

# Choosing New Colors

Take 2

June 2015

# Ventilation Index (Old Colors)

UW WRF-GFS 4km Domain

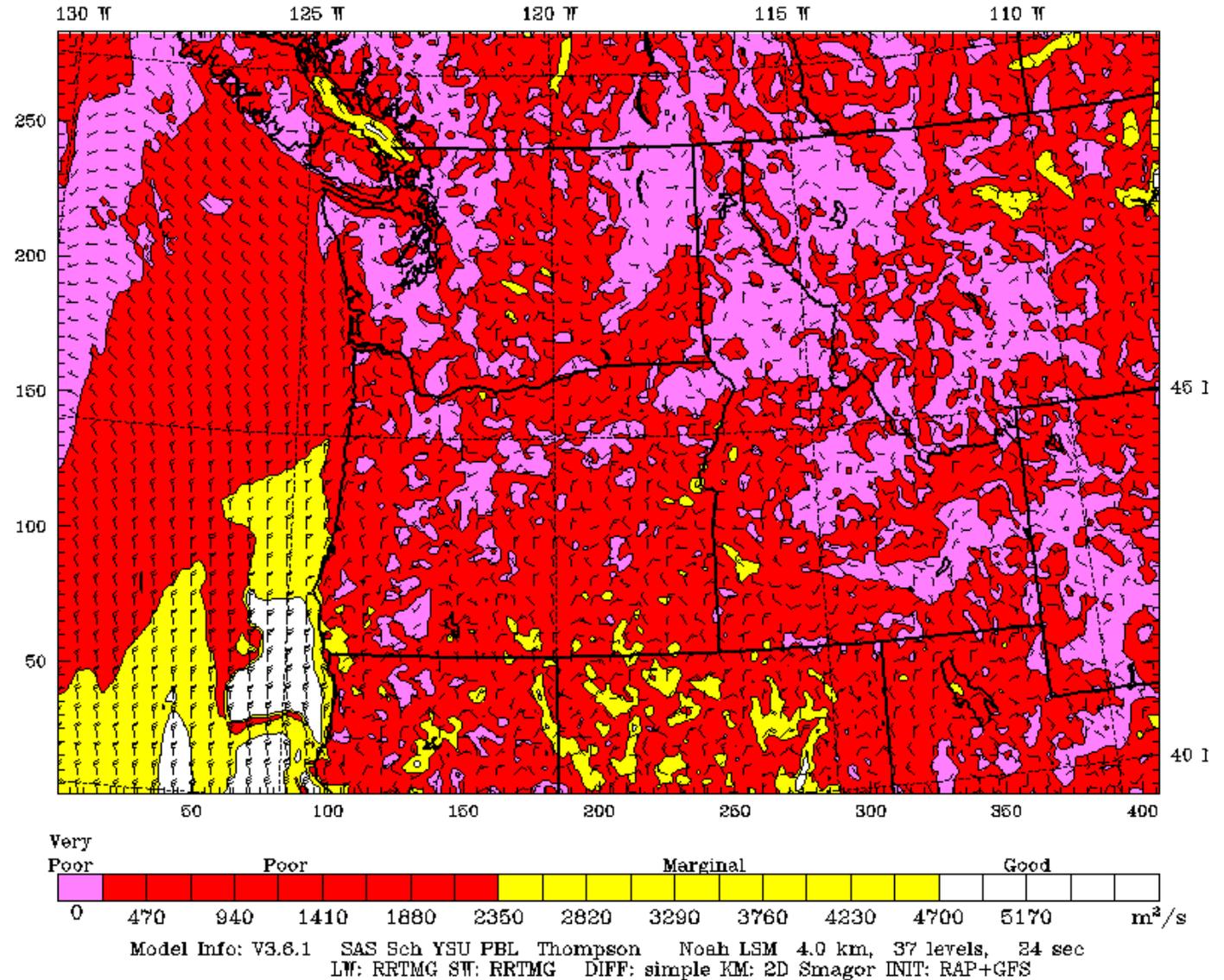
Init: 12 UTC Wed 03 Jun 15

Fcst: 24 h

Valid: 12 UTC Thu 04 Jun 15 (05 PDT Thu 04 Jun 15)

Ventilation Index ( $\text{m}^2/\text{s}$ )

20m Horizontal Wind (full barb = 10kts)



# Ventilation Index (New Colors)

UW WRF-GFS 4km Domain

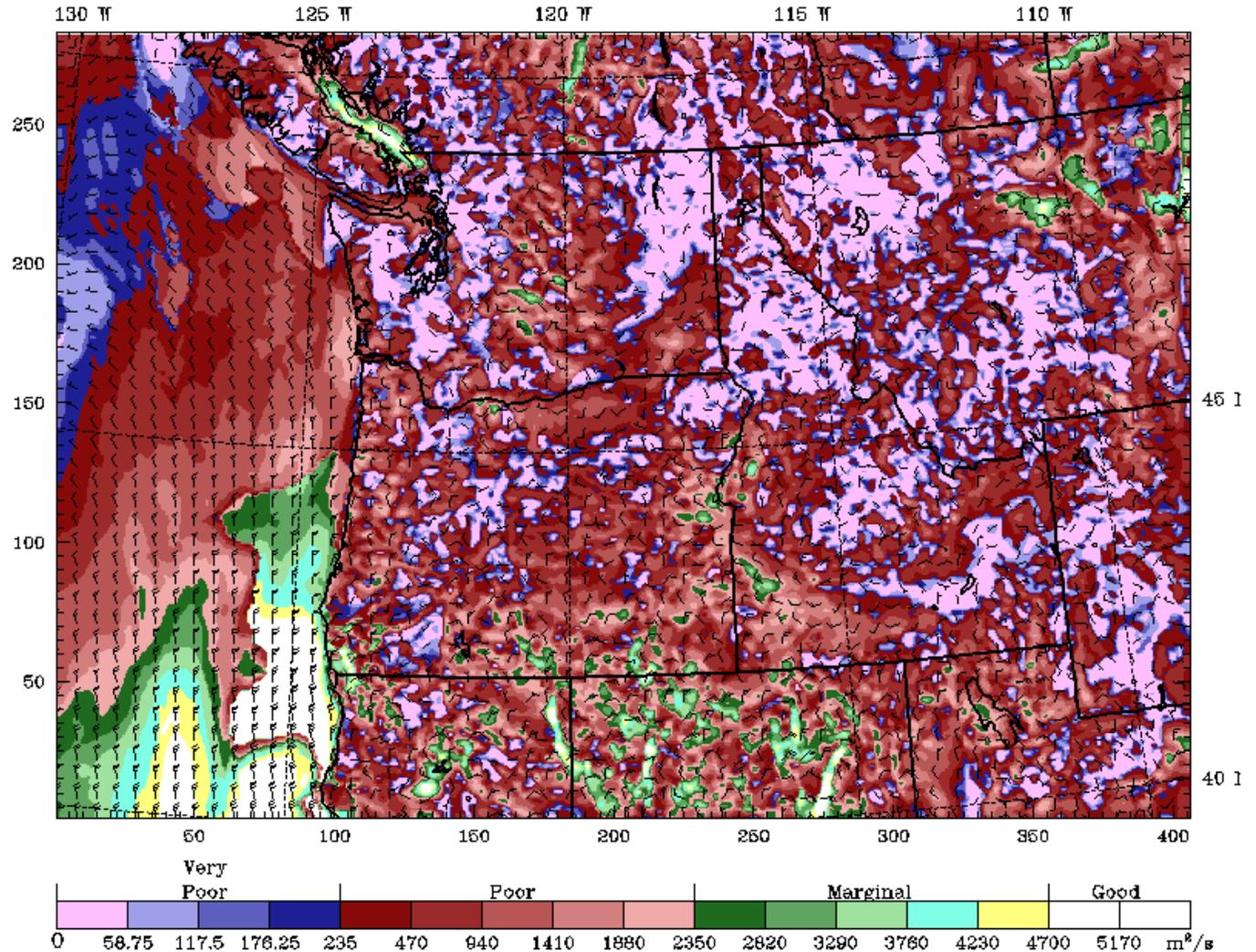
Init: 12 UTC Wed 03 Jun 15

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20m Horizontal Wind (full barb = 10kts)



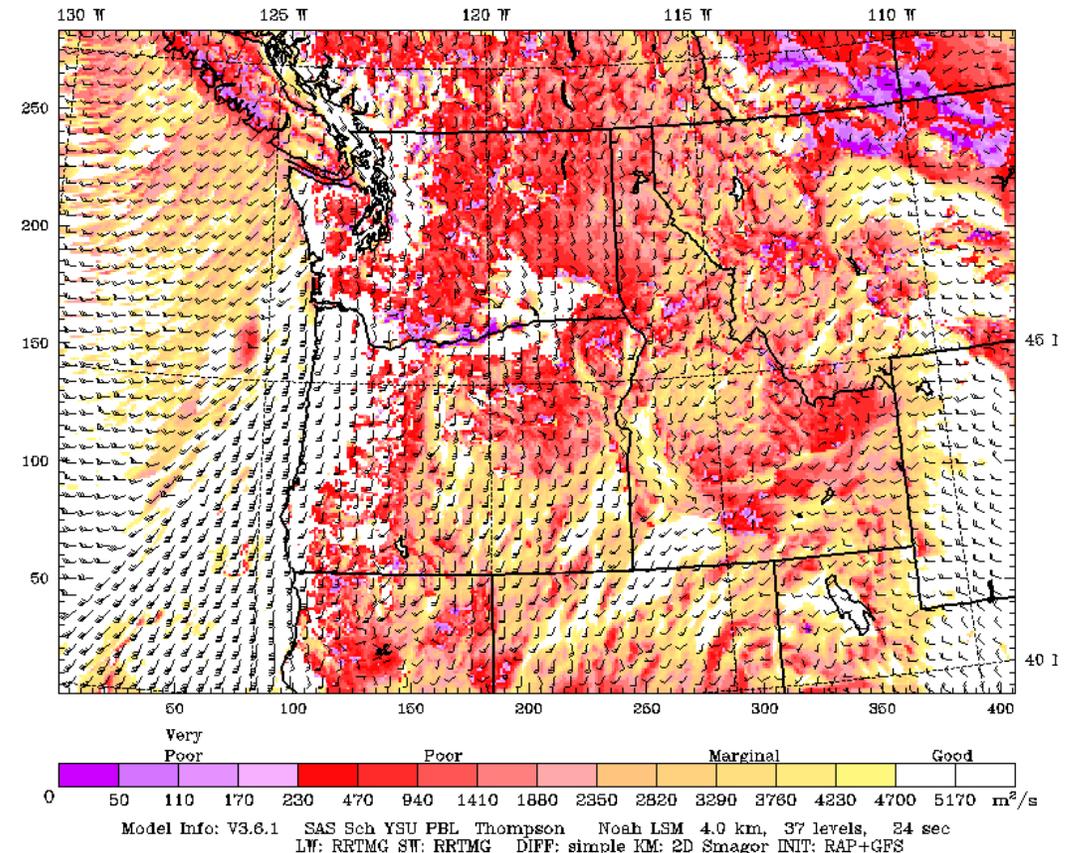
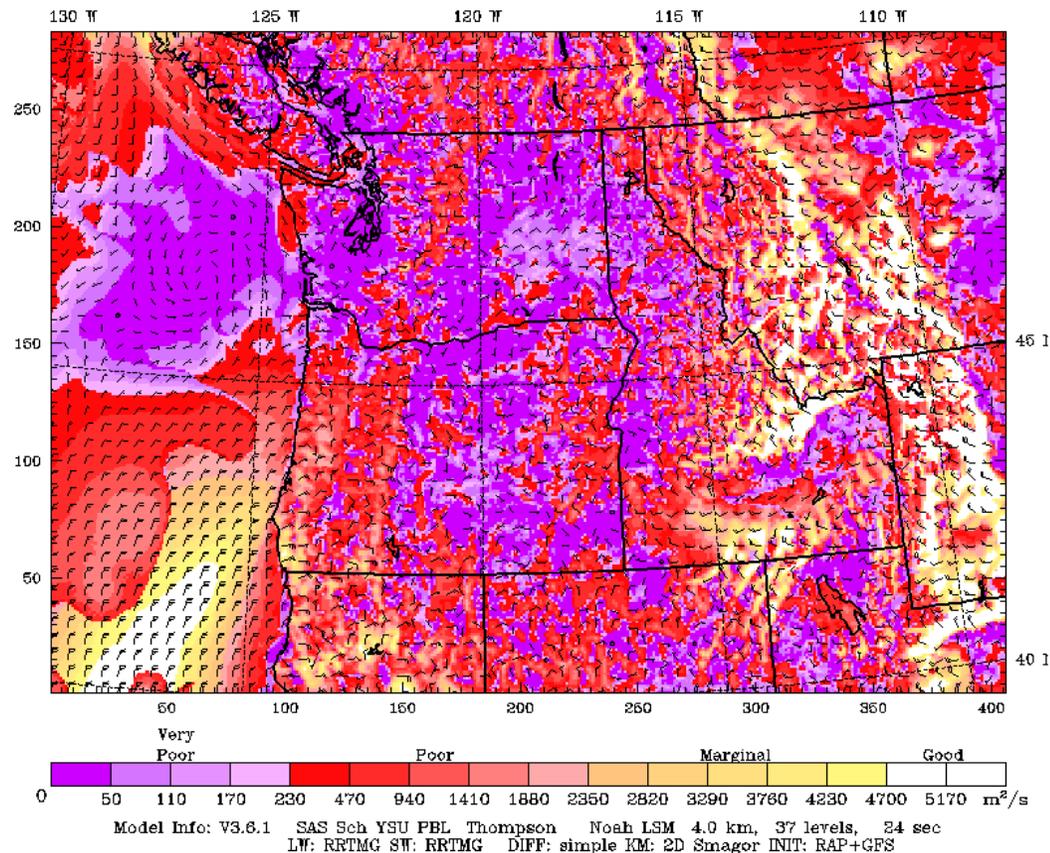
Model Info: V3.6.1 SAS Sch YSU PBL Thompson Noah LSM 4.0 km, 37 levels, 24 sec  
LW: RRTMG SW: RRTMG DIFF: simple KM: 2D Smagor INIT: RAP+GFS

# New, New Option 1

- Preferred by Andrea Boyer (Nez Perce), Paul Rossow (ERO), Mary Fauci (Nez Perce) and Kary Peterson (ERO) when combined with 7, and Phil S. (PSCAA) tied with 2

UW WRF-GFS 4km Domain      Init: 00 UTC Fri 15 Feb 13  
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 Ventilation Index ( $m^2/s$ )  
 20m Horizontal Wind (full barb = 10kts)

UW WRF-GFS 4km Domain      Init: 00 UTC Mon 17 Dec 12  
 Fcst: 69 h      Valid: 21 UTC Wed 19 Dec 12 (13 PST Wed 19 Dec 12)  
 Ventilation Index ( $m^2/s$ )  
 20m Horizontal Wind (full barb = 10kts)

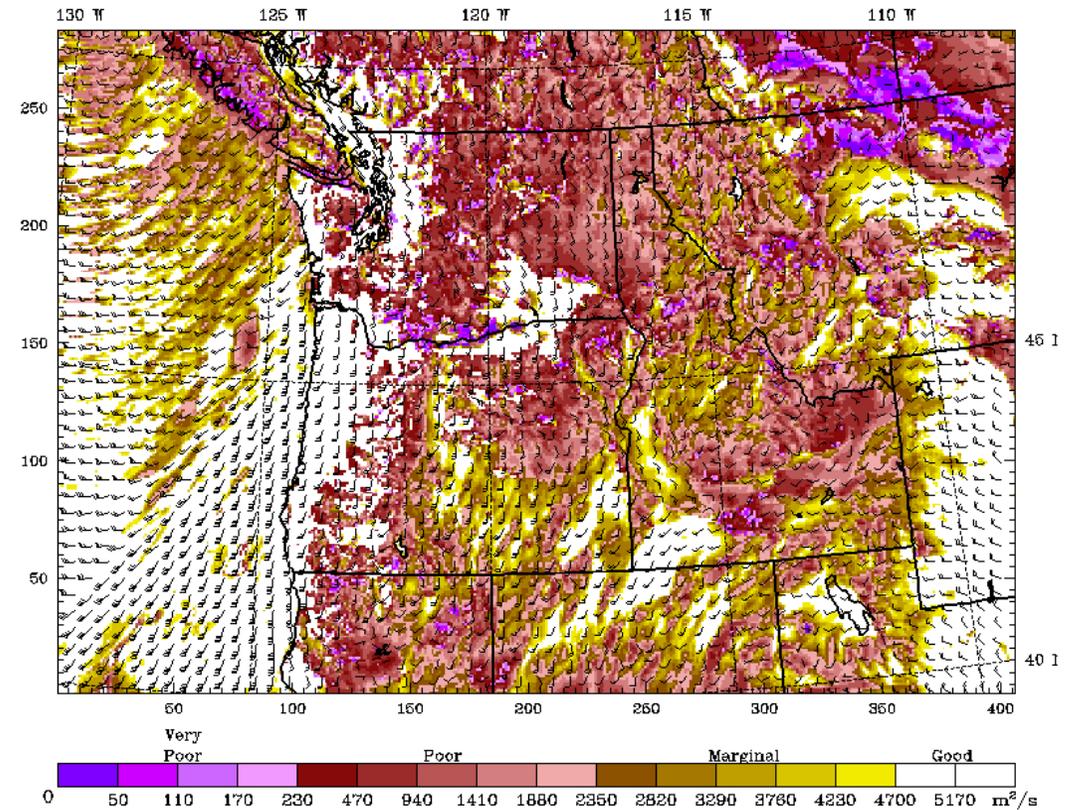
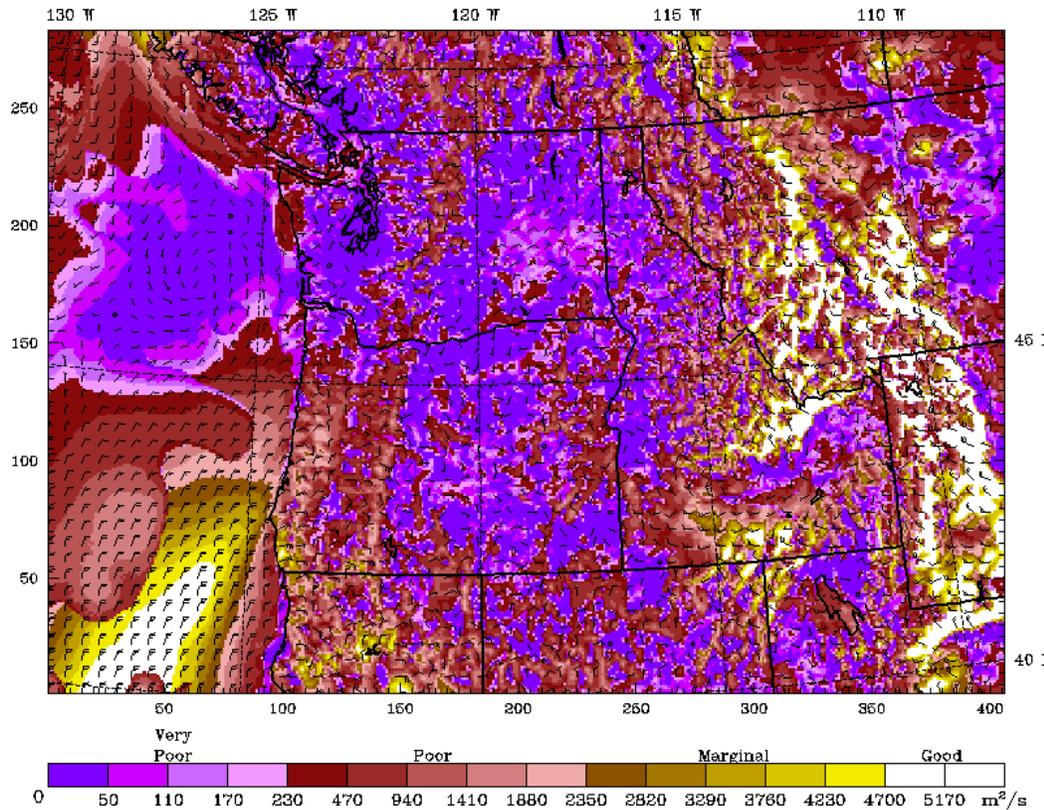


# New, New Option 2

- Preferred by Rob... nuff said. Preferred by Phil S. (PSCAA) tied with 1, and by Jake W. (IDEQ) tied with 4
- Richer version of 1.

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 Ventilation Index ( $m^2/s$ )  
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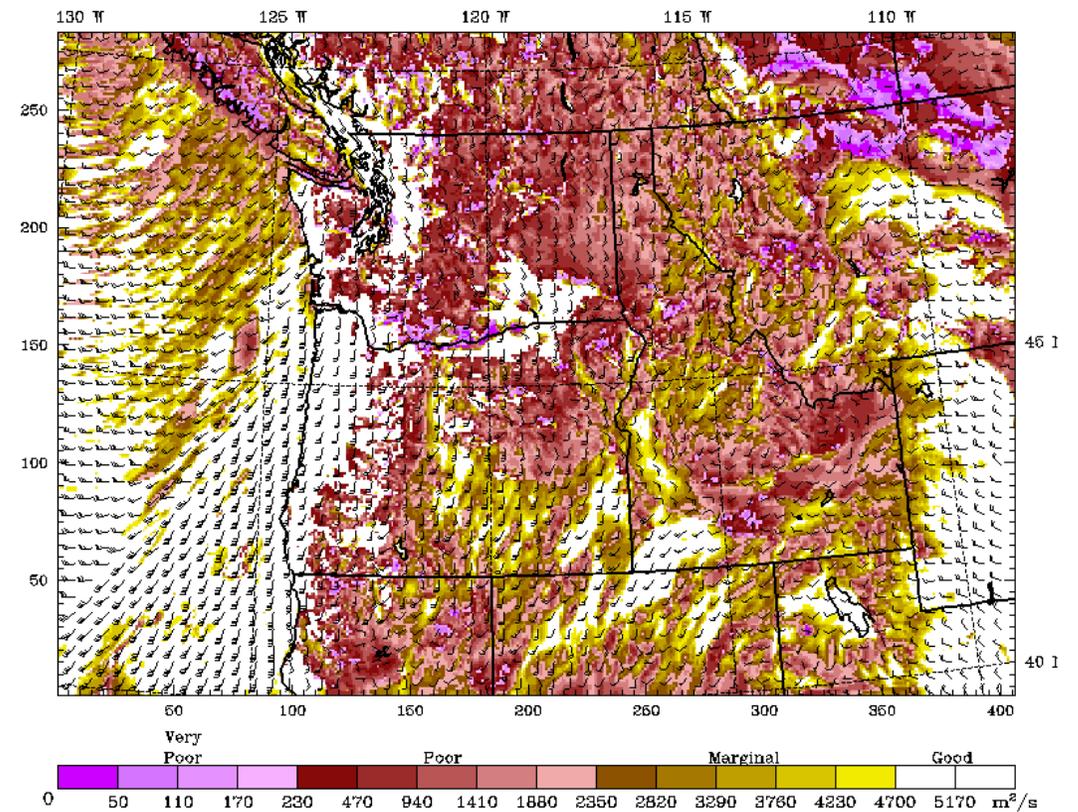
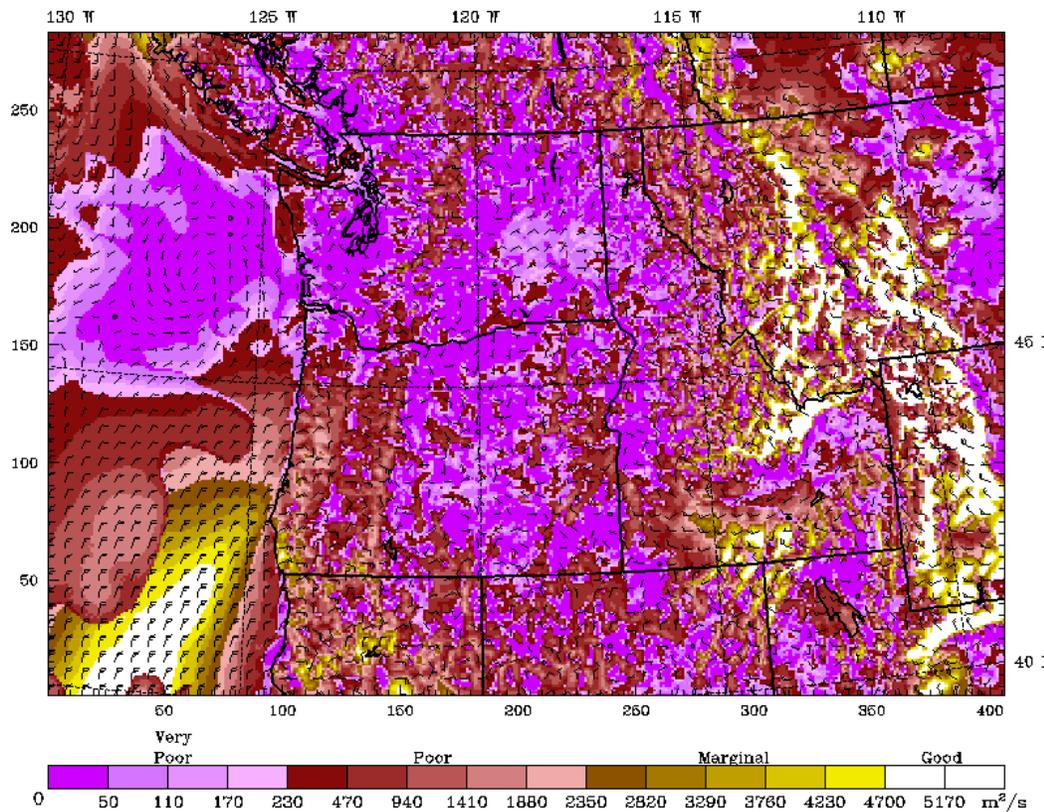


# New, New Option 3

- No one preferred this one.
- Same as 2 for Poor and Marginal except same Very Poor as 1.

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# New, New Option 4

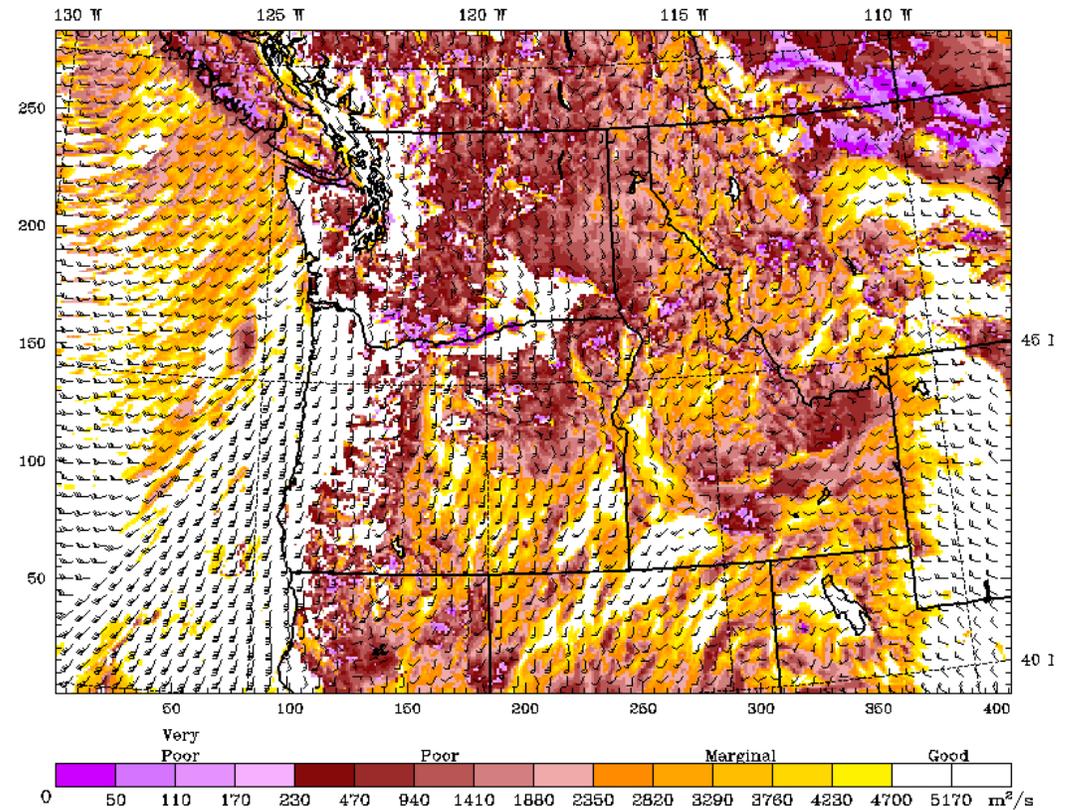
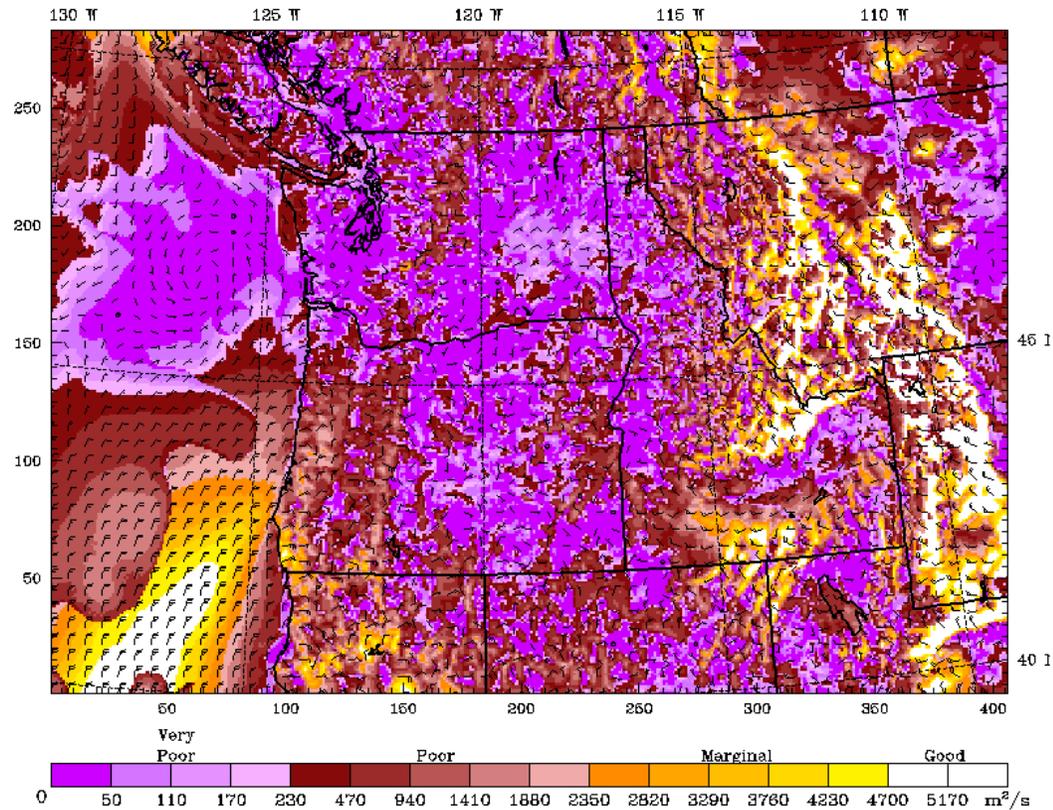
- Jake W. (IDEQ) preferred this one tied with 2.
- Like 1 for Very Poor, but Marginal is between 1 and 2 in yellow-orange-brown spectrum.

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 Fcst: 6 h  
 Ventilation Index (m<sup>2</sup>/s)  
 20m Horizontal Wind (full barb = 10kts)

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UW WRF-GFS 4km Domain  
 Fcst: 69 h  
 Ventilation Index (m<sup>2</sup>/s)  
 20m Horizontal Wind (full barb = 10kts)

Init: 00 UTC Mon 17 Dec 12  
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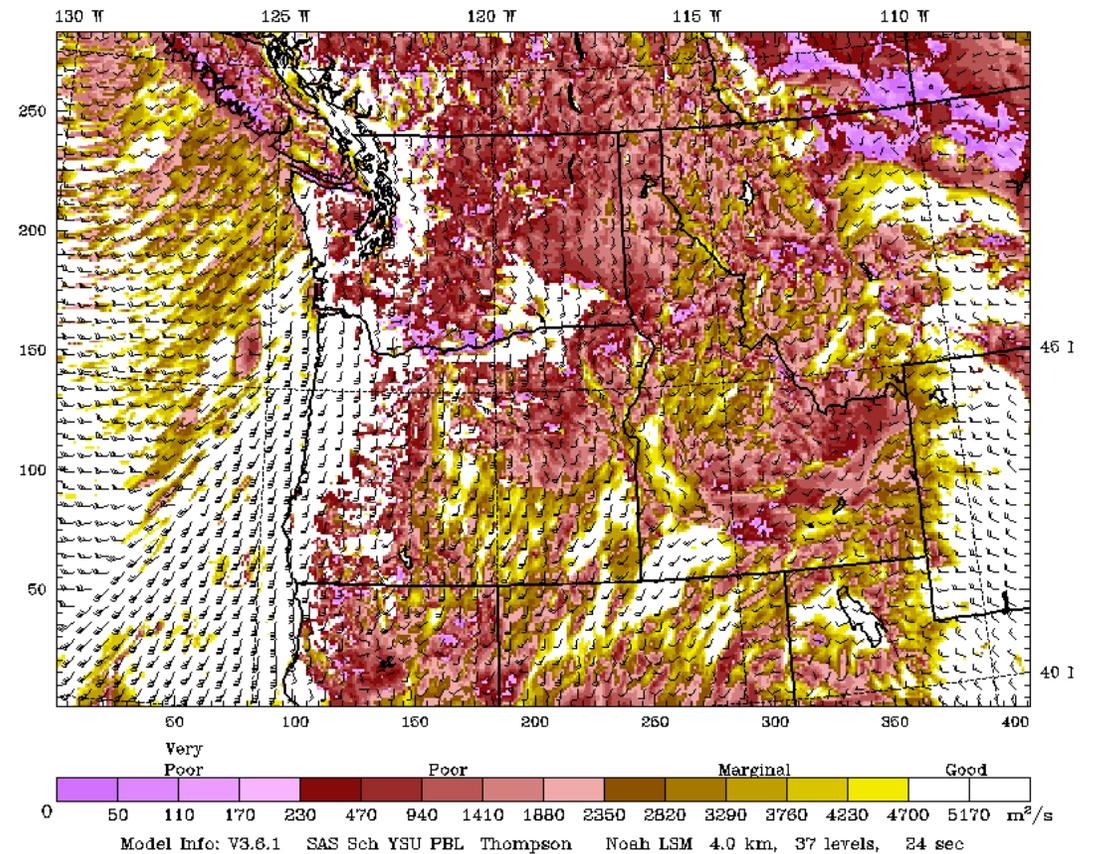
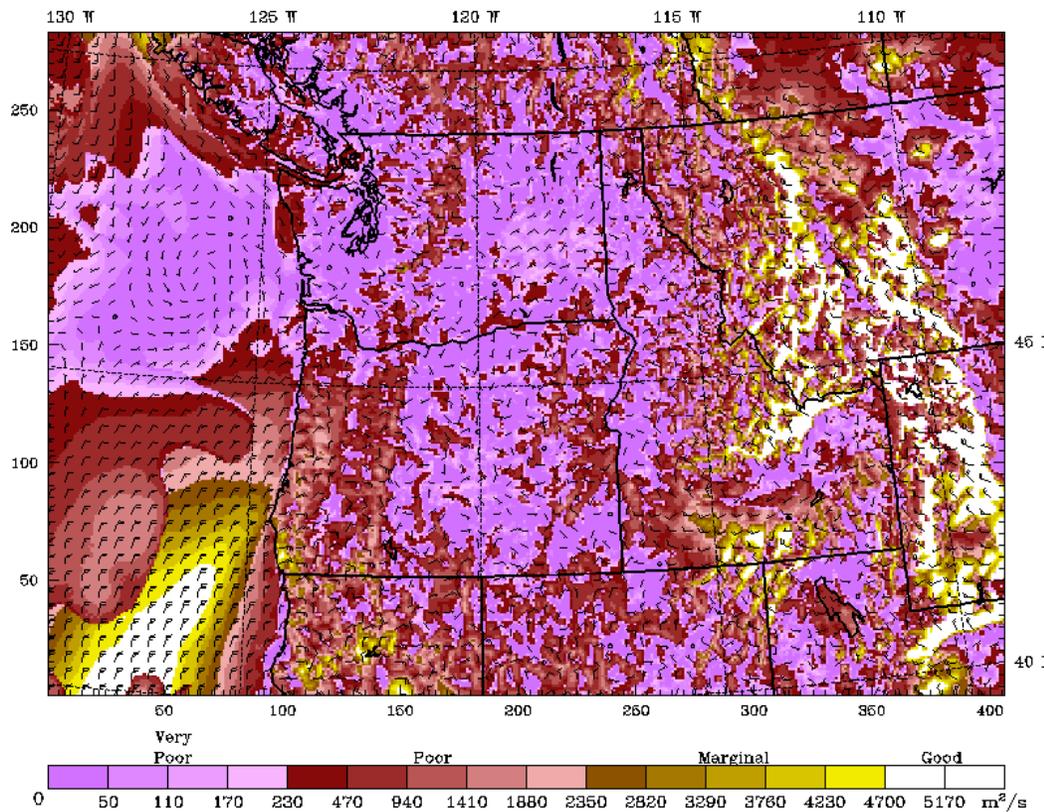


# New, New Option 5

- No one preferred this one.
- Same Marginal as 2 and 3, Very Poor is even less definition than 3.

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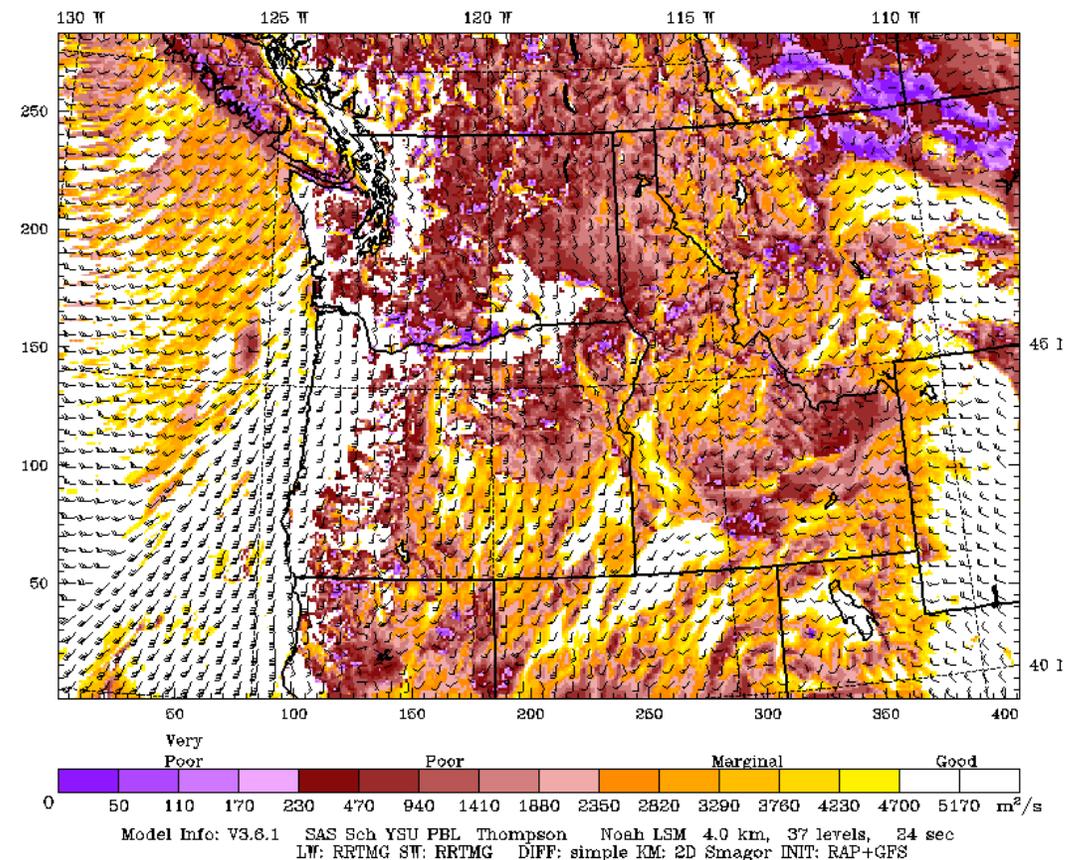
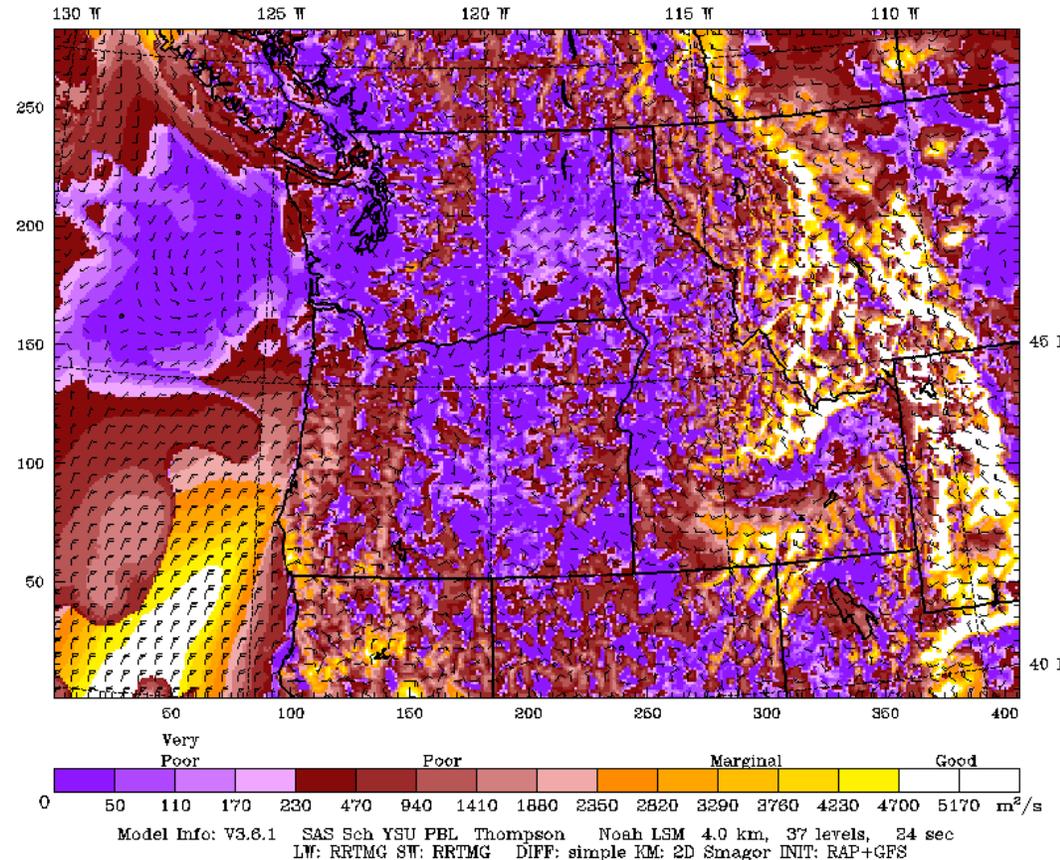


# New, New Option 6

- Clint Bowman (Ecology) preferred this one tied with 6 or 7.
- Like 2 for Very Poor, and like 4 for Marginal (more orange)

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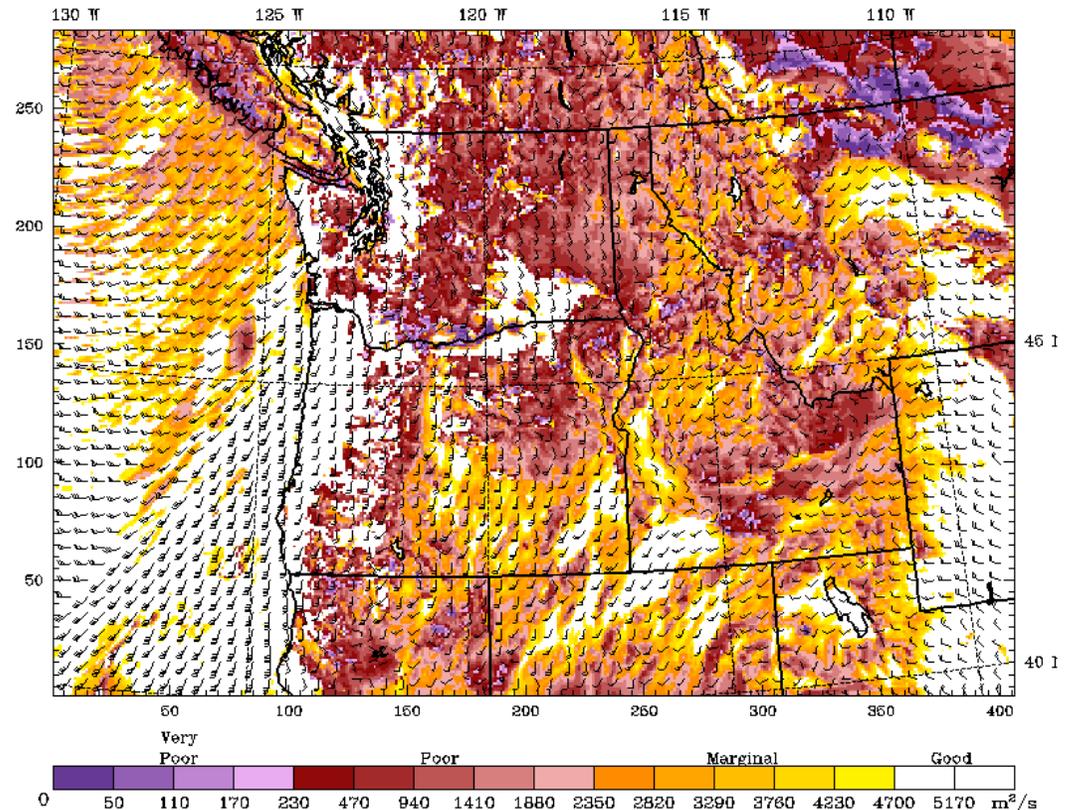
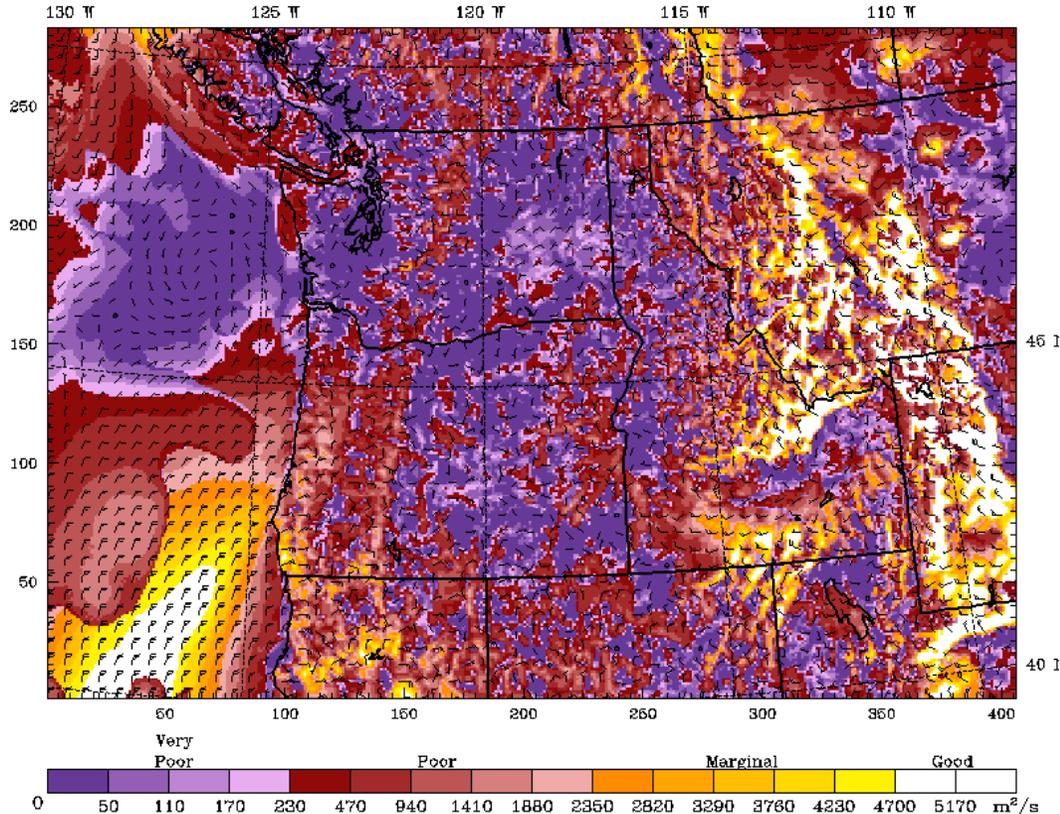


# New, New Option 7

- Clint Bowman (Ecology) preferred this one tied with 6 or 7, Mary Fauci (Nez Perce) and Kary Peterson (ERO) preferred this one for the marginal colors.
- Dark purple more than others for Very Poor, and like 4&6 for Marginal

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# Summary of Colors

Option	Very Poor	Poor	Marginal	Preferred
1	Magenta – Pink	Red – Salmon	Peach – Yellow	Andrea, Phil S., Paul R., Mary F. (VP,P), Kary P. (VP,P)
2	Purple – Pink	Brick – Salmon	Brown – Yellow	Phil S., Rob E.
3	Magenta – Pink	Brick – Salmon	Brown – Yellow	
4	Magenta – Pink	Brick – Salmon	Orange – Yellow	
5	Pink – Pink	Brick – Salmon	Brown – Yellow	
6	Purple – Pink	Brick – Salmon	Orange – Yellow	Clint B., Jake W., Paul R.
7	Deep Purple – Pink	Brick – Salmon	Orange – Yellow	Clint B., Mary F. (M), Kary P. (M), Rob E., Brian P., Jay C.

# Add Your Vote

Category	Choice	Found in which option	Preference
Very Poor			
	Magenta – Pink	1, 3, 4	Andrea B., Phil S., Paul R., Mary F., Kary P.
	Purple – Pink	2, 6	Phil S., Rob E., Jake W., Clint B., Paul R.
	Pink – Pink	5	
	Deep Purple – Pink	7	Clint B., Rob E., Brian P., Jay C.
Poor			
	Red – Salmon	1	Andrea, Phil S., Paul R., Mary F., Kary P.
	Brick - Salmon	2-7	Rob E., Jake W., Phil S., Clint B., Brian P., Jay C.
Marginal			
	Peach – Yellow	1	Andrea, Phil S., Paul R.
	Orange – Yellow	4, 6, 7	Jake W., Clint B., Mary F., Kary P., Rob E., Brian P., Jay C., Paul R.
	Brown – Yellow	2, 3, 5	Rob E.

# BufKit

- Idaho DEQ, Washington Ecology, and Nez Perce use Bufkit for smoke forecasting. They asked for UW output in this format.
- It took UW a while to get this working (thank you, David Ovens!)
- Example:
  - [http://www.atmos.washington.edu/mm5rt/bufkit\\_wrfgsd2/wrfd2\\_kotx.buf](http://www.atmos.washington.edu/mm5rt/bufkit_wrfgsd2/wrfd2_kotx.buf)

# Other Developments

- Reminders
  - Weak Wind Index
  - AgBurn Outlook
  - Deep Stable Layer
- Added trajectory locations
- Sent pop-up definitions to UW, waiting for implementation
- UW investigating a new graphical system