Asphalt Pavement Mix Production Survey
On Reclaimed Asphalt Pavement,
Reclaimed Asphalt Shingles,
And Warm-mix Asphalt Usage: 2009-2010

Appendix A

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.

FOR DATA COLLECTION ONLY!

FOR DATA COLLECTION ONLY!

Please fill out web survey at:

Please fill out web survey at:

Please fill out web survey at:

http://www.surveymonkey.com/s/XZ9NG3S

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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@hotmix.org or Dave Newcomb, dnewcomb@hotmix.org at NAPA if you have any questions. 888-468-6499

*	1.	Com	pany	/Branch	Name:
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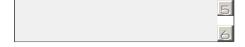
* 2. Contact Person's Name & Address



* 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. Which state is the information provided for?

jn	Alabama	jn	Louisiana	jm	Oklahoma
jn	Alaska	jn	Maine	jm	Oregon
jm	Arizona	jn	Maryland	jn	Pennsylvania
jm	Arkansas	jn	Massachusetts	jn	Puerto Rico
jn	California	jn	Michigan	jn	Rhode Island
jn	Colorado	jn	Minnesota	jn	South Carolina
jn	Connecticut	jn	Mississippi	jn	South Dakota
jn	Delaware	jn	Missouri	jn	Tennessee
jn	Florida	jn	Montana	jn	Texas
jn	Georgia	jn	Nebraska	jn	Utah
jn	Guam	jn	Nevada	jn	Vermont
jn	Hawaii	jn	New Hampshire	jm	Virginia
jn	Idaho	jn	New Jersey	jm	Washington
jn	Illinois	J m	New Mexico	jm	Washington, DC
jn	Indiana	jn	New York	jm	West Virginia
jn	lowa	jn	North Carolina	jm	Wisconsin
jn	Kansas	jn	North Dakota	jm	Wyoming
jm	Kentucky	jn	Ohio		

* 6. How many plants does this survey response cover?

Total Asphalt Tonnage for 2009

Please complete the following information for the total tonnage of all asphalt production in 2009.

* 7. What was your total tonnage of asphalt mixes in 2009 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 2009

Please complete the following information on the amount of RAP received and used for 2009.

* 8. Did you accept, process or use RAP in this state in 2009?

rn Yes in No

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RAP Supply and Use 2009

Please complete the following information on the amount of RAP received and used for 2009.

* 9. How many tons of removed asphalt pavement and asphalt millings were accepted/delivered to your facilities in the state in 2009?

Tons:

* 10. How many tons of RAP were used in 2009 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 average RAP percentage used in asphalt mixes in 2009 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 2009 did you have excess RAP (processed or unprocessed) in inventory?

rn Yes jn No

Reclaimed Asphalt Shingles (RAS) Supply and Use for 2009

Please complete the following information on the amount of waste shingles received (processed and unprocessed) and used for 2009.

* 13. Did you accept waste shingles and/or process or use Reclaimed Asphalt Shingles (RAS) in 2009?

rn Yes jn No

Reclaimed Asphalt Shingles (RAS) Supply and Use for 2009

	se complete the following information on the amount of waste shingles received (processed and unprocessed) and for 2009.
*	14. How many tons of unprocessed shingles (manufacturers waste and tear-offs) were accepted/delivered to your facilities in the state in 2009?
*	15. How many tons of reclaimed asphalt shingles (RAS) were used for the following
	purposes in 2009? (Use best estimate if data not available)
*	Recycled into HMA/WMA mixes: Aggregate base: Cold mix: Other: Landfilled: 16. What was average RAS percentage used in asphalt mixes in 2009 for the following categories? (Use best estimate if data is not available) State DOT
	Other Agencies (city, county, FAA, military) Commercial & residential
*	17. At the end of the year 2009 did you have excess RAS? (include processed and unprocessed shingles)
	jn Yes
	jn No

Warm Mix Asphalt Production for 2009

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 2009?

m Yes

jn No

Warm Mix Asphalt Production for 2009

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.

* 19. What was average percent of mix produced using Warm-Mix-Asphalt technologies in 2009 for the different categories? (Use best estimate if data not available)

State DOT	
Other Agencies (city, county, FAA, military)	
Commercial & residential	

* 20. What percentage of the total warm-mix asphalt (WMA)for 2009 was produced using the following technologies? (Use best estimate if data not available)

Chemical admixture	
Additive (zeolite) foaming	
Plant foaming	
Organic (wax) additive	

RAP, RAS & WMA Survey	
2010 Tonnage	
Please complete the following information for the	total estimated tonnage of all asphalt production in 2010.
* 21. What is your total estimated to categories?	nnage of asphalt mixes in 2010 for the following
State DOT	
Local agencies (city, county, FAA, military)	
Commercial & residential	
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http://www.sur.	COLLECTION at: out web survey at: out web survey at: ymonkey.com/s/XZ9NG3S
Liceb	raye II

RAP Supply and Use 2010

Please complete the following information on the estimated amount of RAP received and used for 2010.

* 22. Did you accept, process or use RAP in this state in 2010?

jn Yes

jn No

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RAP Supply and Use 2010

Ple:	ase complete the following information on the e	stimated amount of RAP received and used for 2010.
*	23. How many tons of removed asp to be accepted/delivered to your factors:	halt pavement and asphalt millings do you anticipate cilities in the state in 2010?
*	24. How many tons of RAP do you a	anticipate will be used in 2010 for the following
	purposes?	
	Recycled back into HMA/WMA mixes:	
	Aggregate base:	
	Cold mix:	
	Other:	
	Landfilled:	
*	25. What do you anticipate the aver	age RAP percentage in asphalt mixes in 2010 will be
	used for the following categories	
	State DOT	
	Other Agencies (city, county, FAA, military)	
	Commercial & residential	
*	26. At the end of the year 2010 do y	ou anticipate having excess RAP (processed or
	unprocessed) in inventory?	
	j _{'∩} Yes	
	i∩ No	

Reclaimed Asphalt Shingles (RAS) Supply and Use for 2010

Please complete the following information on the estimated amount of waste shingles received (processed and unprocessed) and used for 2010.

* 27. Did you accept waste shingles and/or process or use Reclaimed Asphalt Shingles (RAS) in 2010?

jn Yes jn No

Reclaimed Asphalt Shingles (RAS) Supply and Use for 2010

Please complete the following information on tunprocessed) and used for 2010.	the estimated amount of waste shingles received (processed and
	sed shingles (manufacturers waste and tear-offs) do delivered to your facilities in the state in 2010?
\star 29. How many tons of reclaimed	l asphalt shingles (RAS) do you anticipate will be used
for the following purposes in 20	10?
Recycled back into HMA/WMA mixes:	
Aggregate base:	
Cold mix:	
Other:	
Landfilled:	
\star 30. What do you anticipate the a	verage RAS percentage in asphalt mixes in 2010 will be
used for the following categorie	s?
State DOT	
Other Agencies (city, county, FAA, military)	
Commercial & residential	
* 31. At the end of the year 2010 d	lo you anticipate an excess of RAS?
j _n Yes	
jn No	

Warm Mix Asphalt Production for 2010

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.

* 32. Did any of your plants in this state use Warm-Mix Asphalt technologies in 2010?

m Yes

jn No

Warm Mix Asphalt Production for 2010

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.

* 33. What do you anticipate the average percent of mix produced using Warm-Mix-Asphalt technologies will be in 2010 for the different categories?

State DOT	
Other agencies (city, county, FAA, military)	
Commercial & residential	

* 34. What percentage of the total Warm-Mix-Asphalt is anticipated for the following technologies in 2010?

Chemical admixture	
Additive (zeolite) foaming	
Plant foaming	
Organic (wax) additive	

Thank You

35. Would you like a complimentary copy of the final report?

m Yes jn No