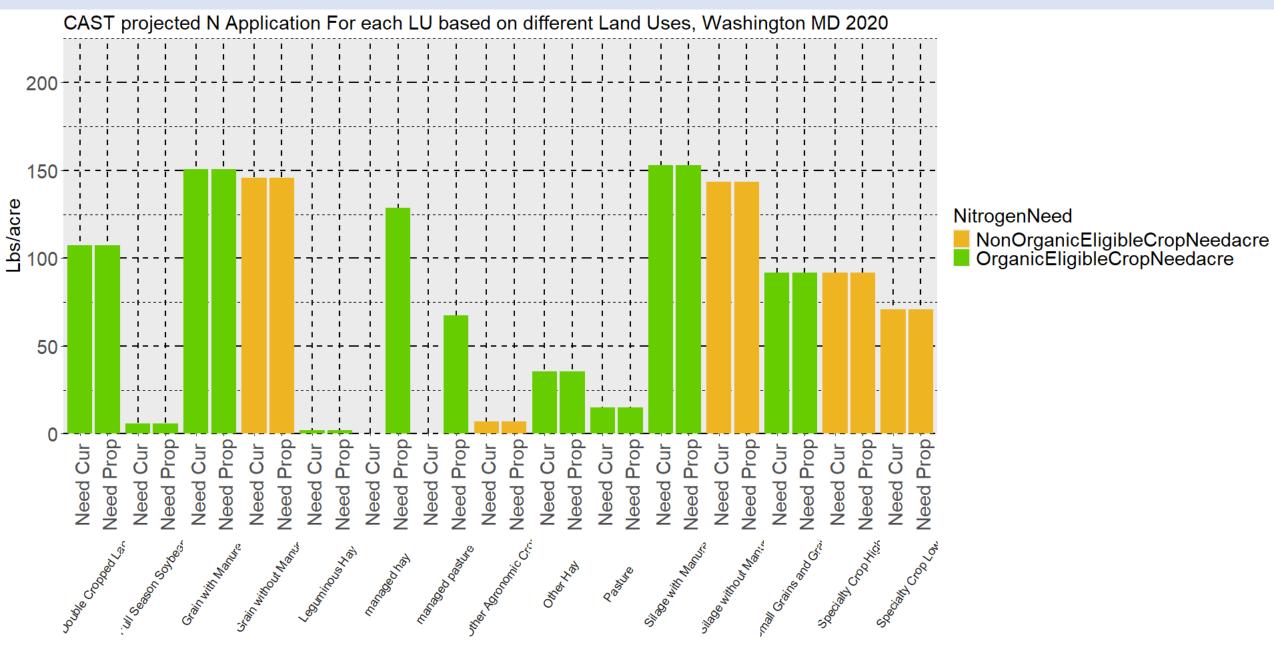
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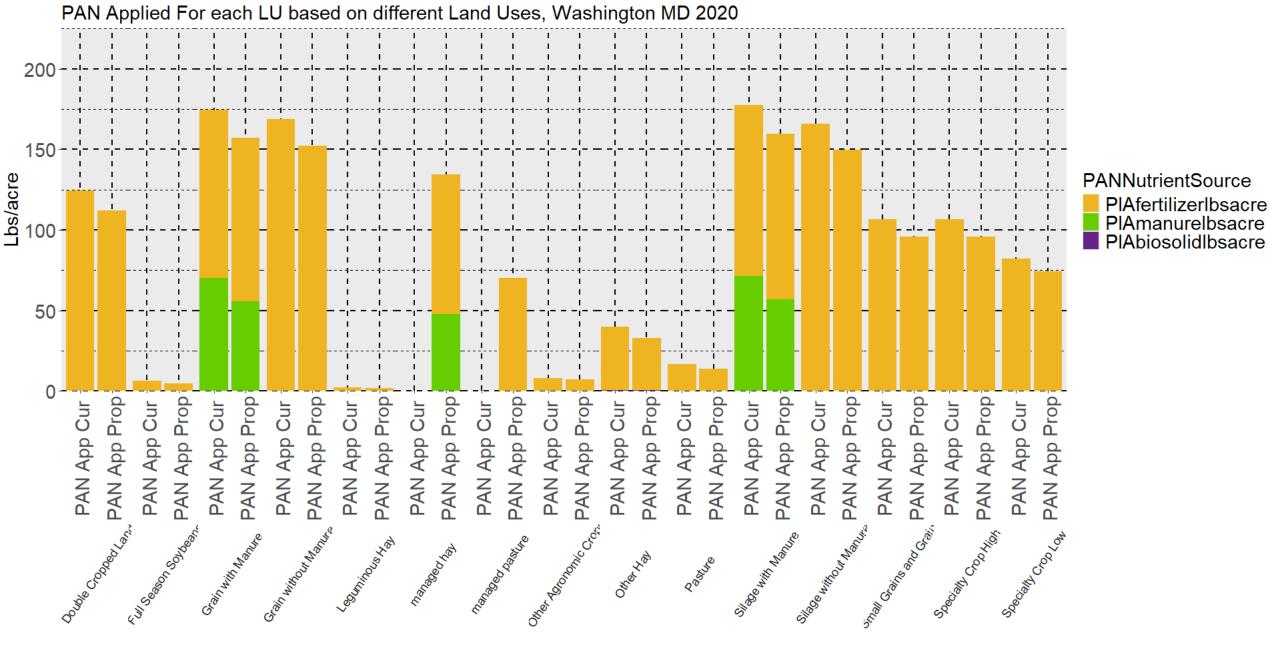
Dorchester, MD



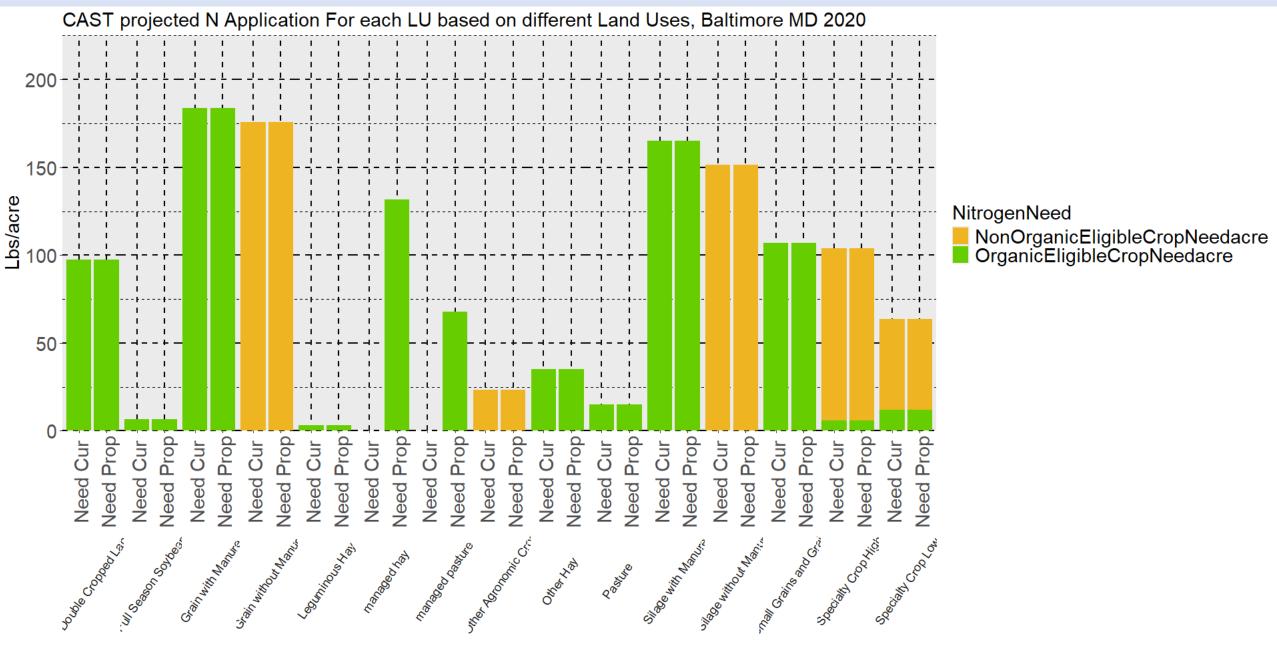


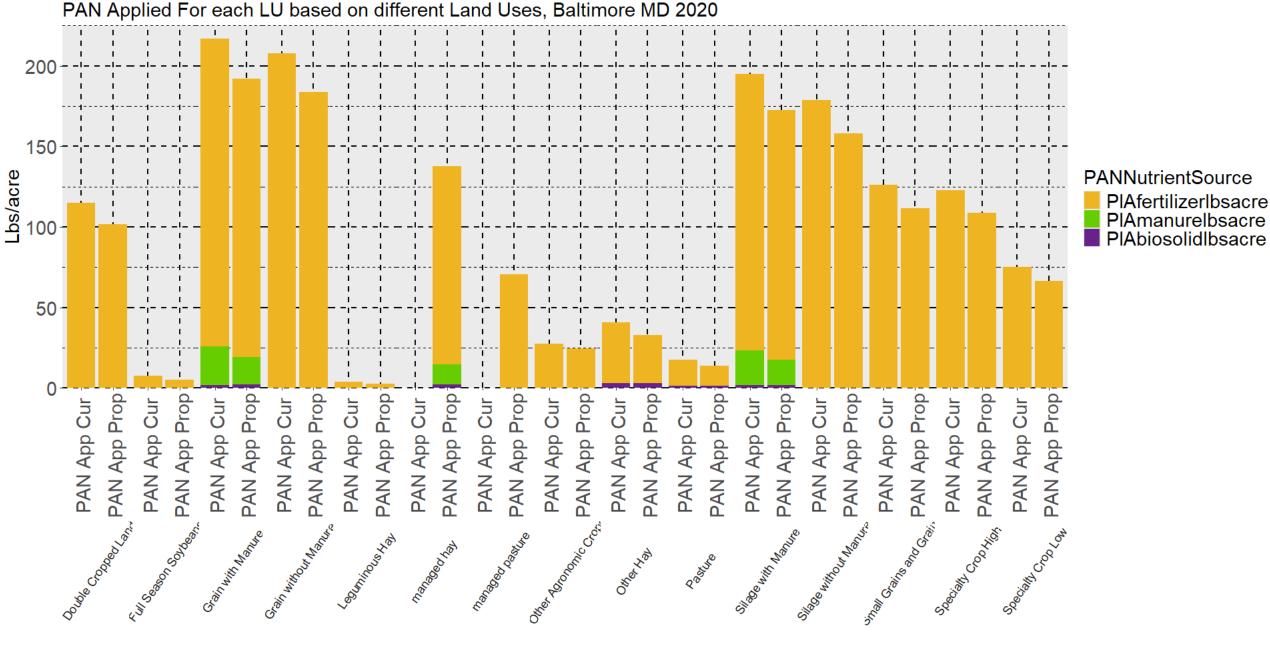
Washington, MD



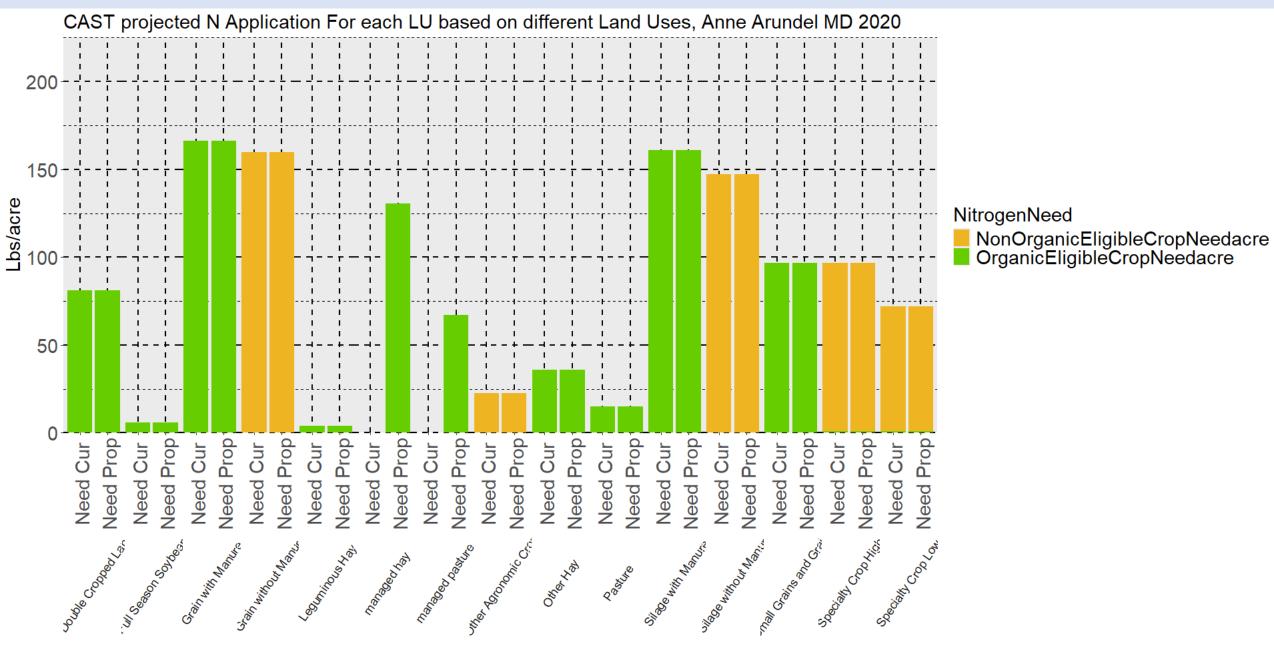


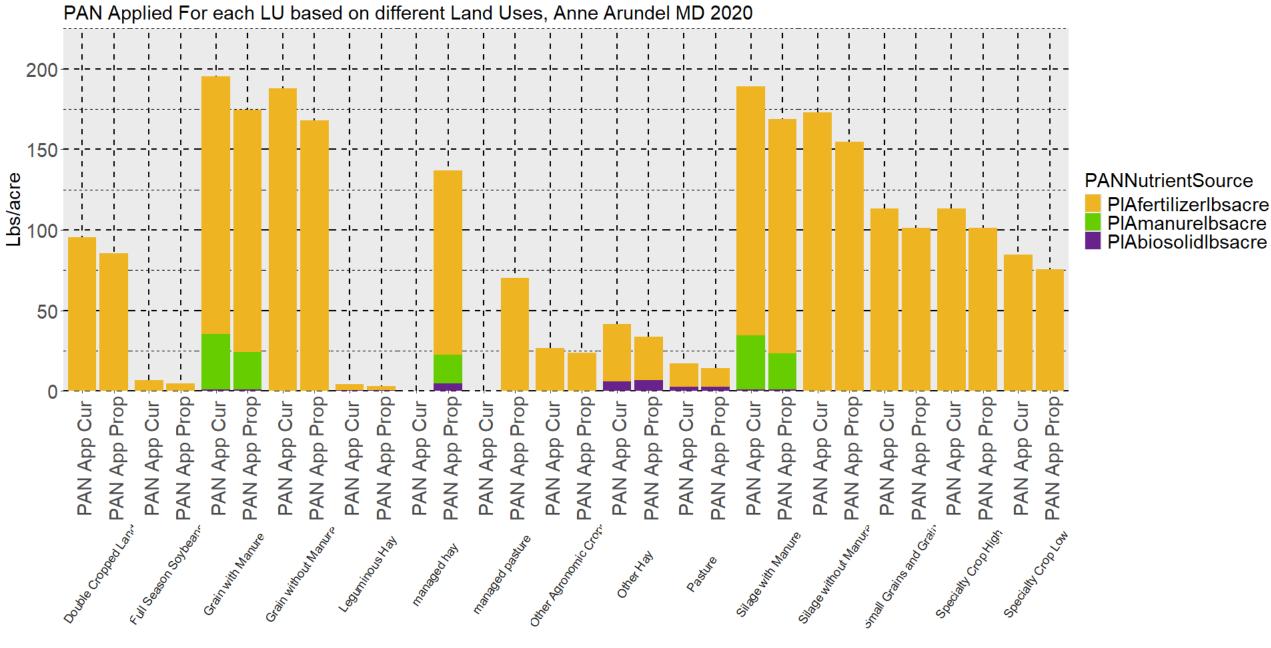
Baltimore, MD



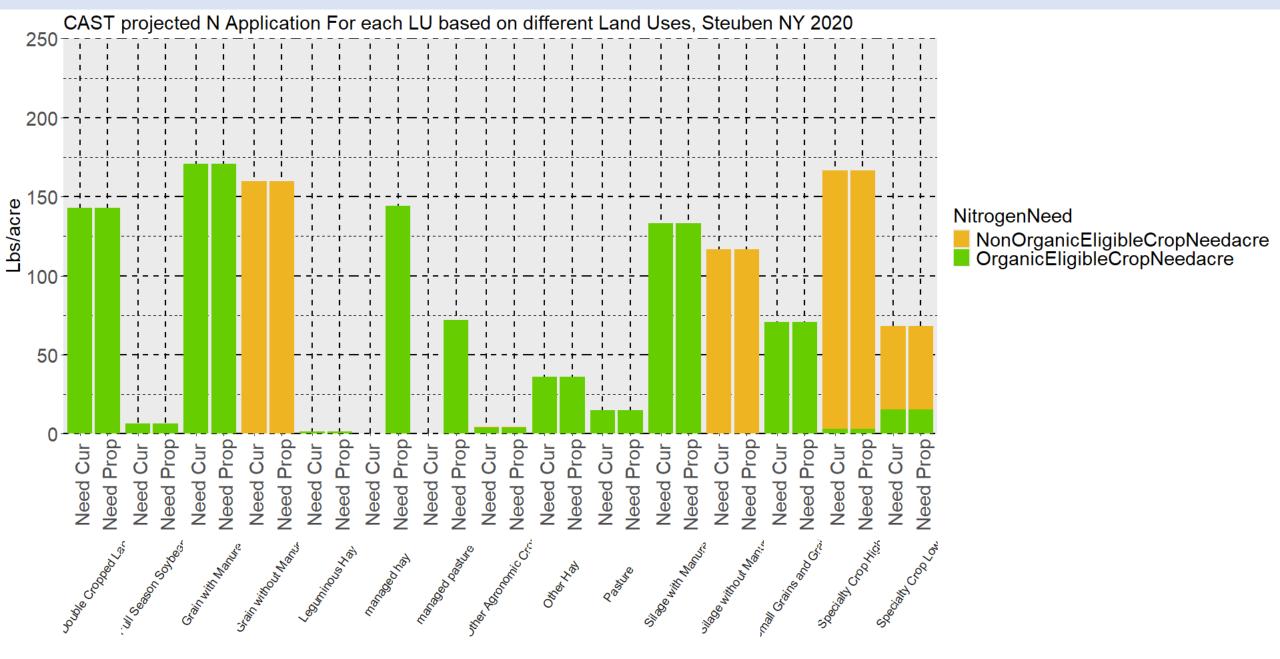


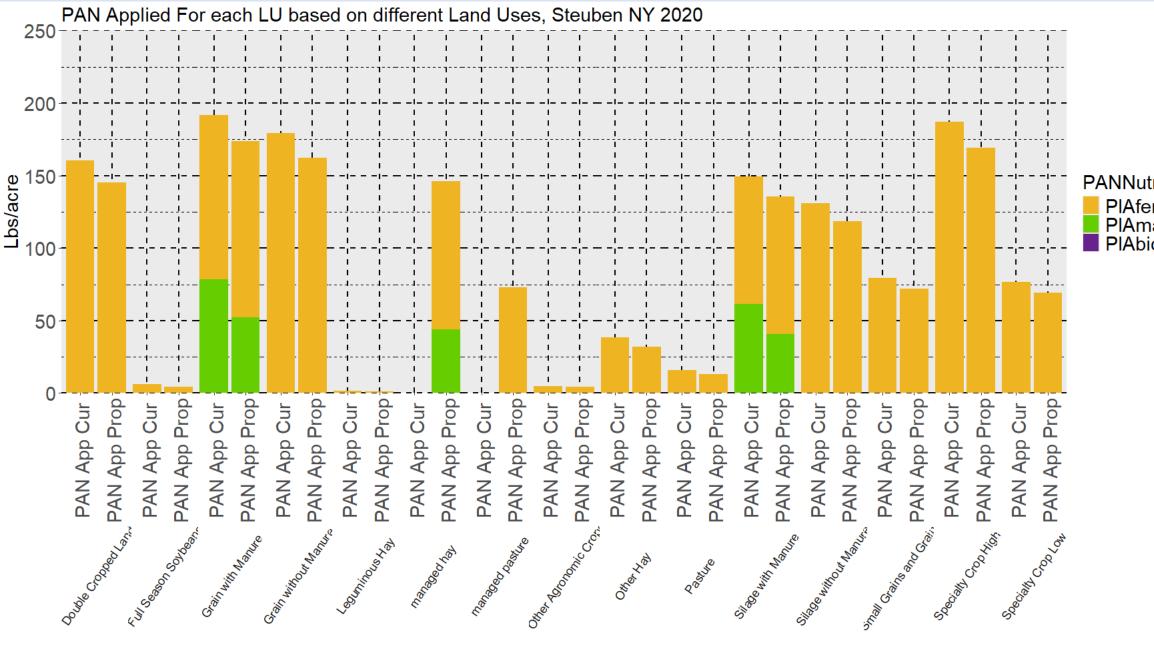
Anne Arundel, MD





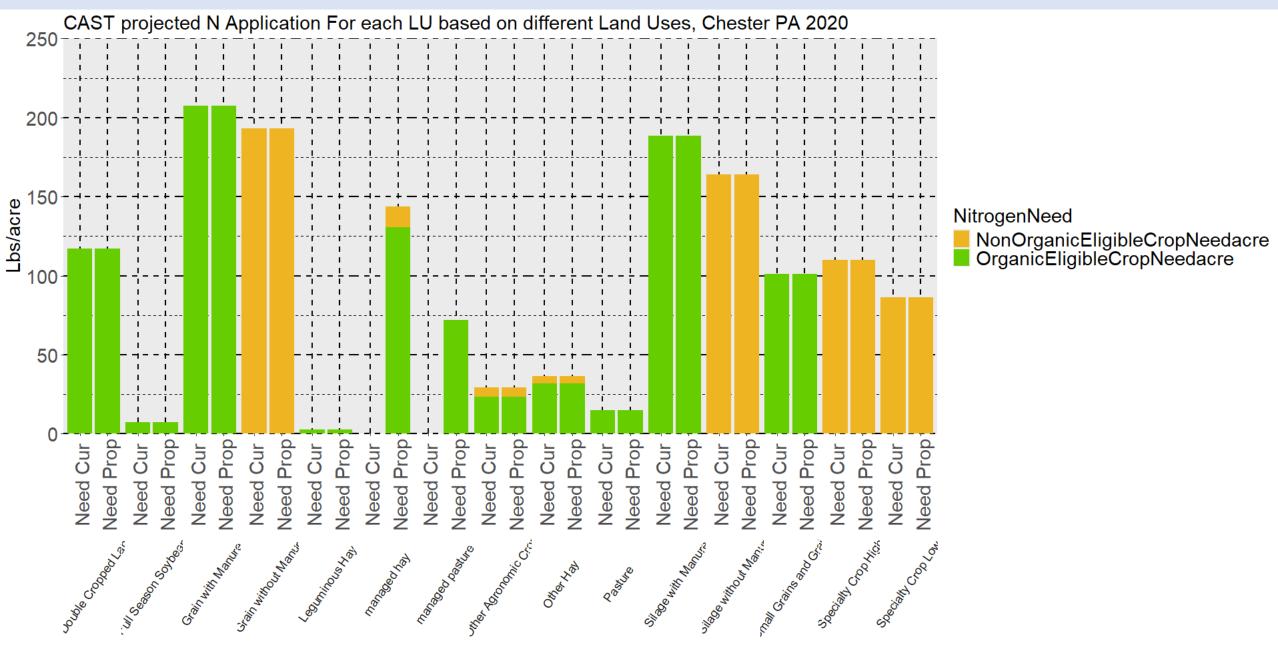
Steuben, NY

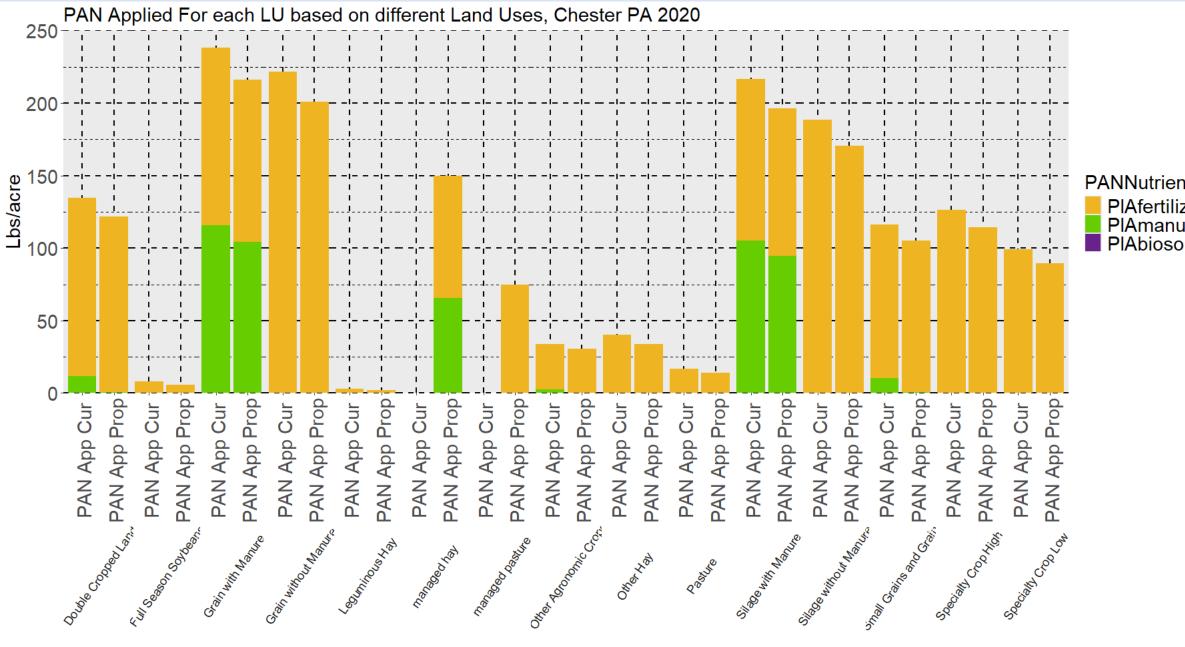




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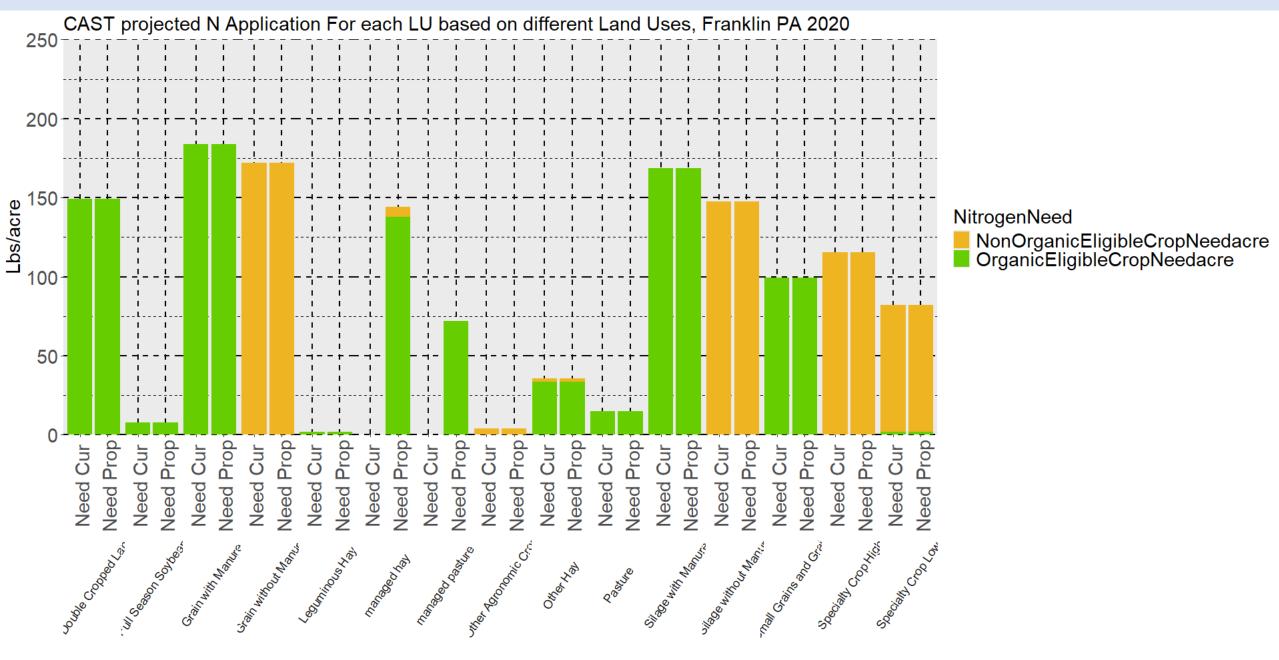


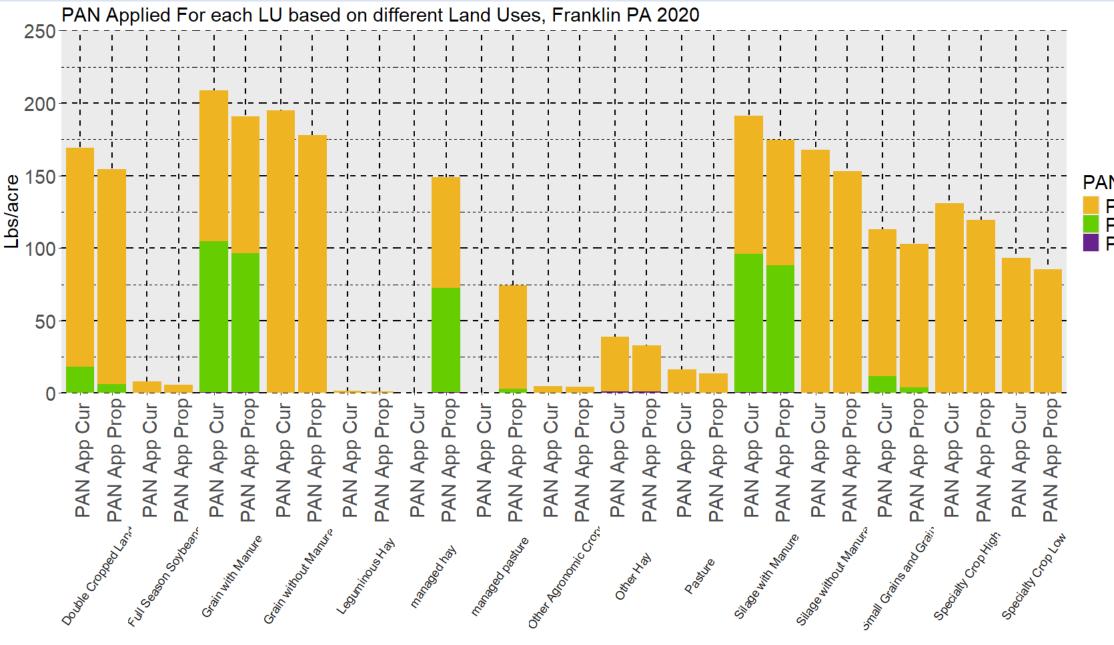




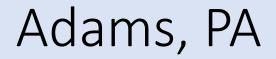
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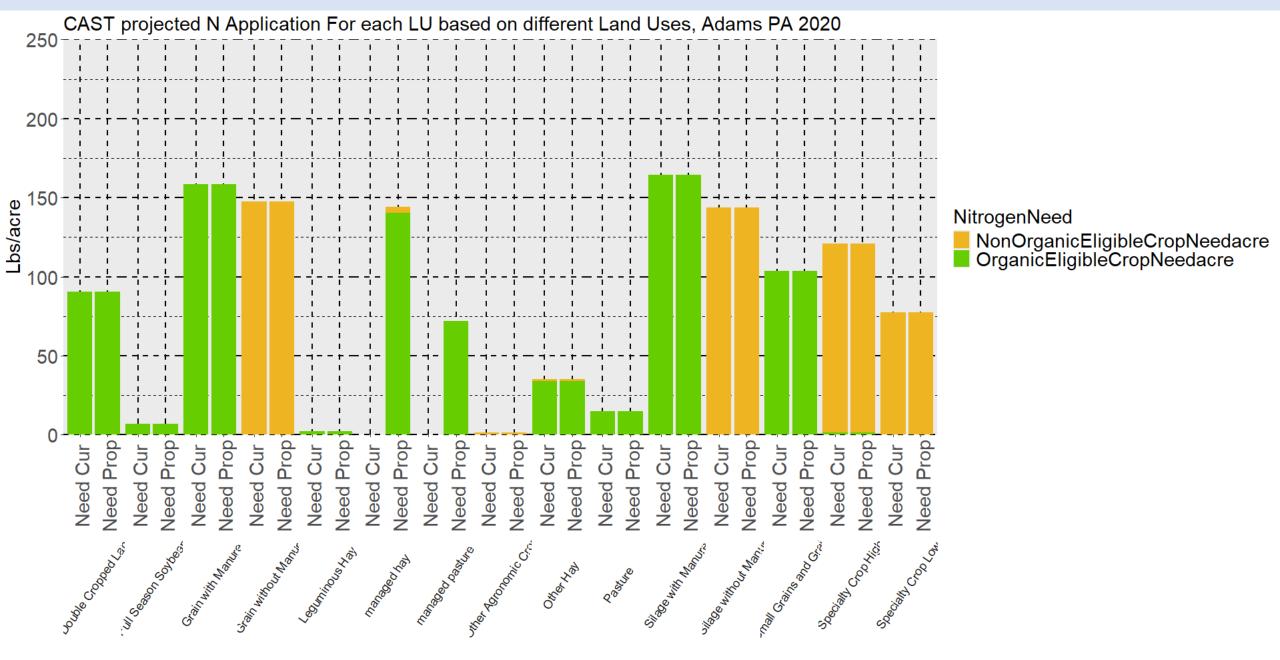
Franklin, PA

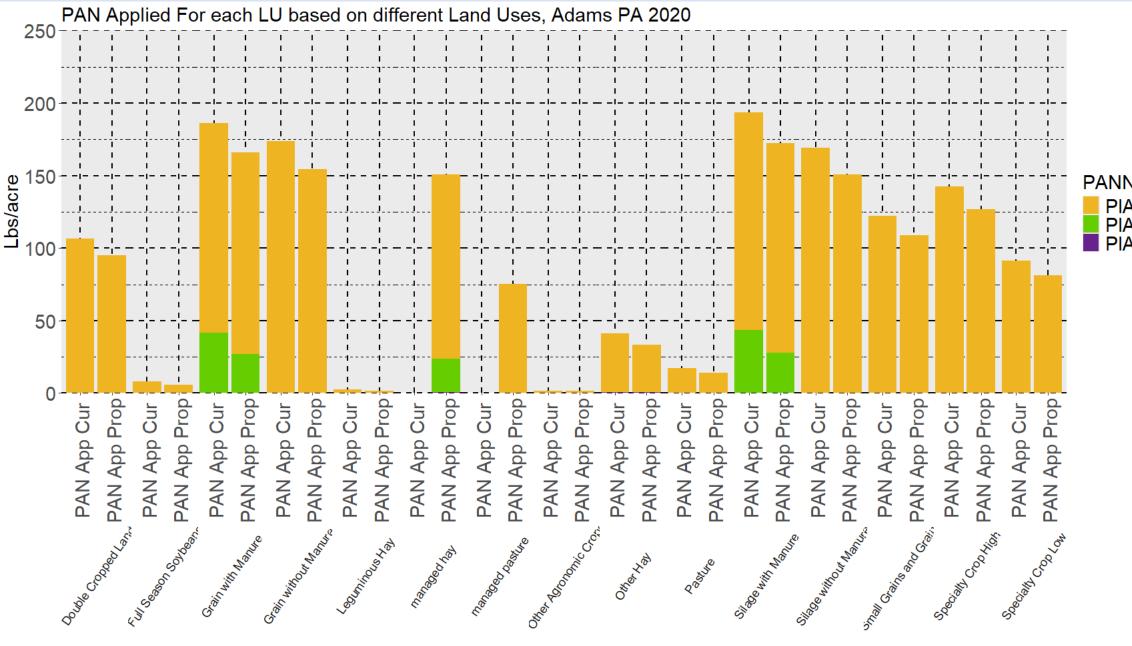




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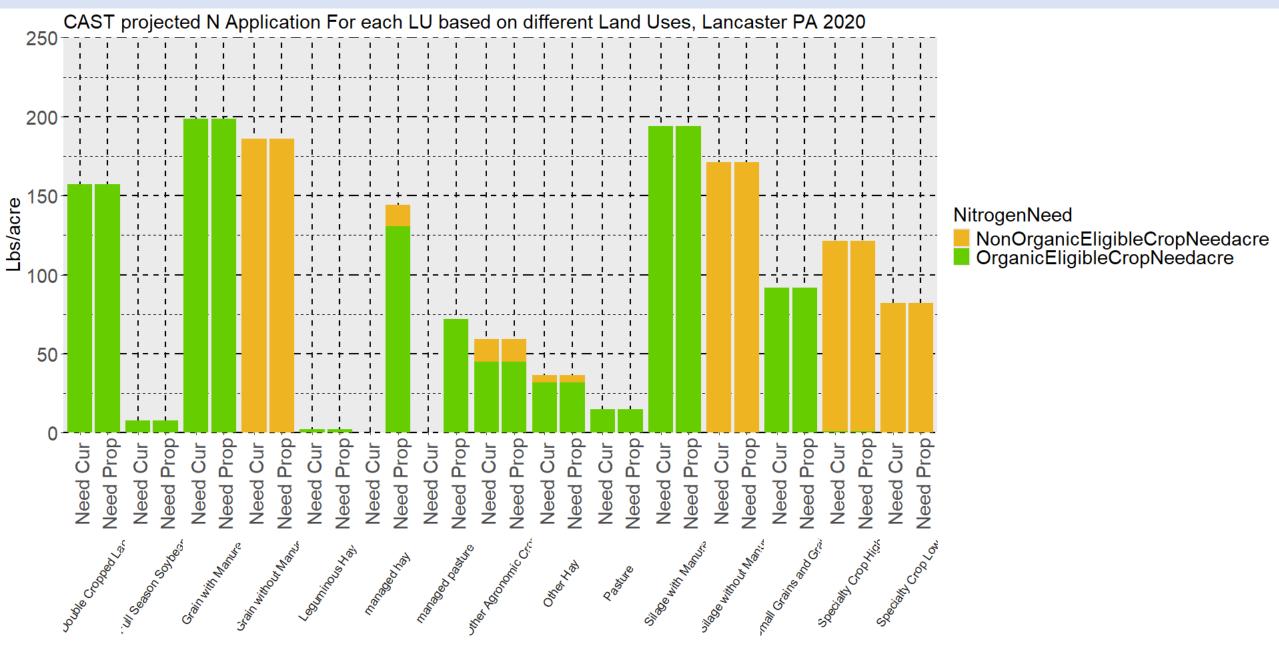


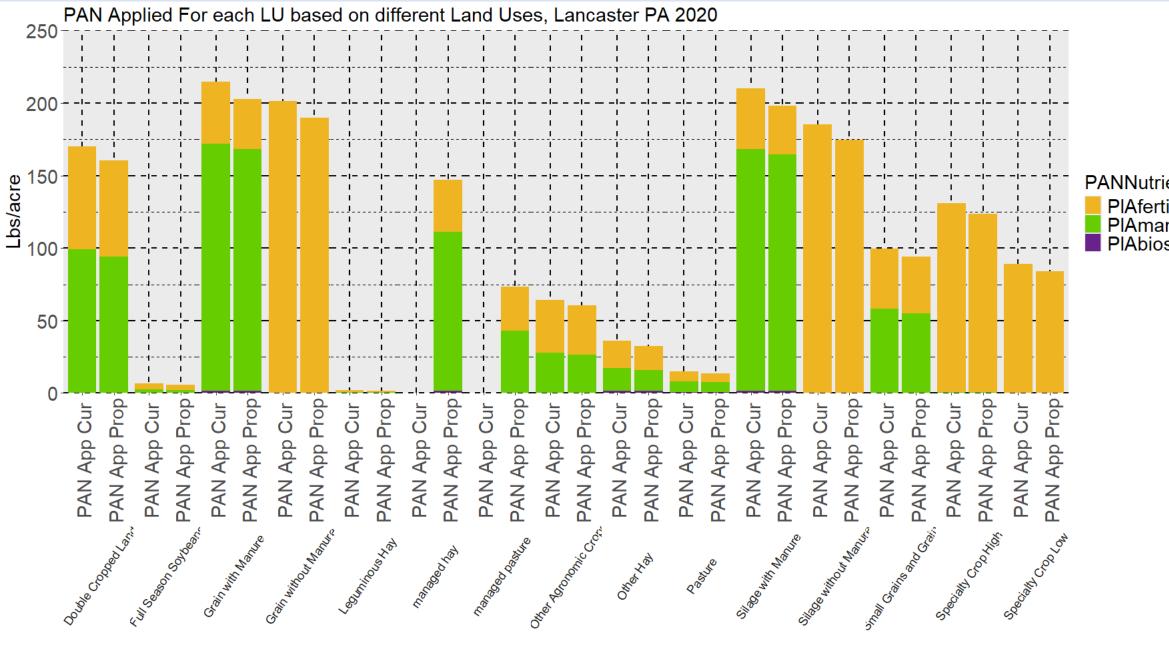




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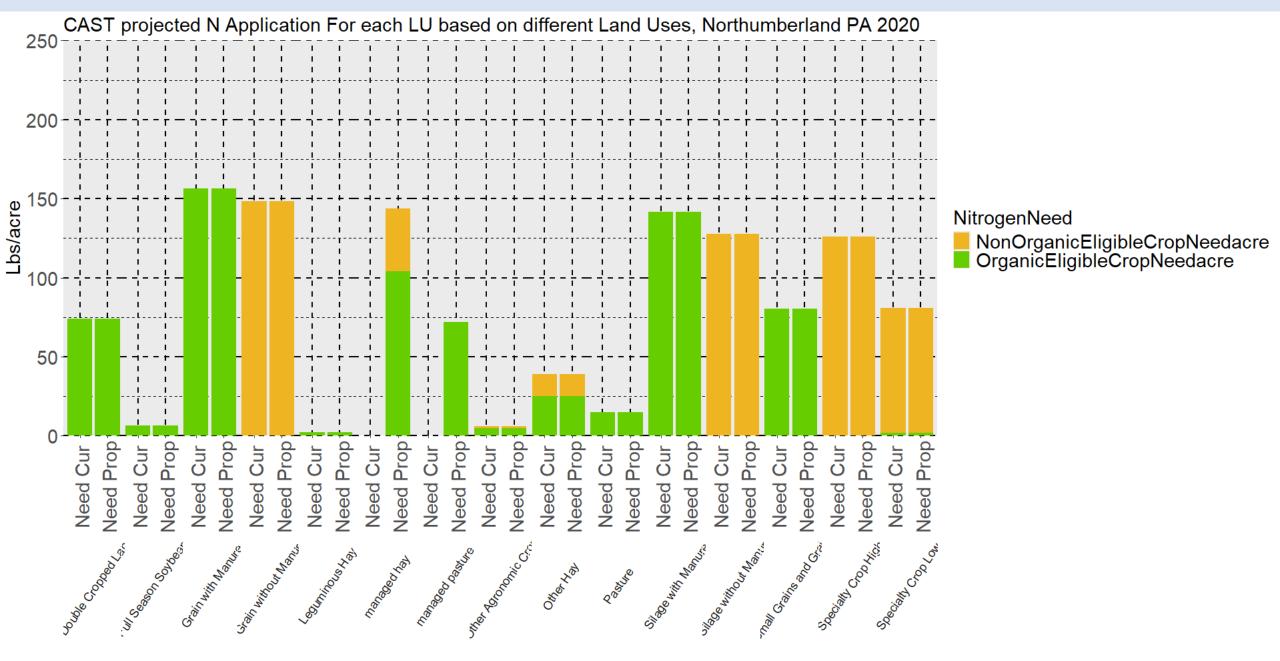


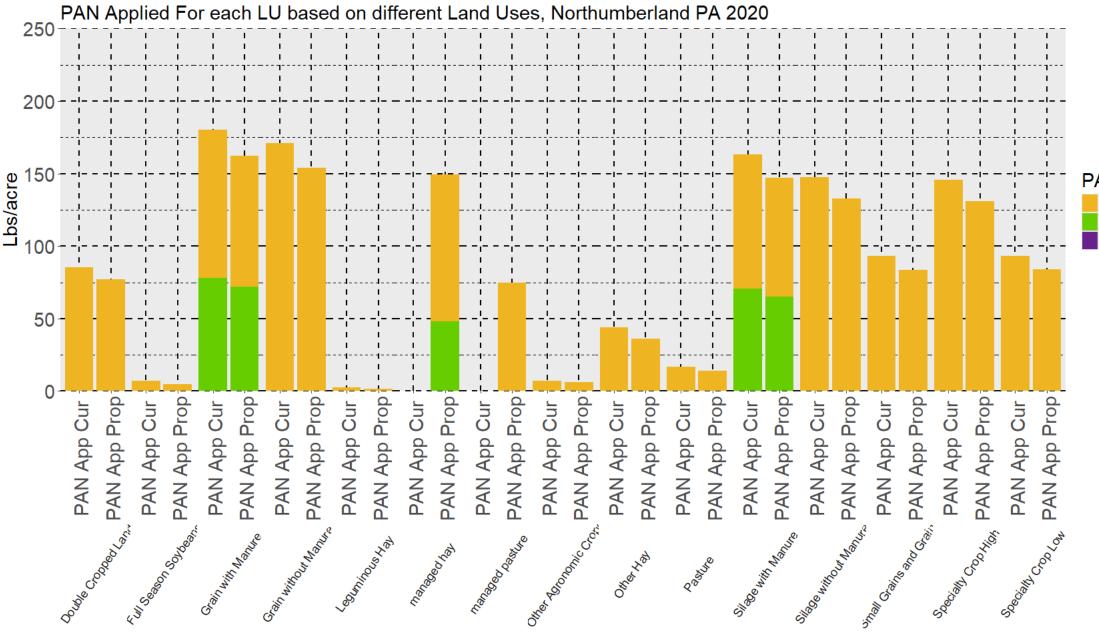




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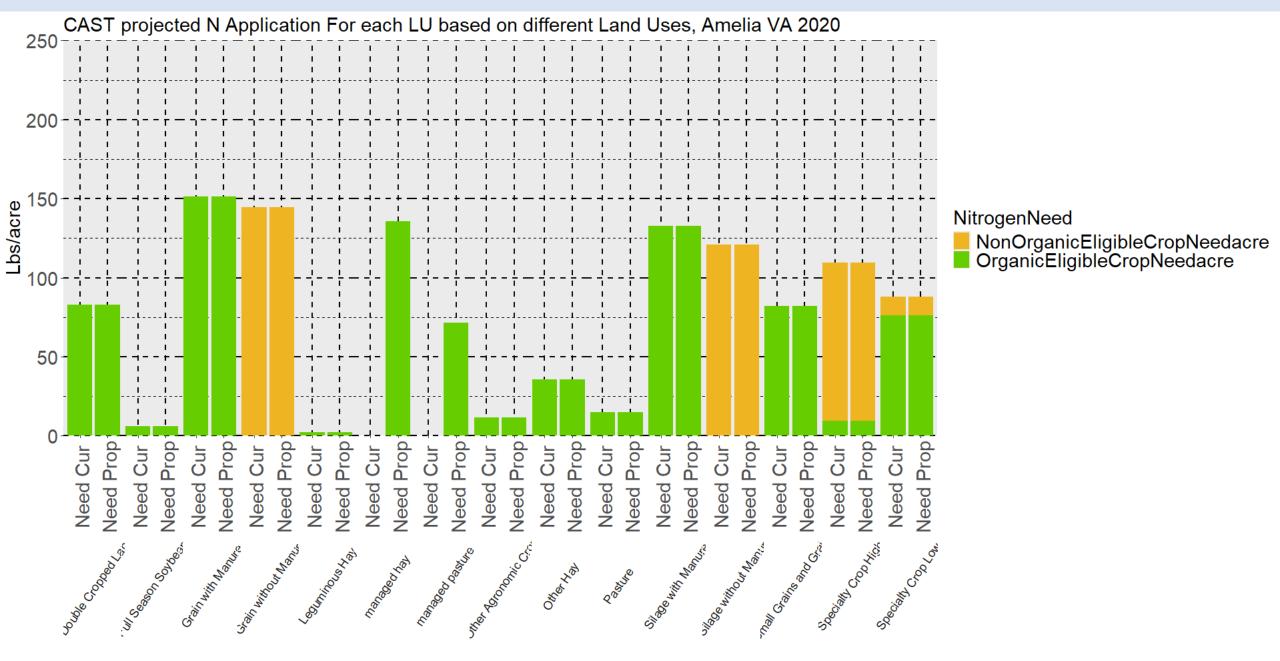
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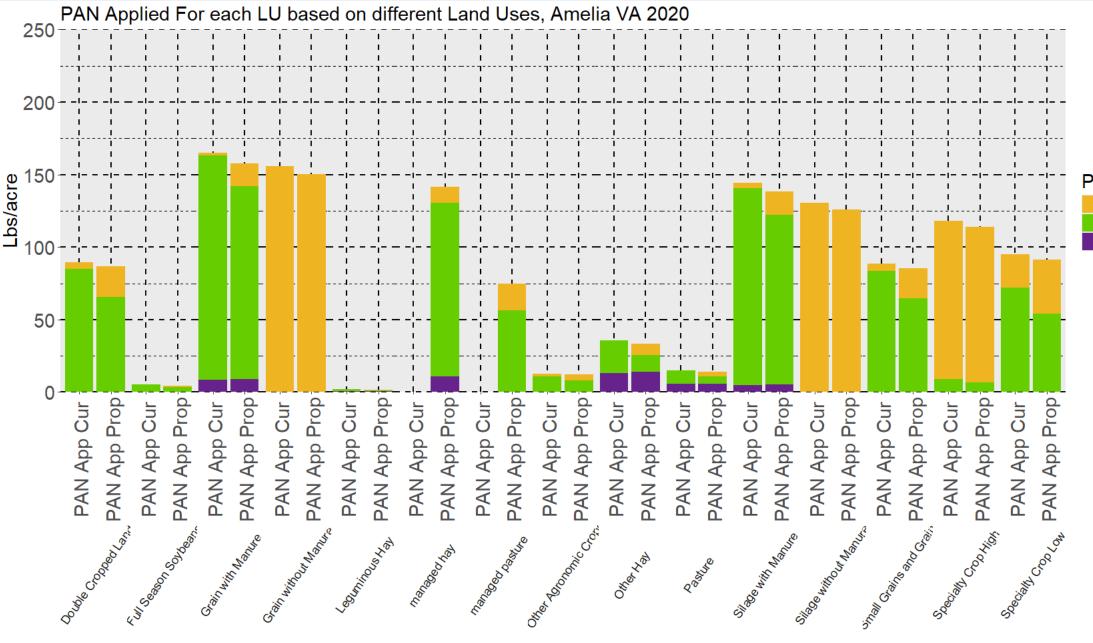




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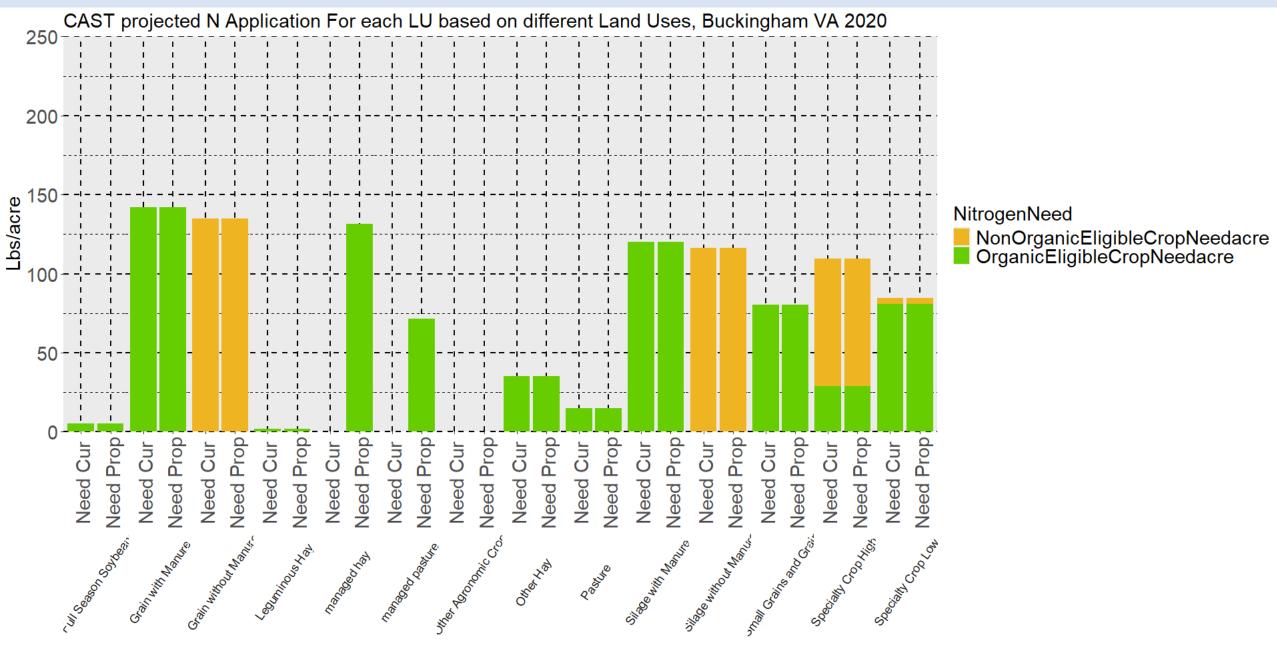


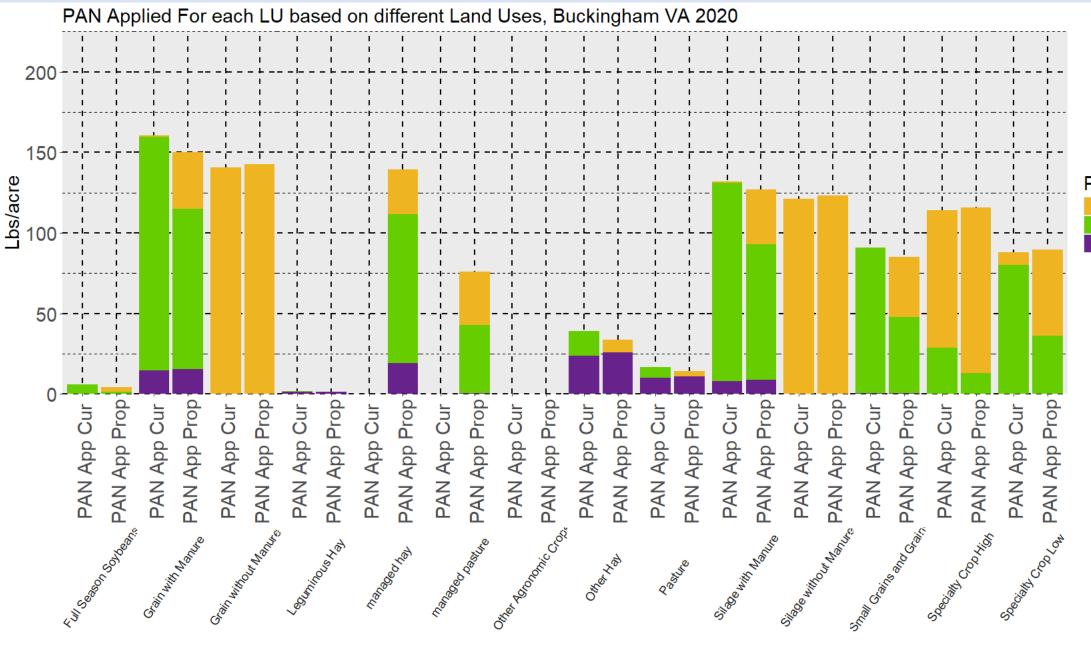




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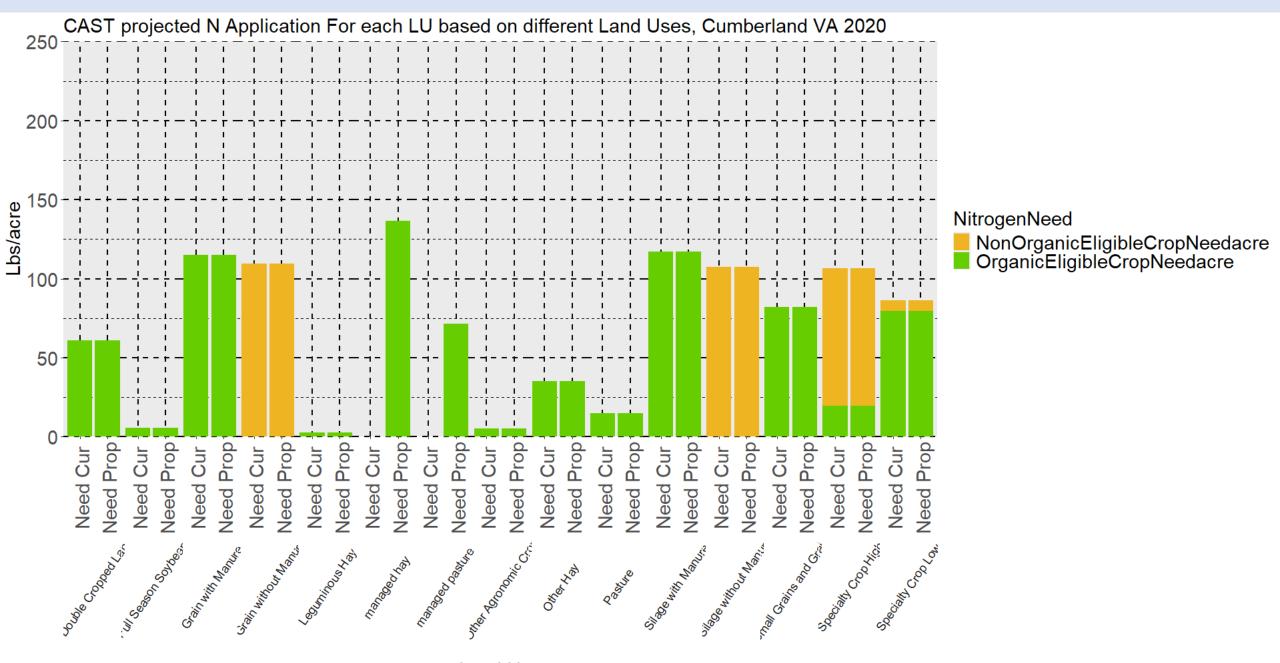
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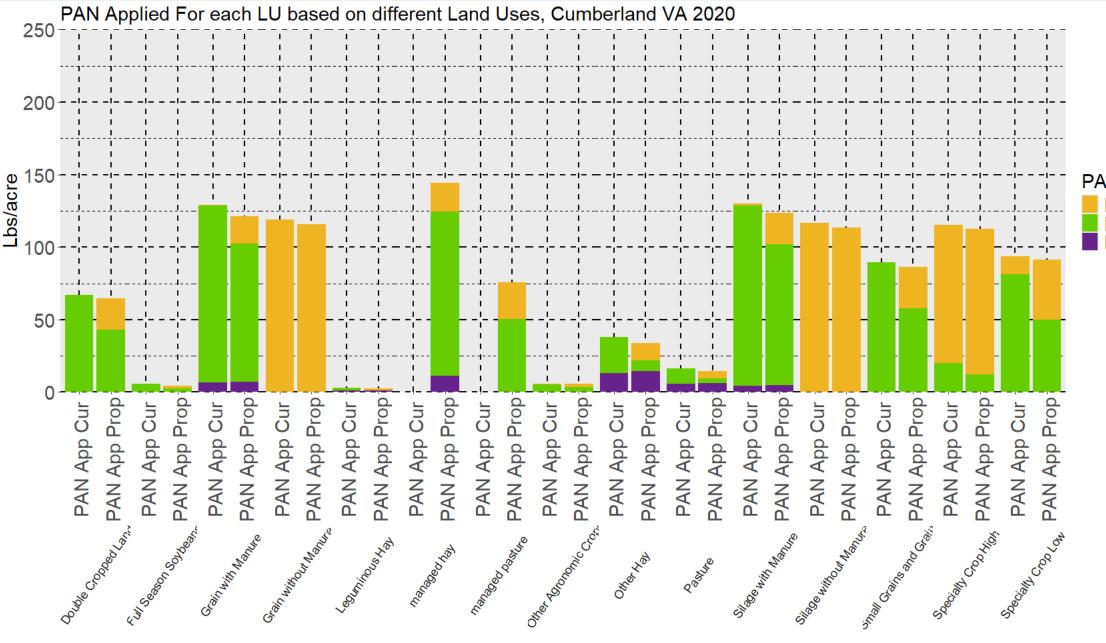




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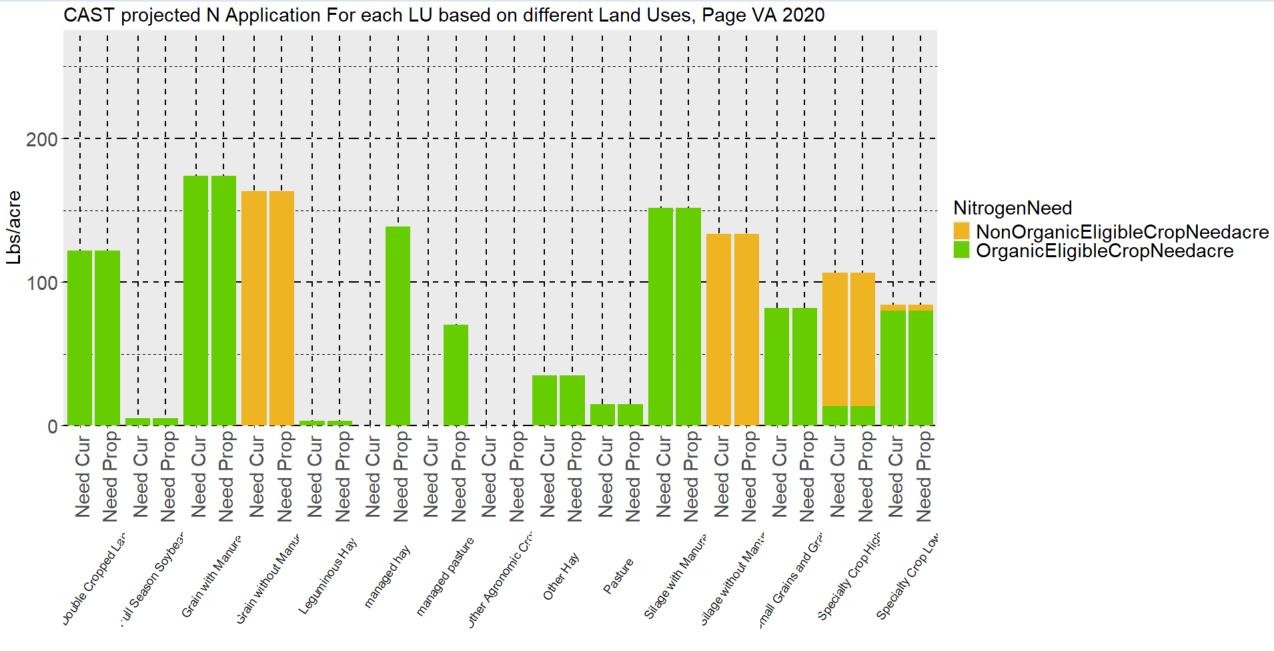
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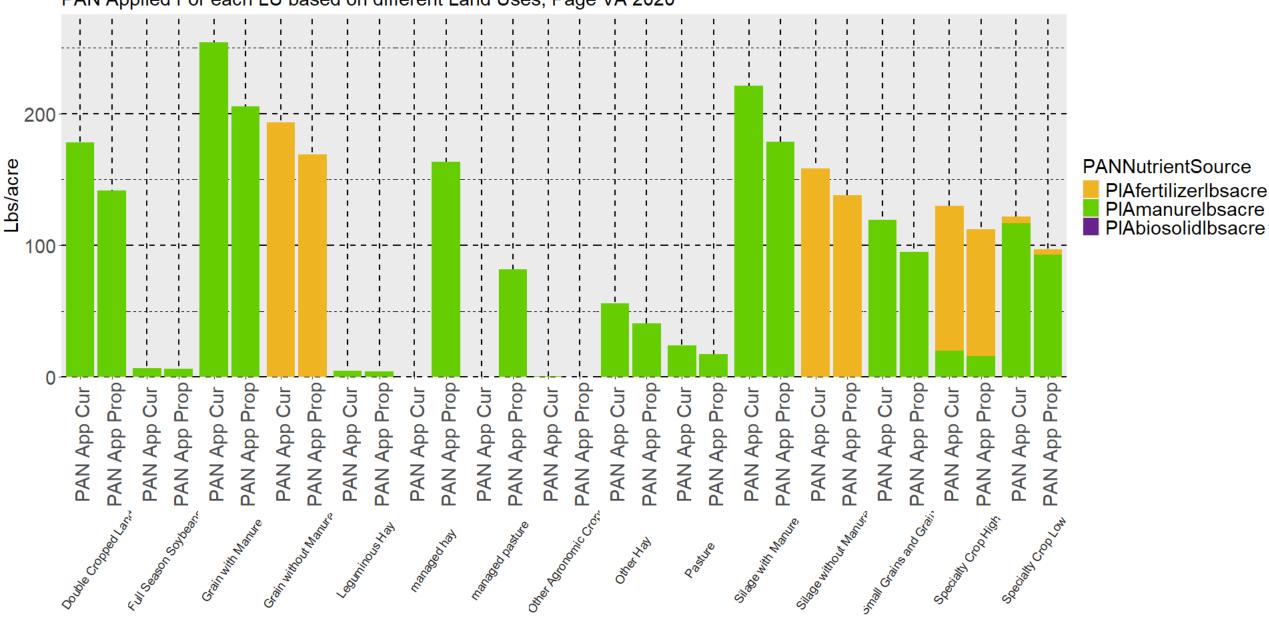




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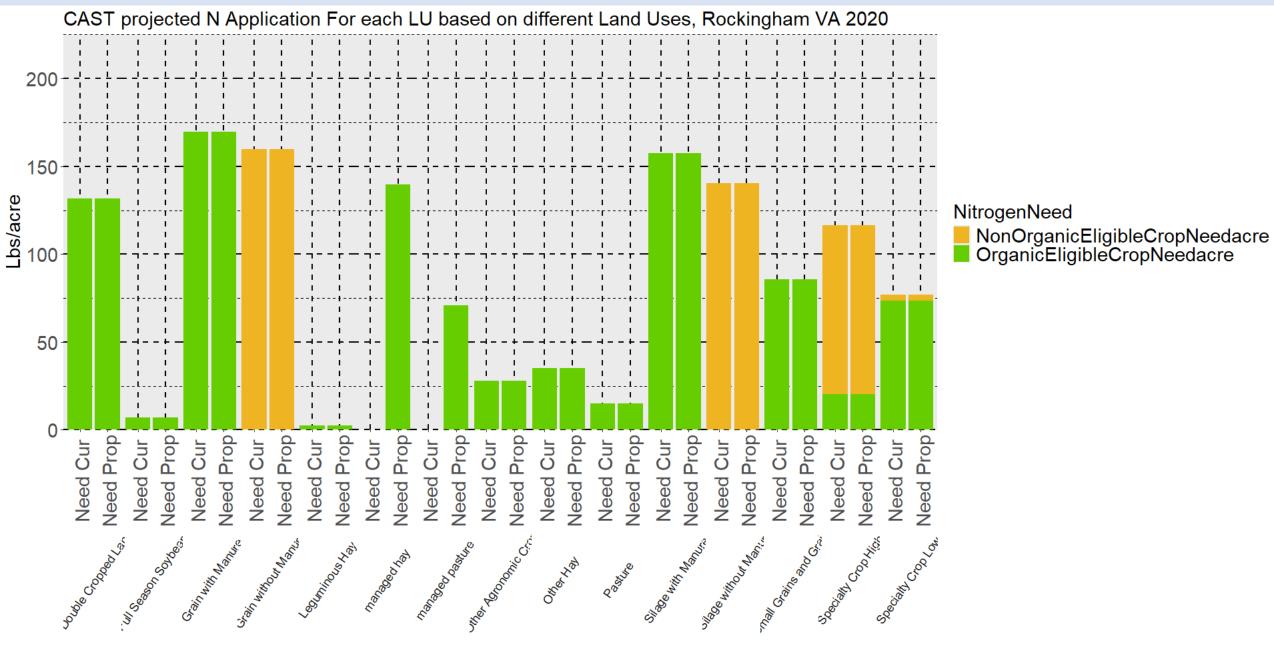


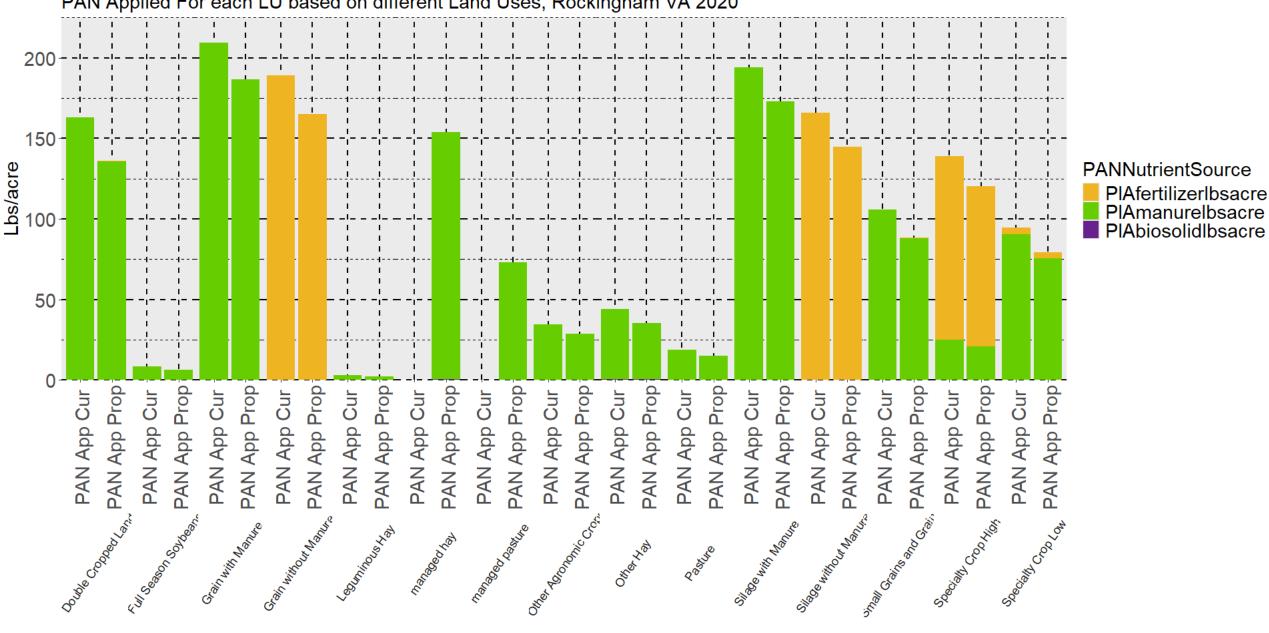




PAN Applied For each LU based on different Land Uses, Page VA 2020

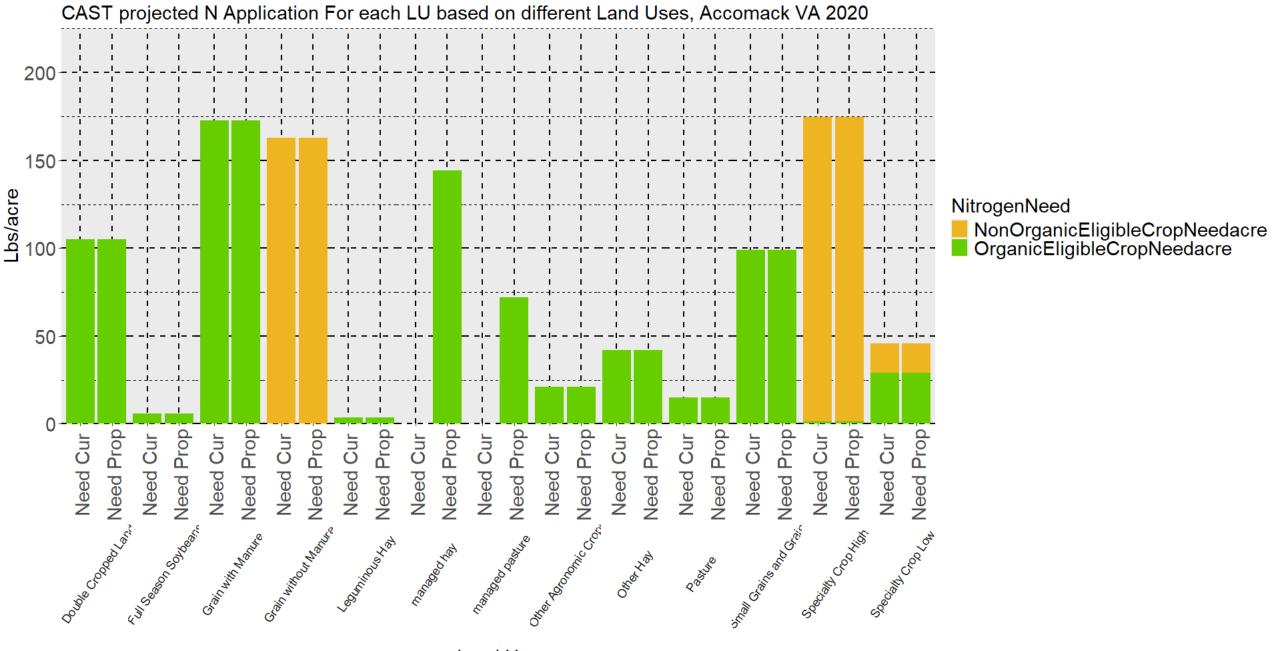
Rockingham, VA

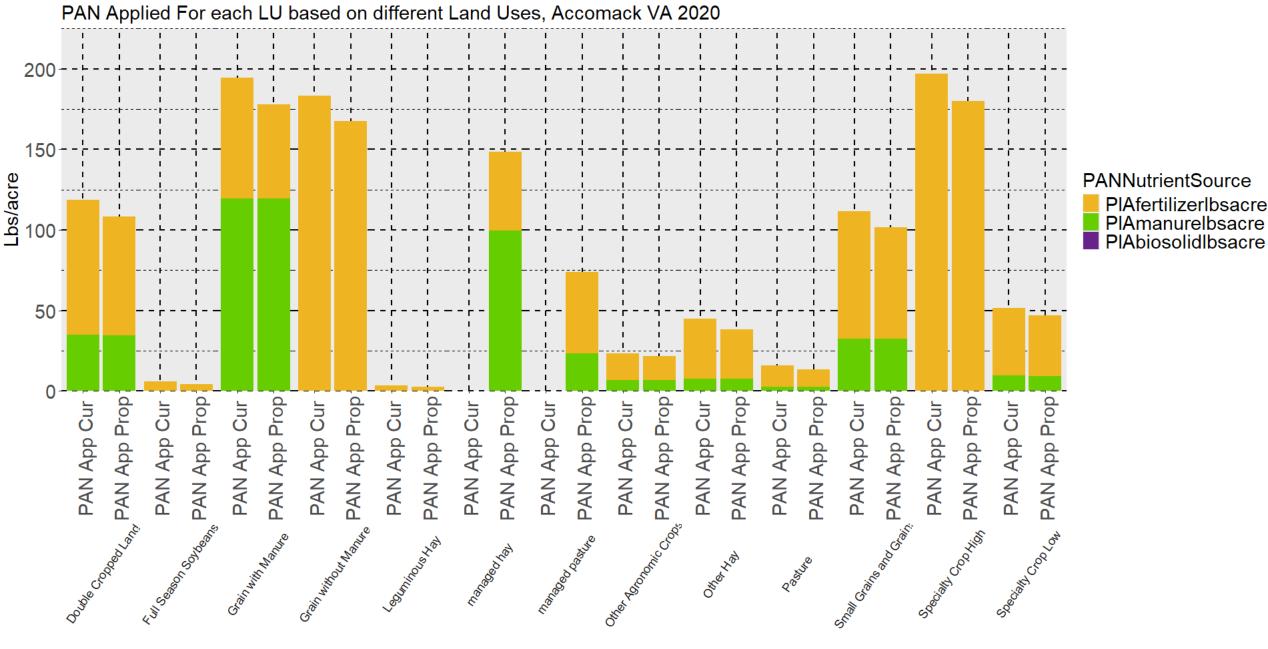




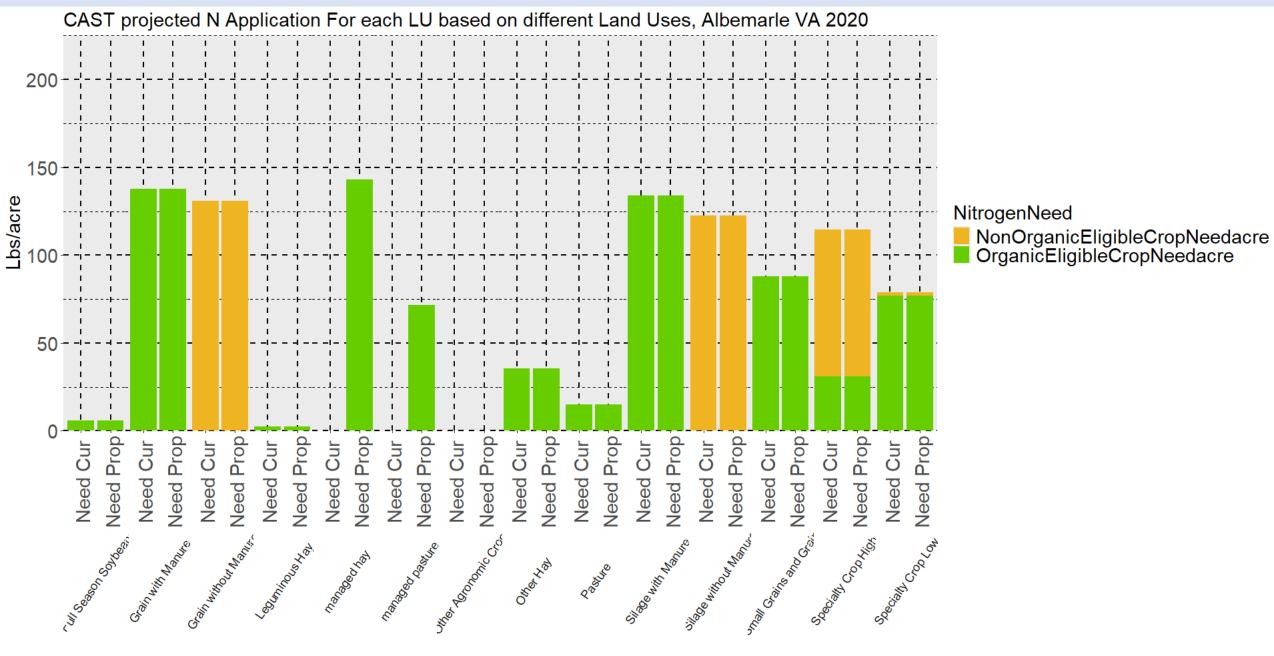
PAN Applied For each LU based on different Land Uses, Rockingham VA 2020

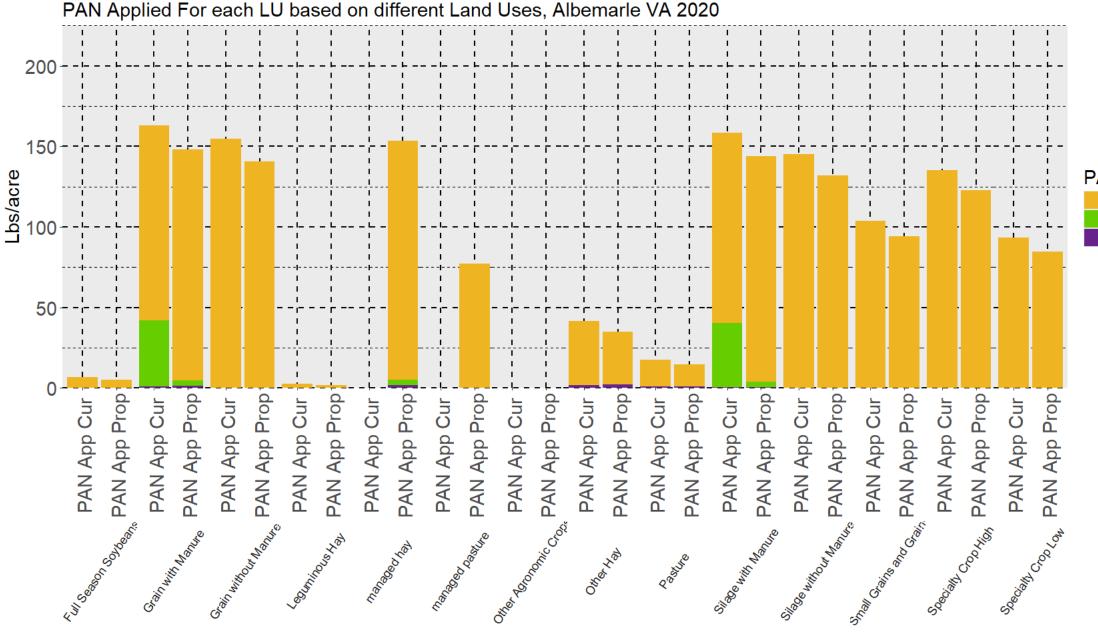
Accomack, VA





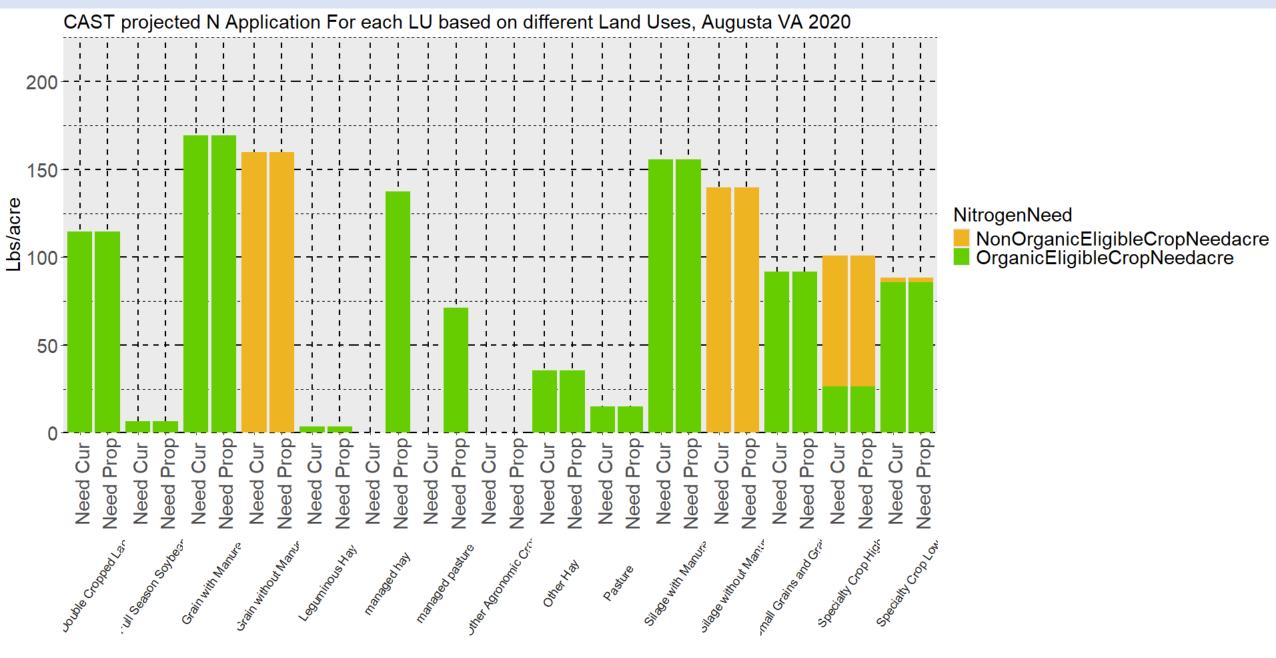
Albemarle, VA

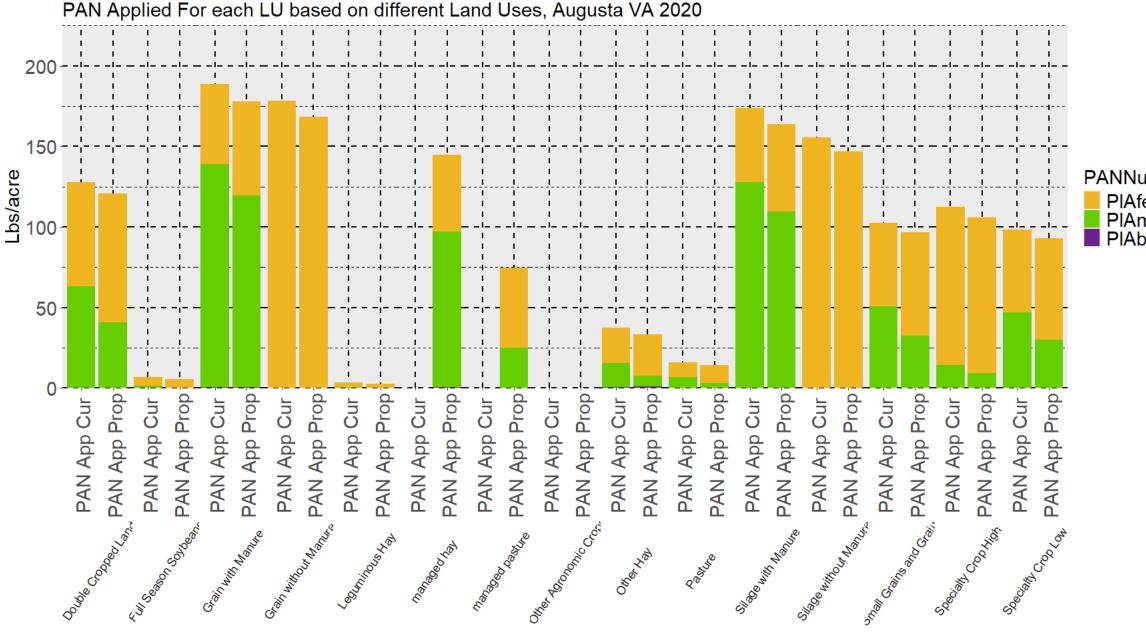




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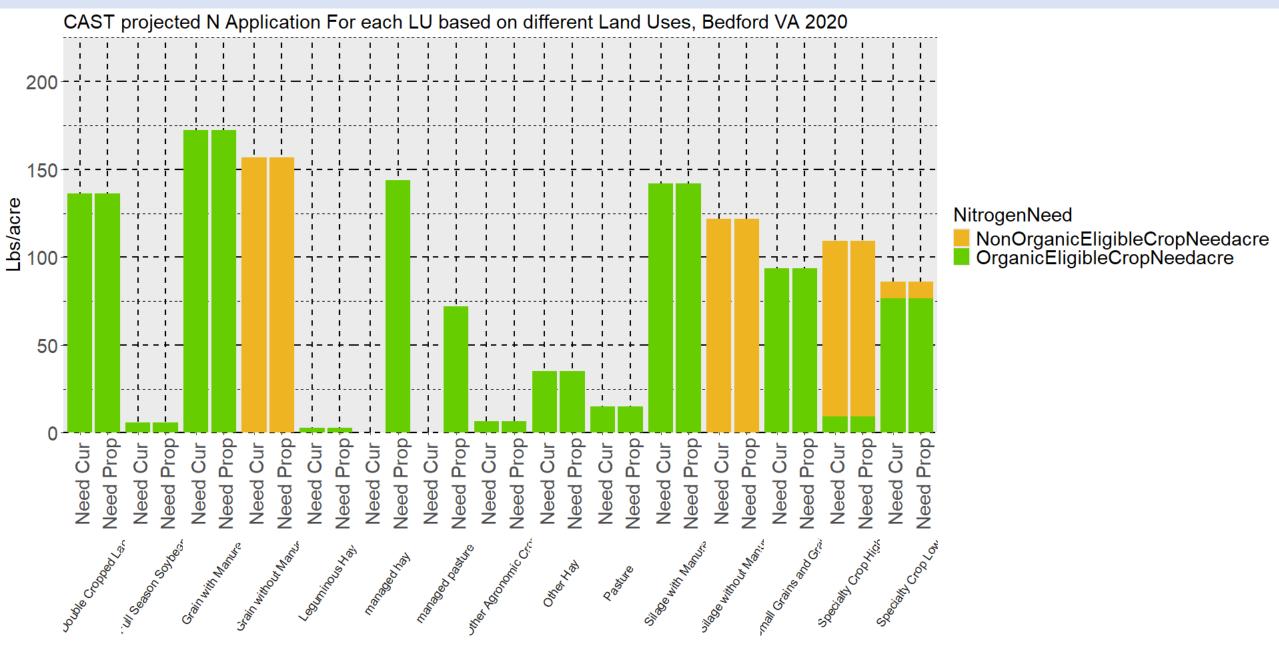
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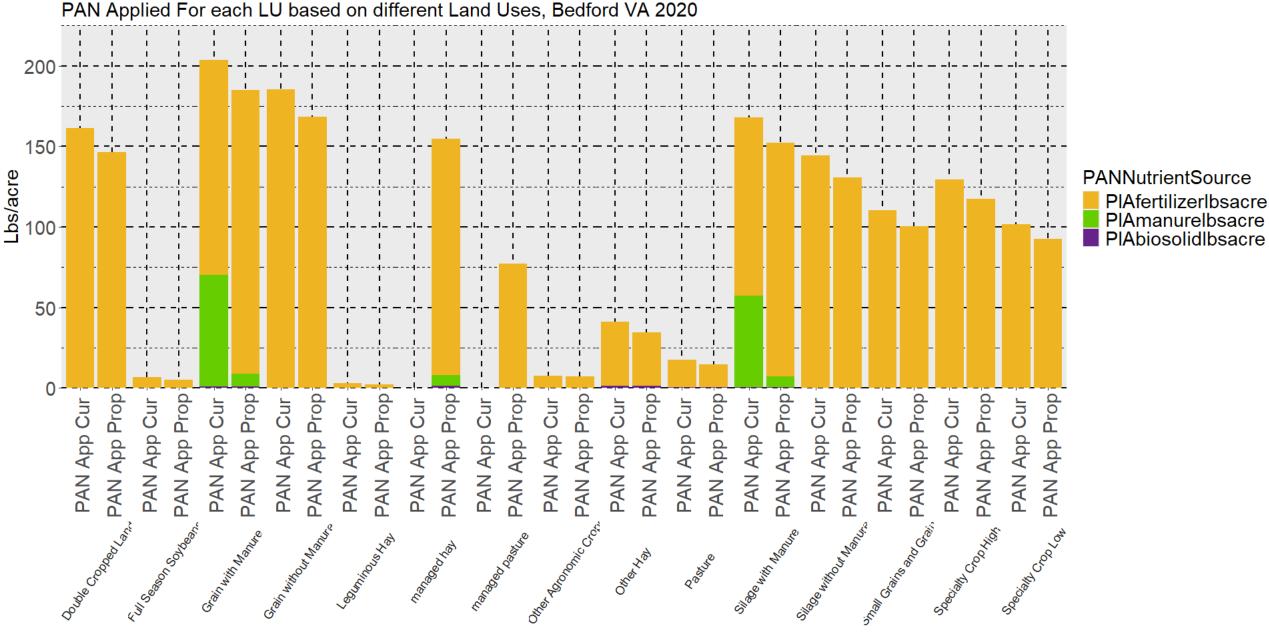




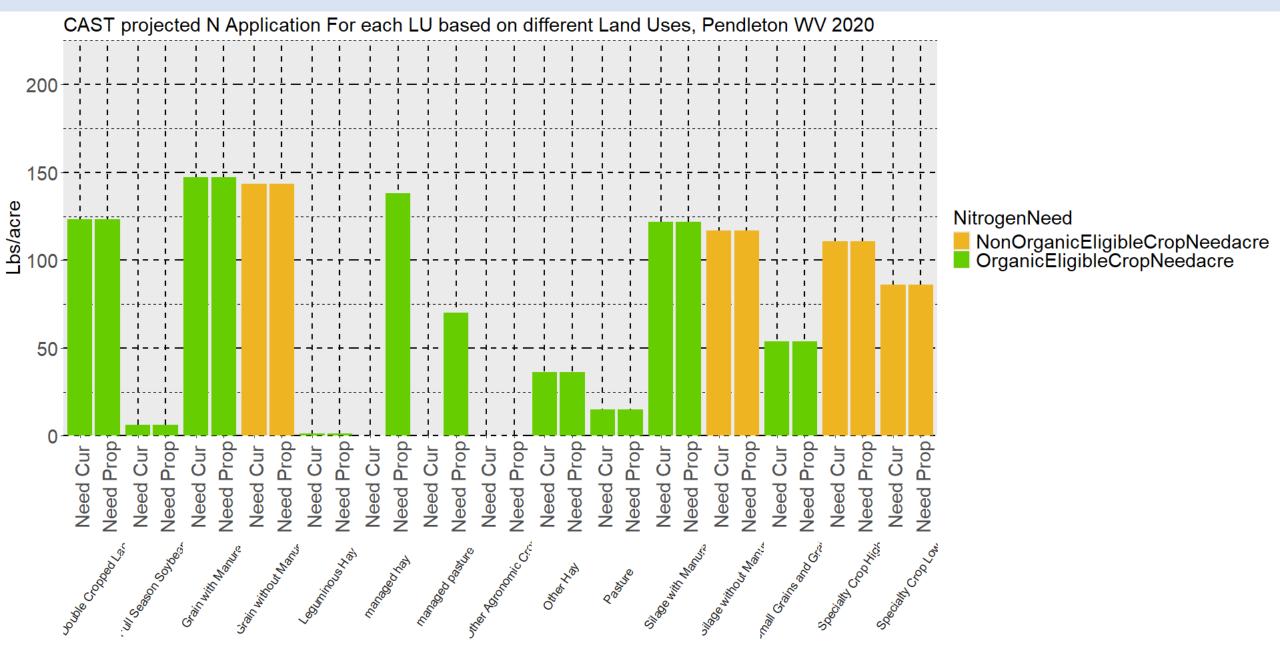
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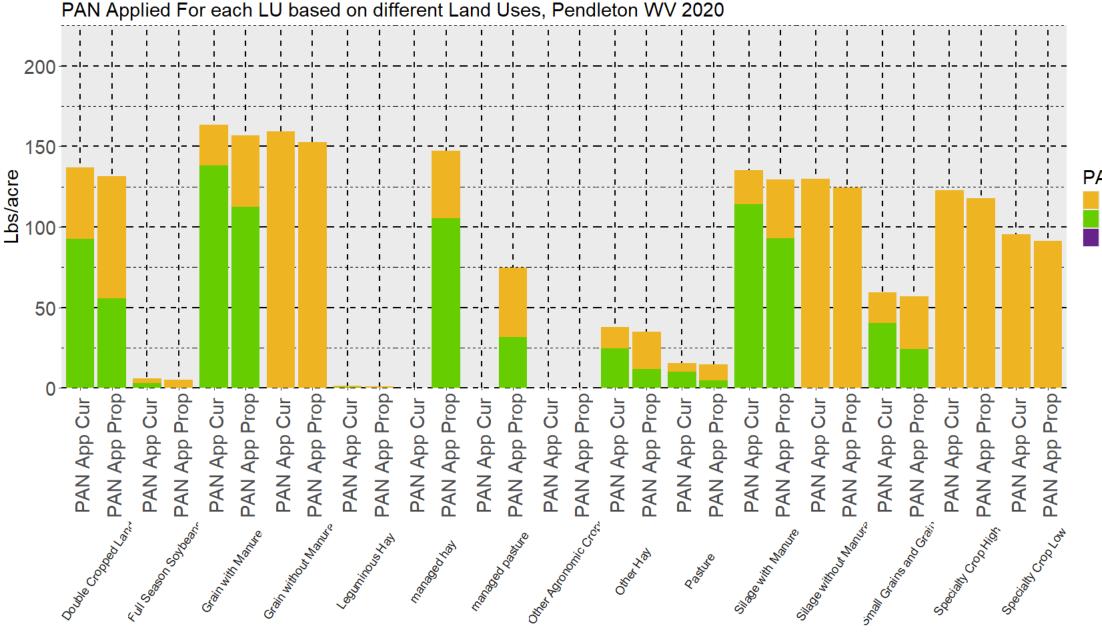




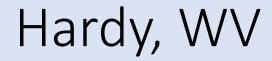


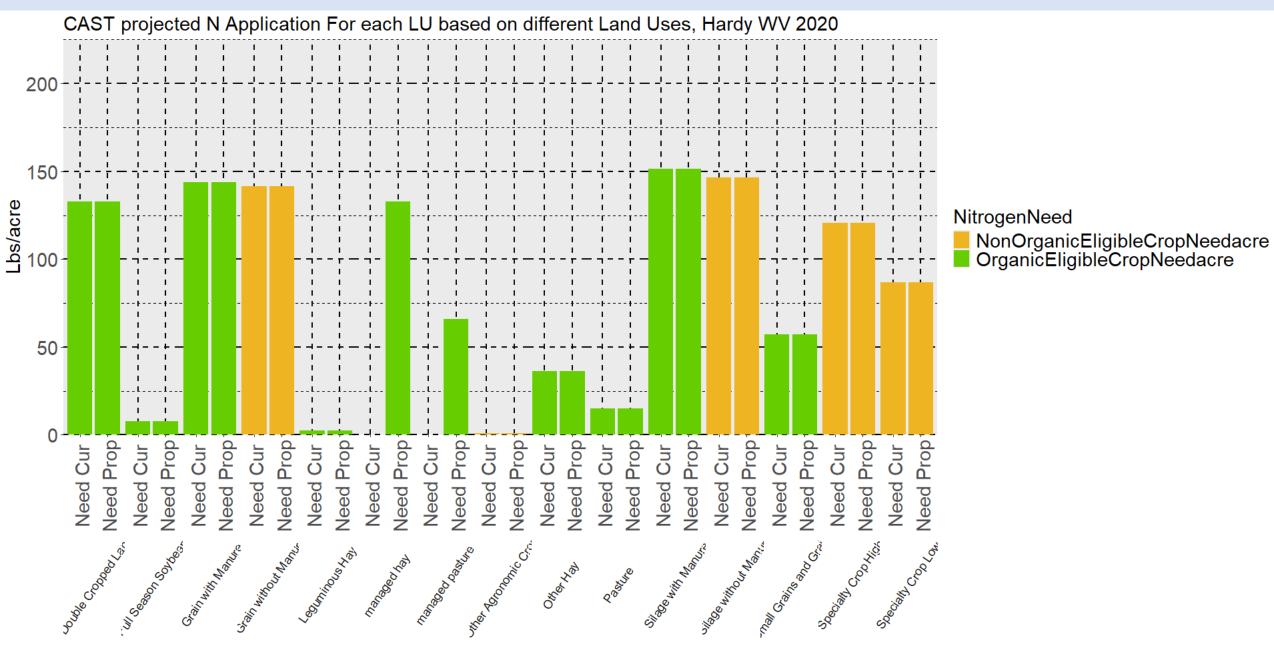
Pendleton, WV

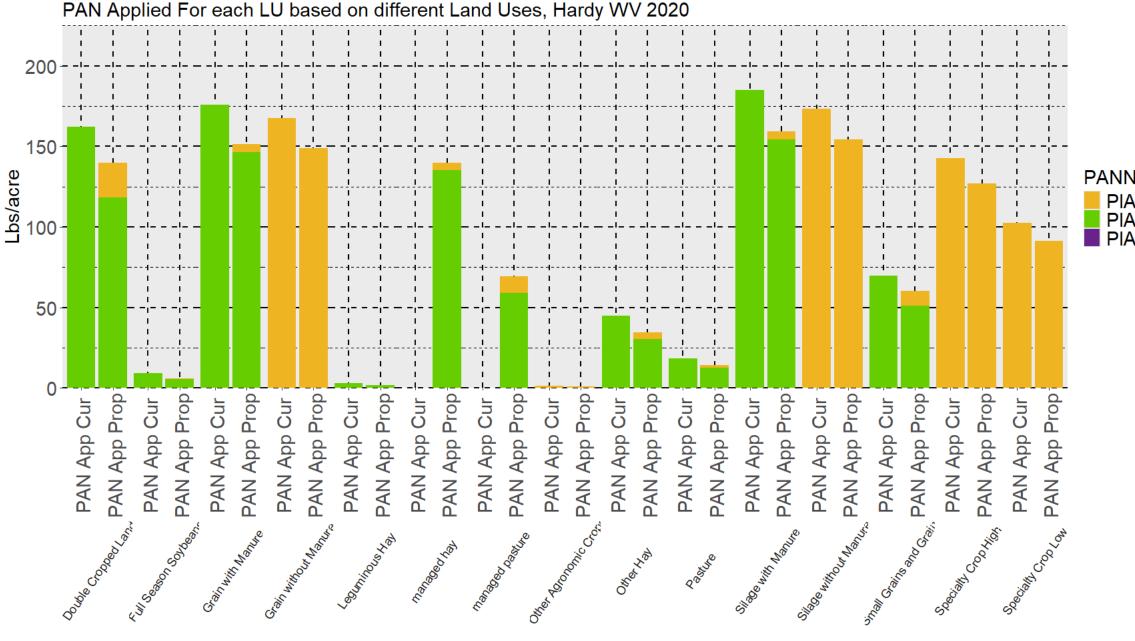




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Questions?

Let's talk decisions:

Proposed decisions:

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Modify the manure spread algorithm to create a fourth group as proposed by Virginia for Phase 7.