

RAP, RAS, WMA Survey 2011

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. Company/Branch Name:**

*** 2. Contact Person's Name & Address**

*** 3. Contact Person's email**

*** 4. Contact Person's Phone Number**

RAP, RAS, WMA Survey 2011

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?

- | | | |
|-----------------------------------|--------------------------------------|--------------------------------------|
| <input type="radio"/> Alabama | <input type="radio"/> Louisiana | <input type="radio"/> Oklahoma |
| <input type="radio"/> Alaska | <input type="radio"/> Maine | <input type="radio"/> Oregon |
| <input type="radio"/> Arizona | <input type="radio"/> Maryland | <input type="radio"/> Pennsylvania |
| <input type="radio"/> Arkansas | <input type="radio"/> Massachusetts | <input type="radio"/> Puerto Rico |
| <input type="radio"/> California | <input type="radio"/> Michigan | <input type="radio"/> Rhode Island |
| <input type="radio"/> Colorado | <input type="radio"/> Minnesota | <input type="radio"/> South Carolina |
| <input type="radio"/> Connecticut | <input type="radio"/> Mississippi | <input type="radio"/> South Dakota |
| <input type="radio"/> Delaware | <input type="radio"/> Missouri | <input type="radio"/> Tennessee |
| <input type="radio"/> Florida | <input type="radio"/> Montana | <input type="radio"/> Texas |
| <input type="radio"/> Georgia | <input type="radio"/> Nebraska | <input type="radio"/> Utah |
| <input type="radio"/> Guam | <input type="radio"/> Nevada | <input type="radio"/> Vermont |
| <input type="radio"/> Hawaii | <input type="radio"/> New Hampshire | <input type="radio"/> Virginia |
| <input type="radio"/> Idaho | <input type="radio"/> New Jersey | <input type="radio"/> Washington |
| <input type="radio"/> Illinois | <input type="radio"/> New Mexico | <input type="radio"/> Washington, DC |
| <input type="radio"/> Indiana | <input type="radio"/> New York | <input type="radio"/> West Virginia |
| <input type="radio"/> Iowa | <input type="radio"/> North Carolina | <input type="radio"/> Wisconsin |
| <input type="radio"/> Kansas | <input type="radio"/> North Dakota | <input type="radio"/> Wyoming |
| <input type="radio"/> Kentucky | <input type="radio"/> Ohio | |

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

Number 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?**

- Yes
- 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.

***9. 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?**

Yes

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. Did you accept waste shingles and/or process or use Reclaimed Asphalt Shingles (RAS) in 2011?**

- Yes
- 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.

*** 14. How many tons of unprocessed shingles (manufacturers waste and tear-offs) were accepted/delivered to your facilities in the state in 2011?**

Tons:

*** 15. How many tons of reclaimed asphalt shingles (RAS) were used for the following purposes in 2011? (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 2011 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 2011 did you have excess RAS? (include processed and unprocessed shingles)**

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?**

- 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.

***19. What was average percent of mix produced using Warm-Mix-Asphalt technologies in 2011 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 2011 was produced using the following technologies? (Use best estimate if data not available)**

Chemical admixture

Additive (zeolite) foaming

Plant foaming

Organic (wax) additive

Thank You

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

- Yes
- No