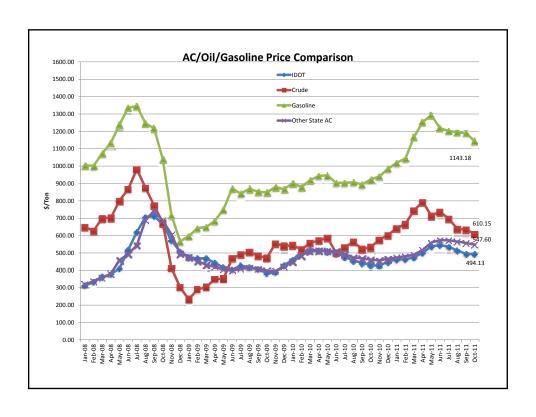
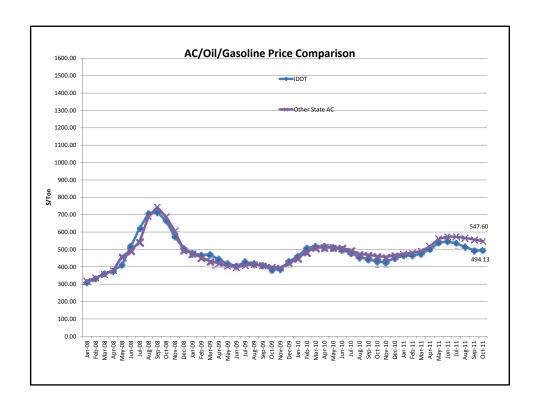




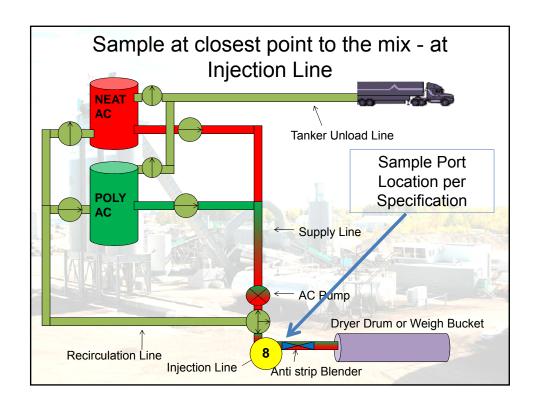
IDOT AC Price Index Bases

- Based upon largest suppliers of previous year
- Prices submitted as of first of each month
- Average = Index
- BMPR Policy Memo 1-08.0
 - PERFORMANCE GRADED ASPHALT BINDER ACCEPTANCE PROCEDURE









District PG INV Field Samples

As of 11/28/11

District	Sample Total	Off Test	% Off Test 2011
1	345	11	3.2
2	122	3	2.5
3	49	0	0
4	110	0	0
5	95	0	0
6	184	2	1.1
7	174	0	0
8	250	0	0
9	96	1	1.0
TOTAL	1425	17	1.2 %

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8	250	0	0
9	96	1	1.0
TOTAL	1425	17	1.2 %

% Off Test 2010
1.8
1.9
0.8
0
0
0.9
0.5
2.9
1.6
1.3 %



Fine Mix HMA

- Less large stone on large stone
- Relies on crushed fine on fine fractions
- Larger stone floats in matrix
- Why?
 - Improved compatibility Higher Joint Density
 - Less permeable
 - Longer life
 - Less Segregation

Future Roll Out Fine Graded

- Slow more trials in 2012
- Collect data on lay down
 - Permeability
 - Density
 - Hamburg
- ICT Research Project Underway



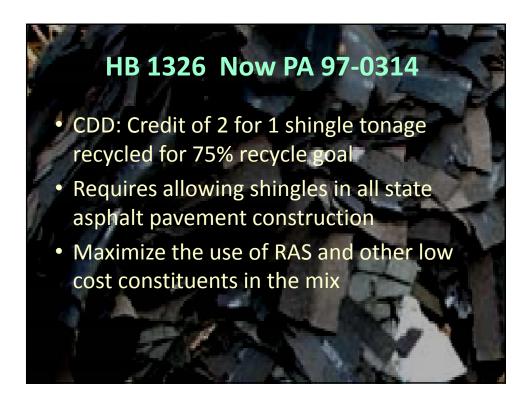
WMA

- Embrace WMA with special provision
- Allow bidding up front
- Allow approved additives plus foam
- Currently starting with N₇₀ and below

Future of WMA

- Permissive Special Provision Effective Jan. 1, 2012
- Hamburg Wheel to play a major role during production
- As we get more experienced with WMA will expand use and streamline process

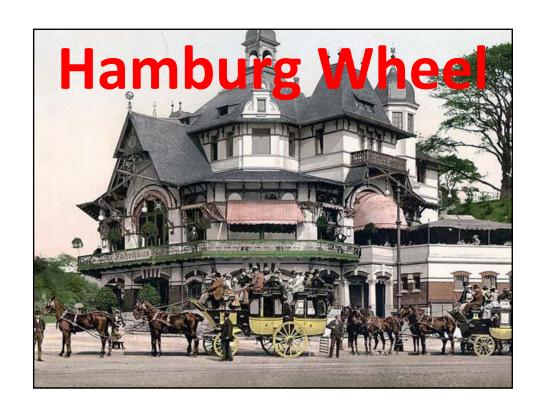




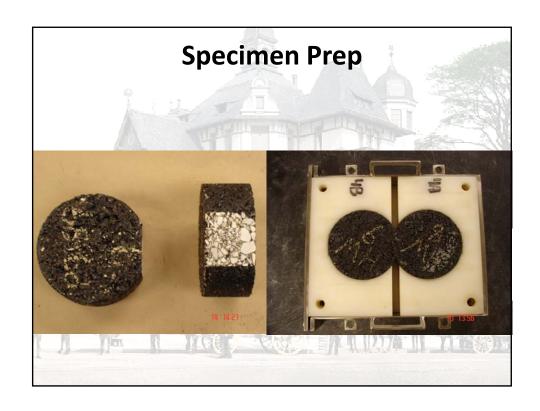


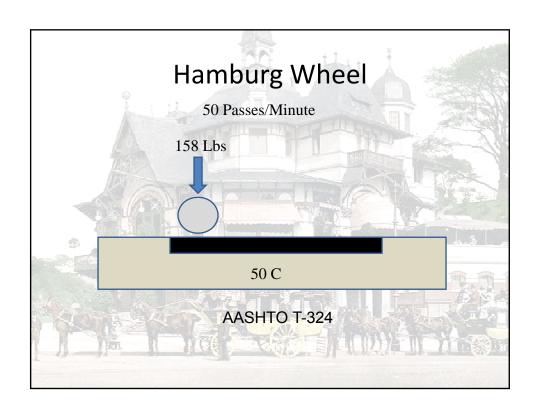


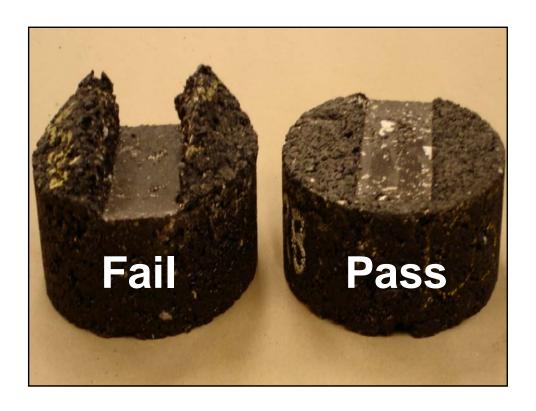
RAS Sources		
Owner	Location	Туре
Falcon Green Resources, Inc P.O. Box 638 Harvard, IL 60033	1200 N Rose Farm Rd Woodstock, IL 60098	Type 1
Southwind RAS, LLC 2250 Southwind Boulevard Bartlett, IL 60103	1950 Vulcan Blvd Bartlett, IL 60103	Type 2
Southwind RAS, LLC 2250 Southwind Boulevard Bartlett, IL 60103	6616 Darst Street Peoria, IL 60103	Type 2
Southwind RAS, LLC 2250 Southwind Boulevard Bartlett, IL 60103	4401 S. First Avenue Lyons, IL 60534	Type 2
Link: http://www.dot.il.gov/mat	erials/reclaimedasphaltshingle	es.pdf











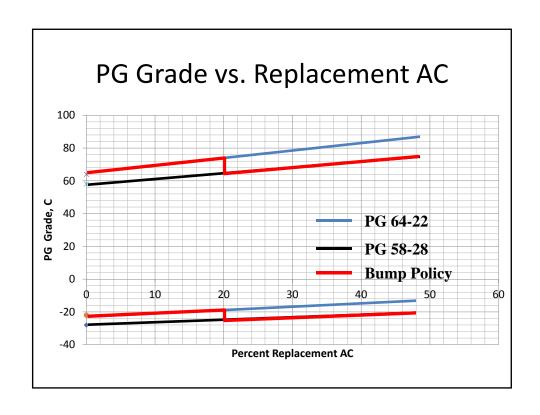
Implementation Schedule

- 2011
 - High Replacement RAP and RAS
 - Permissive use Warm Mix
- 2012 2013
 - Other New mixes (fine graded) and Renewals
- 2014 on
 - Full Implementation



Grade Bumping is **Critical**

- Low amounts of AC replacement can be tolerated with little or no impact
- Around 20% replacement mix properties are impacted
 - Grade bumping policy
 - Above 20% Double bump down
 - PG64-22 to PG 58-28
 - If not followed shorter pavement life due to cracking

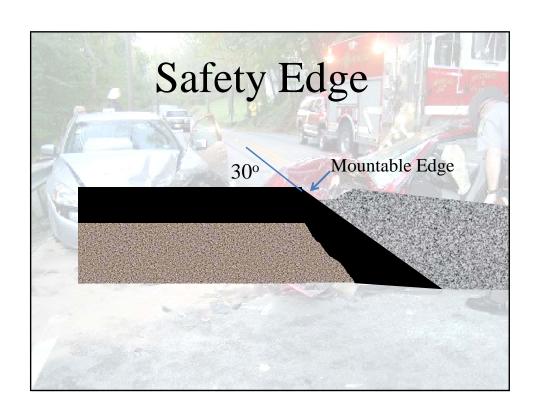




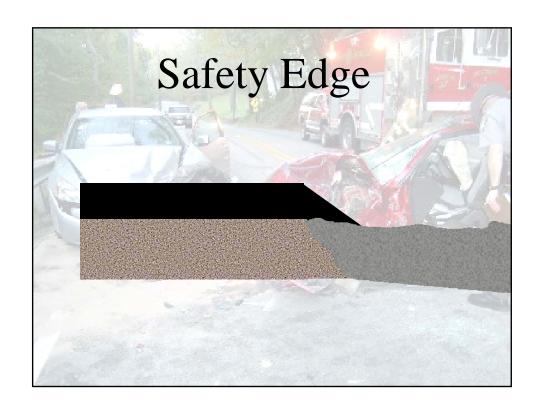


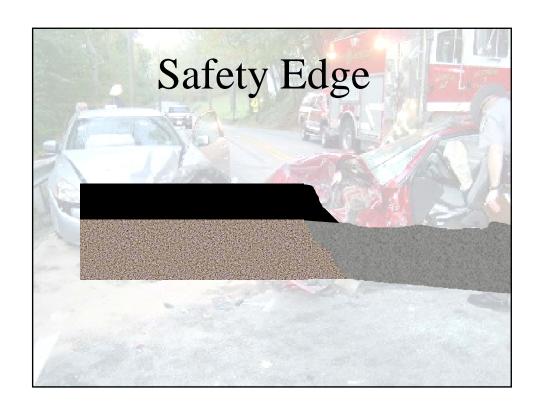


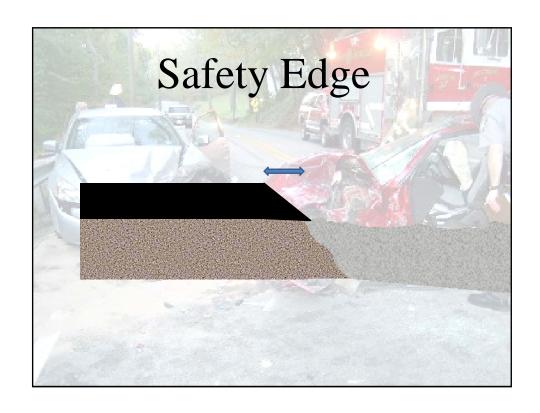


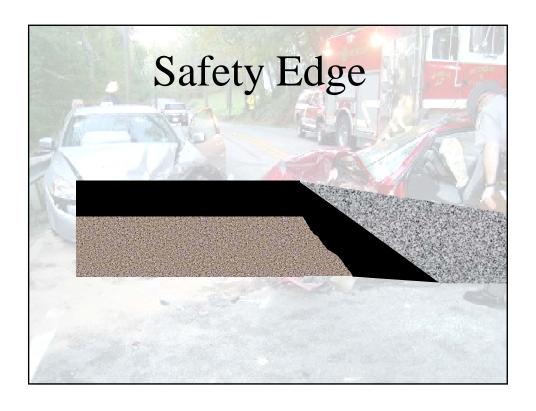












Safety Edge at IDOT

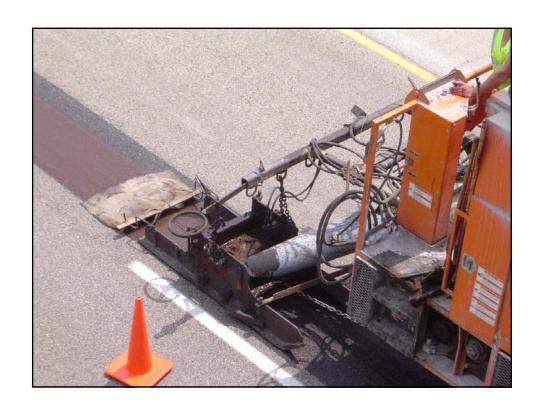
- Including in new contracts going forward
 - More work needed to get right
 - For pavements with no shoulder up to 3' shoulder
- Want to see proven devices used
 - Some "proven" devices seem to be better than others
 - Must compact and produce consistent edge

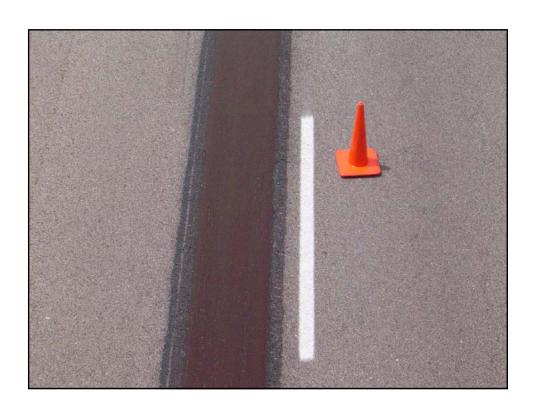












Pavement Design Update

April 2011

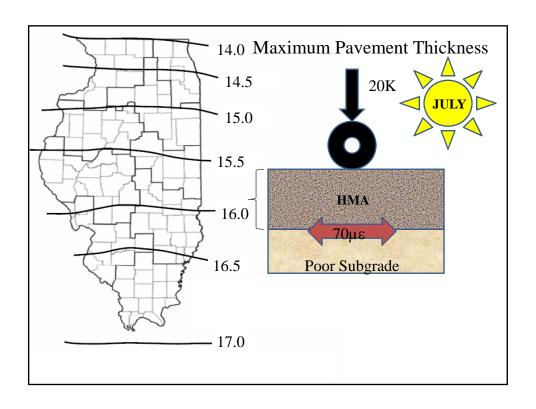
- Thickness Design
 - HMA
 - PCC (Jointed)
- Maintenance Models
 - HMA + Rubblizing
 - PCC (Jointed, CRC and Unbonded PCC Overlay)
- Alternate bids for projects within 10%

Common to Both Designs

- Additional Subgrade treatment
 - Added aggregate/lime combo
- Reduced Non-Interstate Minimum Design Traffic
- Complete Recheck of Design Theory
 - Compared to AASHTO MEPDG
 - Outside Reviewers for Both Designs and Selection Process as a QA Check

Pavement Thickness

- PCC Thickness
 - Little change
- HMA Thickness
 - Revised fatigue algorithm
 - Updated pavement temperature data
 - PG asphalt grade
 - Included limiting strain criteria
 - Low strain = unlimited life



Life Cycle Cost Audit

Audit

- 20 ILCS 2705/2705-590
 - Requires Life Cycle Costing (LCC) on all Pavement projects over \$500,000
 - Award construction to lowest LCC
 - Models based upon data
 - If don't have data may use other similar states data
- Audit to determine if IDOT following law

PAY FOR PERFORMANCE

PFP Implementation Schedule

√2010

✓ Min. One PFP project / District

✓≥ 8,000 tons individual mix

√2011

✓ Min. 50% of all Interstate or Supplemental Expressway

 $\checkmark \ge 8,000 \text{ tons / mix}$

- 2012
 - All Interstate & Supplemental Expressway
 - ≥ 8,000 tons / mix

2011 PFP Projects

District	Projects	Tons	% Jobsite Sampling
I	3 (4 w/ carryover)	29,011 (42,988)	0
2	(3 carryover)	(67,463)	100
3	N/A	N/A	N/A
4	2	20,000	100
5	2	31,300	100
6	(2)	36123	100
7	I	9,737	100
8	2	177,000	100
9	(I carryover)	(12,946)	0
Total	10 (17)	267,048 (397,557)	

2011 PFP Project Disputes

District	Projects	Disputes			
		Mix	Cores		
I	3 (4 w/ carryover)	30(34)	47		
2	(3 carryover)	(1)	(2)		
3	N/A	N/A	N/A		
4	2	0	0		
5	2	3	9		
6	(2)	9	25		
7	I	0	15		
8	2	15	17		
9	(I carryover)	0	(1)		
Total	10 (17)	57(62)	113(116)		

2011 PFP Projects									
	Final Pay								
	1	2	3	4	5	6	7	8	9
	97.4%	101.2%	N/A	99.7%	93.4%	101.1%	100.6%	94.0%	97.1%
	100.6%	102.6%		102.1%	101.5%	99.6%		95.8%	
	98.5%	100.6%							
	94.5%								
	100.8%								
	102.8%								
	98.6%								
	99.8%								
	96.2%								
	99.5%								
	99.1%								
	98.8%								
	98.2%							Average=	99.0%

Spec Revisions for 2012

- Increase core/edge distance to 4-inches
- Disputes within precision limits will no longer be allowed
- Dispute cores taken with District cores
- Better filling of core holes
- Lab fees increased
 - Mix \$1,000
 - Core \$300

QUALITY CONTROL FOR PERFORMANCE

QCP Quality Control for Performance

- For use below PFP (8,000 tons) & other projects not suited for PFP
- Uses pay adjustment concept
- Pay based upon owner test
- Less effort for owner than PFP
- Roll out
 - 2012 2 state projects/district
 - · 2013 50%
 - 2014 Full implementation on state
 - 2014 Start LR&S

PFP/QCP Implementation Schedule Revised

- 2013 & 2014
 - PFP will be expanded to include:
 - Interestate & Non-Interestate projects > 4,000 tons
 - 50% in 2013
 - 100% in 2014
 - PFP full implementation (above 8,000 tons)
 - QCP for projects < 8,000 tons
 - 2 Projects/District in 2012
 - 50% in 2013
 - 100% in 2014 start LR&S jobs





