

# AMS Update to Ag Workgroup

03162017

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# Items for Final Phase 6 Model

- **Approved by Ag Workgroup**
- **Pending Approval by Ag Workgroup**
- **Use of Revised Swine Manure Data**
- **Soil History Methods**
- **RUSLE2 Revisions for Sediment Calculations**

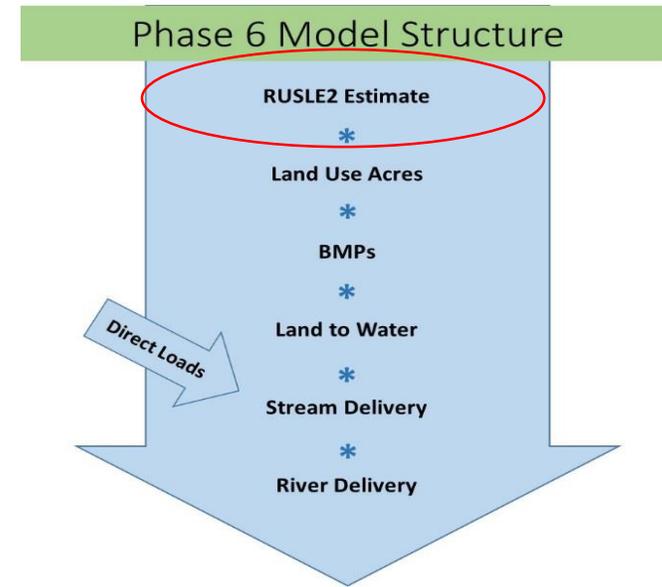
# Background/Question

- STAC review indicated inconsistencies in C-management factors.
- AMS, Ag Workgroup, Modeling Workgroup, WQGIT and MB approved responses to STAC review which included a promise to work with a STAC-selected RUSLE expert to review and potentially revise C-management factors.
- AMS recommends using revised RUSLE2 results presented today.
- **Does the Ag Workgroup approve the use of these revised RUSLE2 results?**

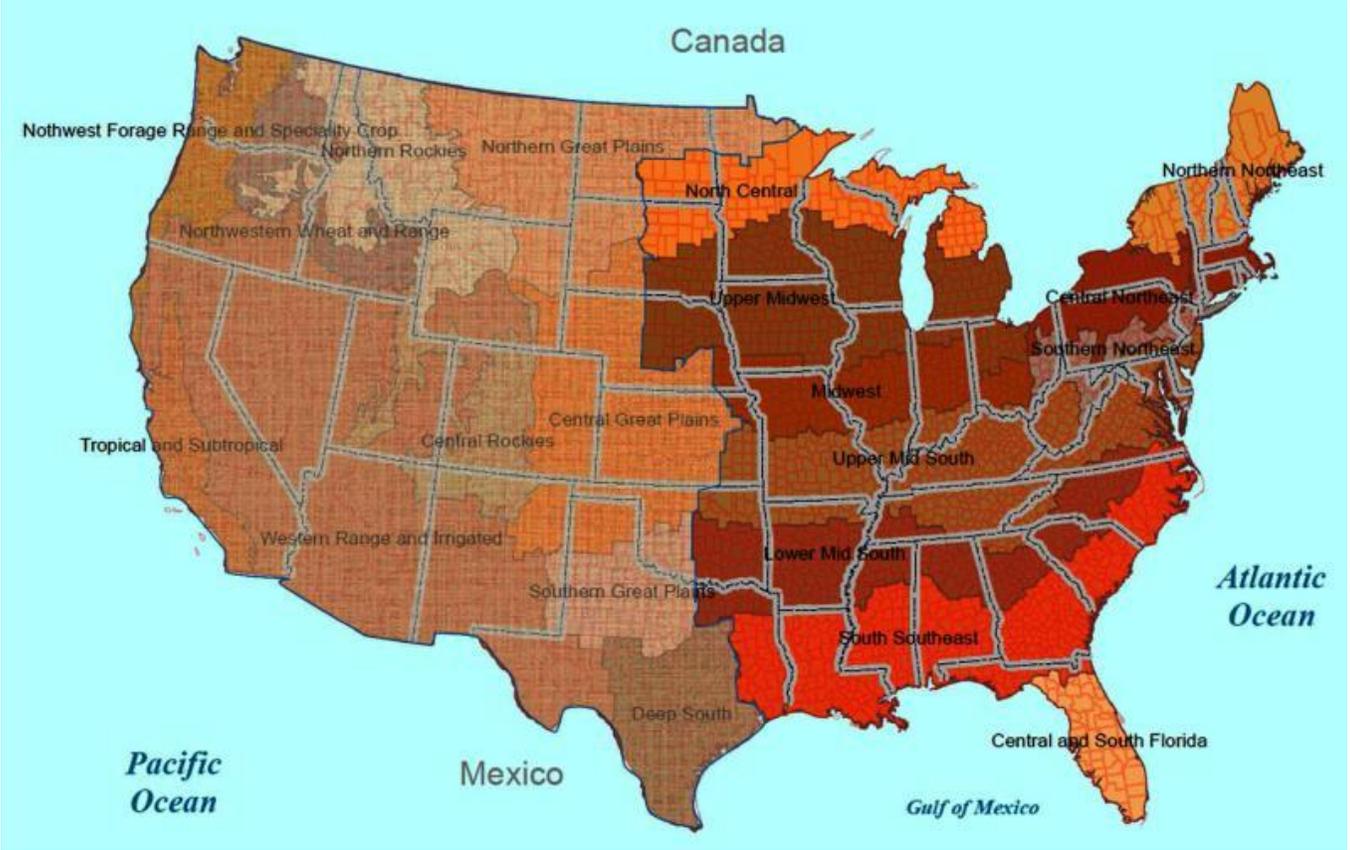
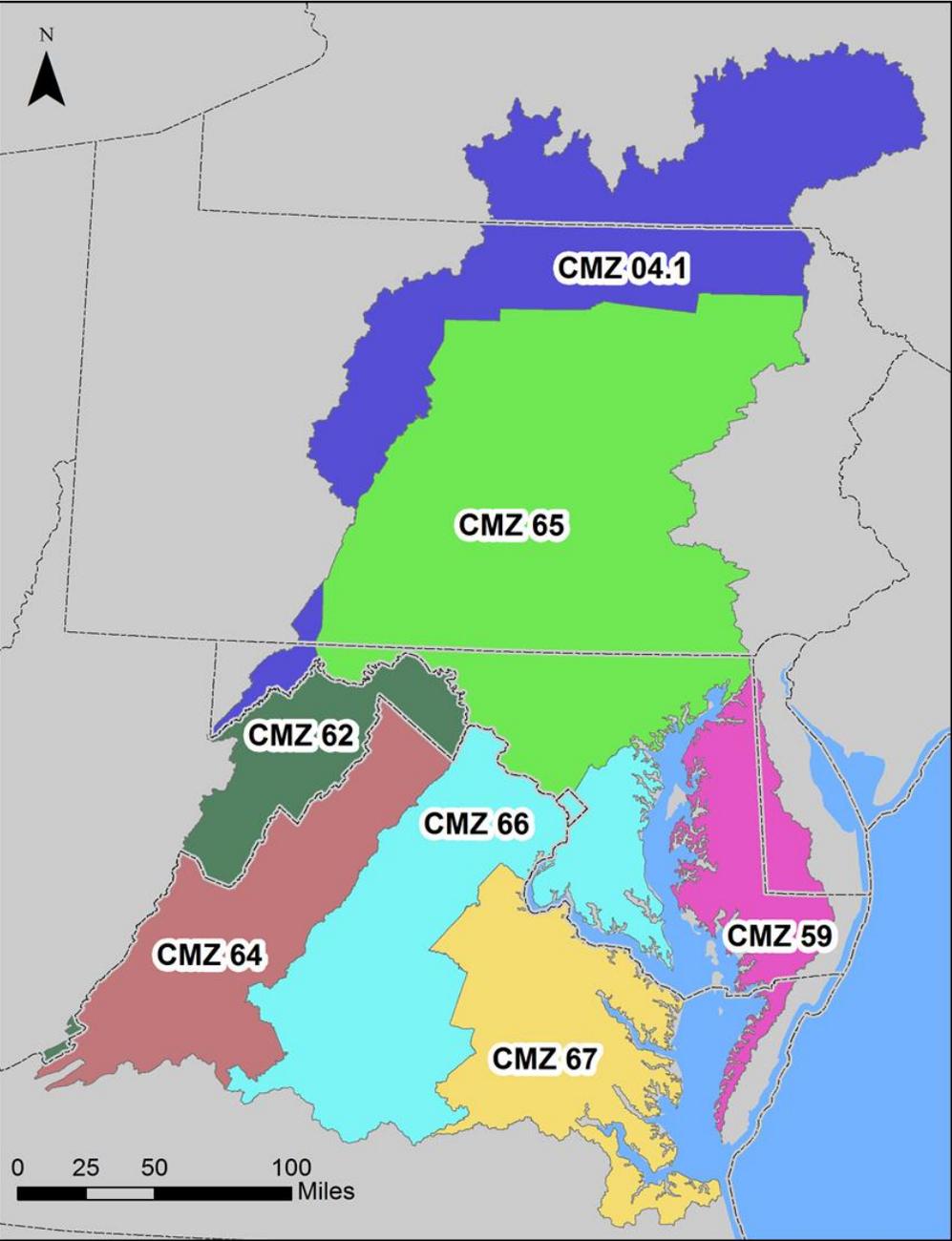
$$\text{RUSLE2} \Rightarrow A = \text{RKLSCP}$$



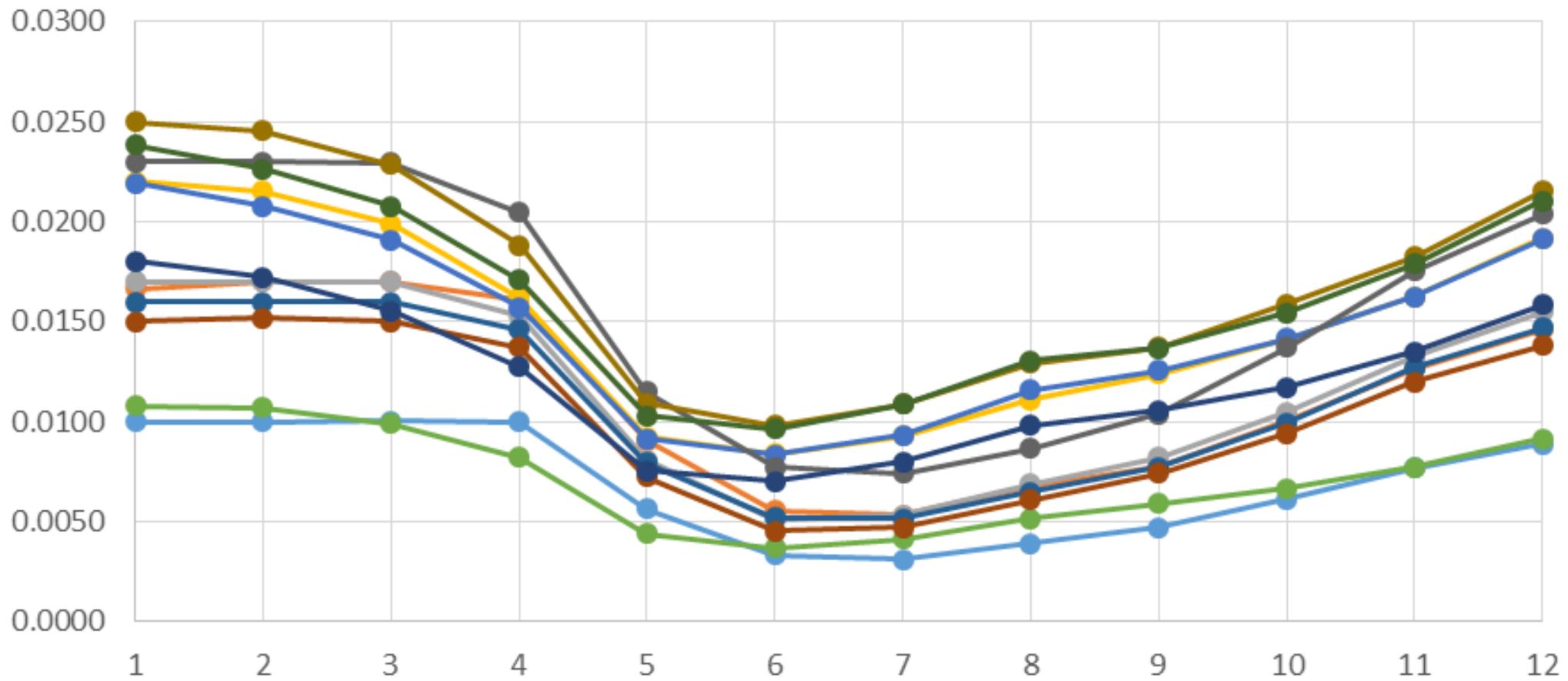
- R = Runoff
  - =  $1.24P^{1.36}$  P from PRISM
- K = Erodibility
  - from STATSGO and gSSURGO
- LS = slope length
  - =  $(\text{Flow Accumulation} \times \text{Cell Resolution} / 22.1)^{0.4} \times (\text{Sin}(\text{Slope} \times 0.01745) / 0.09)^{1.4} \times 1.4$
- C = C-Management Factor
  - ~~from Tetrattech and AgWG~~
  - STAC via Dave Lightle
- P = Practice
  - = 1 since no action loads



# State CMZs and Forage Production Zones

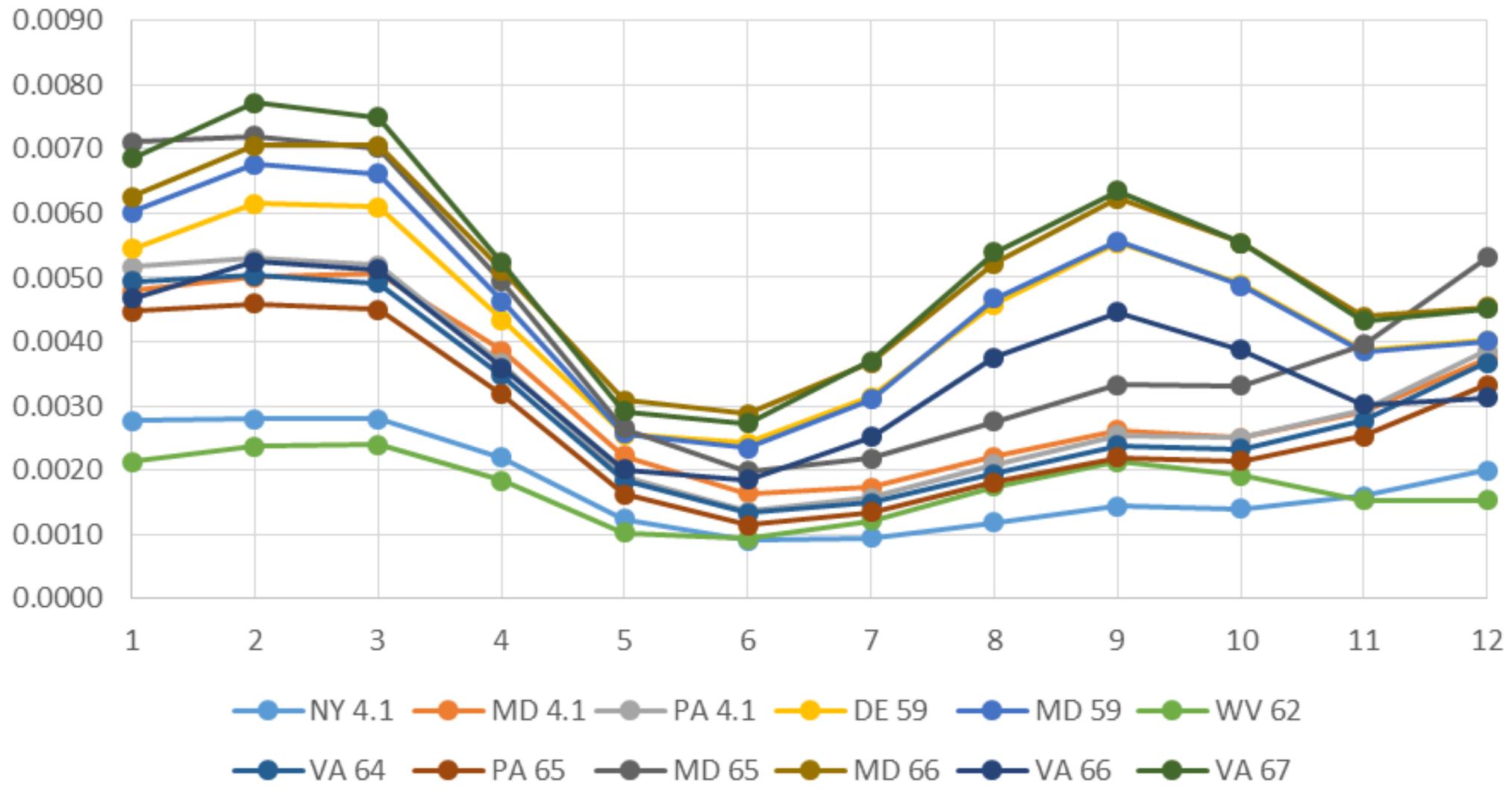


### Alfalpa C Factor by Month

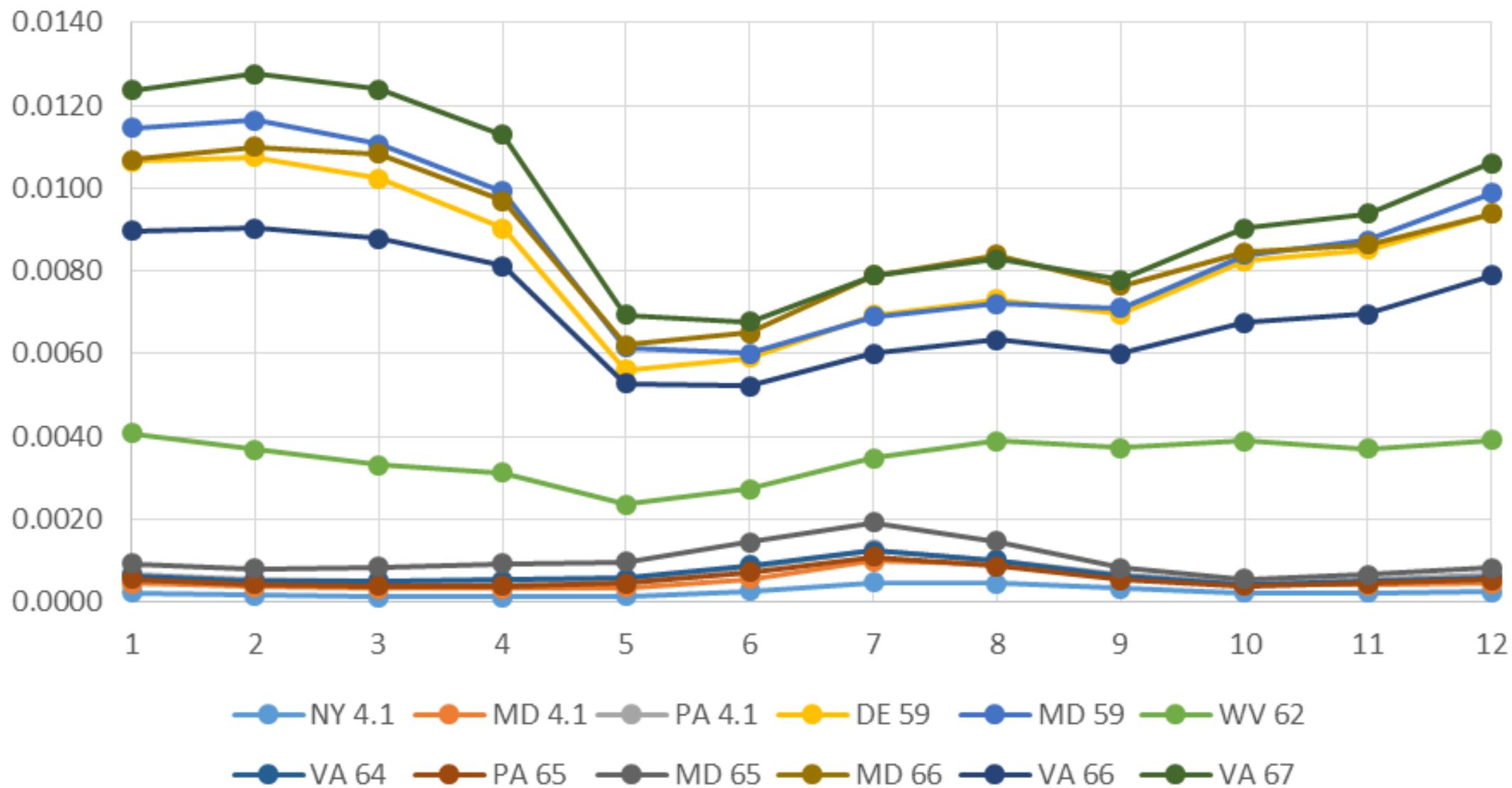


- NY 4.1
- MD 4.1
- PA 4.1
- DE 59
- MD 59
- WV 62
- VA 64
- PA 65
- MD 65
- MD 66
- VA 66
- VA 67

### Other Managed Hay C Factor by Month

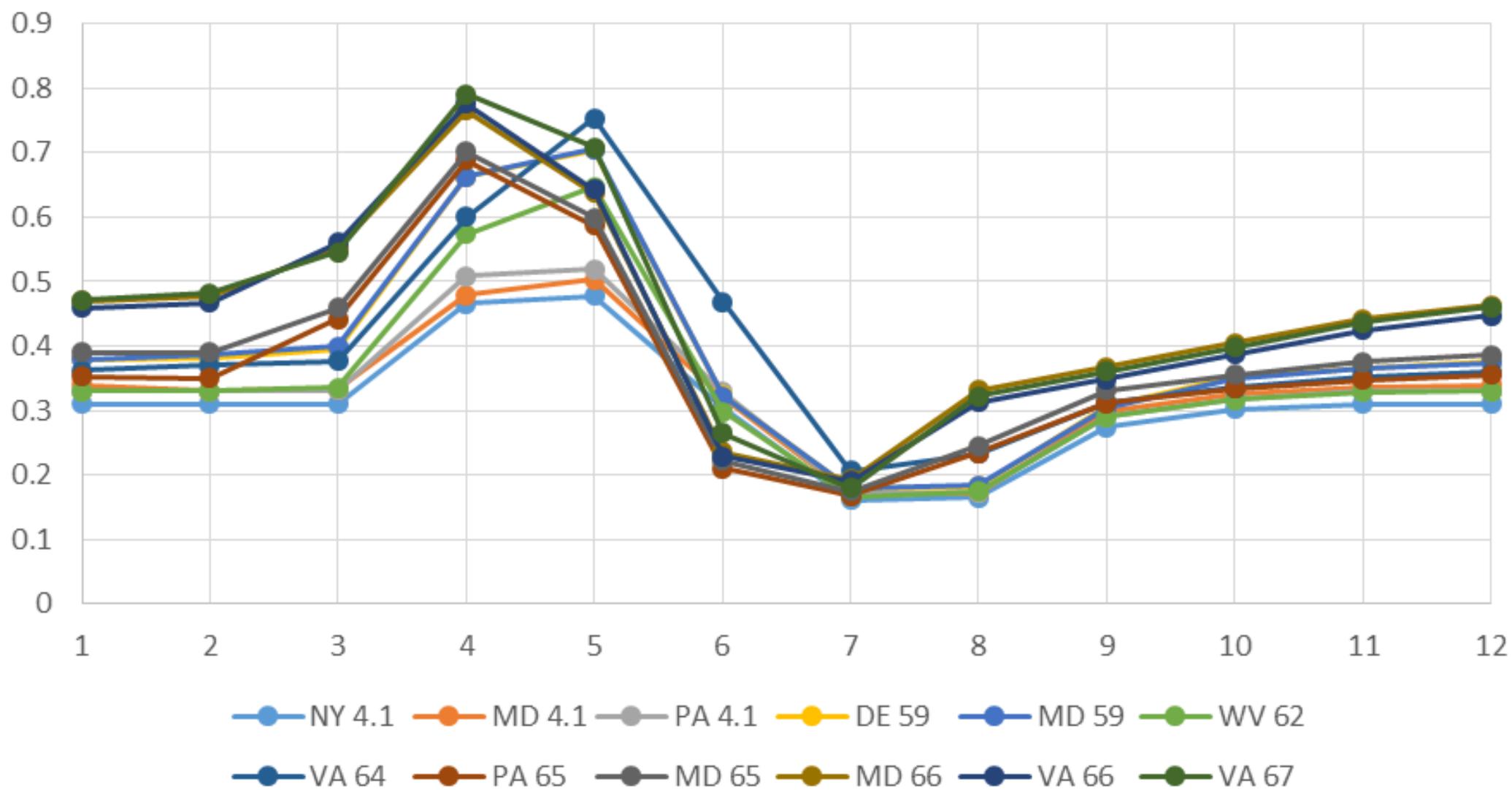


### Pasture C Factor by Month

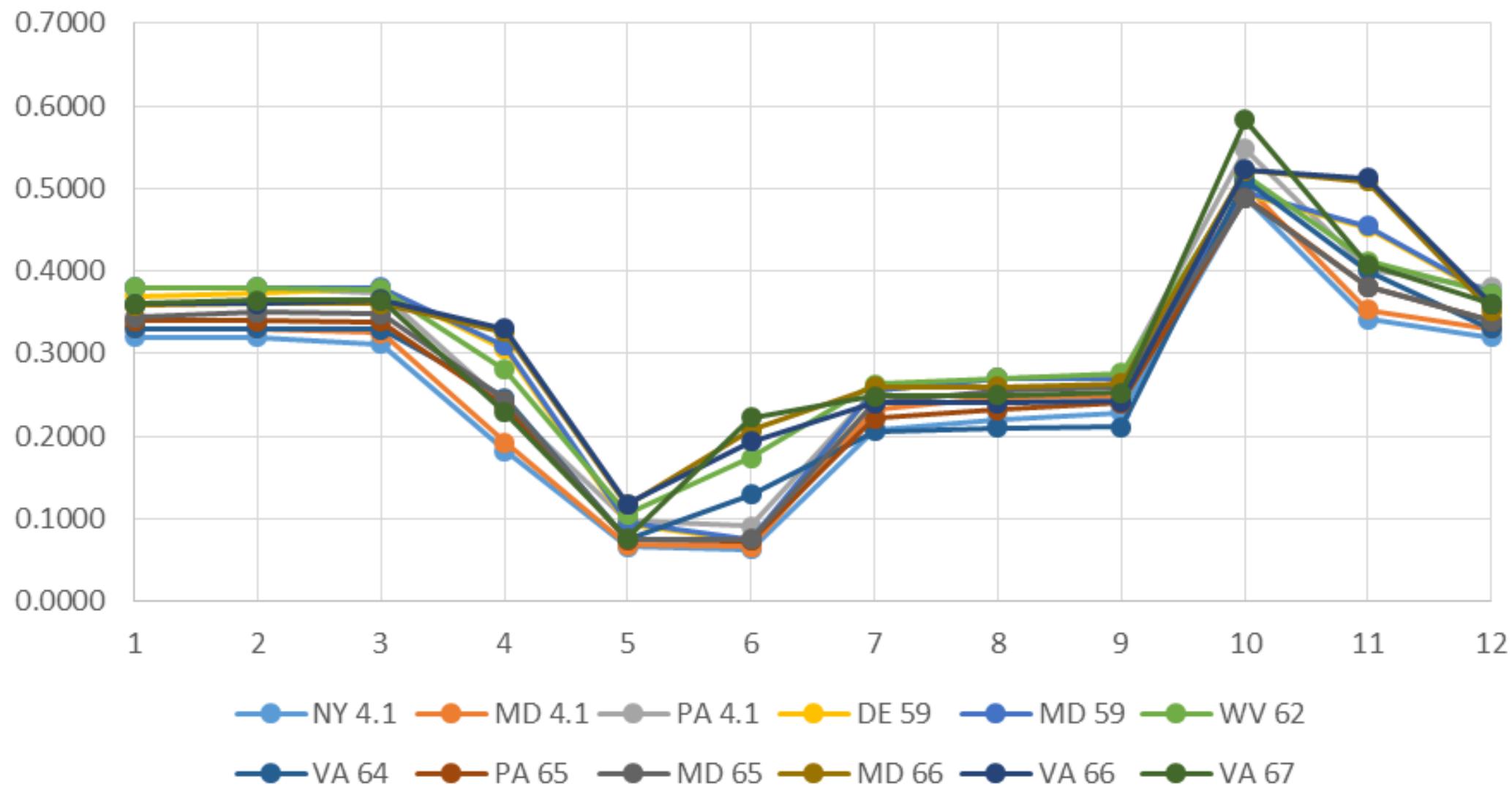




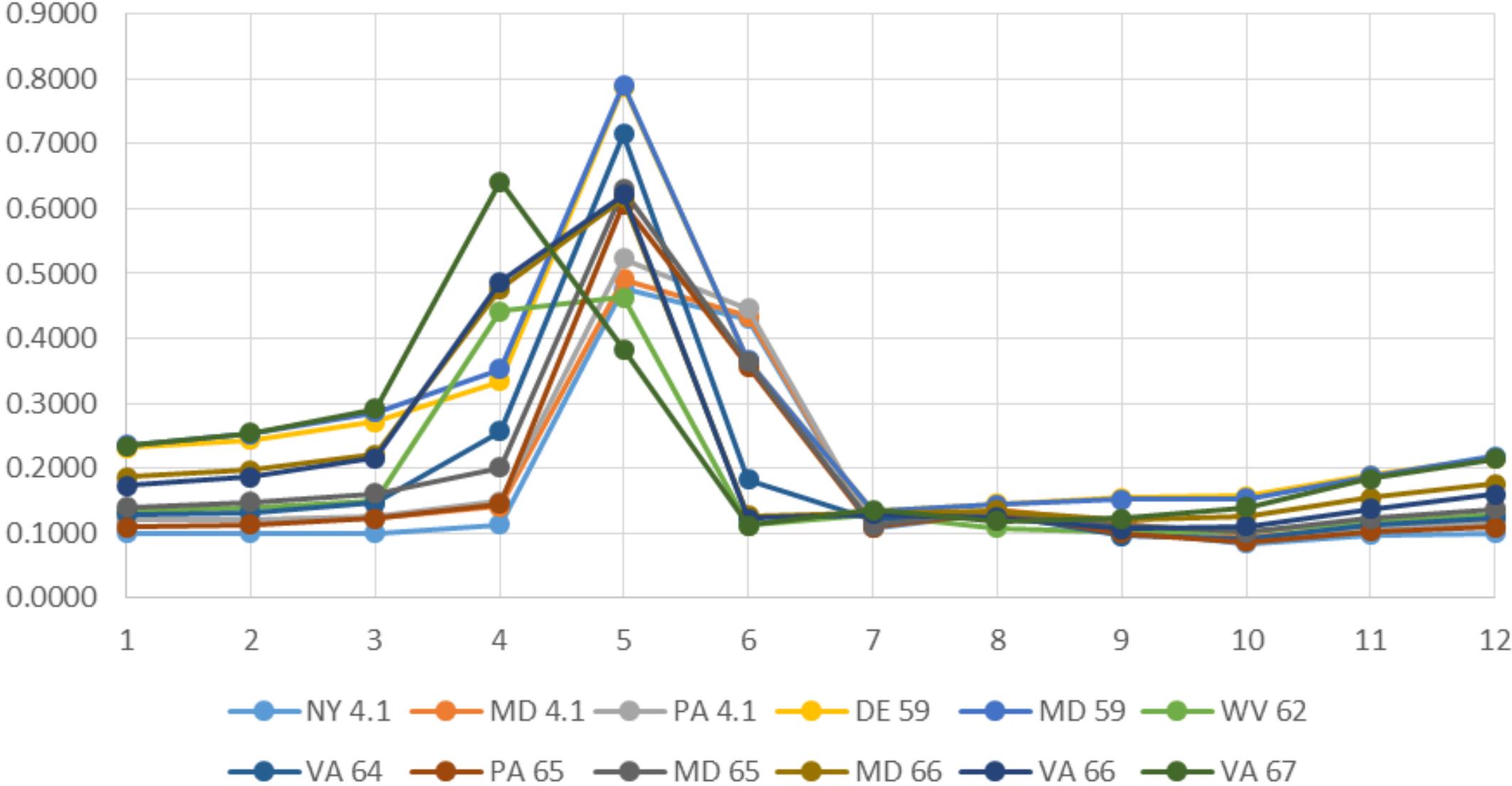
### Corn for Silage C Factor by Month



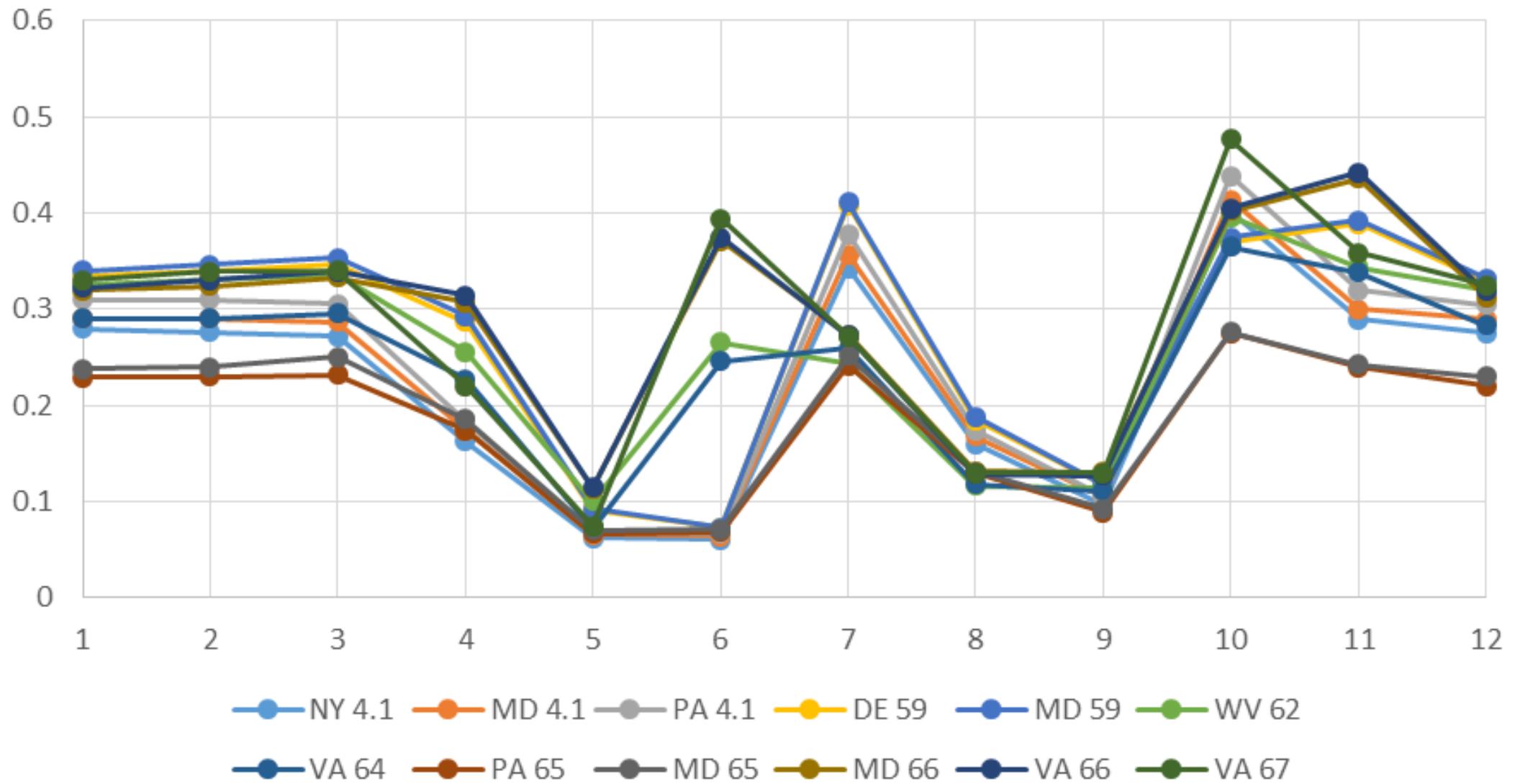
### Winter Wheat C Factor by Month



### Soybean C Factor by Month



# Double Crops C Factor by Month



# Background/Question

- **Does the Ag Workgroup approve the use of these revised RUSLE2 results?**

# What's Next for the AMS?

- March – Spring Break!
- April – Continue discussions regarding how best to use of APLE model for future scenarios (progress, milestones and WIPs)
- May – Inputs may be available for detailed review by AMS (allowing a jump-start of the fatal flaw review)
- June – Begin compiling partnership comments for fatal flaw