2nd Annual Asphalt Pavement Industry Survey on Reclaimed Asphalt Pavement, Reclaimed Asphalt Shingles, and Warm-mix Asphalt Usage: 2009-2011

Appendix A: Survey Forms

Purpose

The National Asphalt Pavement Association is working with the Federal Highway Administration to determine the amount of Hot-Mix Asphalt (HMA), Warm-Mix Asphalt (WMA), Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS) being produced and used in each state. The following survey will be used to collect this data.

It is important to the industry that you complete this survey so we have accurate information regarding the use of RAP, RAS and Warm-Mix-Asphalt in order to identify areas needing assistance in implementation.

DATA FROM THIS SURVEY WILL BE CONFIDENTIAL AND WILL BE USED ONLY FOR THE PURPOSES OF DETERMINING THESE QUANTITIES AND WILL NOT BE USED FOR ANY OTHER PURPOSE. DATA WILL BE REPORTED BY STATE ONLY. NO COMPANY SPECIFIC INFORMATION WILL BE DISCLOSED OR USED FOR ANY OTHER PURPOSE.

This information will be shared with industry and agencies to help in the implementation of recycling and warm mix technologies.

By completing this survey you will be eligible to receive a complimentary copy of the report.

Contact Information

The following contact information will be used only to confirm that we do not get duplicate information from a company and to contact you if we have any questions on the survey.

Contact Kent Hansen, khansen@asphaltpavement.org or Audrey Copeland, acopeland@asphaltpavement.org at NAPA if you have any questions. 888-468-6499

* 1.	Compan	y/Branch	Name:
-------------	--------	----------	-------



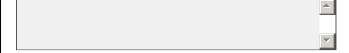
*2. Contact Person's Name & Address



*3. Contact Person's email



*4. Contact Person's Phone Number



State

Please select the state for which you are providing the information.

If your branch works in more than one state please complete a separate questionnaire for each state. If a plant provides mix for more than one state, please divide the tonnage accordingly using your best estimate if data is not available.

*5	i. Which state is the informa	tio	n provided for?		
0	Alabama	0	Louisiana	0	Oklahoma
0	Alaska	0	Maine	0	Oregon
0	Arizona	0	Maryland	0	Pennsylvania
0	Arkansas	0	Massachusetts	0	Puerto Rico
0	California	0	Michigan	0	Rhode Island
0	Colorado	0	Minnesota	0	South Carolina
0	Connecticut	0	Mississippi	0	South Dakota
0	Delaware	0	Missouri	0	Tennessee
0	Florida	0	Montana	0	Texas
0	Georgia	0	Nebraska	0	Utah
0	Guam	0	Nevada	0	Vermont
0	Hawaii	0	New Hampshire	0	Virginia
0	Idaho	0	New Jersey	0	Washington
0	Illinois	0	New Mexico	0	Washington, DC
0	Indiana	0	New York	0	West Virginia
0	lowa	0	North Carolina	0	Wisconsin
0	Kansas	0	North Dakota	0	Wyoming
0	Kentucky	0	Ohio		
*6	i. How many plants does thi	is s	survey response cover?		
	per of plants				

Total Asphalt Tonnage for 2011

Please complete the following information for the total tonnage of all asphalt production in 2011.		
*7. What was your total tonnage of	asphalt mixes in 2011 for the following categories?	
(Use best estimate if data is not available)		
State DOT		
Other Agencies (city, county, FAA, military)		
Commercial & residential		

RAP Supply and Use 2011

Please complete the following information on the amount of RAP received and used for 2011.
*8. Did you accept, process or use RAP in this state in 2011?
C Yes
C No

RAP, RAS, WMA Survey 2011 **RAP Supply and Use 2011** Please complete the following information on the amount of RAP received and used for 2011. st9. How many tons of removed asphalt pavement and asphalt millings were accepted/delivered to your facilities in the state in 2011? Tons: *10. How many tons of RAP were used in 2011 for the following purposes? (Use best estimate if data not available) Recycled back into HMA/WMA mixes: Aggregate base: Cold mix: Other: Landfilled: *11. What was the average RAP percentage used in asphalt mixes in 2011 for the following categories? (Use best estimate if data not available) State DOT Other Agencies (city, county, FAA, military) Commercial & residential *12. At the end of the year 2011 did you have excess RAP (processed or unprocessed) in inventory? O Yes O No

Reclaimed Asphalt Shingles (RAS) Supply and Use for 2011

Please complete the following information on the amount of waste shingles received (processed and unprocessed) and used for 2011.

* 13.	B. Did you accept waste shingles and/or pro	ocess or use Reclaimed Asphalt Shingles
(RAS)	6) in 2011?	

Yes

0	No

Reclaimed Asphalt Shingles (RAS) Supply and Use for 2011

Reciaimeu A	sphait Shingles (KA	AS) Supply and USE for 2011
Please complete t used for 2011.	the following information on th	he amount of waste shingles received (processed and unprocessed) and
	nny tons of unprocesse vered to your facilities	ed shingles (manufacturers waste and tear-offs) were in the state in 2011?
Tons:		
*15. How ma	nny tons of reclaimed a	asphalt shingles (RAS) were used for the following
		te if data not available)
Recycled into HMA/WM	MA mixes:	
Aggregate base:		
Cold mix:		
Other:		
Landfilled:		
	as average RAS percer Jse best estimate if dat	ntage used in asphalt mixes in 2011 for the following ta is not available)
State DOT		
Other Agencies (city, c		
Commercial & residen	tial	
*17. At the e unprocessed		id you have excess RAS? (include processed and
○ Yes		
⊙ No		

Warm Mix Asphalt Production for 2011
Warm-mix asphalt is the generic term for a variety of technologies that allow the producers of hot-mix asphalt pavement material to lower the temperatures at which the material is mixed and placed on the road between 10 and 100 degrees F.
*18. Did any of your plants in this state use Warm-Mix Asphalt technologies in 2011?
O Yes
© No

Warm Mix Asphalt Production for 2011

nt F.

1 9	ic term for a variety of technologies that allow the producers of not-mix asphalt pavemer ires at which the material is mixed and placed on the road between 10 and 100 degrees
≭ 19. What was average	e percent of mix produced using Warm-Mix-Asphalt technologies in
2011 for the different ca	tegories? (Use best estimate if data not available)
State DOT	
Other Agencies (city, county, FAA, mili	tary)
Commercial & residential	
*20. What percentage	of the total warm-mix asphalt (WMA) for 2011 was produced using
the following technologi	es? (Use best estimate if data not available)
Chemical admixture	
Additive (zeolite) foaming	
Plant foaming	
Organic (wax) additive	

RAP, RAS, WMA Survey 2011
Thank You
21. Would you like a complimentary copy of the final report?
C Yes
O No