

2007-08 IMPROVE Field Audit Results

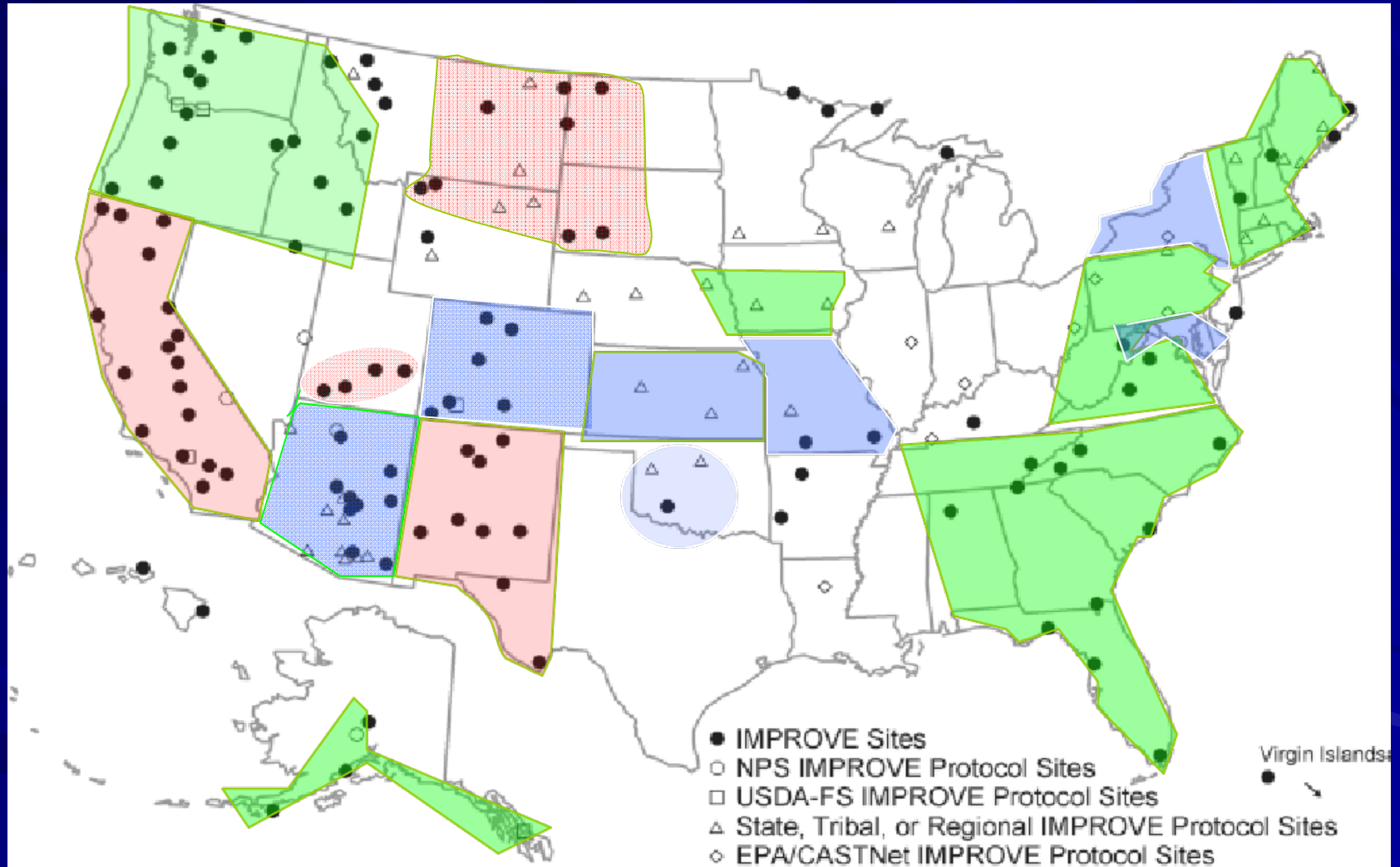
2009 IMPROVE Steering Committee
Meeting

Wind Cave, SD
September 22, 2009

Overview

- What did we accomplish in 2007-08?
- What could we conclude from our audits?
- Did we learn any valuable lessons?
- Where do we go from here?

IMPROVE/IMPROVE Protocol Network Audit Coverage



Comparative Summaries, '05-08

Activity or Criterion	Acceptance Limit/target	2005		2006		2007		2008	
Total Audits	45	35		37		38		29	
Missing Audit Reports		2		14		3		4	
Water Infiltration		0		1		1		0	
Pump Failures		0		0		1		1	
Temperature reading	>10 °C	3		2		1 5+	12 min Probe Trans	4	Probe trans
Clock Setting	> 5 minutes	2		1		1	9 min	1	9 min
Design Flow Rate	≥10%	NA		NA		3	8-10%	3	+ 10%

Comparative Summaries, '05-08

Activity or Criterion	Acceptance Limit/target	2005		2006		2007		2008	
Leaks (Max Vac)	<33 - 40.9 mv	2		1		0		1	31 mv
Vac Calibration	≥10%	4		2		2 6	+10% 7-10%	3 4	+10% 8-9%
Mag Calibrations	≥10%	0		0		3 2	+10-18% 7-10%	4(1) 7	11-12% 9-10%
Calibration plugs Missing		2		1		0		0	
Filter Handling/record keeping		3		1		1	Cracked filter	0	
Siting		0		5		2	>30°	4	<10°, >30°
Safety		0		1		1	Plank access	1	No Change

Conclusions, Recommendations & Results

- ◆ Still missing coverage in a couple of key states
- ◆ We saw an apparent decrease in audits in 08 .
- ◆ More Calibration discrepancies in 07-08 but actual failures are about the same
- ◆ Procedure for providing auditors with site coefficients has “IMPROVED”
- ◆ Duct taping calibration adapter plugs has been very successful
- ◆ Transition to new temperature probes and mV readings was messy but is better now

On-going Activities

- **Focus Auditors**
 - Filter handling
 - Using correct coefficients and forms
- **Implemented BP factor and Temperature in calibration checks in 08**
- **Move training responsibilities to Regions**
- **Developing the QA web page**
- **Move toward more interpretation of audit data**
- **Develop methodology for challenging the IMPROVE data storage card**
- **IMPROVE QAPP still needs updating in certain parts**