

Annual Asphalt Pavement Industry Survey on Recycled Materials and Warm-Mix Asphalt Usage: 2009–2012

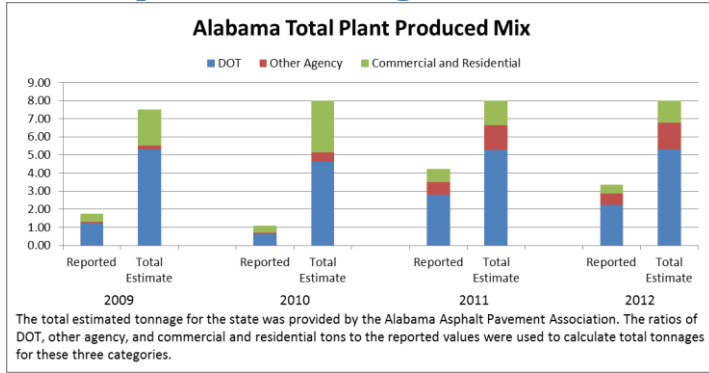
Appendix B State-by-State Use of Recycled Materials, WMA and HMA

Alabama

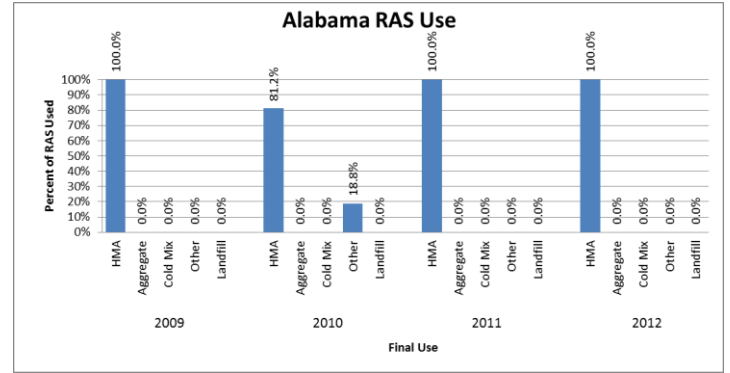
Table B1 summarizes the results received from asphalt mix producers in Alabama. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 3 for 2009 & 2010, 5 for 2011, 4 for 2012

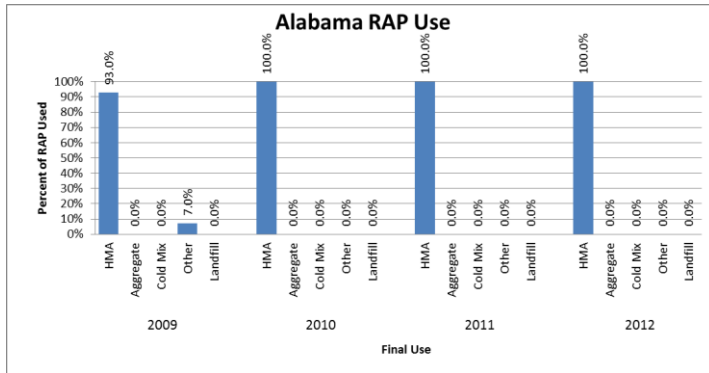
Total Asphalt Mix Tonnage



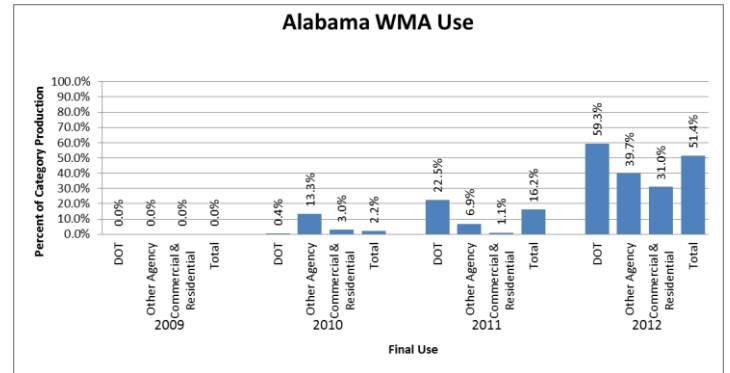
RAS Use



RAP Use



WMA Use



Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Steel Slag	3	625,000	133,441
Blast Furnace Slag	2	100,000	10,100

Table B1 Summary of Alabama Data for 2012

No. Companies Reporting

4

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	2,245,000	5,323,267
Total Other Agency Tonnage	607,000	1,439,298
Total Commercial & Residential Tonnage	521,868	1,237,435
Total Tonnage	3,373,868	8,000,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	715,000	1,695,383
RAP Tons used in HMA/WMA	748,722	1,775,344
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	23%	
Average % RAP in Other Agency Mixes	22%	
Average % RAP in Commercial & Residential Mixes	32%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	100%	
RAS Tons Received	111,500	264,385
RAS Tons used in HMA/WMA	107,936	255,934
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	3.4%	
Average % RAS in Other Agency Mixes	1.2%	
Average % RAS in Commercial & Residential Mixes	3.7%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	1,331,000	3,156,022
WMA Other Agency Tonnage	241,000	571,451
WMA Commercial & Residential Tonnage	161,910	383,916
Total WMA Tonnage	1,733,910	4,111,389
Percent WMA Tons using Chemical Additives	33.2%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	66.8%	
Percent WMA Tons using Organic Additive	0.0%	

1. Total tonnage provided by Alabama Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

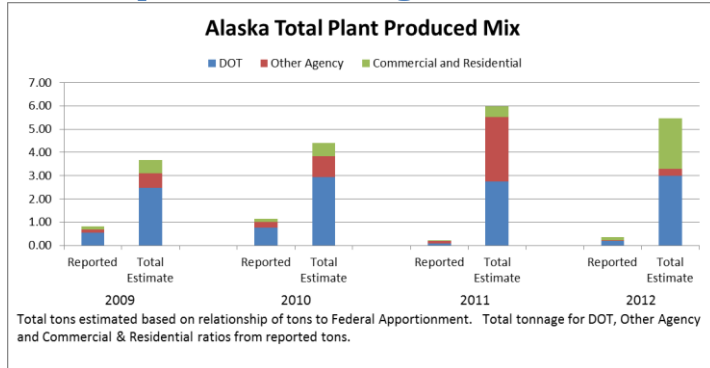
3

Alaska

Table B2 summarizes the results received from asphalt mix producers in Alaska. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 3 for 2009 & 2010, 2 for 2011 & 2012

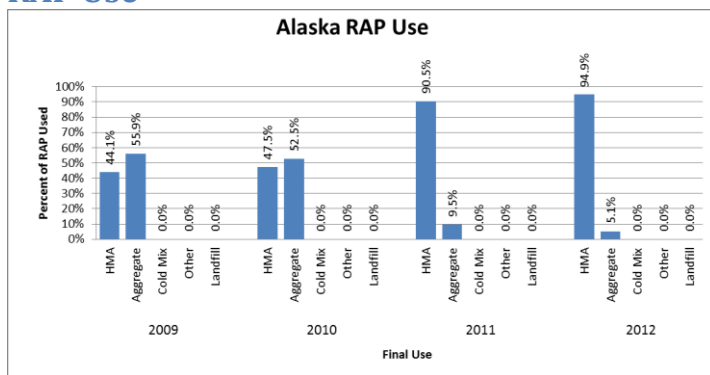
Total Asphalt Mix Tonnage



RAS Use

No companies reported using RAS in 2009, 2010, 2011, or 2012.

RAP Use



WMA Use

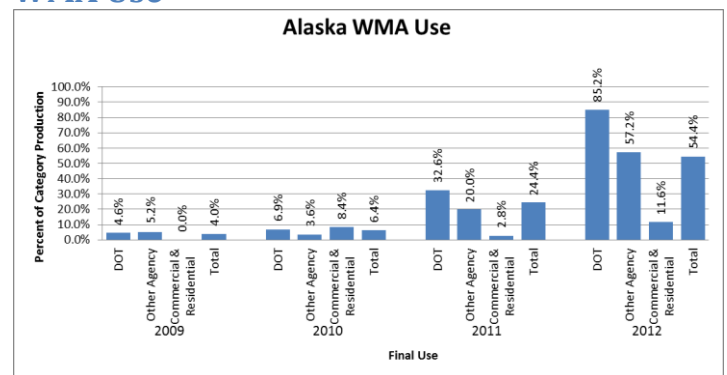


Table B2: Summary of Alaska Data for 2012

No. Companies Reporting

2

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	193,000	2,987,399
Total Other Agency Tonnage	20,000	309,575
Total Commercial & Residential Tonnage	140,000	2,167,025
Total Tonnage	353,000	5,464,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	10,105	156,413
RAP Tons used in HMA/WMA	27,528	426,099
RAP Tons used as Aggregate	1,500	23,218
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	20%	
Average % RAP in Other Agency Mixes	29%	
Average % RAP in Commercial & Residential Mixes	21%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	0%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	-	-
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	164,410	2,544,862
WMA Other Agency Tonnage	11,440	177,077
WMA Commercial & Residential Tonnage	16,170	250,291
Total WMA Tonnage	192,020	2,972,230
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

1. Total tons estimated based on relationship of tons to Federal Apportionment. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

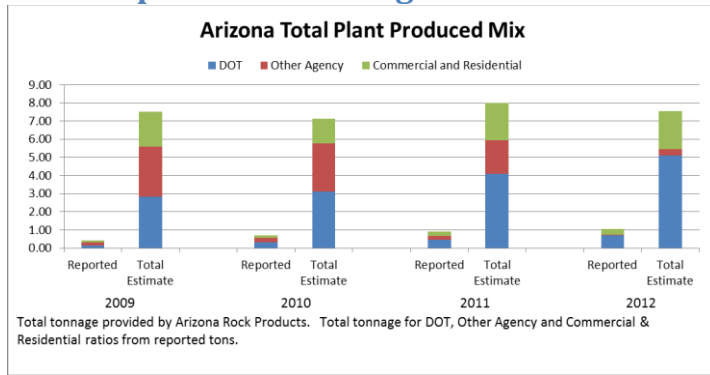
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Arizona

Table B3 summarizes the results received from asphalt mix producers in Arizona. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 2 for 2009 & 2010, 4 for 2011 & 2012

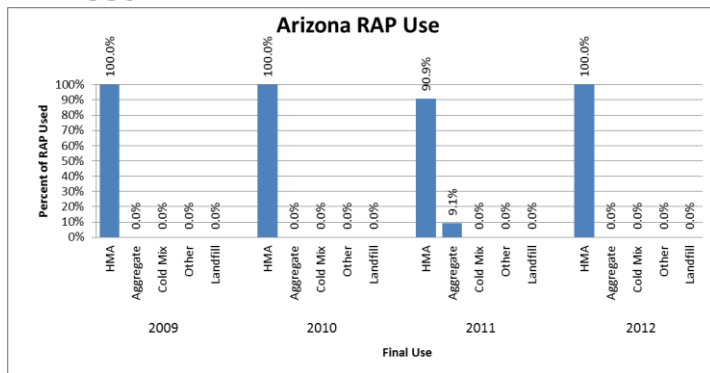
Total Asphalt Mix Tonnage



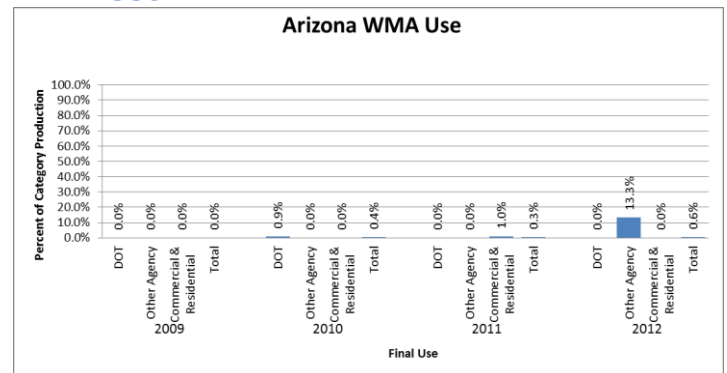
RAS Use

No companies reported using RAS in 2009, 2010 or 2011.

RAP Use



WMA Use



Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Ground Tire Rubber	2	33,590	532

Table B3: Summary of Arizona Data for 2012

Companies Reporting

4

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	703,230	5,117,713
Total Other Agency Tonnage	46,688	339,769
Total Commercial & Residential Tonnage	287,535	2,092,518
Total Tonnage	1,037,453	7,550,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	128,070	932,021
RAP Tons used in HMA/WMA	147,635	1,074,406
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	17%	
Average % RAP in Other Agency Mixes	13%	
Average % RAP in Commercial & Residential Mixes	15%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	0%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	-	-
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	25%	
WMA DOT Tonnage	-	-
WMA Other Agency Tonnage	6,209	45,186
WMA Commercial & Residential Tonnage	-	-
Total WMA Tonnage	6,209	45,186
Percent WMA Tons using Chemical Additives	100.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	0.0%	
Percent WMA Tons using Organic Additive	0.0%	

1. Total tonnage provided by Arizona Rock Products. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

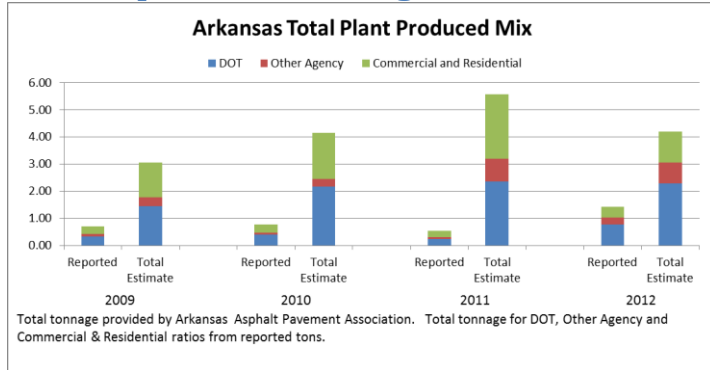
7

Arkansas

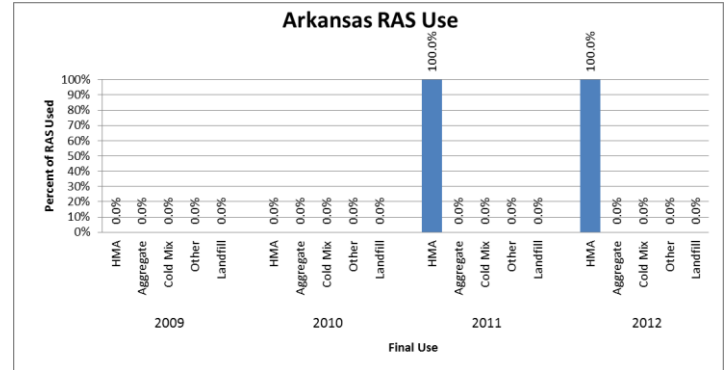
Table B4 summarizes the results received from asphalt mix producers in Arkansas.

Companies responding: 3 for 2009 & 2010, 2 for 2011, 5 for 2012

Total Asphalt Mix Tonnage

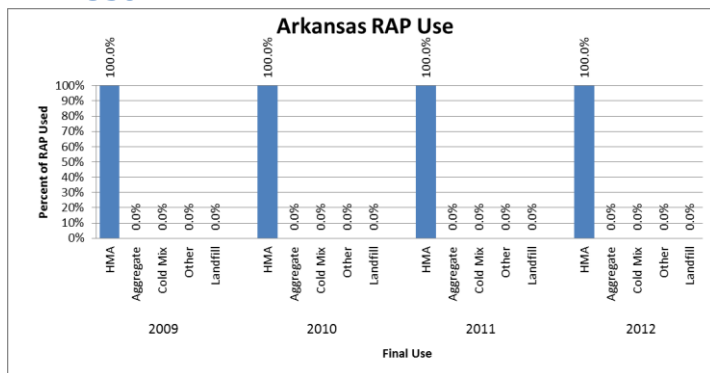


RAS Use

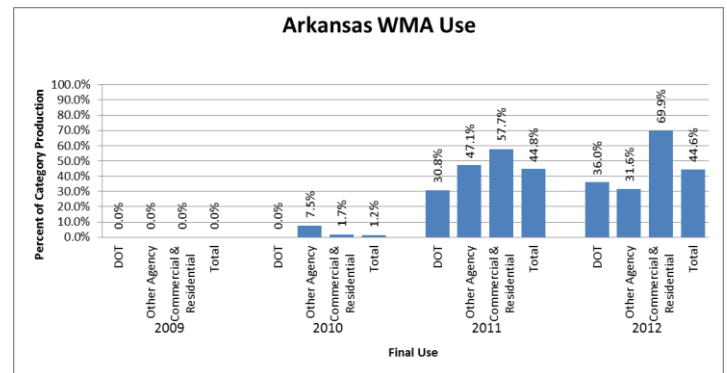


One company reported receiving RAS in 2010; however, no RAS was used in any mixes in 2009 & 2010.

RAP Use



WMA Use



Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Steel Slag	1	120,000	12,000

Table B4: Arkansas Summary for 2012

Companies Reporting

5

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	772,170	2,294,595
Total Other Agency Tonnage	251,475	747,288
Total Commercial & Residential Tonnage	389,726	1,158,117
Total Tonnage	1,413,371	4,200,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	80%	
RAP Tons Received	83,755	248,888
RAP Tons used in HMA/WMA	143,121	425,301
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	11%	
Average % RAP in Other Agency Mixes	26%	
Average % RAP in Commercial & Residential Mixes	21%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	60%	
RAS Tons Received	14,202	42,203
RAS Tons used in HMA/WMA	7,722	22,947
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	1%	
Average % RAS in Commercial & Residential Mixes	2%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	80%	
WMA DOT Tonnage	278,248	826,847
WMA Other Agency Tonnage	79,440	236,065
WMA Commercial & Residential Tonnage	272,242	809,001
Total WMA Tonnage	629,930	1,871,913
Percent WMA Tons using Chemical Additives	16.5%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	83.5%	
Percent WMA Tons using Organic Additive	0.0%	

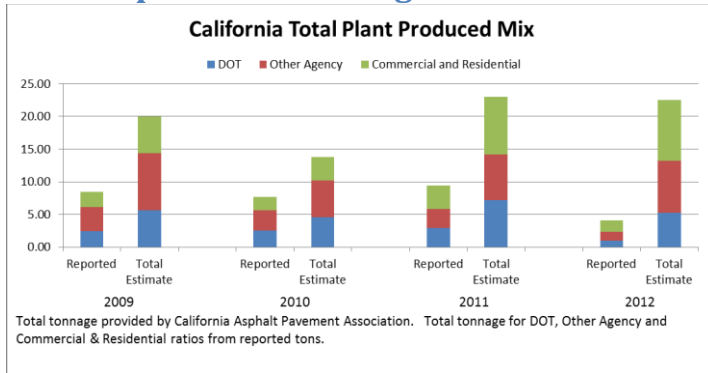
1. Total tonnage provided by Arkansas Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

California

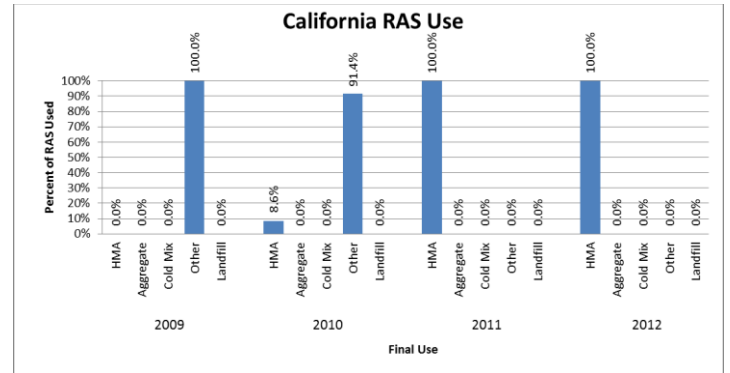
Table B5 summarizes the results received from asphalt mix producers in California. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 6 for 2009 & 2010, 4 for 2011 and 2012

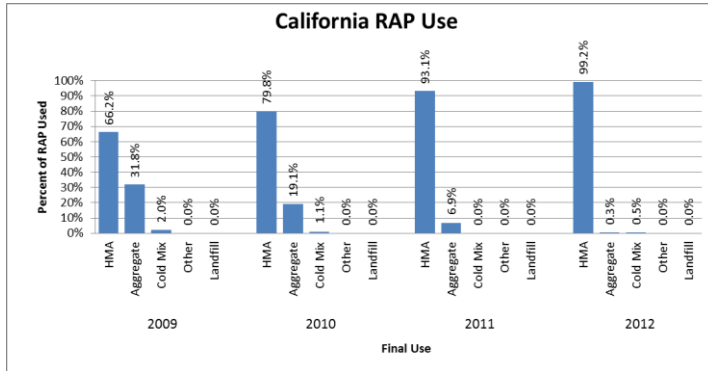
Total Asphalt Mix Tonnage



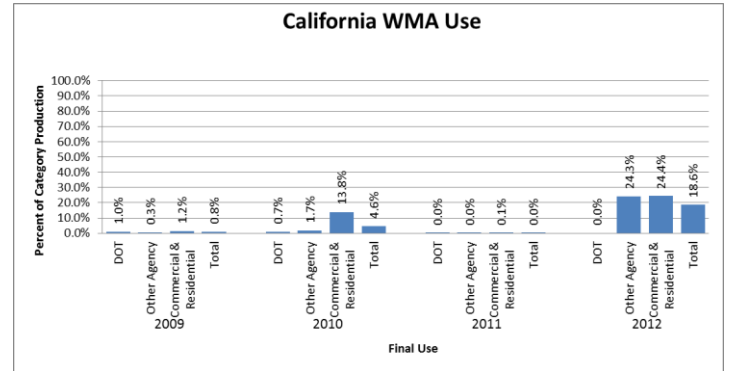
RAS Use



RAP Use



WMA Use



Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Ground Tire Rubber	2	101,000	7,983

Table B5: Summary of California Data for 2012

Companies Reporting

4

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	950,000	5,260,412
Total Other Agency Tonnage	1,430,000	7,918,304
Total Commercial & Residential Tonnage	1,683,370	9,321,284
Total Tonnage	4,063,370	22,500,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	75%	
RAP Tons Received	366,000	2,026,643
RAP Tons used in HMA/WMA	648,000	3,588,155
RAP Tons used as Aggregate	2,000	11,075
RAP Tons used in Cold Mix	3,400	18,827
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	13%	
Average % RAP in Other Agency Mixes	14%	
Average % RAP in Commercial & Residential Mixes	19%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	25%	
RAS Tons Received	178	986
RAS Tons used in HMA/WMA	2,008	11,119
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	2%	
Average % RAS in Commercial & Residential Mixes	3%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	75%	
WMA DOT Tonnage	-	-
WMA Other Agency Tonnage	347,480	1,924,093
WMA Commercial & Residential Tonnage	410,364	2,272,297
Total WMA Tonnage	757,844	4,196,390
Percent WMA Tons using Chemical Additives	0.3%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	99.7%	
Percent WMA Tons using Organic Additive	0.0%	

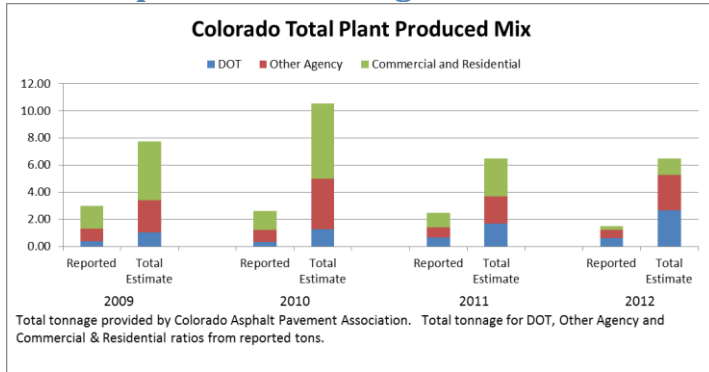
1. Total tonnage provided by California Asphalt Pavement Association. Total tonnage for Other Agency and Commercial & Residential ratios from reported tons.

Colorado

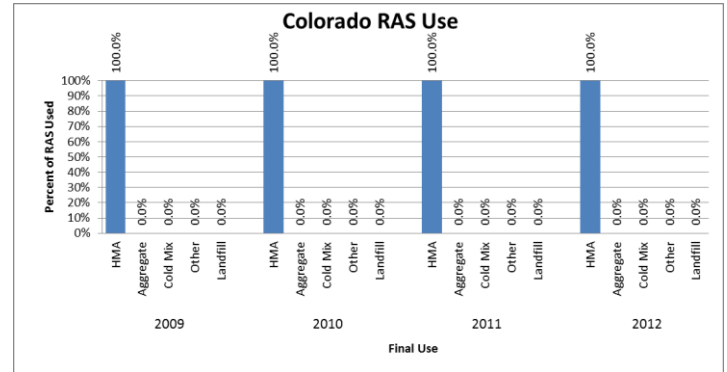
Table B6 summarizes the results received from asphalt mix producers in Colorado. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 8 for 2009 & 2010, 7 for 2011, 5 for 2012

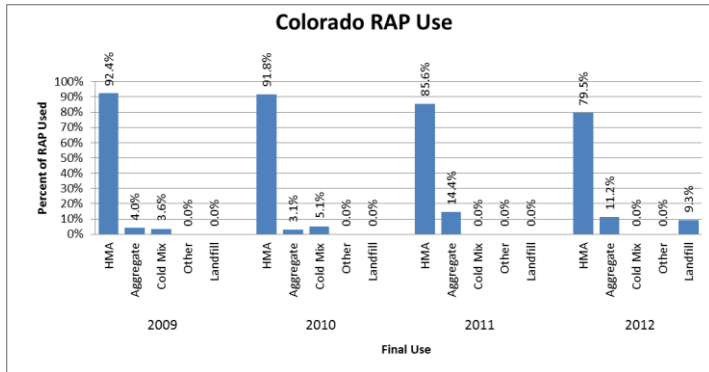
Total Asphalt Mix Tonnage



RAS Use



RAP Use



WMA Use

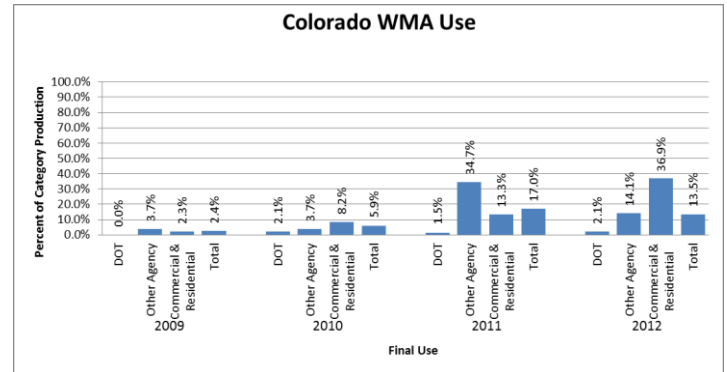


Table B6: Summary of Colorado Data for 2012

Companies Reporting

5

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	608,221	2,675,409
Total Other Agency Tonnage	591,460	2,601,682
Total Commercial & Residential Tonnage	278,013	1,222,908
Total Tonnage	1,477,694	6,500,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	495,000	2,177,379
RAP Tons used in HMA/WMA	427,925	1,882,333
RAP Tons used as Aggregate	60,000	263,925
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	50,000	219,937
Average % RAP in DOT Mixes	18%	
Average % RAP in Other Agency Mixes	20%	
Average % RAP in Commercial & Residential Mixes	21%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	40%	
RAS Tons Received	329	1,447
RAS Tons used in HMA/WMA	10,329	45,435
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	1%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	12,653	55,655
WMA Other Agency Tonnage	83,663	368,014
WMA Commercial & Residential Tonnage	102,711	451,800
Total WMA Tonnage	199,027	875,469
Percent WMA Tons using Chemical Additives	4.6%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	95.4%	
Percent WMA Tons using Organic Additive	0.0%	

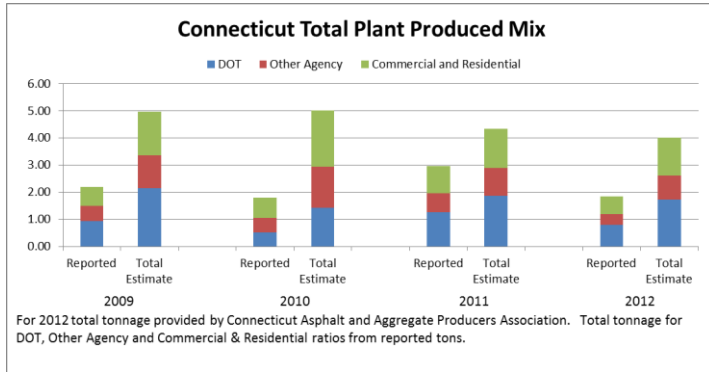
1. Total tonnage provided by Colorado Asphalt Pavement Association. Total tonnage for Other Agency and Commercial & Residential ratios from reported tons.

Connecticut

Table B7 summarizes the results received from asphalt mix producers in Connecticut. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Total Asphalt Mix Tonnage

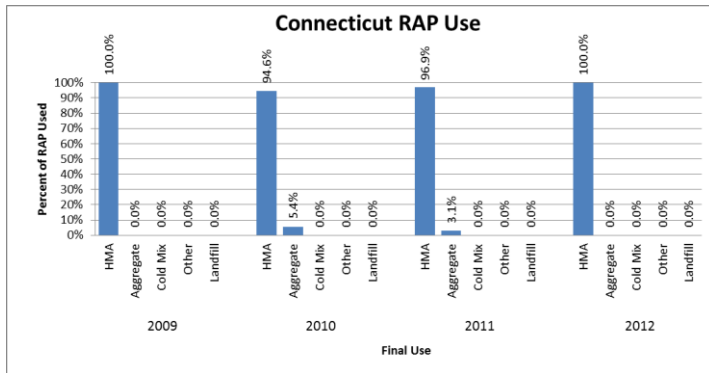
Companies responding: 2 for 2009 & 2010, 3 for 2011, 1 for 2012



RAS Use

No contractors reported using RAS in 2009, 2010, 2011, or 2012.

RAP Use



WMA Use

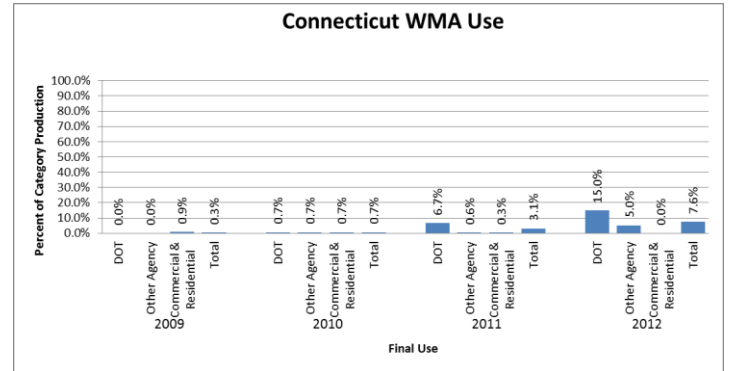


Table B7: Summary of Connecticut Data for 2012

Companies Reporting

1

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	800,000	1,737,242
Total Other Agency Tonnage	400,000	868,621
Total Commercial & Residential Tonnage	642,000	1,394,137
Total Tonnage	1,842,000	4,000,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	400,000	868,621
RAP Tons used in HMA/WMA	393,585	854,691
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	18%	
Average % RAP in Other Agency Mixes	22%	
Average % RAP in Commercial & Residential Mixes	25%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	0%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	-	-
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	120,000	260,586
WMA Other Agency Tonnage	20,000	43,431
WMA Commercial & Residential Tonnage	-	-
Total WMA Tonnage	140,000	304,017
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

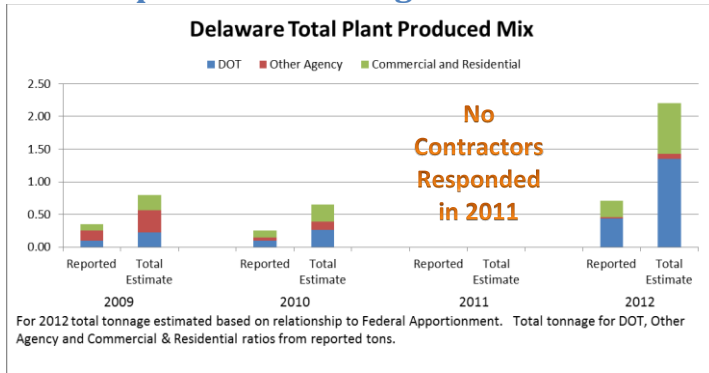
1. Total tonnage provided by Connecticut Asphalt and Aggregate Producers Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Delaware

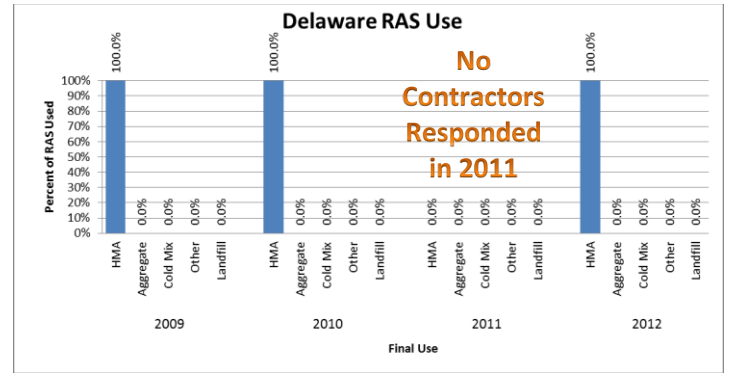
Table B8 summarizes the results received from asphalt mix producers in Delaware. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 1 for 2009 and 2010. No data reported for 2011, 3 for 2012

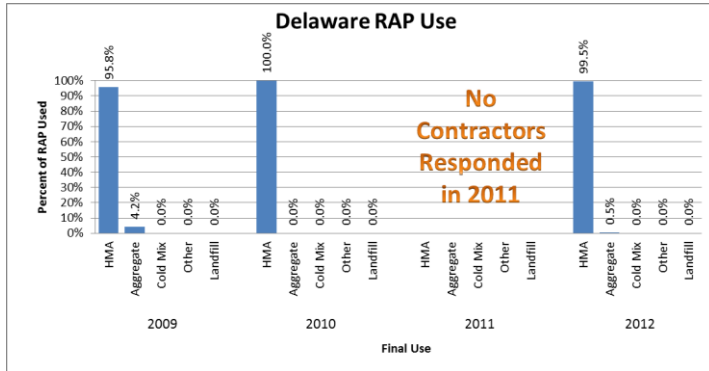
Total Asphalt Mix Tonnage



RAS Use



RAP Use



WMA Use

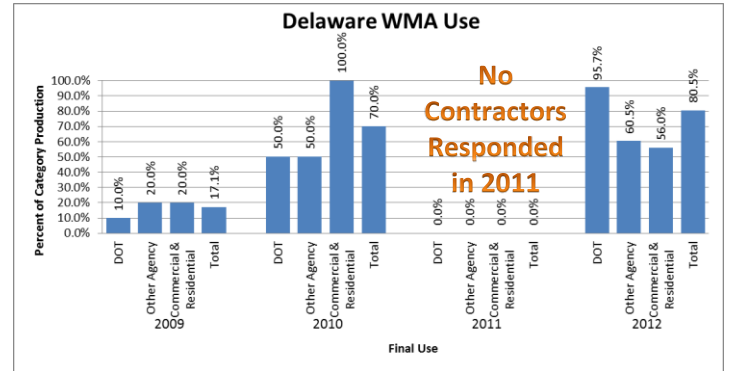


Table B8: Summary of Delaware Data for 2012

Companies Reporting

3

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	433,835	1,348,559
Total Other Agency Tonnage	25,000	77,712
Total Commercial & Residential Tonnage	249,876	776,730
Total Tonnage	708,711	2,203,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	186,340	579,230
RAP Tons used in HMA/WMA	200,073	621,919
RAP Tons used as Aggregate	1,000	3,108
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	30%	
Average % RAP in Other Agency Mixes	35%	
Average % RAP in Commercial & Residential Mixes	34%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	67%	
RAS Tons Received	20,000	62,169
RAS Tons used in HMA/WMA	10,500	32,639
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	3%	
Average % RAS in Other Agency Mixes	4%	
Average % RAS in Commercial & Residential Mixes	4%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	415,393	1,291,233
WMA Other Agency Tonnage	15,125	47,015
WMA Commercial & Residential Tonnage	139,872	434,786
Total WMA Tonnage	570,390	1,773,035
Percent WMA Tons using Chemical Additives	8.3%	
Percent WMA Tons using Additive Foaming	25.6%	
Percent WMA Tons using Plant Foaming	66.1%	
Percent WMA Tons using Organic Additive	0.0%	

1. Total tonnage estimated based on relationship to Federal Apportionment. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

District of Columbia

No contractors submitted data for the District of Columbia for 2009, 2010, 2011, or 2012. Total tons were estimated based on a relationship of tons to federal apportionment. Because RAP use is prevalent in all areas of the US it was estimated that RAP use in the District followed a national average. Table B9 summarizes this data.

Table B9: Summary of District of Columbia Data for 2012

Companies Reporting		
HMA/WMA		
	Reported	Total Estimated ¹
	2011	2011
Total DOT Tonnage		
Total Other Agency Tonnage		
Total Commercial & Residential Tonnage		
Total Tonnage		1,850,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2011	2011
Percent Companies using RAP		
RAP Tons Received		365,286
RAP Tons used in HMA/WMA		350,252
RAP Tons used as Aggregate		18,751
RAP Tons used in Cold Mix		1,084
RAP Tons used as Other		1,259
RAP Tons Landfilled		1,253
Average % RAP in DOT Mixes		
Average % RAP in Other Agency Mixes		
Average % RAP in Commercial & Residential Mixes		

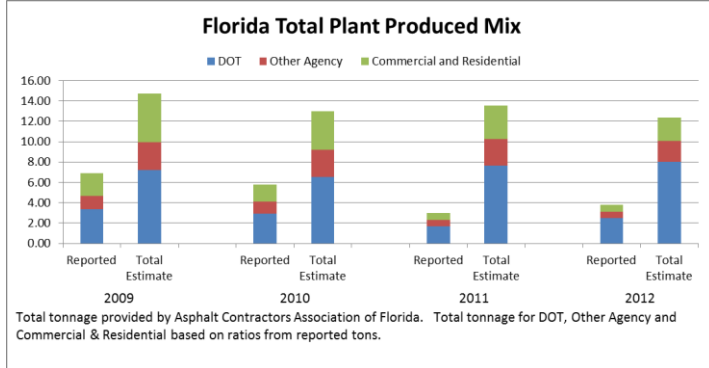
1. Total tons estimated based on relationship of tons to Federal Apportionment. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.
2. Total estimated RAP tonnages based on national average for RAP since no tons reported for Washington, DC.

Florida

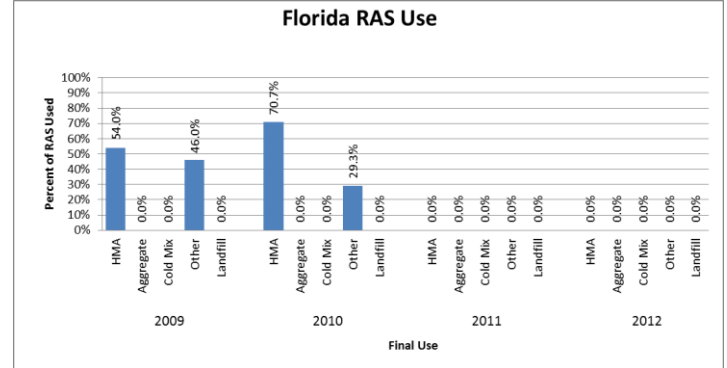
Table B10 summarizes the results received from asphalt mix producers in Florida. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 6 for 2009 & 2010, 4 for 2011, 5 for 2012

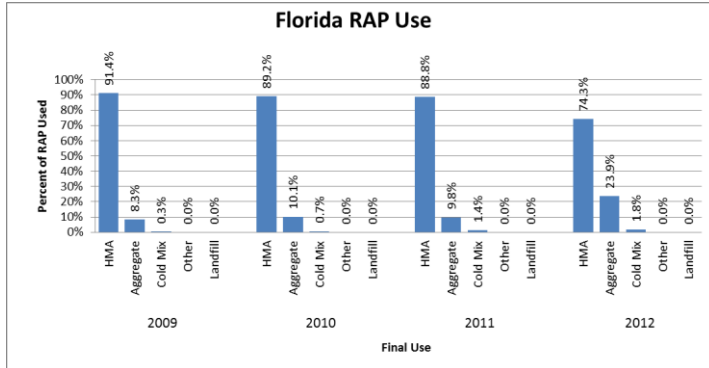
Total Asphalt Mix Tonnage



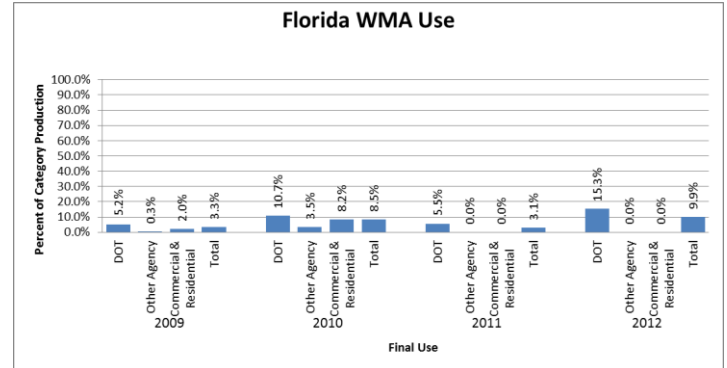
RAS Use



RAP Use



WMA Use



Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Ground Tire Rubber	1	86,441	195

Table B10: Summary Florida Data for 2012

Companies Reporting

5

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	2,470,087	8,011,519
Total Other Agency Tonnage	642,949	2,085,351
Total Commercial & Residential Tonnage	703,311	2,281,130
Total Tonnage	3,816,347	12,378,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	1,369,900	4,443,155
RAP Tons used in HMA/WMA	1,027,990	3,334,199
RAP Tons used as Aggregate	330,182	1,070,918
RAP Tons used in Cold Mix	25,398	82,376
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	25%	
Average % RAP in Other Agency Mixes	30%	
Average % RAP in Commercial & Residential Mixes	38%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	0%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	-	-
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	60%	
WMA DOT Tonnage	376,715	1,221,844
WMA Other Agency Tonnage	-	-
WMA Commercial & Residential Tonnage	-	-
Total WMA Tonnage	376,715	1,221,844
Percent WMA Tons using Chemical Additives	2.2%	
Percent WMA Tons using Additive Foaming	80.9%	
Percent WMA Tons using Plant Foaming	16.9%	
Percent WMA Tons using Organic Additive	0.0%	

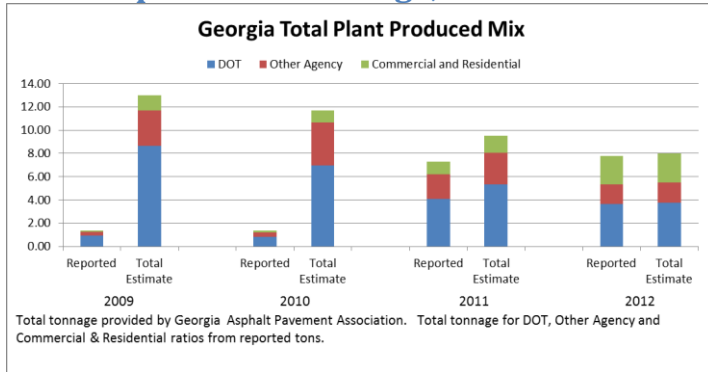
1. Total tonnage provided by Florida Asphalt Pavement Association. Total tonnage for DOT, Other Agency and

Commercial & Residential ratios from reported tons.

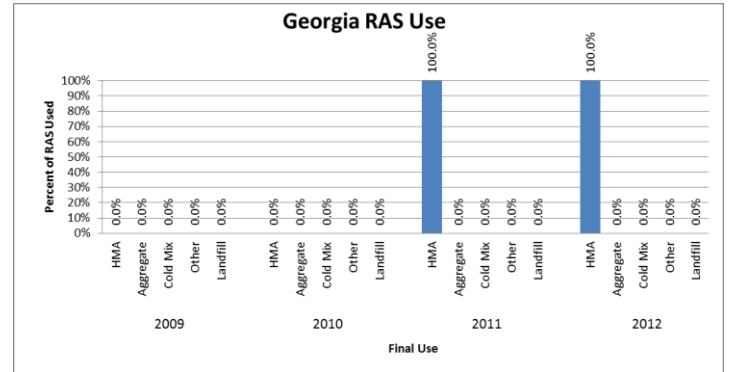
Georgia

Table B11 summarizes the results received from asphalt mix producers in Georgia. The charts are used to summarize statistics calculated from information provided by the survey respondents. Companies responding: 2 for 2009 & 2010, 6 for 2011 and 2012

Total Asphalt Mix Tonnage,

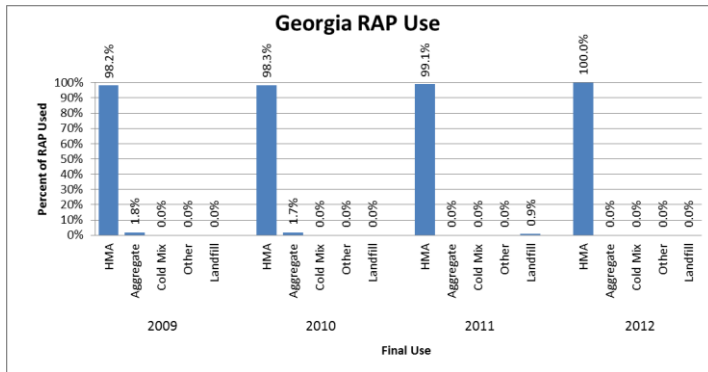


RAS Use

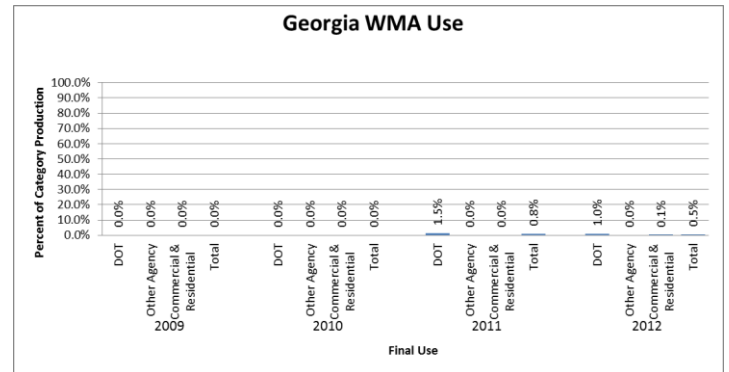


No contractor reported using RAS in Georgia in 2009 and 2010.

RAP Use



WMA Use



No contractors reported using WMA in Georgia in 2009 and 2010.

Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Ground Tire Rubber	2	281,958	195

Table B11: Summary of Georgia Data for 2012

Companies Reporting

6

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	3,663,768	3,767,643
Total Other Agency Tonnage	1,678,514	1,726,103
Total Commercial & Residential Tonnage	2,437,156	2,506,254
Total Tonnage	7,779,438	8,000,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	1,957,798	2,013,305
RAP Tons used in HMA/WMA	1,820,749	1,872,371
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	22%	
Average % RAP in Other Agency Mixes	23%	
Average % RAP in Commercial & Residential Mixes	24%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	17%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	369	379
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	33%	
WMA DOT Tonnage	36,395	37,427
WMA Other Agency Tonnage	-	-
WMA Commercial & Residential Tonnage	2,401	2,469
Total WMA Tonnage	38,796	39,896
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

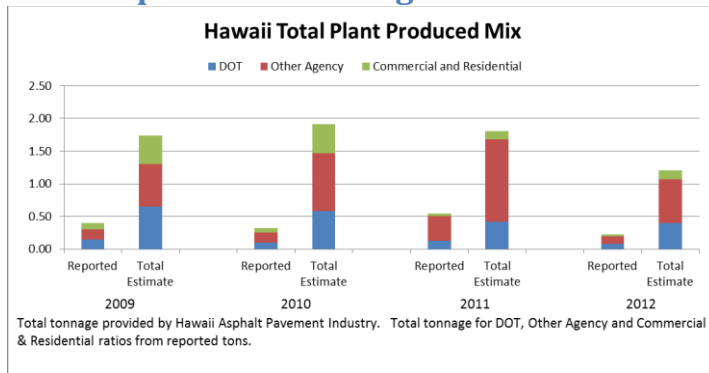
1. Total tonnage provided by Georgia Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Hawaii

Table B12 summarizes the results received from asphalt mix producers in Hawaii. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 1 for 2009, 2010, 2011, and 2012

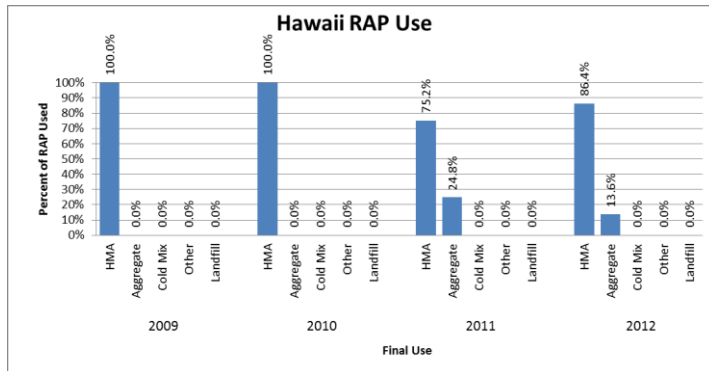
Total Asphalt Mix Tonnage



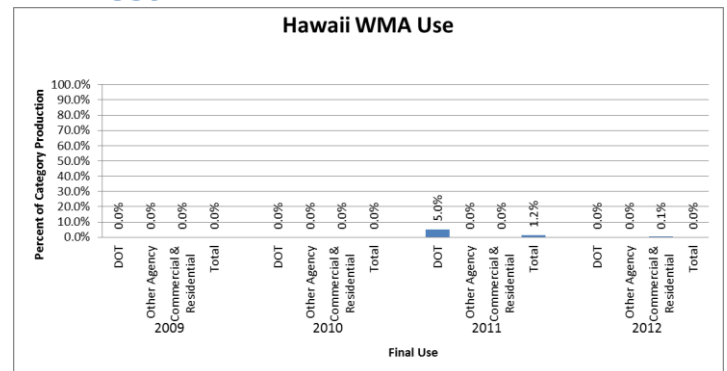
RAS Use

No contractor reported accepting or using RAS in 2009 through 2012.

RAP Use



WMA Use



The contractor did not report using WMA in 2009 and 2010.

Table B 12: Summary of Hawaii Data for 2012

Companies Reporting

1

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	75,000	400,000
Total Other Agency Tonnage	125,000	666,667
Total Commercial & Residential Tonnage	25,000	133,333
Total Tonnage	225,000	1,200,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	38,000	202,667
RAP Tons used in HMA/WMA	32,250	172,000
RAP Tons used as Aggregate	5,000	26,667
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	20%	
Average % RAP in Other Agency Mixes	10%	
Average % RAP in Commercial & Residential Mixes	20%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	0%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	-	-
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	-	-
WMA Other Agency Tonnage	-	-
WMA Commercial & Residential Tonnage	25	133
Total WMA Tonnage	25	133
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

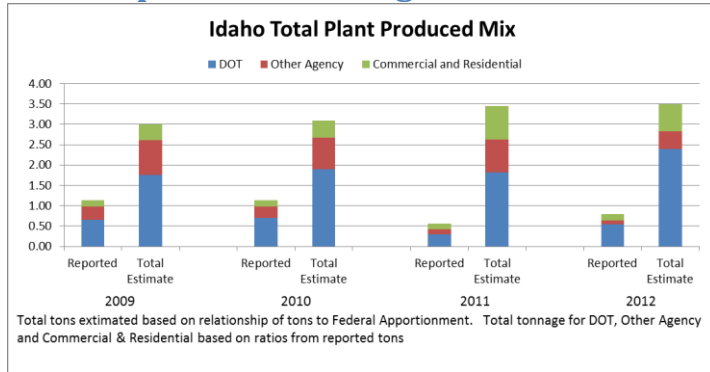
1. Total tons estimated based on relationship of tons to Federal Apportionment. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Idaho

Table B13 summarizes the results received from asphalt mix producers in Idaho. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 5 for 2009 & 2010, 3 for 2011 and 2012

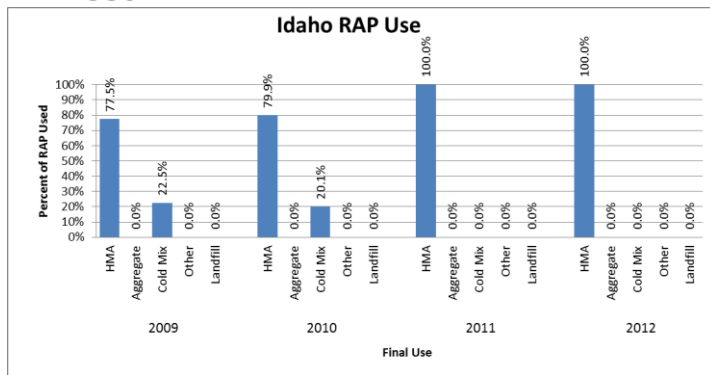
Total Asphalt Mix Tonnage



RAS Use

No contractors reported using RAS in 2009, 2010, 2011, and 2012.

RAP Use



WMA Use

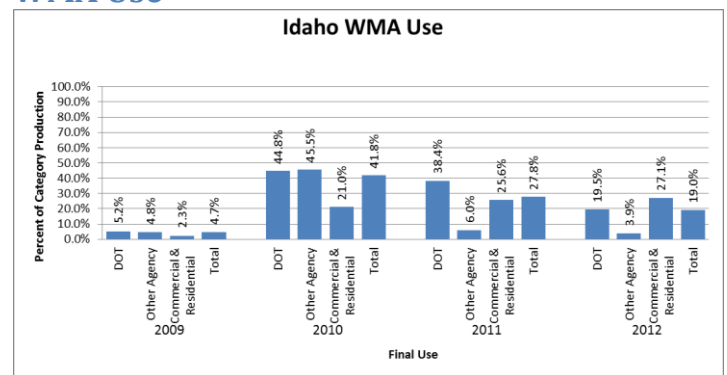


Table B 13: Summary of Idaho Data for 2012

Companies Reporting

3

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	541,301	2,396,604
Total Other Agency Tonnage	96,297	426,354
Total Commercial & Residential Tonnage	151,111	669,042
Total Tonnage	788,709	3,492,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	250,000	1,106,872
RAP Tons used in HMA/WMA	222,417	984,749
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	30%	
Average % RAP in Other Agency Mixes	23%	
Average % RAP in Commercial & Residential Mixes	24%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	0%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	-	-
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	67%	
WMA DOT Tonnage	105,376	466,550
WMA Other Agency Tonnage	3,754	16,622
WMA Commercial & Residential Tonnage	40,986	181,466
Total WMA Tonnage	150,116	664,638
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

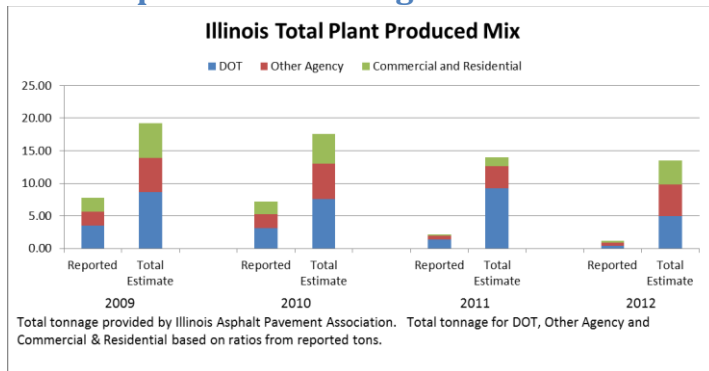
1. Total tons estimated based on relationship of tons to Federal Apportionment. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Illinois

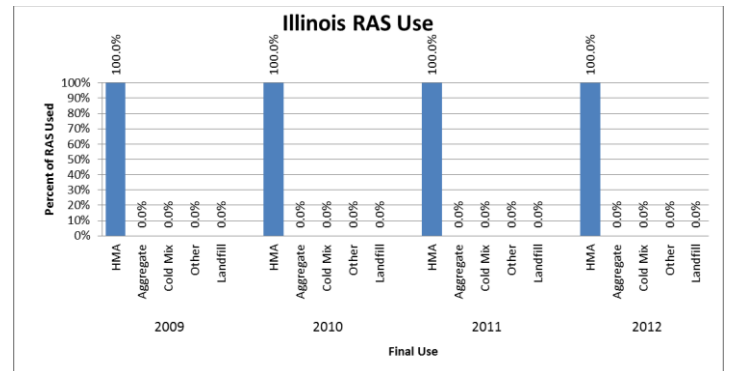
Table B14 summarizes the results received from asphalt mix producers in Illinois. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 16 for 2009 & 2010, 7 for 2011, 5 for 2012

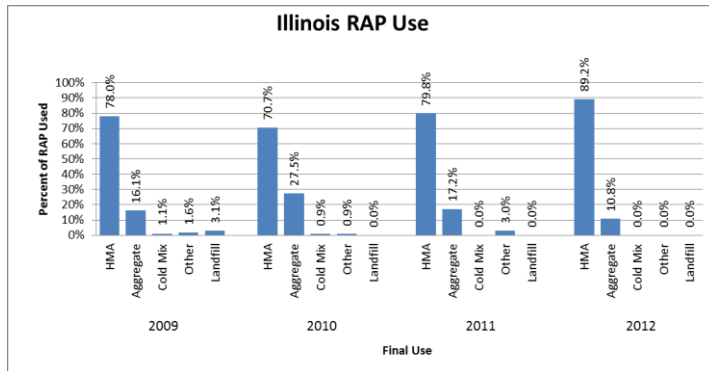
Total Asphalt Mix Tonnage



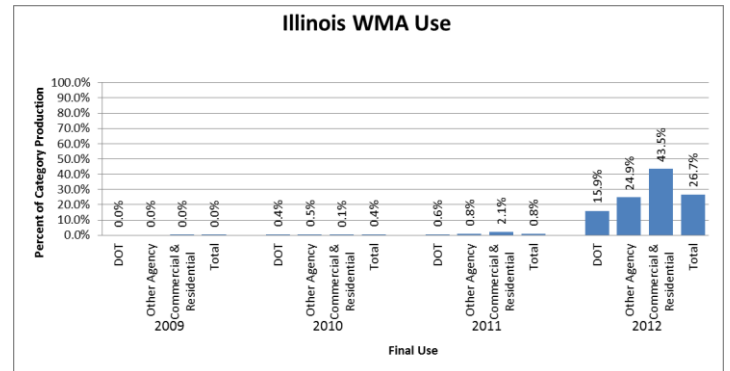
RAS Use



RAP Use



WMA Use



Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Steel Slag	1	23,000	8,000

Table B 14: Summary of Illinois Data for 2012

Companies Reporting

5

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	427,982	4,969,665
Total Other Agency Tonnage	418,773	4,862,731
Total Commercial & Residential Tonnage	315,850	3,667,604
Total Tonnage	1,162,605	13,500,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	307,200	3,567,162
RAP Tons used in HMA/WMA	347,632	4,036,652
RAP Tons used as Aggregate	42,000	487,698
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	28%	
Average % RAP in Other Agency Mixes	28%	
Average % RAP in Commercial & Residential Mixes	36%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	60%	
RAS Tons Received	7,000	81,283
RAS Tons used in HMA/WMA	9,875	114,667
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	3%	
Average % RAS in Other Agency Mixes	1%	
Average % RAS in Commercial & Residential Mixes	4%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	80%	
WMA DOT Tonnage	68,192	791,837
WMA Other Agency Tonnage	104,468	1,213,067
WMA Commercial & Residential Tonnage	137,515	1,596,804
Total WMA Tonnage	310,175	3,601,708
Percent WMA Tons using Chemical Additives	2.3%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	97.7%	
Percent WMA Tons using Organic Additive	0.0%	

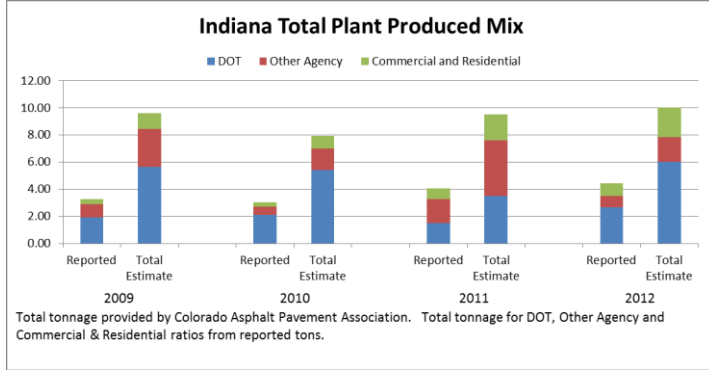
1. Total tonnage provided by Illinois Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Indiana

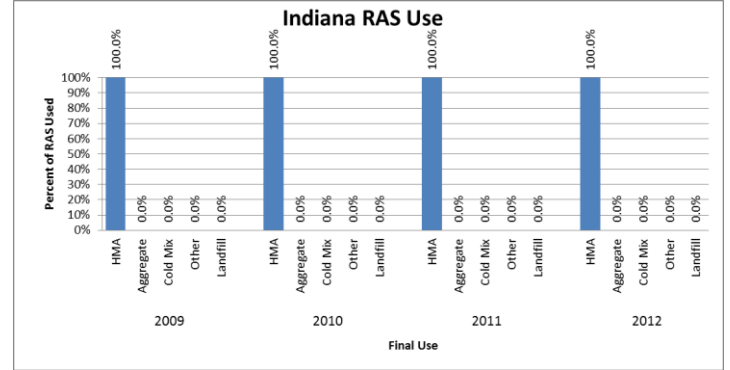
Table B15 summarizes the results received from asphalt mix producers in Indiana. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 3 for 2009 & 2010, 4 for 2011, 5 for 2012

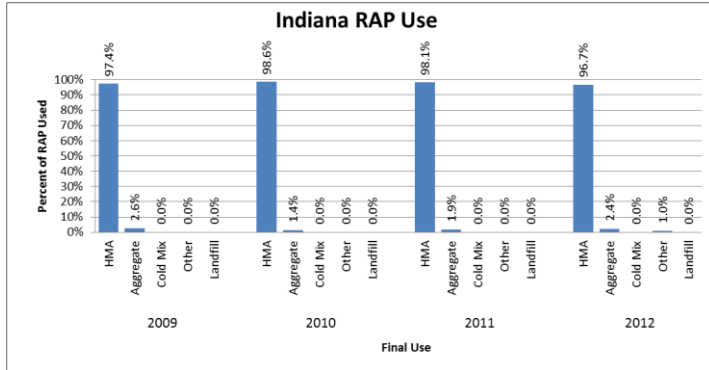
Total Asphalt Mix Tonnage



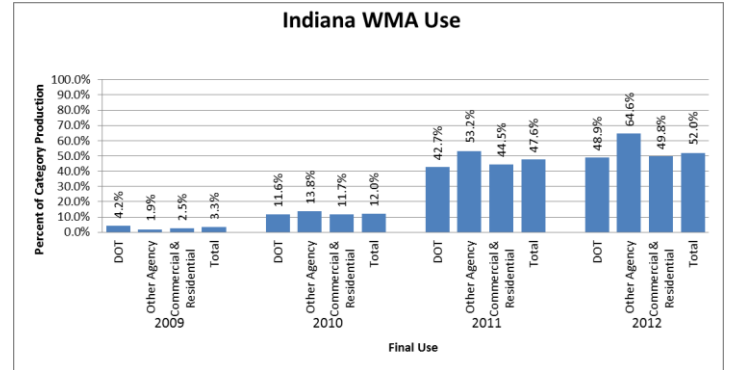
RAS Use



RAP Use



WMA Use



Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Steel Slag	2	70,000	44,000
Blast Furnace Slag	3	1,487,000	304,000

Table B14: Summary of Indiana Data for 2012

5

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	2,669,515	6,010,125
Total Other Agency Tonnage	813,754	1,832,079
Total Commercial & Residential Tonnage	958,427	2,157,795
Total Tonnage	4,441,696	10,000,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	1,100,000	2,476,531
RAP Tons used in HMA/WMA	1,013,352	2,281,453
RAP Tons used as Aggregate	25,000	56,285
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	10,000	22,514
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	23%	
Average % RAP in Other Agency Mixes	30%	
Average % RAP in Commercial & Residential Mixes	31%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	80%	
RAS Tons Received	29,500	66,416
RAS Tons used in HMA/WMA	35,000	78,799
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	3%	
Average % RAS in Other Agency Mixes	3%	
Average % RAS in Commercial & Residential Mixes	3%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	80%	
WMA DOT Tonnage	1,305,000	2,938,067
WMA Other Agency Tonnage	526,000	1,184,232
WMA Commercial & Residential Tonnage	477,000	1,073,914
Total WMA Tonnage	2,308,000	5,196,213
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

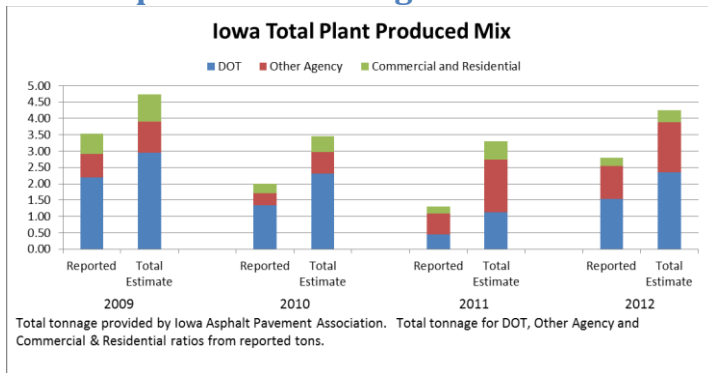
1. Total tonnage provided by Indiana Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Iowa

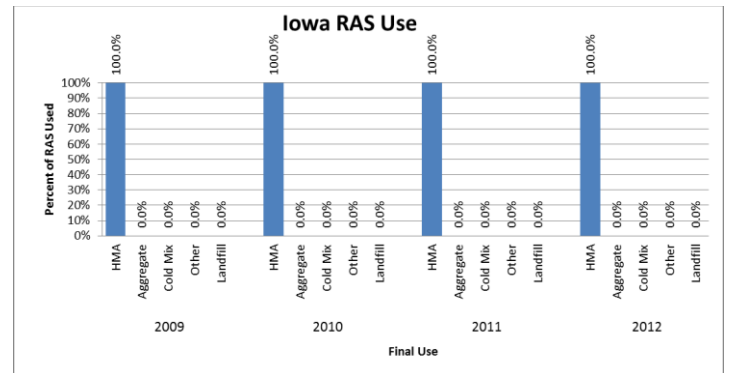
Table B16 summarizes the results received from asphalt mix producers in Iowa. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 7 for 2009 & 2010, 6 for 2011, 10 for 2012

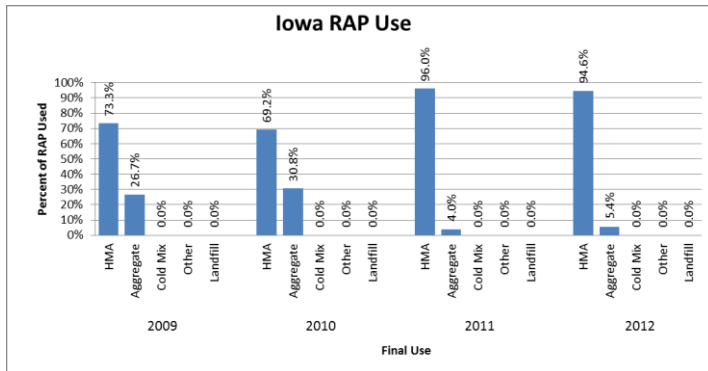
Total Asphalt Mix Tonnage



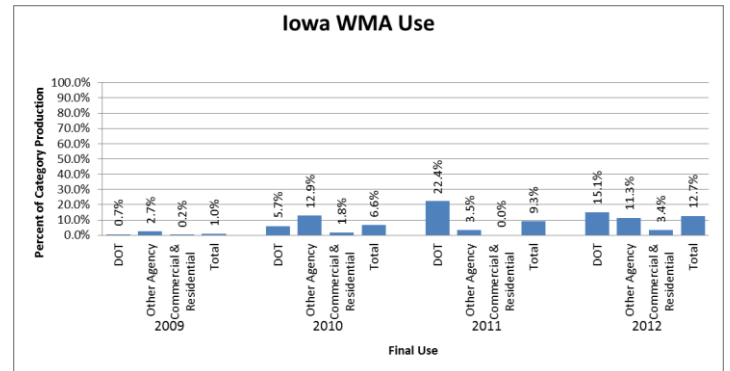
RAS Use



RAP Use



WMA Use



Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Steel Slag	1	20,000	Not Reported

Table B15: Summary of Iowa Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	1,541,000	2,347,036
Total Other Agency Tonnage	1,002,000	1,526,107
Total Commercial & Residential Tonnage	254,000	386,857
Total Tonnage	2,797,000	4,260,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	422,920	644,133
RAP Tons used in HMA/WMA	433,259	659,880
RAP Tons used as Aggregate	25,000	38,077
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	17%	
Average % RAP in Other Agency Mixes	18%	
Average % RAP in Commercial & Residential Mixes	19%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	70%	
RAS Tons Received	10,200	15,535
RAS Tons used in HMA/WMA	13,303	20,261
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	1%	
Average % RAS in Other Agency Mixes	2%	
Average % RAS in Commercial & Residential Mixes	1%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	40%	
WMA DOT Tonnage	232,750	354,492
WMA Other Agency Tonnage	113,660	173,111
WMA Commercial & Residential Tonnage	8,630	13,144
Total WMA Tonnage	355,040	540,747
Percent WMA Tons using Chemical Additives	0.4%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	99.6%	
Percent WMA Tons using Organic Additive	0.0%	

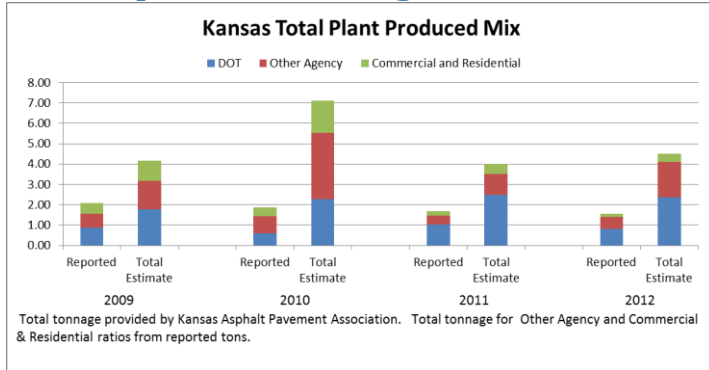
1. Total tonnage provided by Iowa Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Kansas

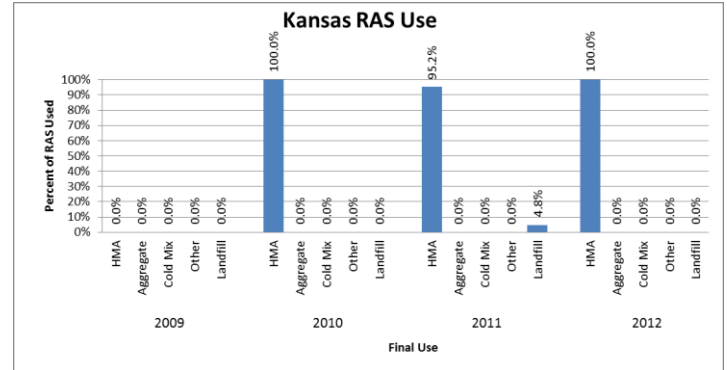
Table B17 summarizes the results received from asphalt mix producers in Kansas. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 6 for 2009 & 2010, 4 for 2011, 3 for 2012

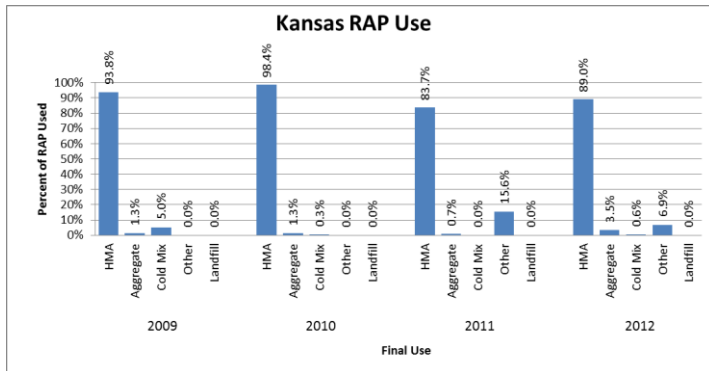
Total Asphalt Mix Tonnage



RAS Use



RAP Use



WMA Use

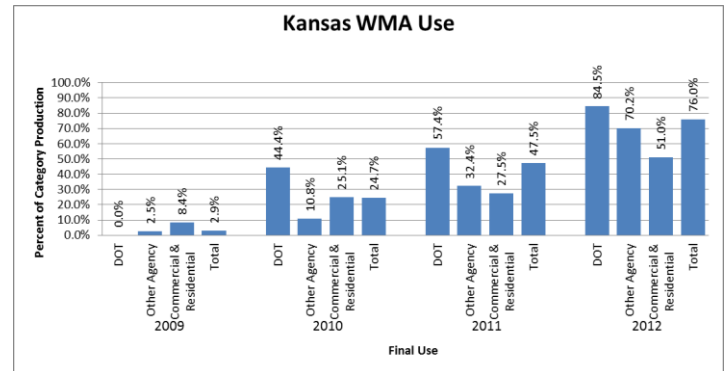


Table B16: Summary of Kansas Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	815,668	2,367,613
Total Other Agency Tonnage	593,000	1,721,282
Total Commercial & Residential Tonnage	141,630	411,105
Total Tonnage	1,550,298	4,500,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	370,000	1,073,987
RAP Tons used in HMA/WMA	310,579	901,508
RAP Tons used as Aggregate	12,000	34,832
RAP Tons used in Cold Mix	2,000	5,805
RAP Tons used as Other	24,000	69,664
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	25%	
Average % RAP in Other Agency Mixes	29%	
Average % RAP in Commercial & Residential Mixes	25%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	67%	
RAS Tons Received	10,000	29,027
RAS Tons used in HMA/WMA	3,252	9,439
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	3%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	689,518	2,001,442
WMA Other Agency Tonnage	416,250	1,208,235
WMA Commercial & Residential Tonnage	72,250	209,718
Total WMA Tonnage	1,178,018	3,419,395
Percent WMA Tons using Chemical Additives	23.9%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	76.1%	
Percent WMA Tons using Organic Additive	0.0%	

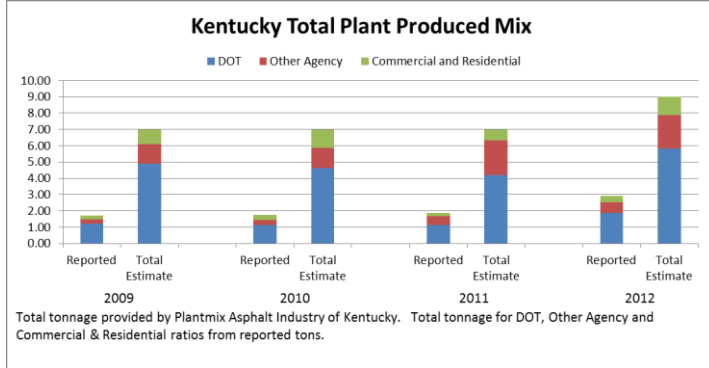
1. Total tonnage provided by Kansas Asphalt Pavement Association. Total tonnage for Other Agency and Commercial & Residential ratios from reported tons.

Kentucky

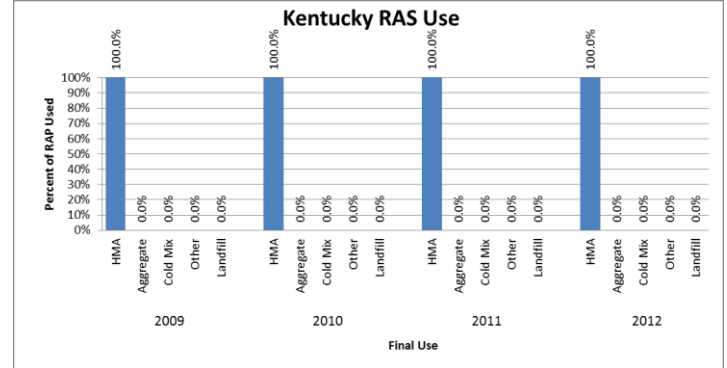
Table B18 summarizes the results received from asphalt mix producers in Kentucky. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 3 for 2009 & 2010, 4 for 2011, 5 for 2012

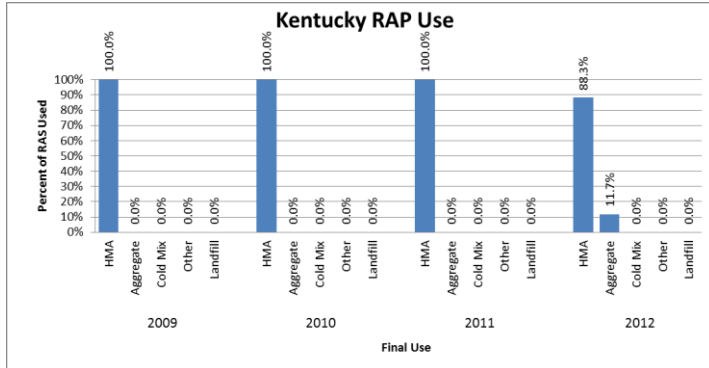
Total Asphalt Mix Tonnage



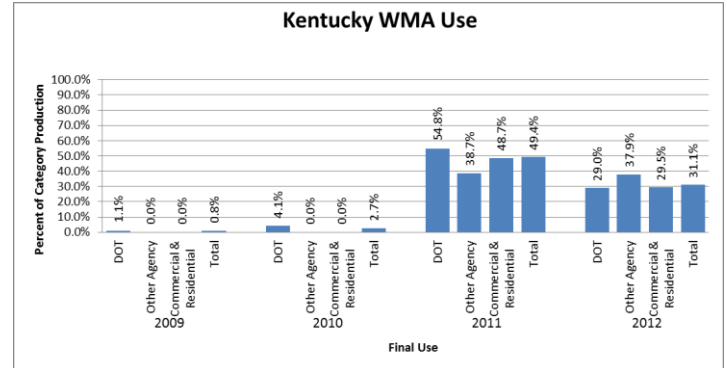
RAS Use



RAP Use



WMA Use



Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Steel Slag	1	5,714	800

Table B17: Summary of Kentucky Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	1,878,387	5,835,433
Total Other Agency Tonnage	662,032	2,056,681
Total Commercial & Residential Tonnage	356,621	1,107,886
Total Tonnage	2,897,040	9,000,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	281,480	874,451
RAP Tons used in HMA/WMA	300,724	934,235
RAP Tons used as Aggregate	39,803	123,653
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	34%	
Average % RAP in Other Agency Mixes	11%	
Average % RAP in Commercial & Residential Mixes	8%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	60%	
RAS Tons Received	46,164	143,414
RAS Tons used in HMA/WMA	46,164	143,414
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	2%	
Average % RAS in Other Agency Mixes	1%	
Average % RAS in Commercial & Residential Mixes	1%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	80%	
WMA DOT Tonnage	544,077	1,690,241
WMA Other Agency Tonnage	250,970	779,669
WMA Commercial & Residential Tonnage	105,046	326,339
Total WMA Tonnage	900,094	2,796,249
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

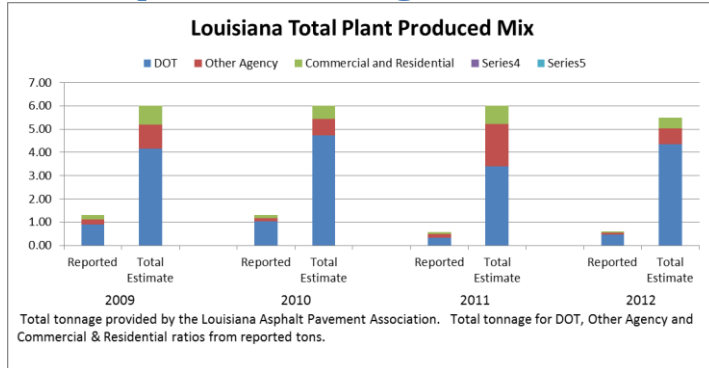
1. Total tonnage provided by Plantmix Asphalt Industry of Kentucky. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Louisiana

Table B19 summarizes the results received from asphalt mix producers in Louisiana. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 2 for 2009, 2010, 2011 and 2012

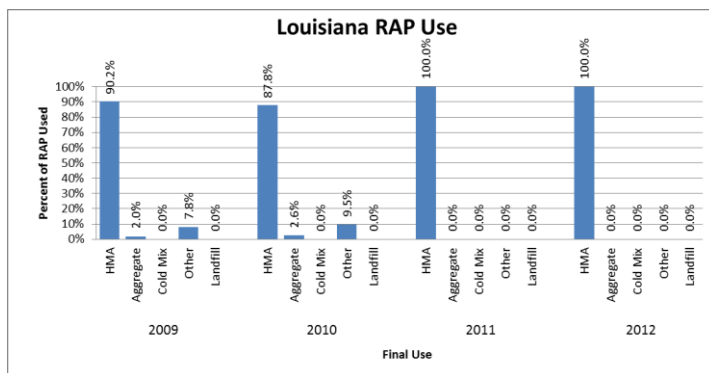
Total Asphalt Mix Tonnage



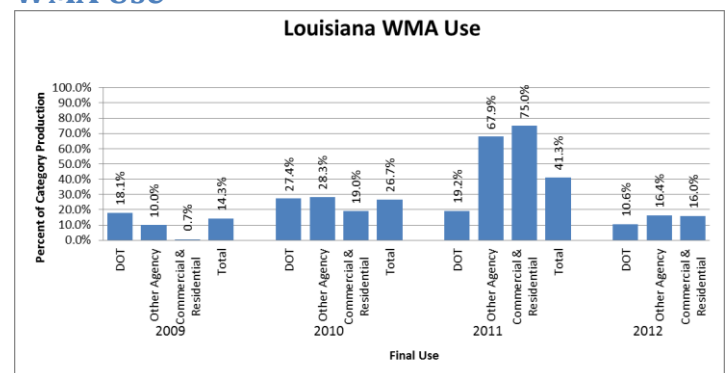
RAS Use

No contractors reported using RAS in 2009, 2010, 2011 or 2012.

RAP Use



WMA Use



Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Ground Tire Rubber	1	25,000	Not Reported

Table B18: Summary of Louisiana Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2011	2011
Total DOT Tonnage	470,000	4,359,191
Total Other Agency Tonnage	73,000	677,066
Total Commercial & Residential Tonnage	50,000	463,744
Total Tonnage	593,000	5,500,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	125,000	1,159,359
RAP Tons used in HMA/WMA	110,000	1,020,236
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	18%	
Average % RAP in Other Agency Mixes	20%	
Average % RAP in Commercial & Residential Mixes	20%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	0%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	-	-
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	50%	
WMA DOT Tonnage	50,000	463,744
WMA Other Agency Tonnage	12,000	111,298
WMA Commercial & Residential Tonnage	8,000	74,199
Total WMA Tonnage	70,000	649,241
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

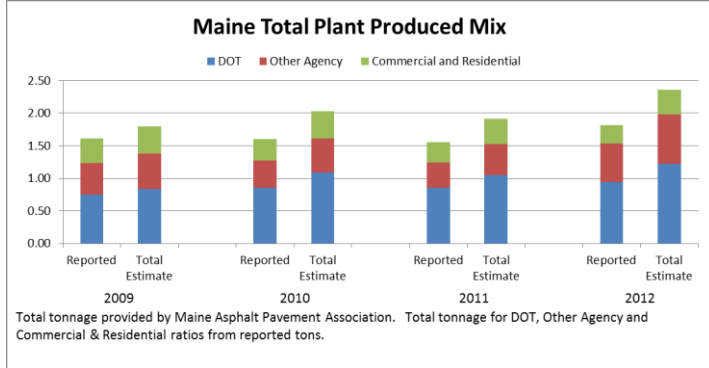
1. Total tonnage provided by the Louisiana Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Maine

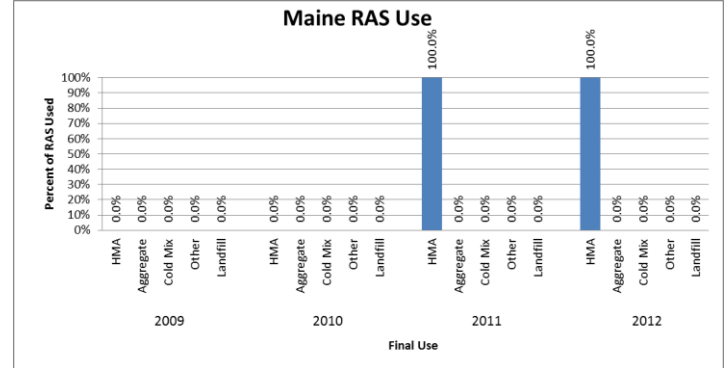
Table B20 summarizes the results received from asphalt mix producers in Maine. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 2 for 2009, 2010, 2011 and 2012

Total Asphalt Mix Tonnage

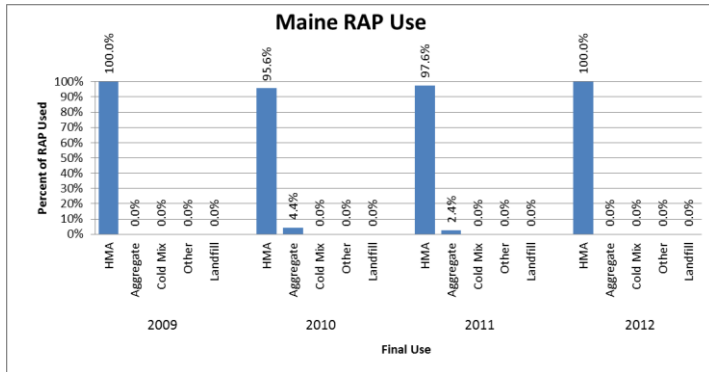


RAS Use



No contractors reported using RAS in 2009 and 2010.

RAP Use



WMA Use

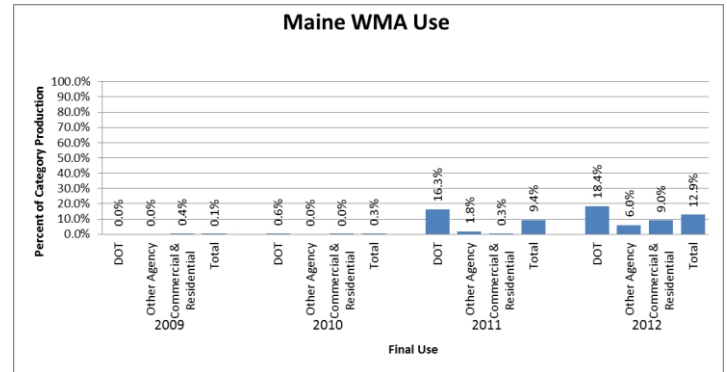


Table B19: Summary of Maine Data for 2012

Companies Reporting

2

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	941,955	1,221,909
Total Other Agency Tonnage	587,969	762,717
Total Commercial & Residential Tonnage	289,371	375,374
Total Tonnage	1,819,295	2,360,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	243,094	315,343
RAP Tons used in HMA/WMA	267,032	346,395
RAP Tons used as Aggregate	370	480
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	15%	
Average % RAP in Other Agency Mixes	15%	
Average % RAP in Commercial & Residential Mixes	17%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	100%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	23,399	30,353
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	5%	
Average % RAS in Other Agency Mixes	4%	
Average % RAS in Commercial & Residential Mixes	3%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	173,756	225,397
WMA Other Agency Tonnage	35,506	46,059
WMA Commercial & Residential Tonnage	26,123	33,887
Total WMA Tonnage	235,385	305,343
Percent WMA Tons using Chemical Additives	37.2%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	62.8%	
Percent WMA Tons using Organic Additive	0.0%	

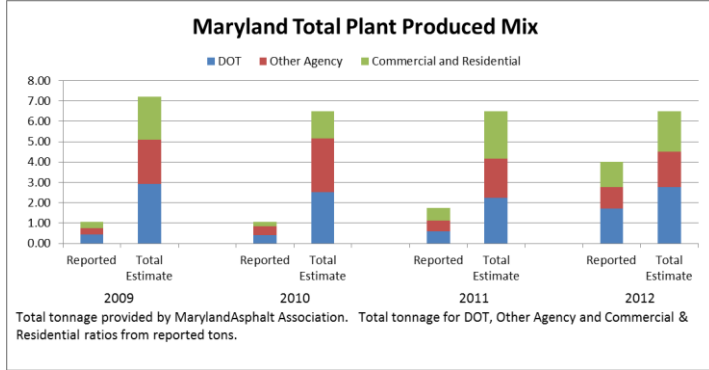
1. Total tonnage provided by Maine Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Maryland

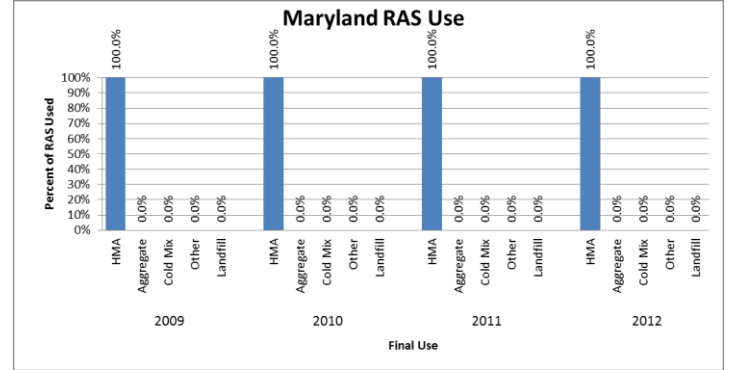
Table B21 summarizes the results received from asphalt mix producers in Maryland. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 4 for 2009, 2010 & 2011, 7 for 2012

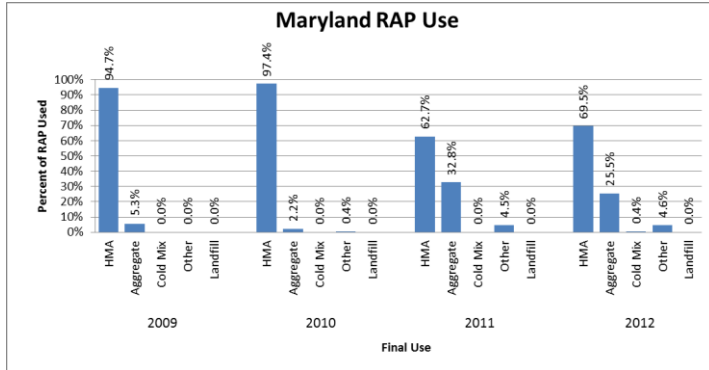
Total Asphalt Mix Tonnage



RAS Use



RAP Use



WMA Use

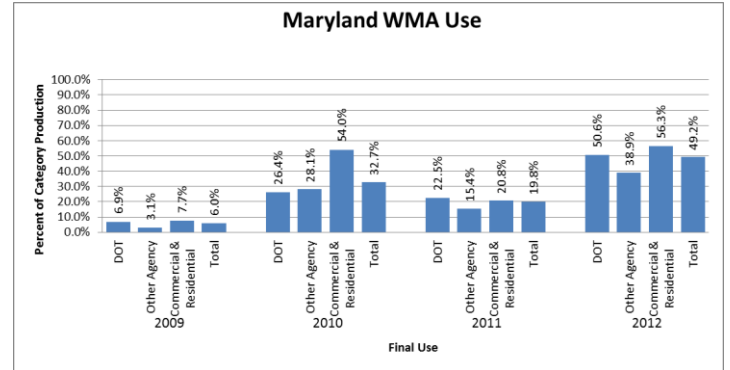


Table B20: Summary of Maryland Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	1,702,450	2,762,923
Total Other Agency Tonnage	1,071,750	1,739,354
Total Commercial & Residential Tonnage	1,232,800	2,000,723
Total Tonnage	4,007,000	6,503,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	1,710,000	2,775,176
RAP Tons used in HMA/WMA	872,000	1,415,177
RAP Tons used as Aggregate	320,000	519,331
RAP Tons used in Cold Mix	5,000	8,115
RAP Tons used as Other	57,000	92,506
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	21%	
Average % RAP in Other Agency Mixes	23%	
Average % RAP in Commercial & Residential Mixes	27%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	29%	
RAS Tons Received	20,000	32,458
RAS Tons used in HMA/WMA	16,000	25,967
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	1%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	1%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	861,035	1,397,382
WMA Other Agency Tonnage	417,025	676,794
WMA Commercial & Residential Tonnage	694,340	1,126,851
Total WMA Tonnage	1,972,400	3,201,028
Percent WMA Tons using Chemical Additives	8.5%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	91.5%	
Percent WMA Tons using Organic Additive	0.0%	

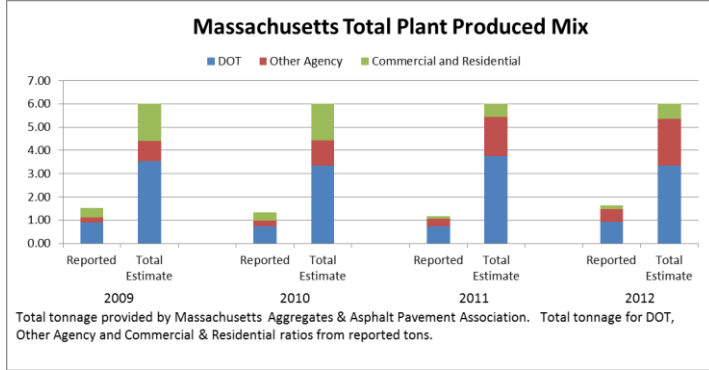
1. Total tonnage provided by the Maryland Asphalt Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Massachusetts

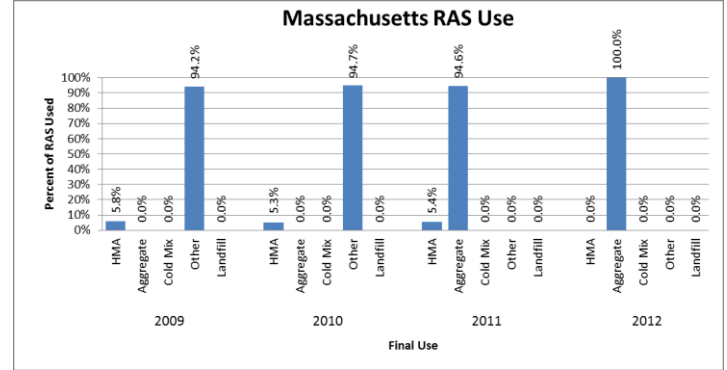
Table B22 summarizes the results received from asphalt mix producers in Massachusetts. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 2 for 2009, 2010 & 2011, 3 for 2012

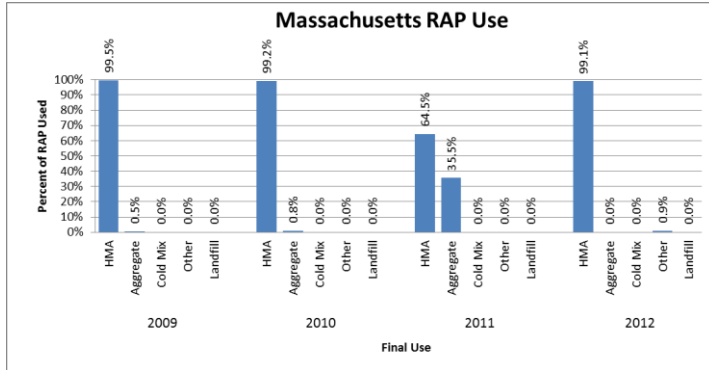
Total Asphalt Mix Tonnage



RAS Use



RAP Use



WMA Use

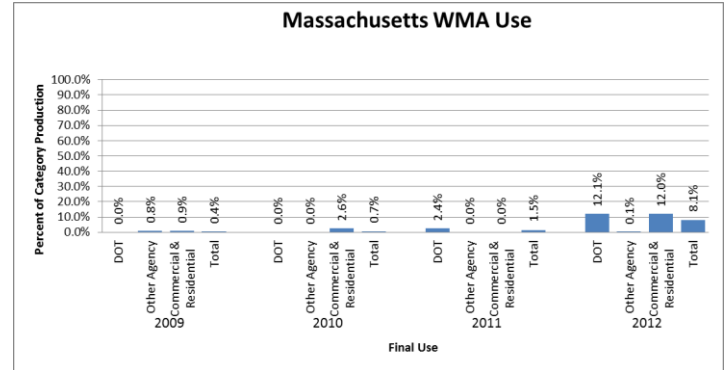


Table B21: Summary of Massachusetts Data for 2012

Companies Reporting

3

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	914,427	3,352,302
Total Other Agency Tonnage	542,689	1,989,505
Total Commercial & Residential Tonnage	179,539	658,192
Total Tonnage	1,636,655	6,000,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	233,000	854,181
RAP Tons used in HMA/WMA	257,663	944,596
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	2,400	8,798
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	16%	
Average % RAP in Other Agency Mixes	13%	
Average % RAP in Commercial & Residential Mixes	14%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	0%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	-	-
RAS Tons used as Aggregate	20,000	73,320
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	110,592	405,432
WMA Other Agency Tonnage	570	2,090
WMA Commercial & Residential Tonnage	21,631	79,300
Total WMA Tonnage	132,793	486,821
Percent WMA Tons using Chemical Additives	55.6%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	33.0%	
Percent WMA Tons using Organic Additive	11.4%	

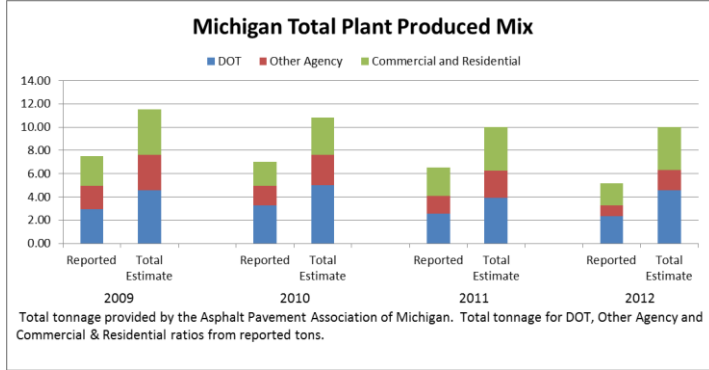
1. Total tonnage provided by the Massachusetts Aggregate & Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Michigan

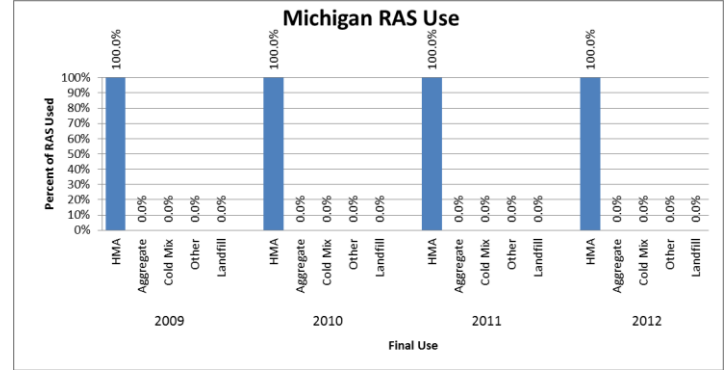
Table B23 summarizes the results received from asphalt mix producers in Michigan. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 8 for 2009 & 2010, 6 for 2011, 4 for 2012

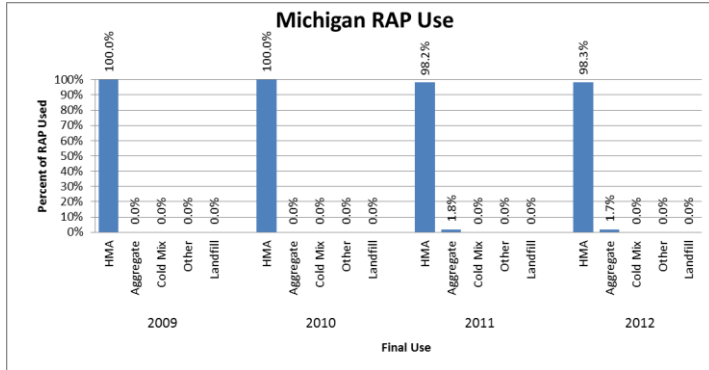
Total Asphalt Mix Tonnage



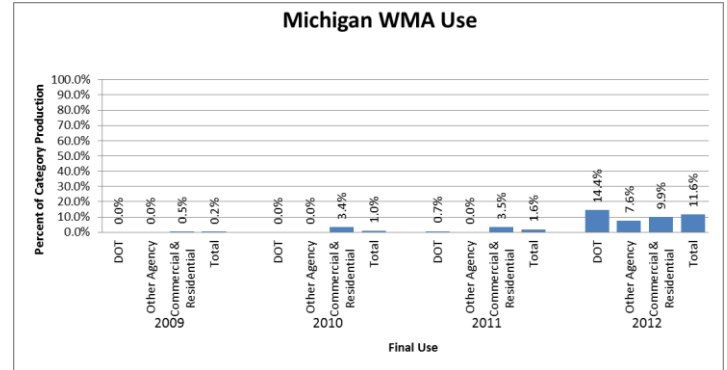
RAS Use



RAP Use



WMA Use



Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Ground Tire Rubber	1	2,400	20
Blast Furnace Slag	3	500,000	50,000

Table B22: Summary of Michigan Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	2,358,516	4,568,296
Total Other Agency Tonnage	909,530	1,761,702
Total Commercial & Residential Tonnage	1,894,746	3,670,003
Total Tonnage	5,162,792	10,000,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	1,938,068	3,753,915
RAP Tons used in HMA/WMA	1,731,009	3,352,854
RAP Tons used as Aggregate	30,000	58,108
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	23%	
Average % RAP in Other Agency Mixes	28%	
Average % RAP in Commercial & Residential Mixes	38%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	25%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	16,311	31,593
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	1%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	340,011	658,580
WMA Other Agency Tonnage	69,113	133,867
WMA Commercial & Residential Tonnage	188,473	365,060
Total WMA Tonnage	597,597	1,157,507
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

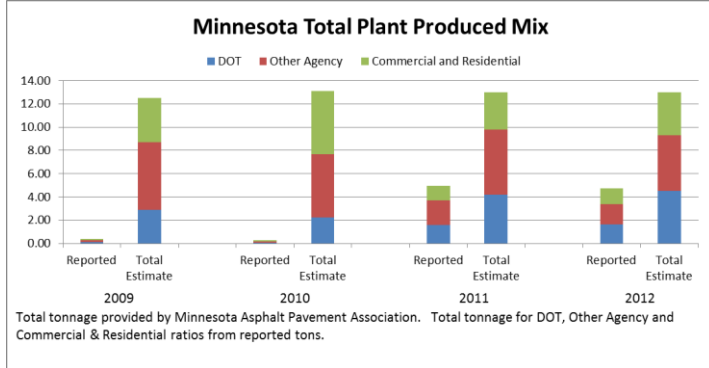
1. Total tonnage provided by the Asphalt Pavement Association of Michigan. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Minnesota

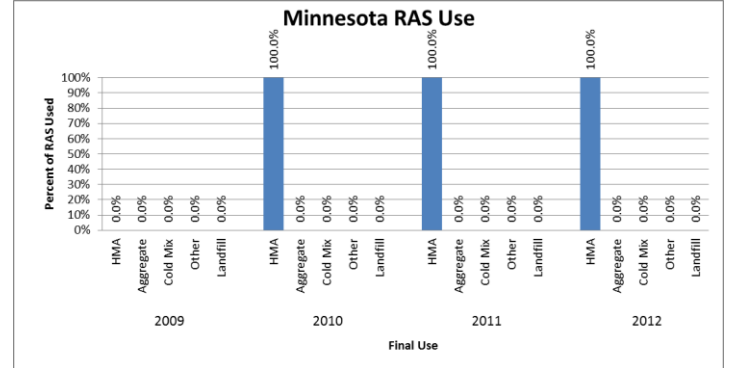
Table B23 summarizes the results received from asphalt mix producers in Minnesota. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 2 for 2009 & 2010, 6 for 2011, 4 for 2012

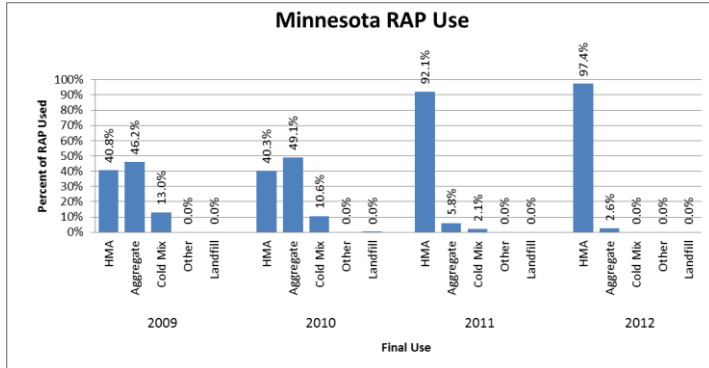
Total Asphalt Mix Tonnage



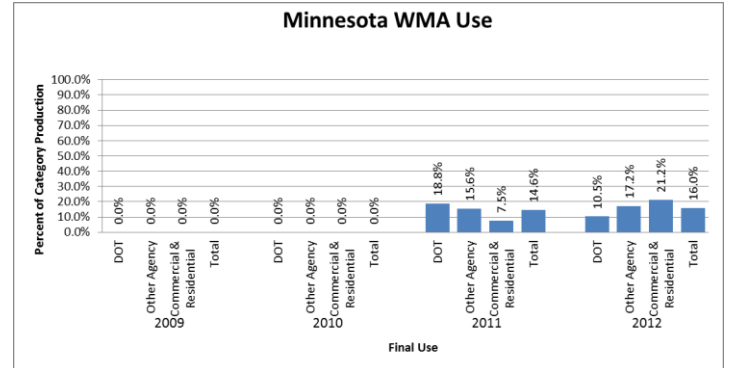
RAS Use



RAP Use



WMA Use



No contractors reported using WMA in 2009 or 2010.

Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Steel Slag	1	145,500	21,8000

Table B23: Summary of Minnesota Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	1,650,000	4,532,967
Total Other Agency Tonnage	1,740,000	4,780,220
Total Commercial & Residential Tonnage	1,342,000	3,686,813
Total Tonnage	4,732,000	13,000,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	915,000	2,513,736
RAP Tons used in HMA/WMA	943,678	2,592,522
RAP Tons used as Aggregate	25,000	68,681
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	20%	
Average % RAP in Other Agency Mixes	21%	
Average % RAP in Commercial & Residential Mixes	22%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	100%	
RAS Tons Received	22,500	61,813
RAS Tons used in HMA/WMA	34,304	94,242
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	4%	
Average % RAS in Other Agency Mixes	5%	
Average % RAS in Commercial & Residential Mixes	5%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	75%	
WMA DOT Tonnage	172,500	473,901
WMA Other Agency Tonnage	299,000	821,429
WMA Commercial & Residential Tonnage	285,000	782,967
Total WMA Tonnage	756,500	2,078,297
Percent WMA Tons using Chemical Additives	13.5%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	86.5%	
Percent WMA Tons using Organic Additive	0.0%	

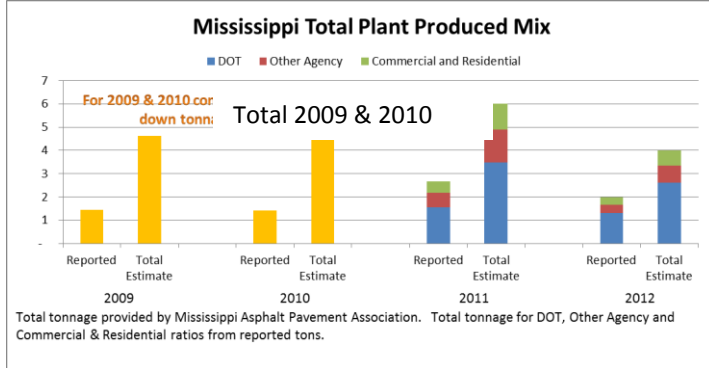
1. Total tonnage provided by the Minnesota Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Mississippi

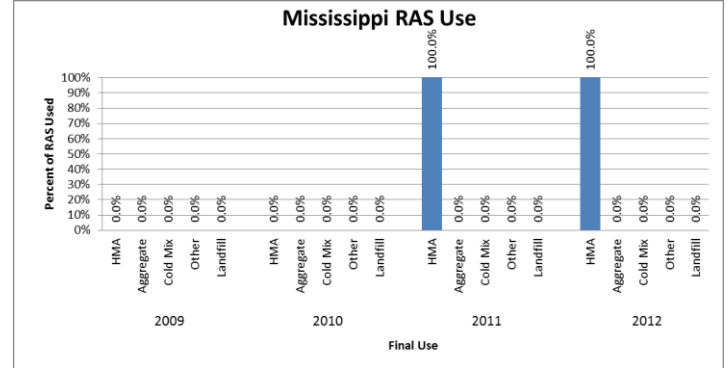
Table B25 summarizes the results received from asphalt mix producers in Mississippi. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 1 for 2009 & 2010, 4 for 2011, 3 for 2012

Total Asphalt Mix Tonnage

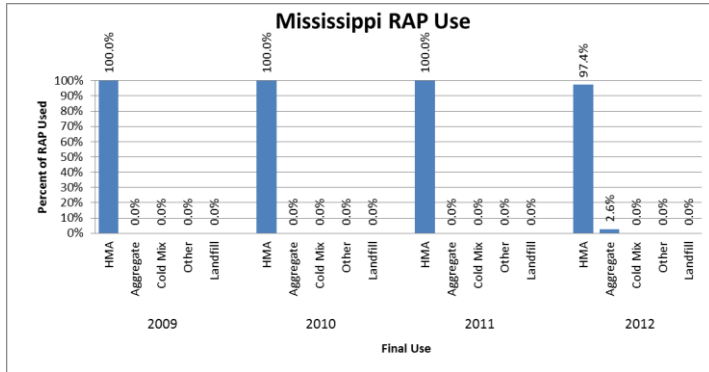


RAS Use

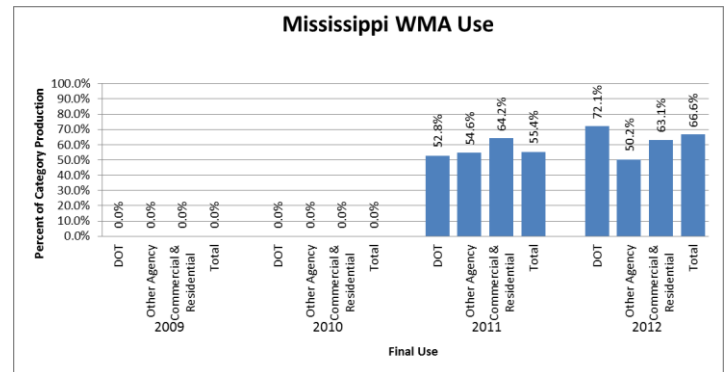


The contractor did not report any RAS use in 2009 or 2010.

RAP Use



WMA Use



The contractor did not report an WMA use in 2009 or 2010.

Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Fly Ash	1	50,000	2,400
Cellulose Fiber	1	76,000	250

Table B24: Summary of Mississippi Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	1,296,360	2,613,082
Total Other Agency Tonnage	367,150	740,067
Total Commercial & Residential Tonnage	320,905	646,851
Total Tonnage	1,984,415	4,000,000
Reclaimed Asphalt Pavement (RAP)		
	2012	2012
	2011	2011
Percent Companies using RAP	100%	
RAP Tons Received	370,499	746,818
RAP Tons used in HMA/WMA	372,549	750,950
RAP Tons used as Aggregate	10,000	20,157
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	18%	
Average % RAP in Other Agency Mixes	15%	
Average % RAP in Commercial & Residential Mixes	22%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	33%	
RAS Tons Received	1,600	3,225
RAS Tons used in HMA/WMA	1,455	2,933
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	4%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	934,654	1,883,990
WMA Other Agency Tonnage	184,450	371,797
WMA Commercial & Residential Tonnage	202,405	407,989
Total WMA Tonnage	1,321,509	2,663,776
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

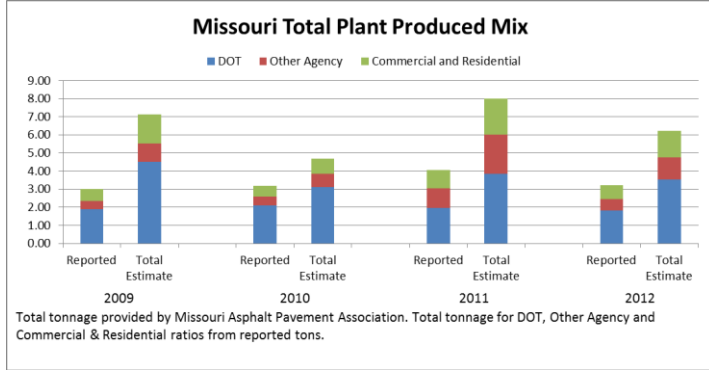
1. Total tonnage provided by Mississippi Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Missouri

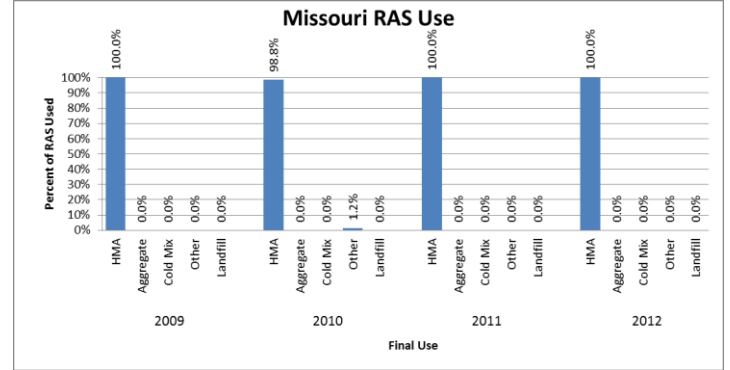
Table B25 summarizes the results received from asphalt mix producers in Missouri. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 6 for 2009 & 2010, 7 for 2011, 5 for 2012

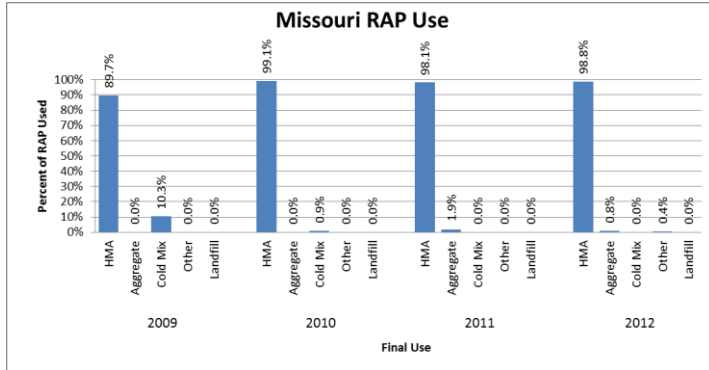
Total Asphalt Mix Tonnage



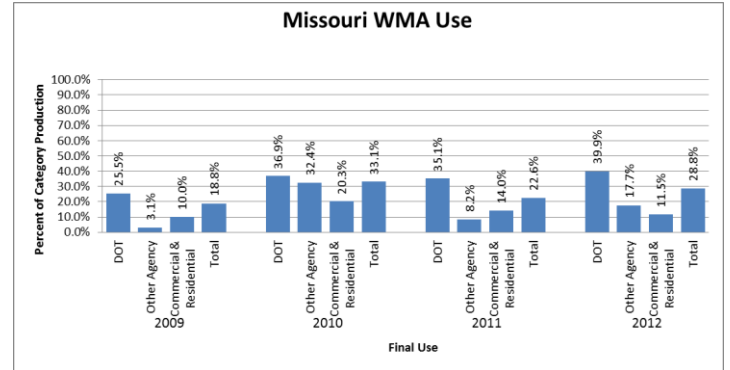
RAS Use



RAP Use



WMA Use



Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Ground Tire Rubber	1	100,000	300
Foundry Sand	1	5,000	500

Table B25: Summary of Missouri Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	1,826,855	3,530,545
Total Other Agency Tonnage	629,962	1,217,452
Total Commercial & Residential Tonnage	769,439	1,487,003
Total Tonnage	3,226,256	6,235,000
Reclaimed Asphalt Pavement (RAP)		
	2012	2012
	2011	2011
Percent Companies using RAP	100%	
RAP Tons Received	530,965	1,026,133
RAP Tons used in HMA/WMA	627,334	1,212,374
RAP Tons used as Aggregate	5,000	9,663
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	2,500	4,831
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	18%	
Average % RAP in Other Agency Mixes	26%	
Average % RAP in Commercial & Residential Mixes	22%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	100%	
RAS Tons Received	66,911	129,311
RAS Tons used in HMA/WMA	82,336	159,121
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	3%	
Average % RAS in Other Agency Mixes	3%	
Average % RAS in Commercial & Residential Mixes	2%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	729,191	1,409,221
WMA Other Agency Tonnage	111,472	215,428
WMA Commercial & Residential Tonnage	88,415	170,869
Total WMA Tonnage	929,078	1,795,518
Percent WMA Tons using Chemical Additives	7.7%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	92.3%	
Percent WMA Tons using Organic Additive	0.0%	

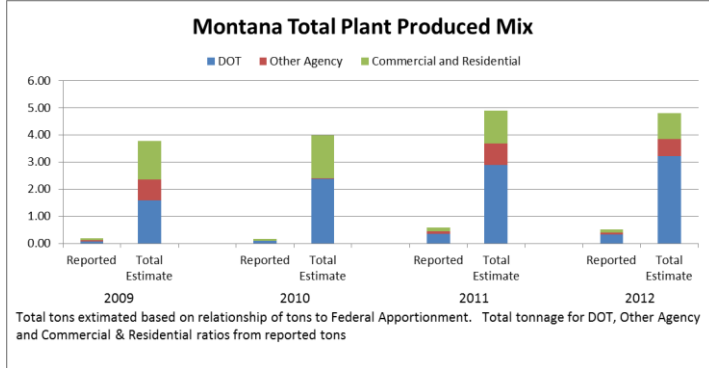
1. Total tonnage provided by Missouri Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Montana

Table B27 summarizes the results received from asphalt mix producers in Montana. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 2 for 2009 and 2010, 4 for 2011 and 2012

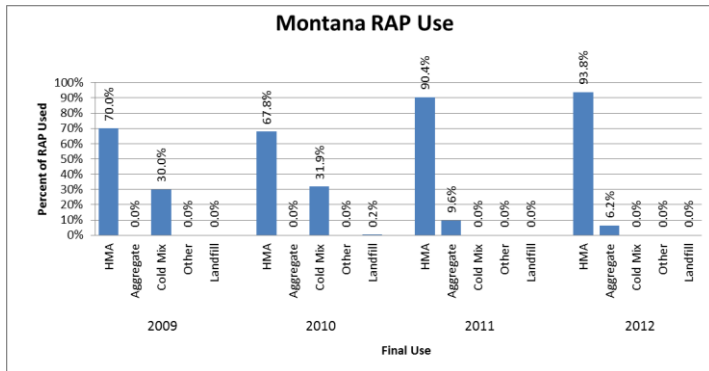
Total Asphalt Mix Tonnage



RAS Use

No contractors reported using RAS in 2009, 2010, 2011 or 2012.

RAP Use



WMA Use

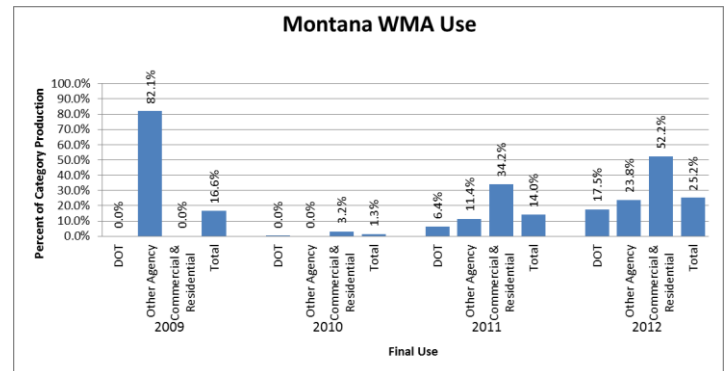


Table B26: Summary of Montana Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	340,098	3,225,351
Total Other Agency Tonnage	65,520	621,365
Total Commercial & Residential Tonnage	100,941	957,283
Total Tonnage	506,559	4,804,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	75%	
RAP Tons Received	43,000	407,795
RAP Tons used in HMA/WMA	48,221	457,308
RAP Tons used as Aggregate	3,184	30,196
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	14%	
Average % RAP in Other Agency Mixes	16%	
Average % RAP in Commercial & Residential Mixes	18%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	25%	
RAS Tons Received	85	806
RAS Tons used in HMA/WMA	-	-
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	50%	
WMA DOT Tonnage	59,600	565,222
WMA Other Agency Tonnage	15,568	147,643
WMA Commercial & Residential Tonnage	52,688	499,667
Total WMA Tonnage	127,856	1,212,532
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

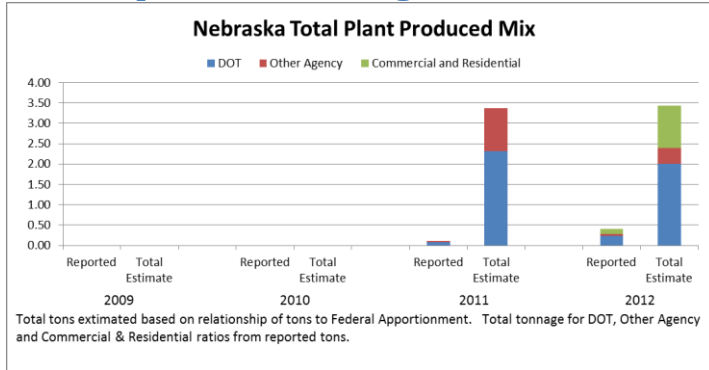
1. Total tons estimated based on relationship of tons to Federal Apportionment. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Nebraska

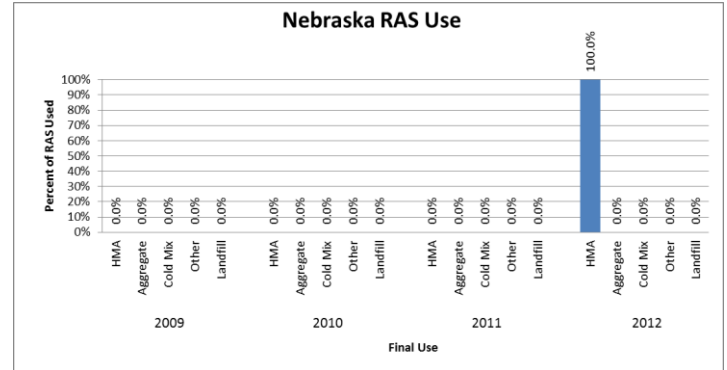
No contractors submitted data for the Nebraska for 2009 and 2010. One contractor submitted data for 2011 and 2012. Total tons were estimated based on a relationship tons to federal apportionment. Table B28 summarizes this data.

No contractors responded in 2009 or 2010, 1 contractor responded in 2011 & 2012

Total Asphalt Mix Tonnage

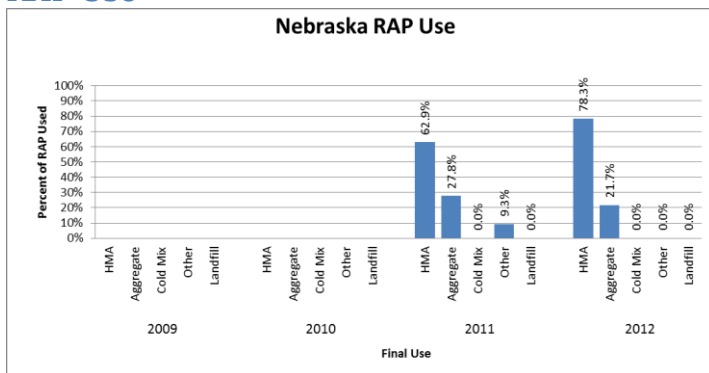


RAS Use

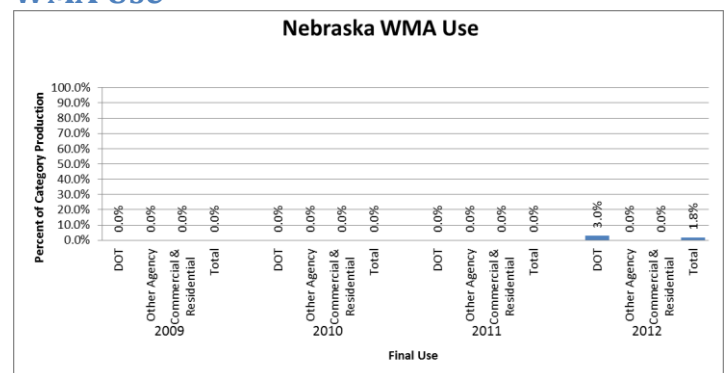


No companies in Nebraska responded to the 2009 and 2010 survey. No RAS use was reported in 2011

RAP Use



WMA Use



No companies in Nebraska responded to the 2009 and 2010 survey. No WMA use was reported in 2011

Table B27: Summary of Nebraska Data for 2012

1

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	235,000	2,008,918
Total Other Agency Tonnage	45,000	384,686
Total Commercial & Residential Tonnage	120,768	1,032,396
Total Tonnage	400,768	3,426,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	113,000	965,990
RAP Tons used in HMA/WMA	90,136	770,535
RAP Tons used as Aggregate	25,000	213,715
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	30%	
Average % RAP in Other Agency Mixes	25%	
Average % RAP in Commercial & Residential Mixes	20%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	100%	
RAS Tons Received	4,000	34,194
RAS Tons used in HMA/WMA	945	8,078
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	3%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	7,050	60,268
WMA Other Agency Tonnage	-	-
WMA Commercial & Residential Tonnage	-	-
Total WMA Tonnage	7,050	60,268
Percent WMA Tons using Chemical Additives	100.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	0.0%	
Percent WMA Tons using Organic Additive	0.0%	

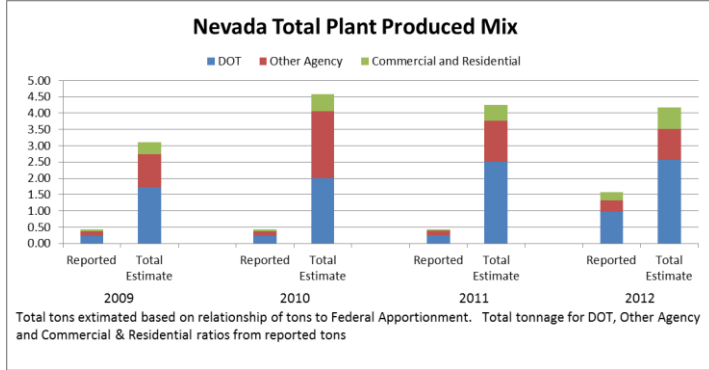
1. Total tons estimated based on relationship of tons to Federal Apportionment. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Nevada

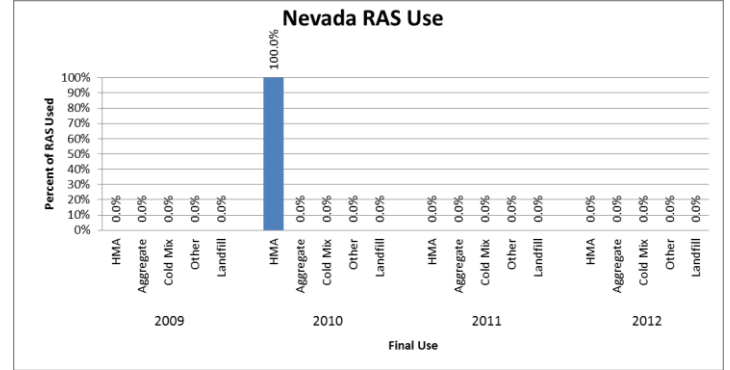
Table B29 summarizes the results received from asphalt mix producers in Nevada. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 2 for 2009, 2010 & 2011, 3 for 2012

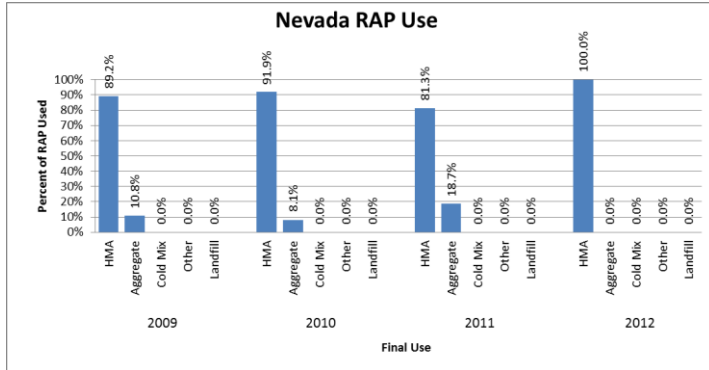
Total Asphalt Mix Tonnage



RAS Use



RAP Use



WMA Use

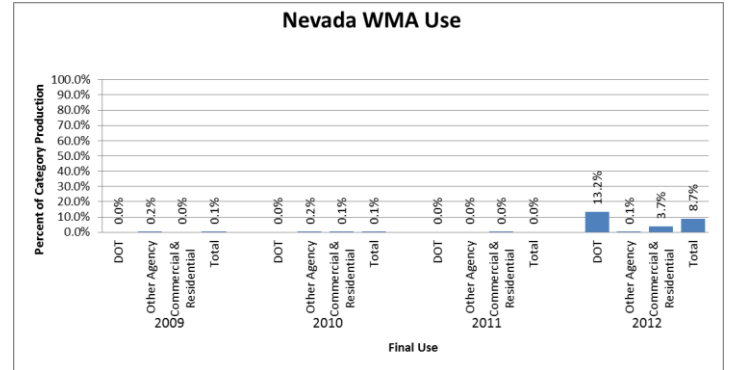


Table B28: Summary of Nevada Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	967,482	2,564,420
Total Other Agency Tonnage	355,322	941,821
Total Commercial & Residential Tonnage	255,322	676,760
Total Tonnage	1,578,126	4,183,000
Reclaimed Asphalt Pavement (RAP)		
	2012	2012
	2011	2011
Percent Companies using RAP	100%	
RAP Tons Received	186,728	494,944
RAP Tons used in HMA/WMA	178,565	473,307
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	14%	
Average % RAP in Other Agency Mixes	15%	
Average % RAP in Commercial & Residential Mixes	15%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	0%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	-	-
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	67%	
WMA DOT Tonnage	127,872	338,940
WMA Other Agency Tonnage	520	1,378
WMA Commercial & Residential Tonnage	9,466	25,091
Total WMA Tonnage	137,858	365,409
Percent WMA Tons using Chemical Additives	9.6%	
Percent WMA Tons using Additive Foaming	9.6%	
Percent WMA Tons using Plant Foaming	80.8%	
Percent WMA Tons using Organic Additive	0.0%	

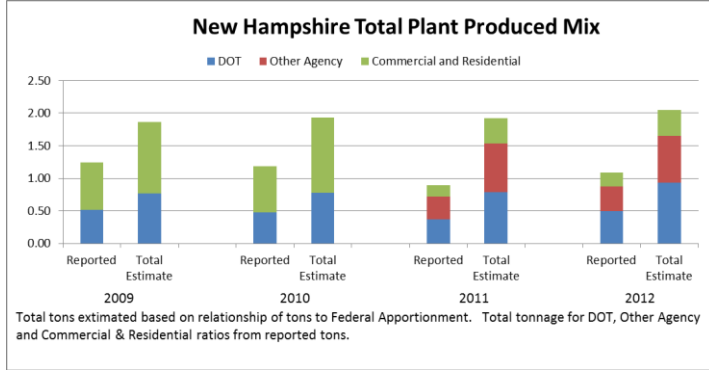
1. Total tons estimated based on relationship of tons to Federal Apportionment. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

New Hampshire

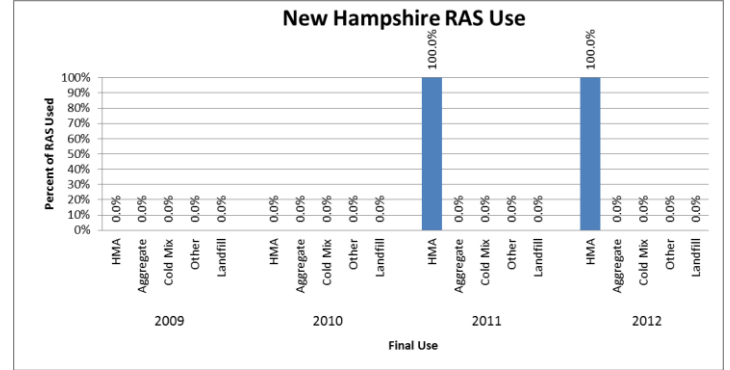
Table B30 summarizes the results received from asphalt mix producers in New Hampshire. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 1 for 2009, 2010 & 2011, 3 for 2012

Total Asphalt Mix Tonnage

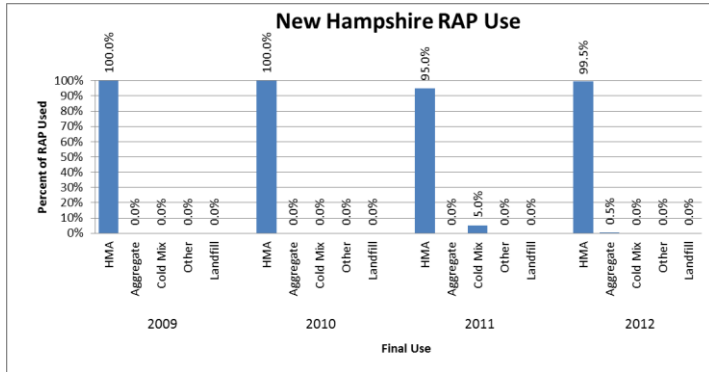


RAS Use



No contractors reported using RAS in 2009 or 2010.

RAP Use



WMA Use

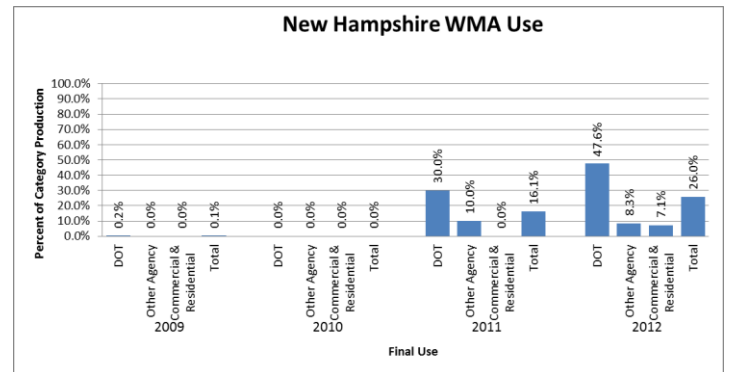


Table B29: Summary of New Hampshire Data for 2012

Companies Reporting

3

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	494,215	932,062
Total Other Agency Tonnage	382,792	721,925
Total Commercial & Residential Tonnage	209,451	395,013
Total Tonnage	1,086,458	2,049,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2102
Percent Companies using RAP	100%	
RAP Tons Received	288,884	544,819
RAP Tons used in HMA/WMA	209,584	395,264
RAP Tons used as Aggregate	1,000	1,886
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	21%	
Average % RAP in Other Agency Mixes	19%	
Average % RAP in Commercial & Residential Mixes	19%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	33%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	4,300	8,110
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	3%	
Average % RAS in Commercial & Residential Mixes	2%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	67%	
WMA DOT Tonnage	235,477	444,096
WMA Other Agency Tonnage	31,953	60,261
WMA Commercial & Residential Tonnage	14,922	28,142
Total WMA Tonnage	282,351	532,499
Percent WMA Tons using Chemical Additives	0.1%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	99.9%	
Percent WMA Tons using Organic Additive	0.0%	

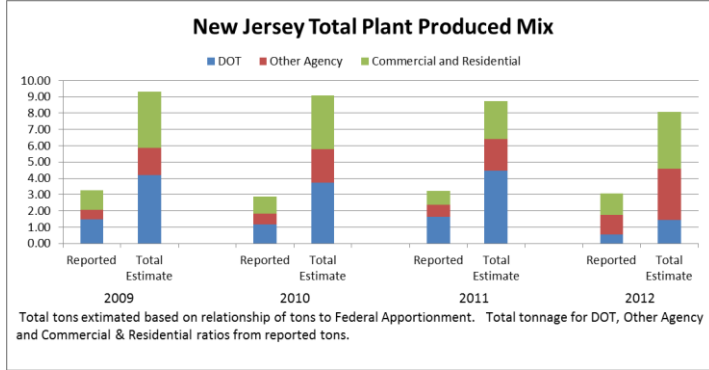
1. Total tons estimated based on relationship of tons to Federal Apportionment. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

New Jersey

Table B31 summarizes the results received from asphalt mix producers in New Jersey. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 2 for 2009 & 2010, 3 for 2011, 2 for 2012

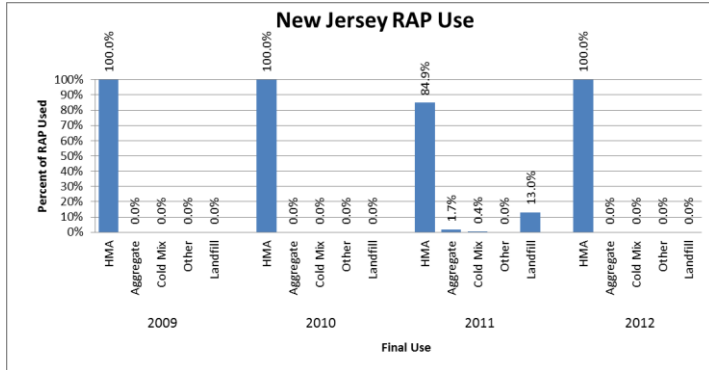
Total Asphalt Mix Tonnage



RAS Use

No contractors reported using RAS in 2009, 2010, 2011, or 2012.

RAP Use



WMA Use

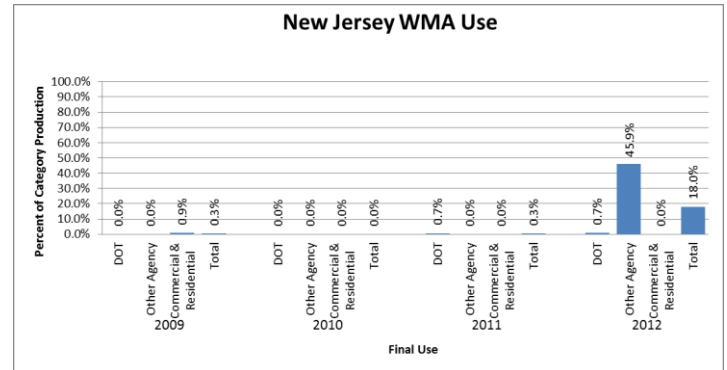


Table B30: Summary of New Jersey Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	551,802	1,447,602
Total Other Agency Tonnage	1,202,847	3,155,559
Total Commercial & Residential Tonnage	1,328,744	3,485,839
Total Tonnage	3,083,393	8,089,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	991,747	2,601,758
RAP Tons used in HMA/WMA	481,475	1,263,106
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	15%	
Average % RAP in Other Agency Mixes	13%	
Average % RAP in Commercial & Residential Mixes	20%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	0%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	-	-
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	4,011	10,522
WMA Other Agency Tonnage	552,612	1,449,727
WMA Commercial & Residential Tonnage	-	-
Total WMA Tonnage	556,623	1,460,249
Percent WMA Tons using Chemical Additives	99.3%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	0.7%	
Percent WMA Tons using Organic Additive	0.0%	

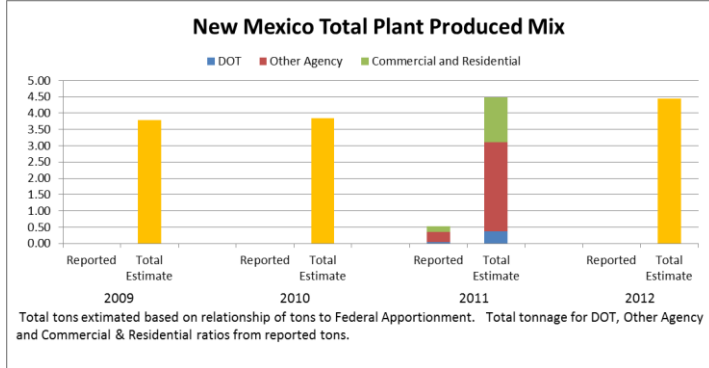
1. Total tons estimated based on relationship of tons to Federal Apportionment. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

New Mexico

No contractors submitted data for the New Mexico for 2009, 2010, and 2012. One contractor submitted data for 2011. Total tons were estimated based on a relationship tons to federal apportionment. Table B28 summarizes this data.

Companies responding: 0 for 2009 & 2010, 1 for 2011, 0 for 2012

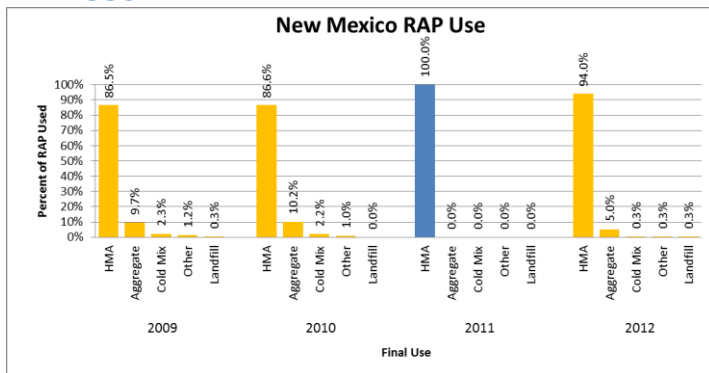
Total Asphalt Mix Tonnage



RAS Use

No companies in New Mexico responded to the 2009, 2010 and 2012 survey. No RAS use was reported in 2011.

RAP Use



WMA Use

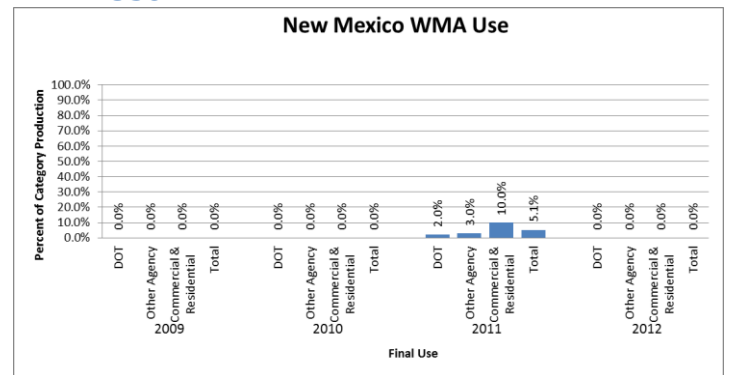


Table B31: Summary New Mexico Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage		
Total Other Agency Tonnage		
Total Commercial & Residential Tonnage		
Total Tonnage		4,444,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP		
RAP Tons Received		877,477
RAP Tons used in HMA/WMA		841,363
RAP Tons used as Aggregate		45,042
RAP Tons used in Cold Mix		2,605
RAP Tons used as Other		3,025
RAP Tons Landfilled		3,009
Average % RAP in DOT Mixes		
Average % RAP in Other Agency Mixes		
Average % RAP in Commercial & Residential Mixes		

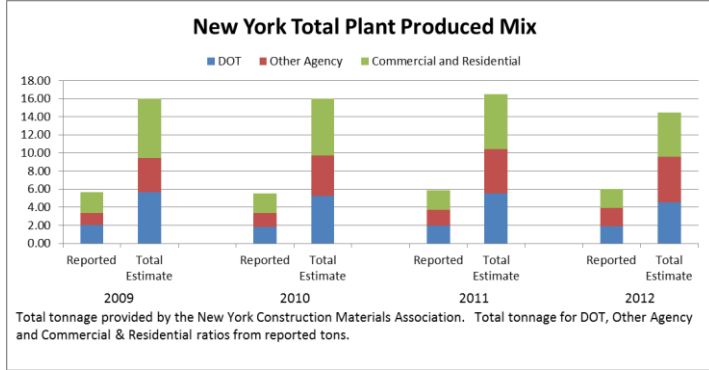
1. Total tons estimated based on relationship of tons to Federal Apportionment. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

New York

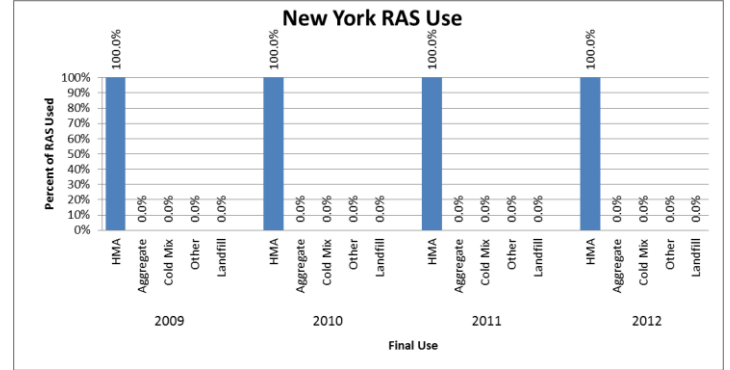
Table B33 summarizes the results received from asphalt mix producers in New York. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 13 for 2009 & 2010, 11 for 2011 and 2012

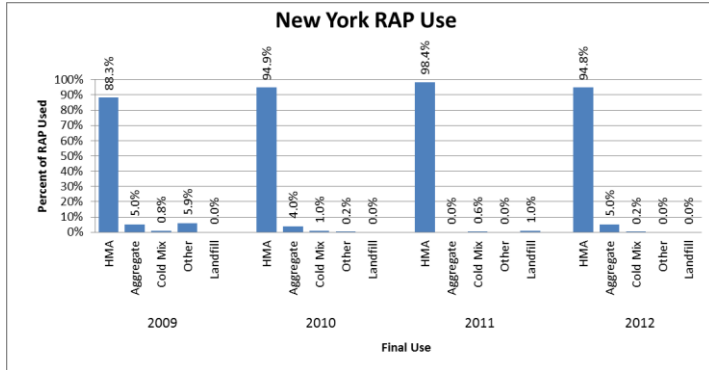
Total Asphalt Mix Tonnage



RAS Use



RAP Use



WMA Use

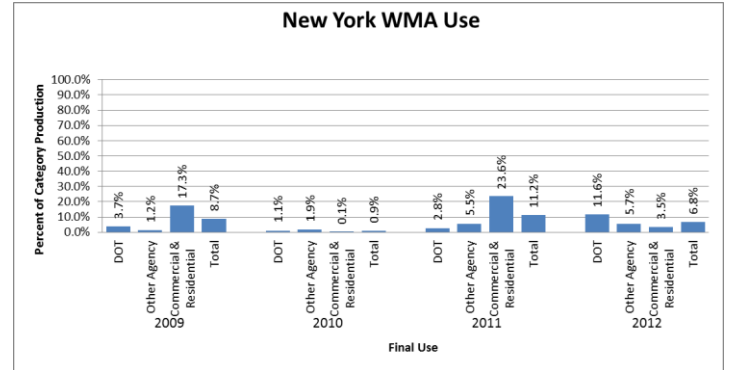


Table B32: Summary of New York Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	1,871,928	4,521,204
Total Other Agency Tonnage	2,080,332	5,024,555
Total Commercial & Residential Tonnage	2,051,220	4,954,242
Total Tonnage	6,003,480	14,500,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	91%	
RAP Tons Received	729,000	1,760,729
RAP Tons used in HMA/WMA	797,437	1,926,022
RAP Tons used as Aggregate	41,728	100,784
RAP Tons used in Cold Mix	1,500	3,623
RAP Tons used as Other	5	12
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	16%	
Average % RAP in Other Agency Mixes	15%	
Average % RAP in Commercial & Residential Mixes	18%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	18%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	3,175	7,668
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	73%	
WMA DOT Tonnage	217,137	524,444
WMA Other Agency Tonnage	117,732	284,355
WMA Commercial & Residential Tonnage	72,406	174,879
Total WMA Tonnage	407,275	983,678
Percent WMA Tons using Chemical Additives	13.1%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	86.9%	
Percent WMA Tons using Organic Additive	0.0%	

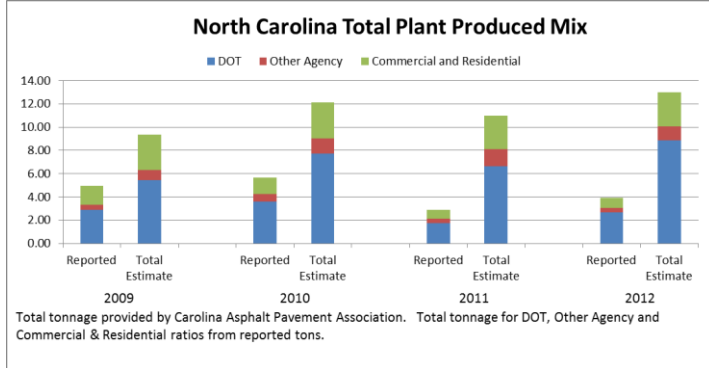
1. Total tonnage provided by the New York Construction Materials Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

North Carolina

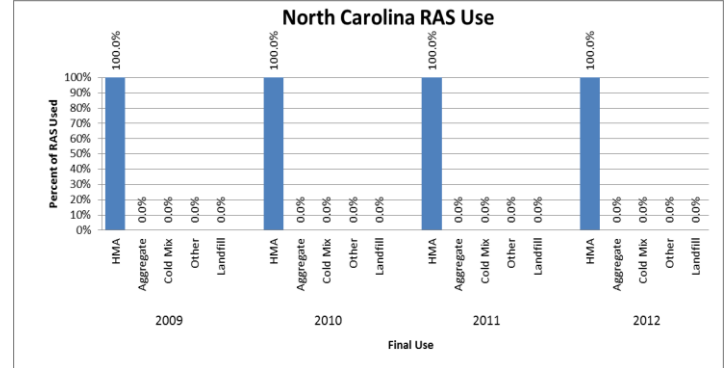
Table B34 summarizes the results received from asphalt mix producers in North Carolina. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 6 for 2009 & 2010, 5 for 2011, 6 for 2012

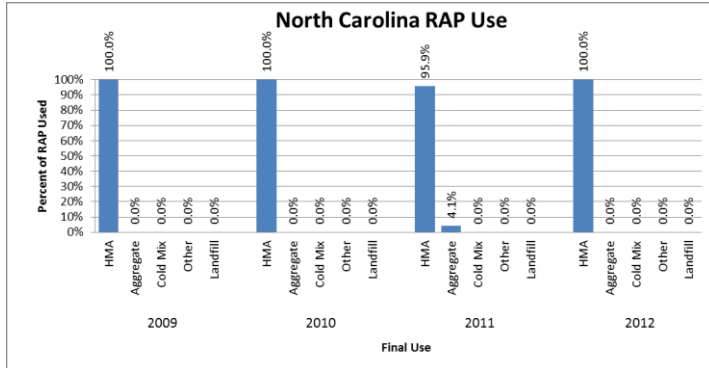
Total Asphalt Mix Tonnage



RAS Use



RAP Use



WMA Use

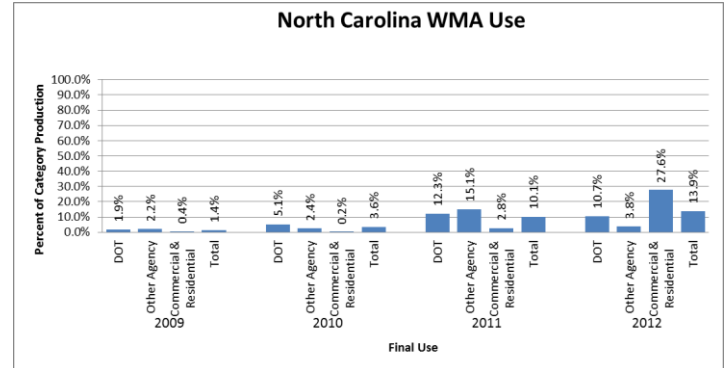


Table B33: Summary of North Carolina Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	2,671,493	8,847,629
Total Other Agency Tonnage	366,141	1,212,611
Total Commercial & Residential Tonnage	887,644	2,939,760
Total Tonnage	3,925,278	13,000,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	495,935	1,642,471
RAP Tons used in HMA/WMA	582,515	1,929,212
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	23%	
Average % RAP in Other Agency Mixes	24%	
Average % RAP in Commercial & Residential Mixes	24%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	33%	
RAS Tons Received	7,436	24,627
RAS Tons used in HMA/WMA	5,294	17,533
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	3%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	83%	
WMA DOT Tonnage	284,560	942,425
WMA Other Agency Tonnage	13,807	45,726
WMA Commercial & Residential Tonnage	245,365	812,617
Total WMA Tonnage	543,732	1,800,768
Percent WMA Tons using Chemical Additives	32.6%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	67.4%	
Percent WMA Tons using Organic Additive	0.0%	

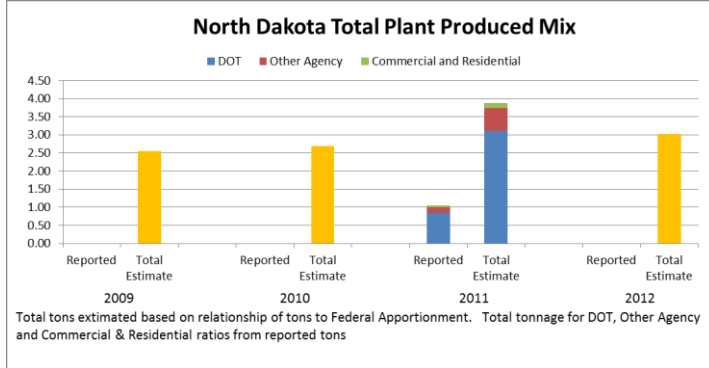
1. Total tonnage provided by Carolina Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

North Dakota

No contractors submitted data for the North Dakota for 2009, 2010 and 2012. Three contractors submitted data for 2011. Table B28 summarizes data for 2012.

Companies responding: 0 for 2009 & 2010, 3 for 2011, 0 for 2012

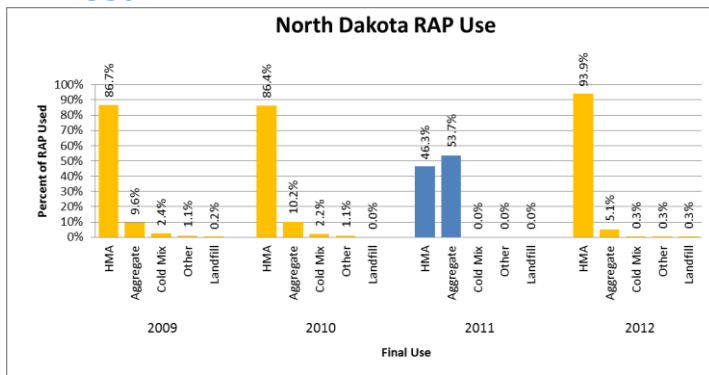
Total Asphalt Mix Tonnage



RAS Use

No companies in North Dakota responded to the 2009, 2010, and 2011 surveys. No RAS use was reported in 2012.

RAP Use



WMA Use

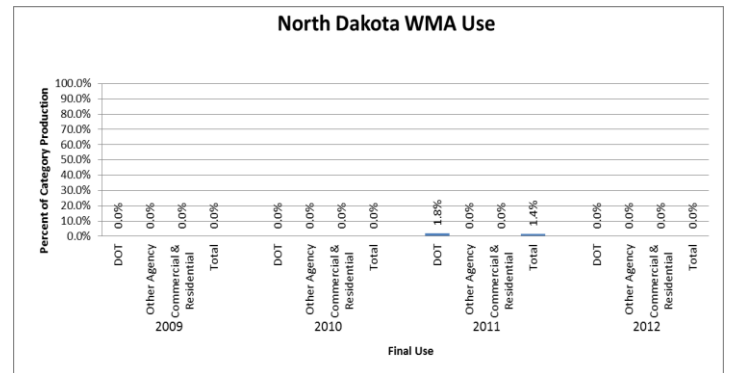


Table B34: Summary of North Dakota Data for 2012

Companies Reporting

0

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	-	-
Total Other Agency Tonnage	-	-
Total Commercial & Residential Tonnage	-	NA)
Total Tonnage	-	3,029,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	NA	
RAP Tons Received	-	598,082
RAP Tons used in HMA/WMA)	573,467
RAP Tons used as Aggregate	-	30,700
RAP Tons used in Cold Mix	-	1,775
RAP Tons used as Other	-	2,062
RAP Tons Landfilled	-	2,051
Average % RAP in DOT Mixes	0%	
Average % RAP in Other Agency Mixes	0%	
Average % RAP in Commercial & Residential Mixes	0%	

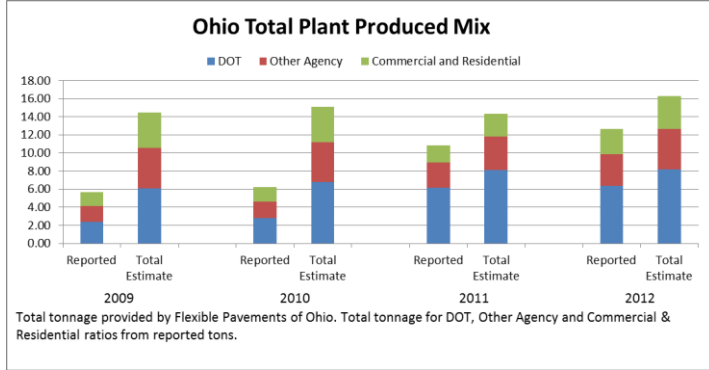
1. Total tons estimated based on relationship of tons to Federal Apportionment. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Ohio

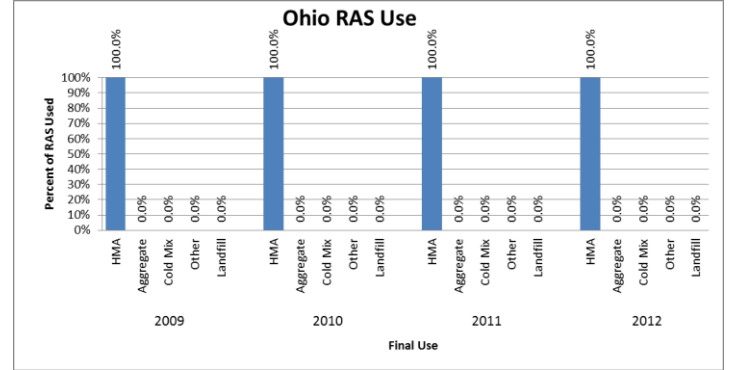
Table B36 summarizes the results received from asphalt mix producers in Ohio. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 5 for 2009, 2010 & 2011, 6 for 2012

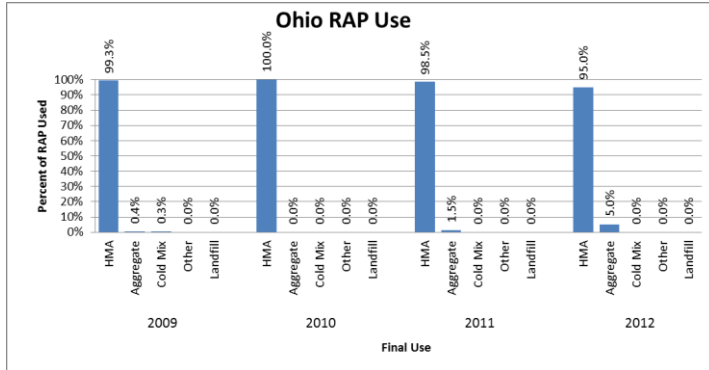
Total Asphalt Mix Tonnage



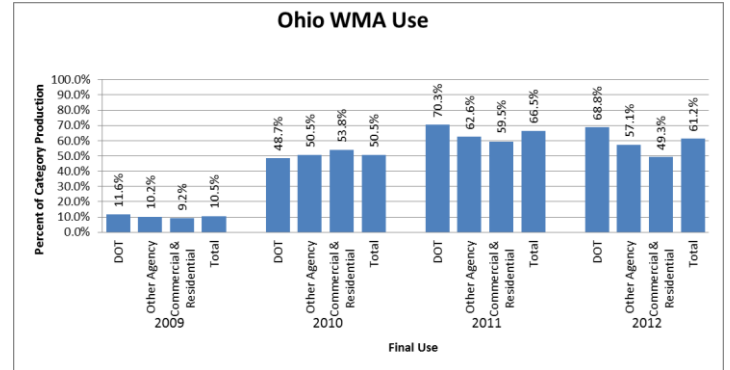
RAS Use



RAP Use



WMA Use



Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Ground Tire Rubber	2	36,200	1,170
Steel Slag	2	150,000	42,030
Blast Furnace Slag	3	208,028	72,400

Table B35: Summary of Ohio Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	6,355,695	8,170,499
Total Other Agency Tonnage	3,488,579	4,484,707
Total Commercial & Residential Tonnage	2,835,225	3,644,794
Total Tonnage	12,679,499	16,300,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	3,011,495	3,871,397
RAP Tons used in HMA/WMA	3,020,942	3,883,541
RAP Tons used as Aggregate	158,226	203,406
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	23%	
Average % RAP in Other Agency Mixes	21%	
Average % RAP in Commercial & Residential Mixes	25%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	50%	
RAS Tons Received	5,000	6,428
RAS Tons used in HMA/WMA	28,512	36,653
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	2%	
Average % RAS in Other Agency Mixes	2%	
Average % RAS in Commercial & Residential Mixes	4%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	4,372,239	5,620,687
WMA Other Agency Tonnage	1,993,274	2,562,434
WMA Commercial & Residential Tonnage	1,397,441	1,796,466
Total WMA Tonnage	7,762,954	9,979,586
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

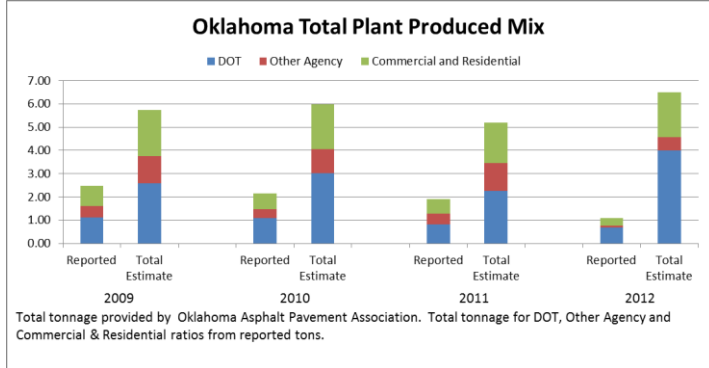
1. Total tonnage provided by Flexible Pavements of Ohio. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Oklahoma

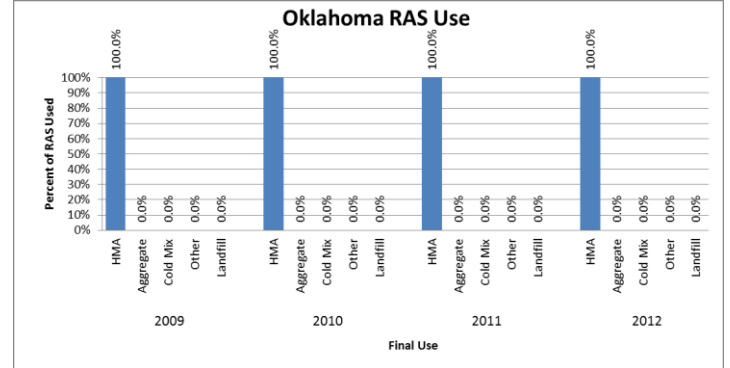
Table B37 summarizes the results received from asphalt mix producers in Oklahoma. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 4 for 2009 & 2010, 3 for 2011 and 2012

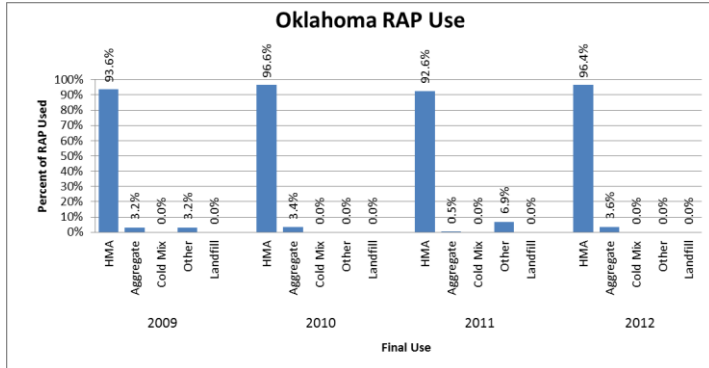
Total Asphalt Mix Tonnage



RAS Use



RAP Use



WMA Use

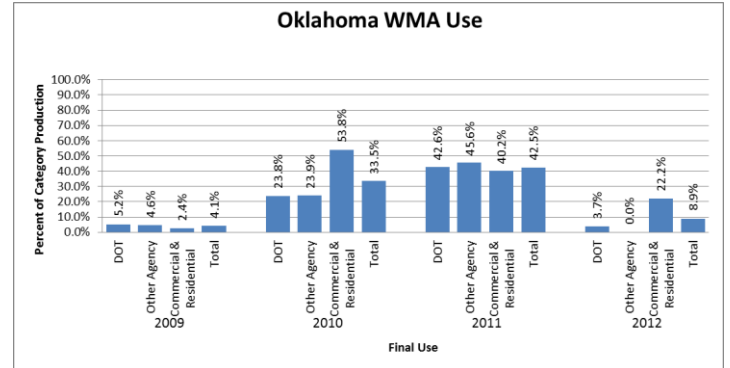


Table B36: Summary of Oklahoma Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	670,000	3,991,751
Total Other Agency Tonnage	95,000	565,995
Total Commercial & Residential Tonnage	326,000	1,942,255
Total Tonnage	1,091,000	6,500,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	75,000	446,838
RAP Tons used in HMA/WMA	134,588	801,853
RAP Tons used as Aggregate	5,000	29,789
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	15%	
Average % RAP in Other Agency Mixes	14%	
Average % RAP in Commercial & Residential Mixes	20%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	67%	
RAS Tons Received	17,000	101,283
RAS Tons used in HMA/WMA	16,268	96,922
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	2%	
Average % RAS in Commercial & Residential Mixes	3%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	33%	
WMA DOT Tonnage	25,000	148,946
WMA Other Agency Tonnage	-	-
WMA Commercial & Residential Tonnage	72,500	431,943
Total WMA Tonnage	97,500	580,889
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

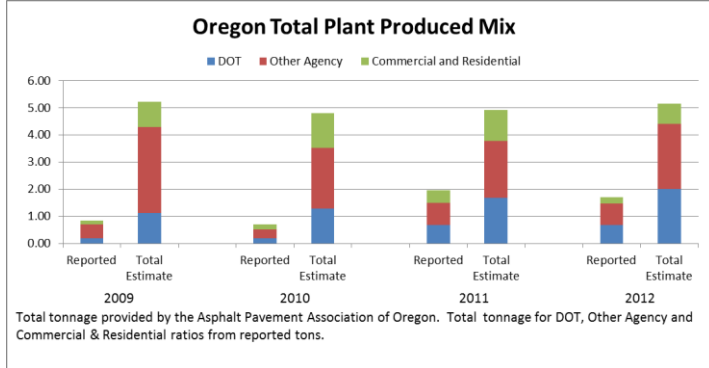
1. Total tonnage provided by Oklahoma Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Oregon

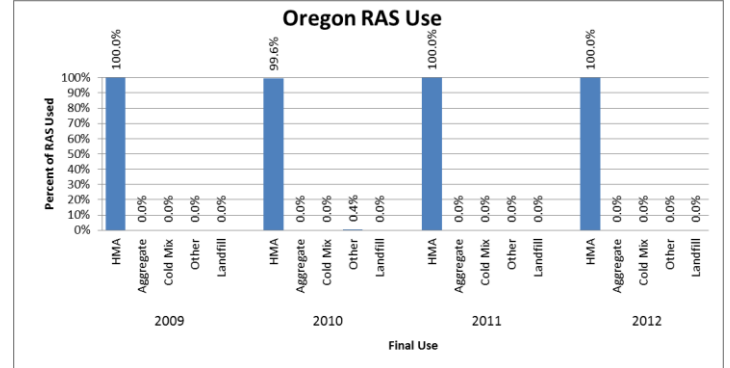
Table B38 summarizes the results received from asphalt mix producers in Oregon. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 6 for 2009, 2010, 2011, and 2012

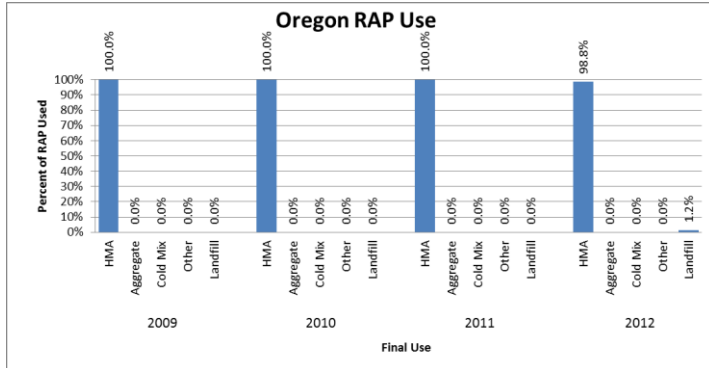
Total Asphalt Mix Tonnage



RAS Use



RAP Use



WMA Use

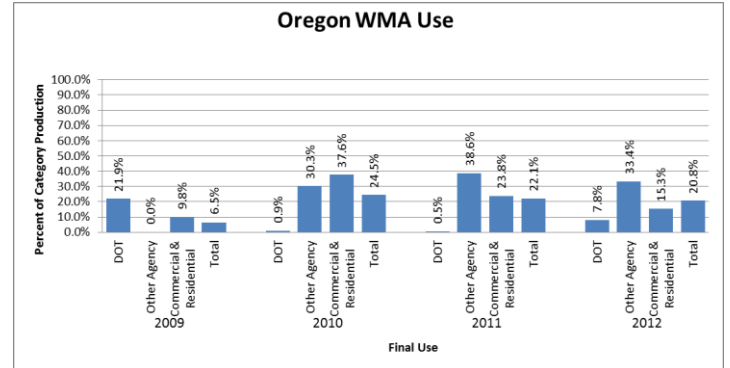


Table B37: Summary of Oregon Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	669,238	2,014,395
Total Other Agency Tonnage	795,000	2,392,936
Total Commercial & Residential Tonnage	243,413	732,669
Total Tonnage	1,707,651	5,140,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	470,000	1,414,692
RAP Tons used in HMA/WMA	417,660	1,257,149
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	5,000	15,050
Average % RAP in DOT Mixes	24%	
Average % RAP in Other Agency Mixes	25%	
Average % RAP in Commercial & Residential Mixes	26%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	50%	
RAS Tons Received	3,000	9,030
RAS Tons used in HMA/WMA	6,943	20,898
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	1%	
Average % RAS in Other Agency Mixes	2%	
Average % RAS in Commercial & Residential Mixes	3%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	83%	
WMA DOT Tonnage	52,490	157,994
WMA Other Agency Tonnage	265,300	798,548
WMA Commercial & Residential Tonnage	37,261	112,154
Total WMA Tonnage	355,051	1,068,696
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

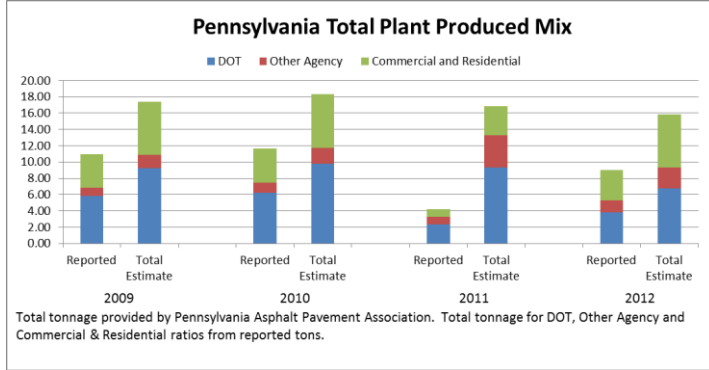
1. Total tonnage provided by the Asphalt Pavement Association of Oregon. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Pennsylvania

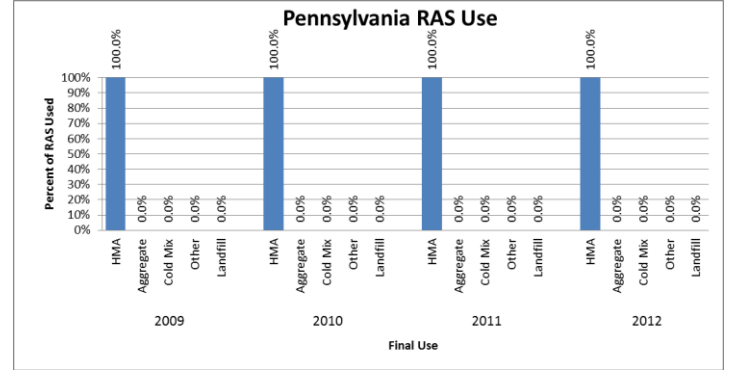
Table B38 summarizes the results received from asphalt mix producers in Pennsylvania. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 17 for 2009 & 2010, 7 for 2011, 15 for 2012

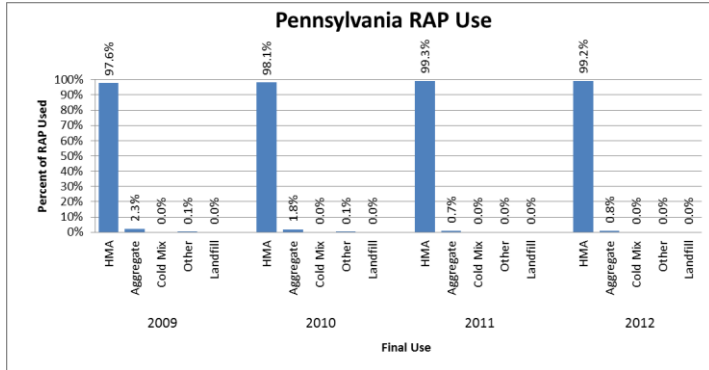
Total Asphalt Mix Tonnage



RAS Use



RAP Use



WMA Use

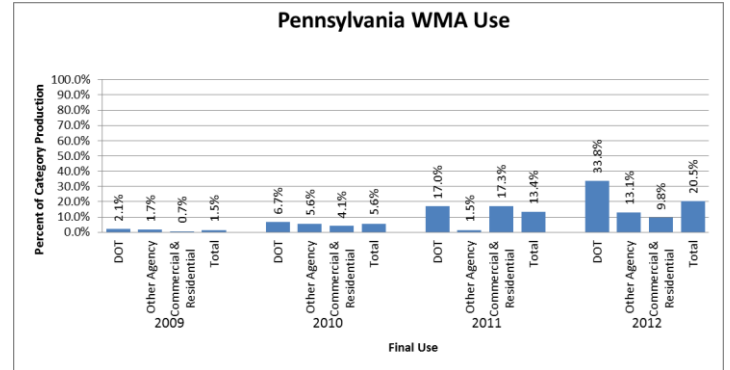


Table B38: Summary of Pennsylvania Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	3,851,772	6,765,507
Total Other Agency Tonnage	1,441,312	2,531,616
Total Commercial & Residential Tonnage	3,738,118	6,565,877
Total Tonnage	9,031,202	15,863,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	1,134,743	1,993,138
RAP Tons used in HMA/WMA	1,404,717	2,467,338
RAP Tons used as Aggregate	11,396	20,017
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	16%	
Average % RAP in Other Agency Mixes	15%	
Average % RAP in Commercial & Residential Mixes	19%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	27%	
RAS Tons Received	43,042	75,602
RAS Tons used in HMA/WMA	55,800	98,011
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	1%	
Average % RAS in Other Agency Mixes	1%	
Average % RAS in Commercial & Residential Mixes	1%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	93%	
WMA DOT Tonnage	1,300,918	2,285,018
WMA Other Agency Tonnage	188,913	331,820
WMA Commercial & Residential Tonnage	364,468	640,175
Total WMA Tonnage	1,854,299	3,257,012
Percent WMA Tons using Chemical Additives	18.3%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	81.7%	
Percent WMA Tons using Organic Additive	0.0%	

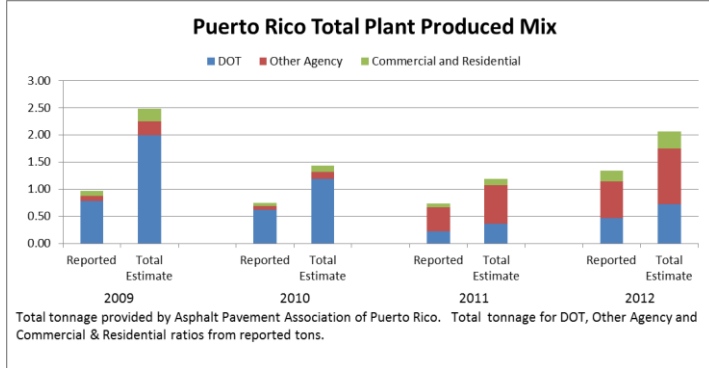
1. Total tonnage provided by the Pennsylvania Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Puerto Rico

Table B40 summarizes the results received from asphalt mix producers in Puerto Rico. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 1 for 2009, 2010, 2011, and 2012

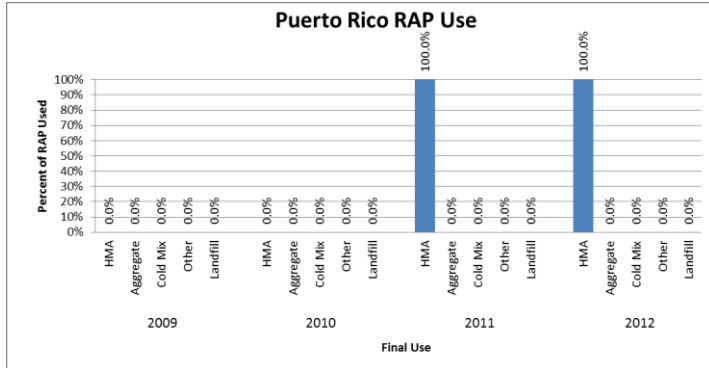
Total Asphalt Mix Tonnage



RAS Use

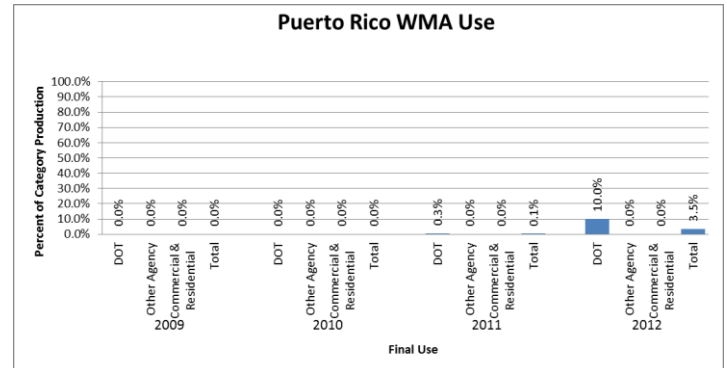
No contractors reported using RAS in Puerto Rico for 2009, 2010, 2011 or 2012.

RAP Use



No contractors reported using RAP in Puerto Rico for 2009 and 2010.

WMA Use



No contractors reported using WMA in Puerto Rico for 2009 and 2010.

Table B39: Summary of Puerto Rico Data for 2012

1

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	468,890	720,986
Total Other Agency Tonnage	669,856	1,030,000
Total Commercial & Residential Tonnage	200,966	309,014
Total Tonnage	1,339,712	2,060,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	13,350	20,528
RAP Tons used in HMA/WMA	267,000	410,551
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	5%	
Average % RAP in Other Agency Mixes	5%	
Average % RAP in Commercial & Residential Mixes	5%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	0%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	-	-
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	46,889	72,099
WMA Other Agency Tonnage	-	-
WMA Commercial & Residential Tonnage	-	-
Total WMA Tonnage	46,889	72,099
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	0.0%	
Percent WMA Tons using Organic Additive	100.0%	

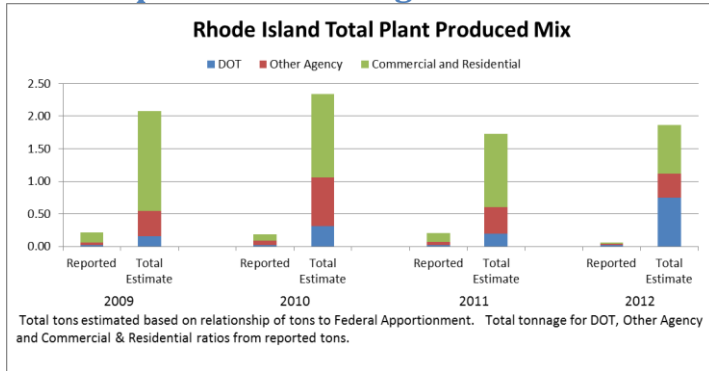
1. Total tonnage provided by Asphalt Pavement Association of Puerto Rico. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Rhode Island

Table B41 summarizes the results received from asphalt mix producers in Rhode Island. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 2 for 2009, 2010 & 2011, 1 for 2012

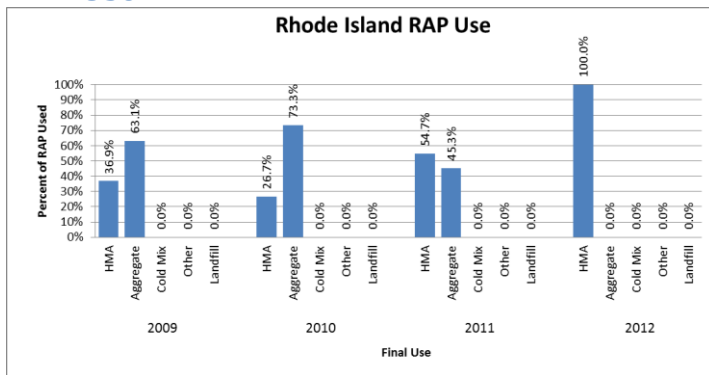
Total Asphalt Mix Tonnage



RAS Use

No contractors reported using RAS in Rhode Island for 2009, 2010, 2011, or 2012.

RAP Use



WMA Use

No contractors reported using WMA in Rhode Island for 2009, 2010, 2011, or 2012.

Table B40: Summary of Rhode Island Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	25,000	746,400
Total Other Agency Tonnage	12,500	373,200
Total Commercial & Residential Tonnage	25,000	746,400
Total Tonnage	62,500	1,866,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	3,974	118,648
RAP Tons used in HMA/WMA	1,050	31,349
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	0%	
Average % RAP in Other Agency Mixes	0%	
Average % RAP in Commercial & Residential Mixes	4%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	0%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	-	-
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	0%	
WMA DOT Tonnage	-	-
WMA Other Agency Tonnage	-	-
WMA Commercial & Residential Tonnage	-	-
Total WMA Tonnage	-	-
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	0.0%	
Percent WMA Tons using Organic Additive	0.0%	

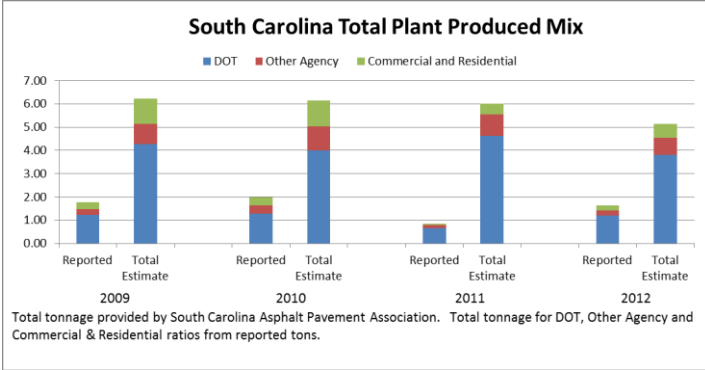
1. Total tons estimated based on relationship of tons to Federal Apportionment. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

South Carolina

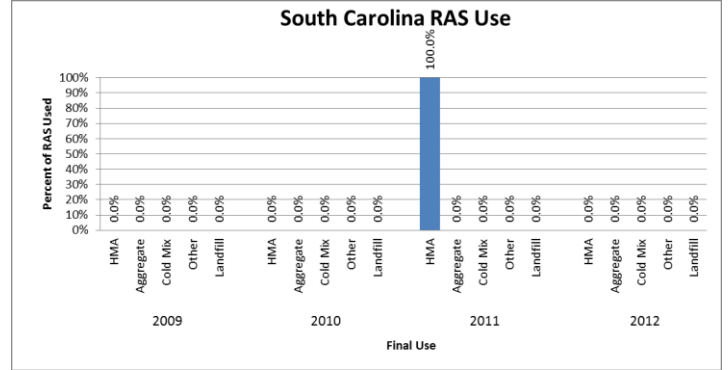
Table B42 summarizes the results received from asphalt mix producers in South Carolina. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 4 for 2009 & 2010, 3 for 2011, 4 for 2012

Total Asphalt Mix Tonnage

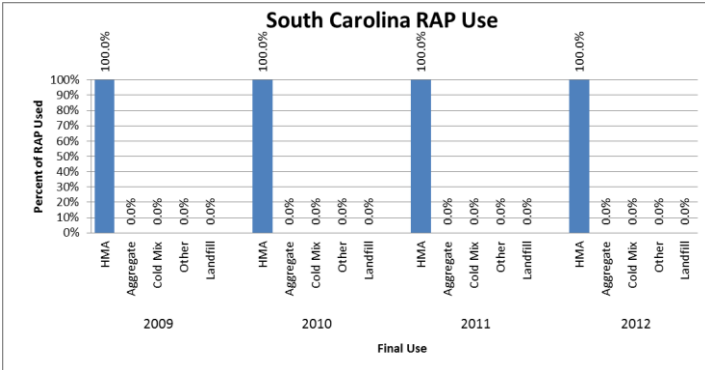


RAS Use



No contracts reported using RAS in South Carolina for 2009 or 2010.

RAP Use



WMA Use

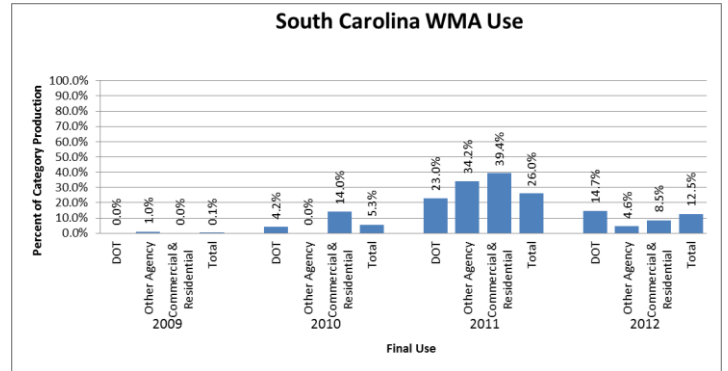


Table B41: Summary of South Carolina Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	1,201,842	3,816,564
Total Other Agency Tonnage	226,313	718,679
Total Commercial & Residential Tonnage	193,588	614,757
Total Tonnage	1,621,743	5,150,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	434,120	1,378,590
RAP Tons used in HMA/WMA	384,496	1,221,004
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	24%	
Average % RAP in Other Agency Mixes	24%	
Average % RAP in Commercial & Residential Mixes	24%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	0%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	-	-
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	25%	
WMA DOT Tonnage	176,357	560,039
WMA Other Agency Tonnage	10,451	33,188
WMA Commercial & Residential Tonnage	16,485	52,350
Total WMA Tonnage	203,293	645,577
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

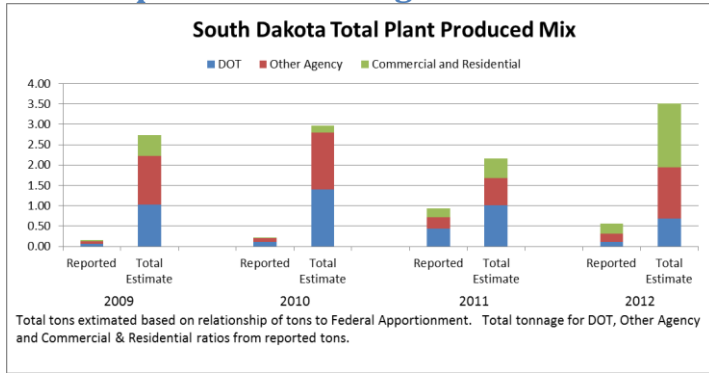
1. Total tonnage provided by South Carolina Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

South Dakota

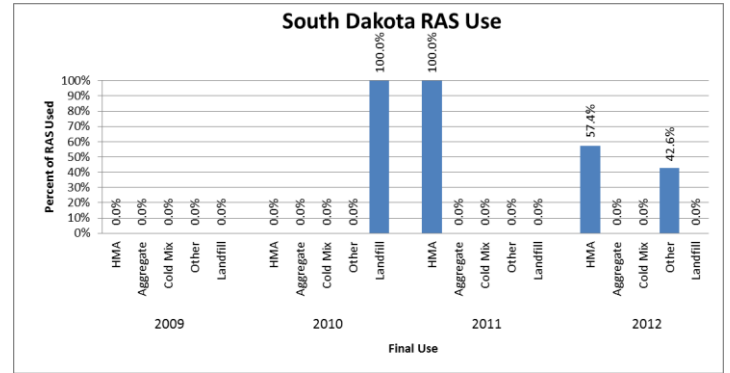
Table B43 summarizes the results received from asphalt mix producers in South Dakota. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 1 for 2009 & 2010, 3 for 2011 and 2012

Total Asphalt Mix Tonnage

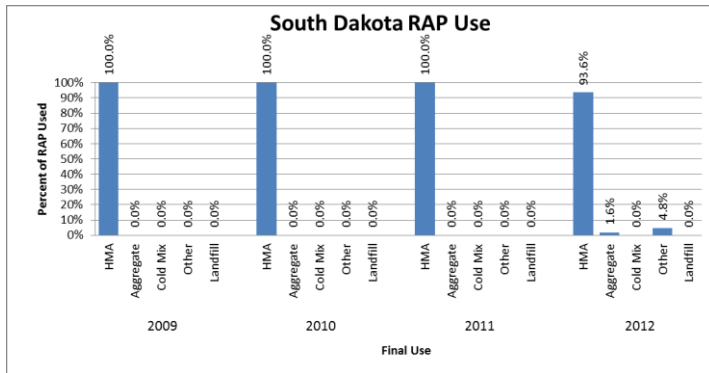


RAS Use

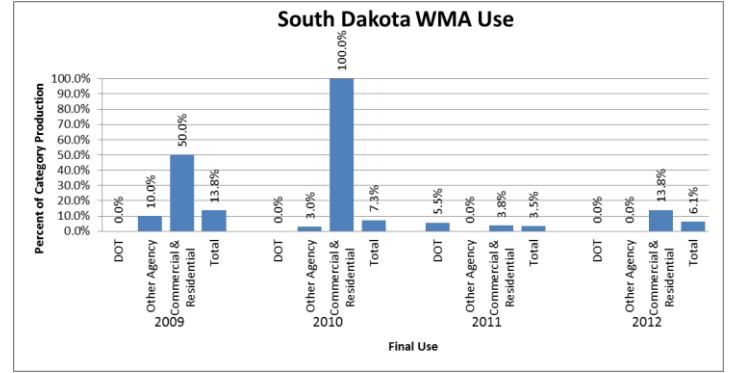


No contractors reported using RAS in South Dakota in 2009 or 2010.

RAP Use



WMA Use



Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Bottom Ash	1	52,000	4,280

Table B42: Summary of South Dakota Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	110,625	690,680
Total Other Agency Tonnage	201,635	1,258,895
Total Commercial & Residential Tonnage	249,450	1,557,425
Total Tonnage	561,710	3,507,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	123,000	767,943
RAP Tons used in HMA/WMA	115,064	718,395
RAP Tons used as Aggregate	2,000	12,487
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	6,000	37,461
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	14%	
Average % RAP in Other Agency Mixes	18%	
Average % RAP in Commercial & Residential Mixes	20%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	67%	
RAS Tons Received	4,400	27,471
RAS Tons used in HMA/WMA	1,349	8,422
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	1,000	6,243
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	1%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	33%	
WMA DOT Tonnage	-	-
WMA Other Agency Tonnage	-	-
WMA Commercial & Residential Tonnage	34,450	215,086
Total WMA Tonnage	34,450	215,086
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

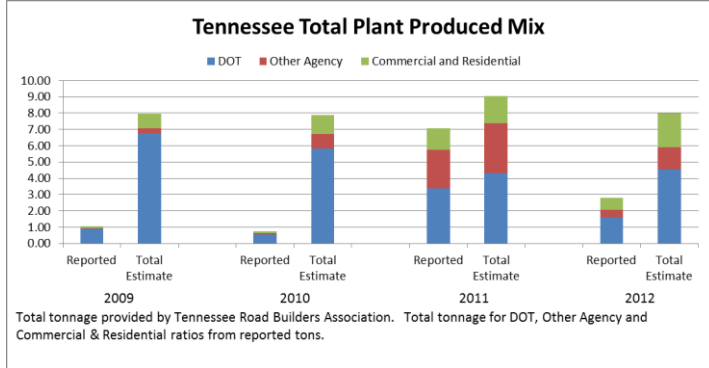
1. Total tons estimated based on relationship of tons to Federal Apportionment. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Tennessee

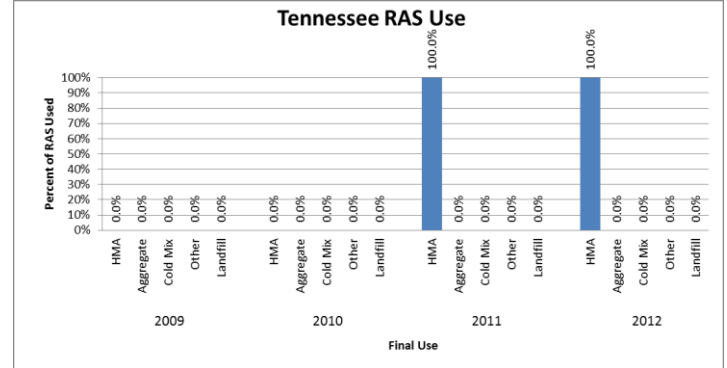
Table B44 summarizes the results received from asphalt mix producers in Tennessee. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 2 for 2009 & 2010, 7 for 2011, 5 for 2012

Total Asphalt Mix Tonnage

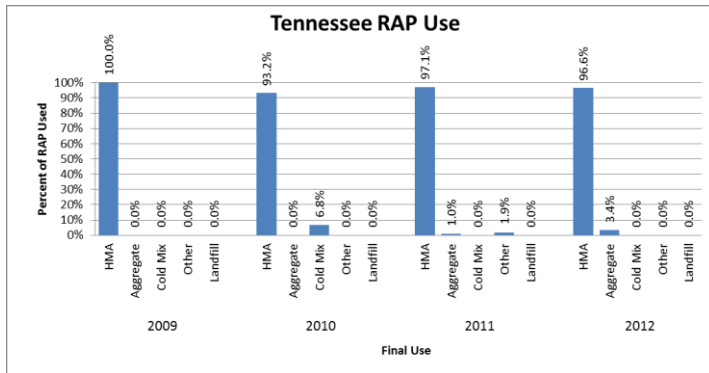


RAS Use

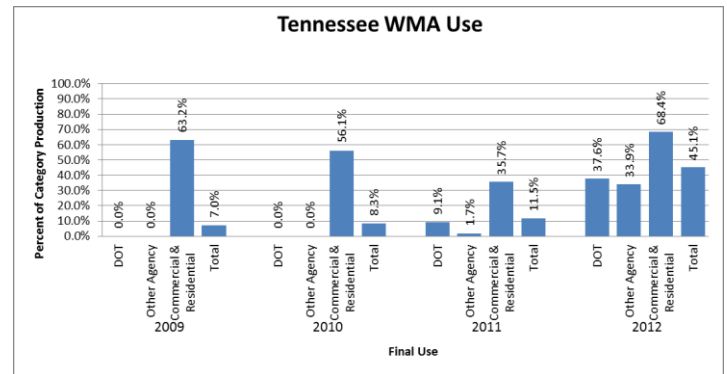


No contractors reported using RAS in 2009 or 2010.

RAP Use



WMA Use



Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Steel Slag	1	30,000	6,000

Table B43: Summary of Tennessee Data for 2012

Companies Reporting

5

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	1,585,046	4,541,129
Total Other Agency Tonnage	471,962	1,352,163
Total Commercial & Residential Tonnage	735,330	2,106,708
Total Tonnage	2,792,338	8,000,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	672,500	1,926,701
RAP Tons used in HMA/WMA	560,606	1,606,126
RAP Tons used as Aggregate	20,000	57,300
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	20%	
Average % RAP in Other Agency Mixes	23%	
Average % RAP in Commercial & Residential Mixes	22%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	40%	
RAS Tons Received	1,500	4,297
RAS Tons used in HMA/WMA	1,534	4,395
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	1%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	1%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	80%	
WMA DOT Tonnage	596,523	1,709,028
WMA Other Agency Tonnage	160,000	458,397
WMA Commercial & Residential Tonnage	502,780	1,440,456
Total WMA Tonnage	1,259,303	3,607,881
Percent WMA Tons using Chemical Additives	1.1%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	98.9%	
Percent WMA Tons using Organic Additive	0.0%	

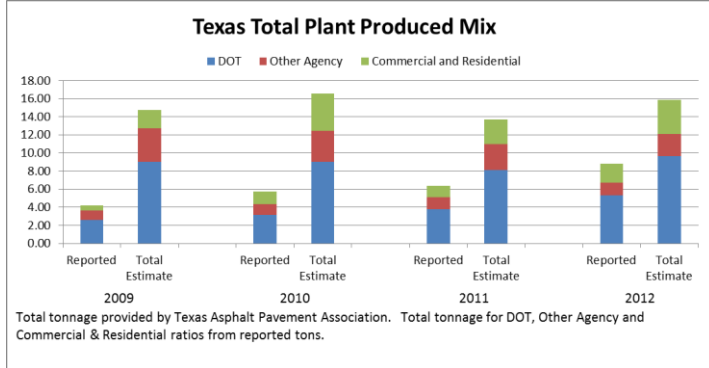
1. Total tonnage provided by Tennessee Road Builders Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons..

Texas

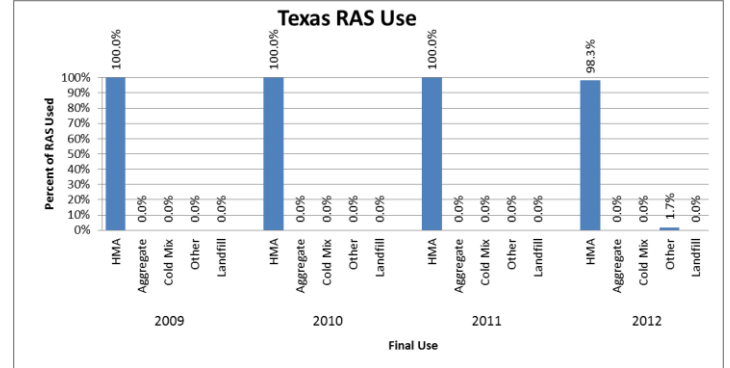
Table B45 summarizes the results received from asphalt mix producers in Texas. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 7 for 2009 & 2010, 9 for 2011, 10 for 2012

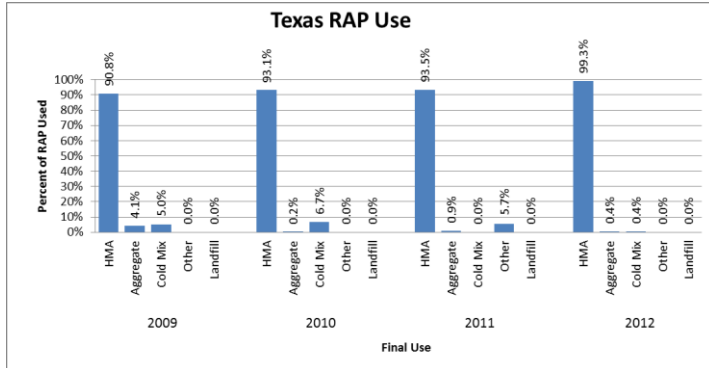
Total Asphalt Mix Tonnage



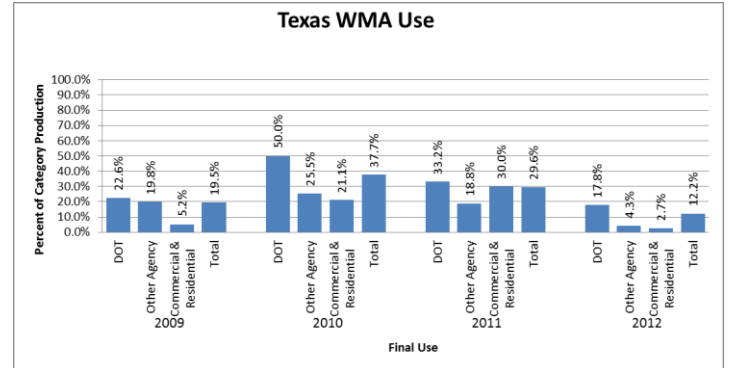
RAS Use



RAP Use



WMA Use



Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Ground Tire Rubber	1	25,000	2,500
Fly Ash	1	18,000	1,200

Table B44: Summary of Texas Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	5,346,326	9,635,333
Total Other Agency Tonnage	1,374,735	2,477,595
Total Commercial & Residential Tonnage	2,073,577	3,737,072
Total Tonnage	8,794,638	15,850,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	1,196,220	2,155,869
RAP Tons used in HMA/WMA	1,368,511	2,466,378
RAP Tons used as Aggregate	5,000	9,011
RAP Tons used in Cold Mix	5,000	9,011
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	20%	
Average % RAP in Other Agency Mixes	17%	
Average % RAP in Commercial & Residential Mixes	23%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	70%	
RAS Tons Received	189,418	341,376
RAS Tons used in HMA/WMA	168,888	304,376
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	3,000	5,407
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	3%	
Average % RAS in Other Agency Mixes	2%	
Average % RAS in Commercial & Residential Mixes	3%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	60%	
WMA DOT Tonnage	954,262	1,719,804
WMA Other Agency Tonnage	59,400	107,053
WMA Commercial & Residential Tonnage	55,523	100,065
Total WMA Tonnage	1,069,185	1,926,922
Percent WMA Tons using Chemical Additives	10.3%	
Percent WMA Tons using Additive Foaming	12.1%	
Percent WMA Tons using Plant Foaming	77.7%	
Percent WMA Tons using Organic Additive	0.0%	

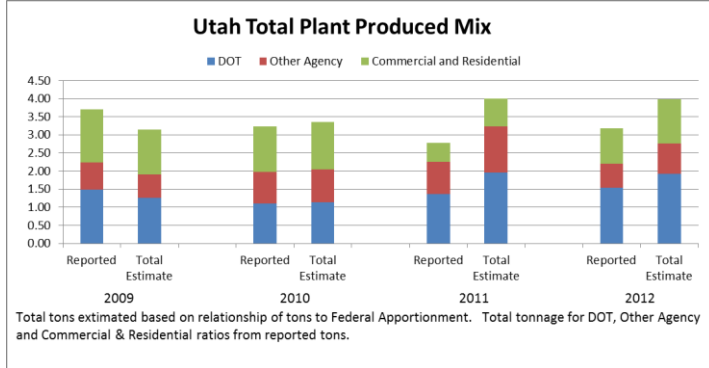
1. Total tonnage provided by Texas Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Utah

Table B46 summarizes the results received from asphalt mix producers in Utah. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 5 for 2009 & 2010, 6 for 2011 and 2012

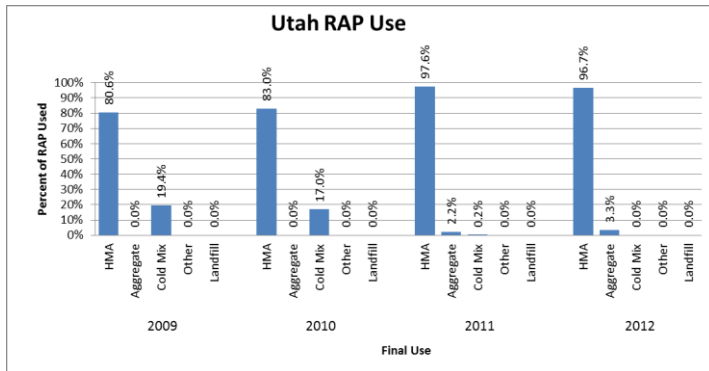
Total Asphalt Mix Tonnage



RAS Use

No contractors reported using RAS in 2009, 2010, 2011 or 2012.

RAP Use



WMA Use

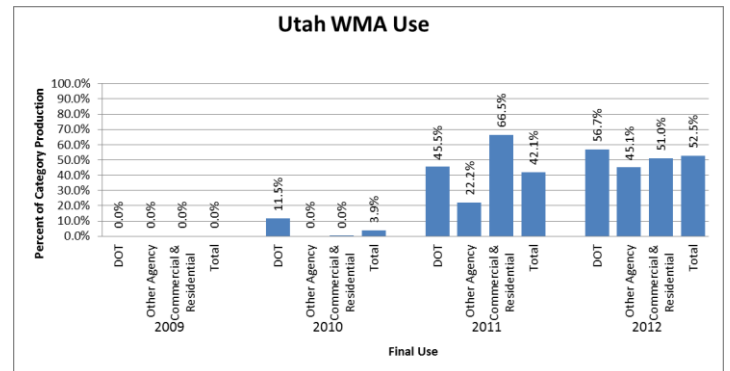


Table B45: Summary of Utah Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	1,536,364	1,922,530
Total Other Agency Tonnage	671,469	840,243
Total Commercial & Residential Tonnage	978,325	1,224,227
Total Tonnage	3,186,158	3,987,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	662,375	828,863
RAP Tons used in HMA/WMA	590,784	739,278
RAP Tons used as Aggregate	20,000	25,027
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	23%	
Average % RAP in Other Agency Mixes	24%	
Average % RAP in Commercial & Residential Mixes	31%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	0%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	-	-
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	67%	
WMA DOT Tonnage	871,859	1,091,001
WMA Other Agency Tonnage	302,795	378,903
WMA Commercial & Residential Tonnage	498,737	624,094
Total WMA Tonnage	1,673,391	2,093,998
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

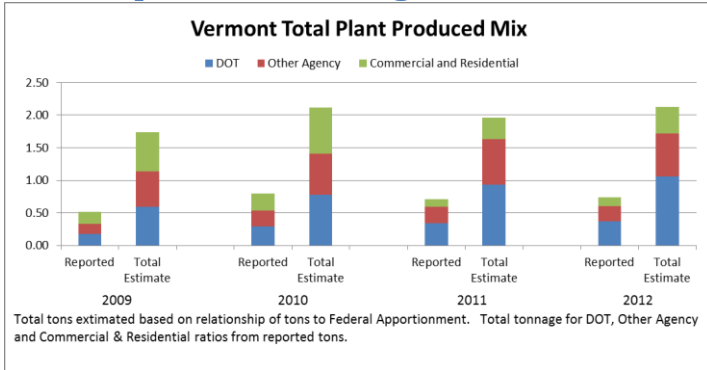
1. Total tons estimated based on relationship of tons to Federal Apportionment. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Vermont

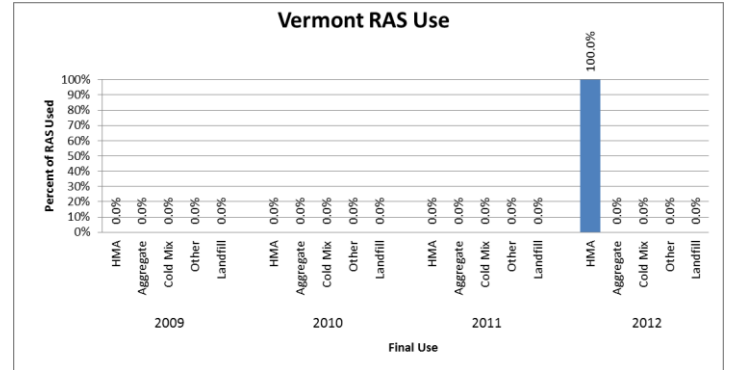
Table B47 summarizes the results received from asphalt mix producers in Vermont. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 1 for 2009, 2010, 2011, and 2012

Total Asphalt Mix Tonnage

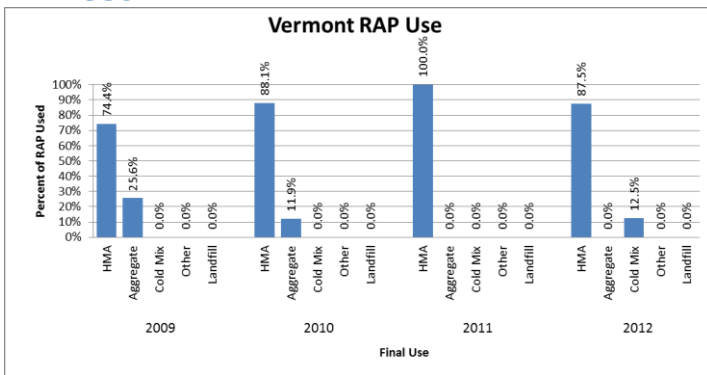


RAS Use



No contractor reported using RAS in 2009, 2010 or 2011.

RAP Use



WMA Use

No contractor reported using WMA in 2009 or 2010.

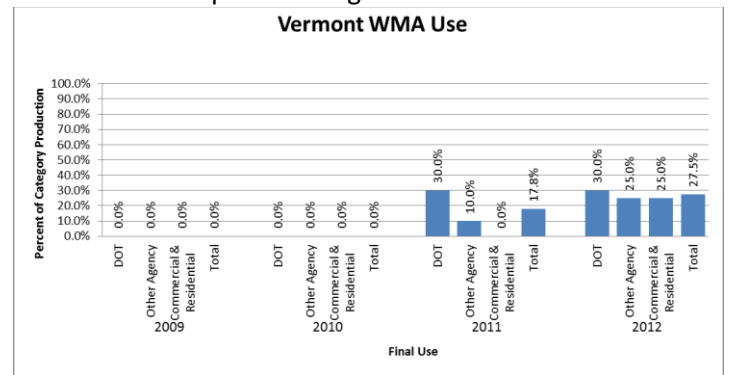


Table B46: Summary of Vermont Data for 2012

Companies Reporting

1

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	370,620	1,059,373
Total Other Agency Tonnage	230,143	657,836
Total Commercial & Residential Tonnage	142,665	407,791
Total Tonnage	743,428	2,125,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	231,791	662,547
RAP Tons used in HMA/WMA	174,274	498,141
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	25,000	71,460
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	22%	
Average % RAP in Other Agency Mixes	22%	
Average % RAP in Commercial & Residential Mixes	24%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	100%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	300	858
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	5%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	111,186	317,812
WMA Other Agency Tonnage	57,536	164,459
WMA Commercial & Residential Tonnage	35,666	101,948
Total WMA Tonnage	204,388	584,219
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

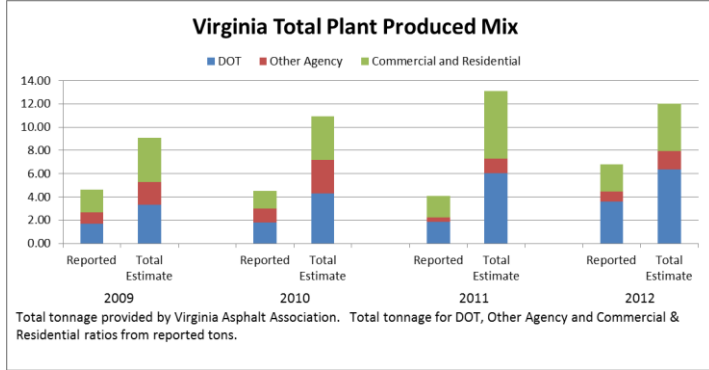
1. Total tons estimated based on relationship of tons to Federal Apportionment. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Virginia

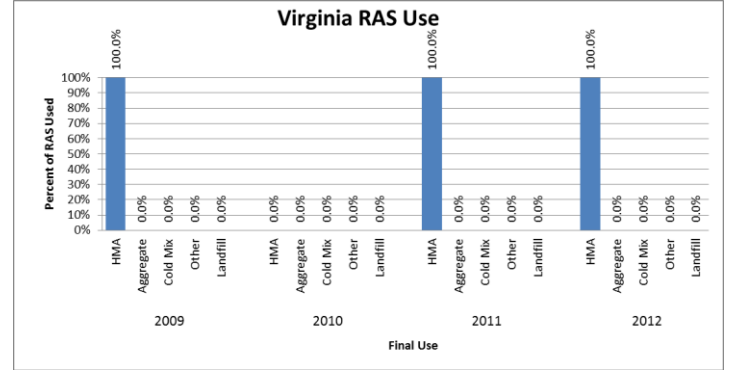
Table B48 summarizes the results received from asphalt mix producers in Virginia. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 5 for 2009 & 2010, 7 for 2011, 8 for 2012

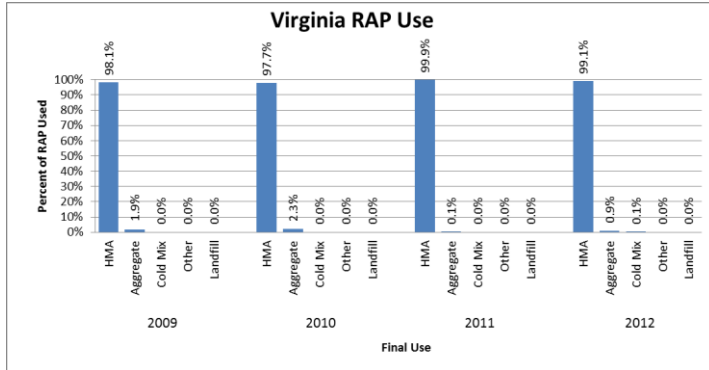
Total Asphalt Mix Tonnage



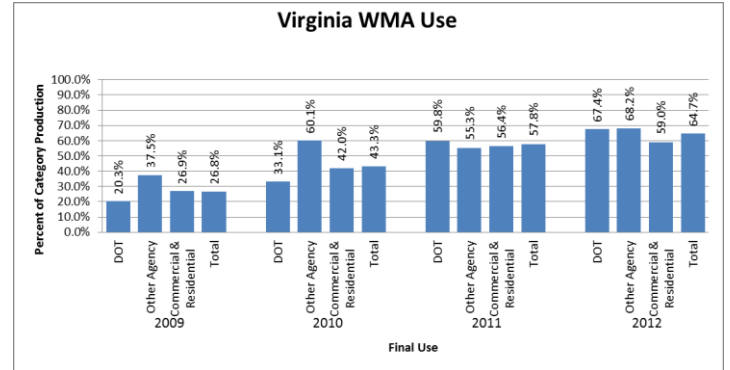
RAS Use



RAP Use



WMA Use



Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Blast Furnace Slag	1	54,521	16,358
Recycled Glass	1	173	34

Table B47: Summary of Virginia Data for 2012

Companies Reporting

8

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	3,583,712	6,343,880
Total Other Agency Tonnage	890,807	1,576,905
Total Commercial & Residential Tonnage	2,304,383	4,079,215
Total Tonnage	6,778,902	12,000,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	2,202,149	3,898,240
RAP Tons used in HMA/WMA	1,745,016	3,089,024
RAP Tons used as Aggregate	15,000	26,553
RAP Tons used in Cold Mix	864	1,529
RAP Tons used as Other	7	12
RAP Tons Landfilled	75	133
Average % RAP in DOT Mixes	27%	
Average % RAP in Other Agency Mixes	27%	
Average % RAP in Commercial & Residential Mixes	31%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	38%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	12,665	22,420
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	2%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	88%	
WMA DOT Tonnage	2,417,024	4,278,611
WMA Other Agency Tonnage	607,305	1,075,050
WMA Commercial & Residential Tonnage	1,359,614	2,406,787
Total WMA Tonnage	4,383,943	7,760,448
Percent WMA Tons using Chemical Additives	2.7%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	97.0%	
Percent WMA Tons using Organic Additive	0.3%	

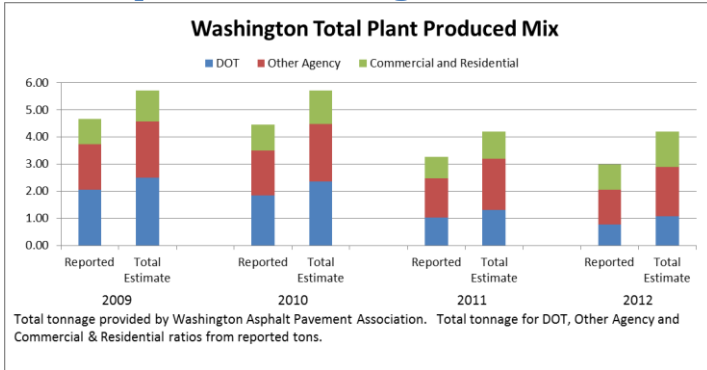
1. Total tonnage provided by the Virginia Asphalt Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Washington

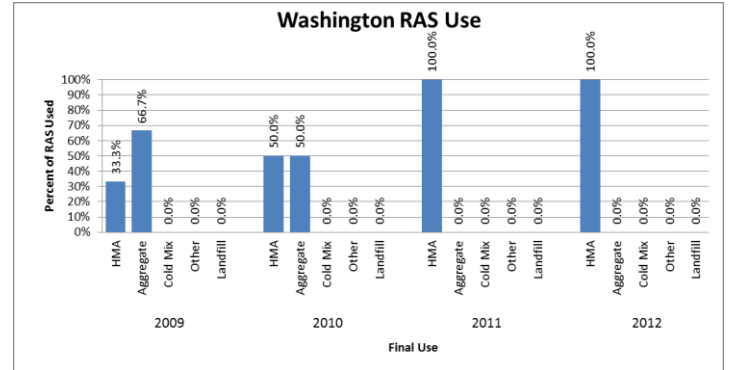
Table B49 summarizes the results received from asphalt mix producers in Washington. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 6 for 2009 & 2010, 4 for 2011 & 2012

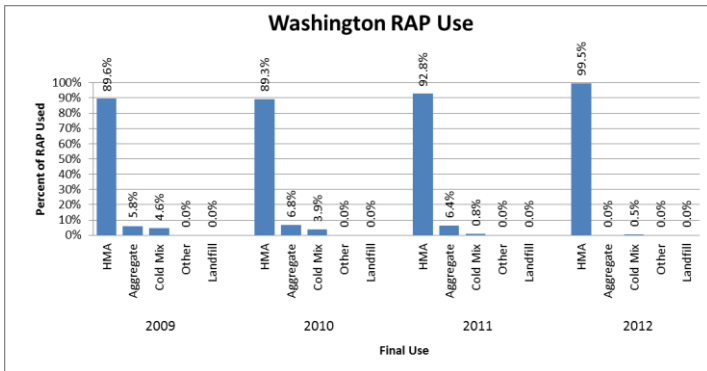
Total Asphalt Mix Tonnage



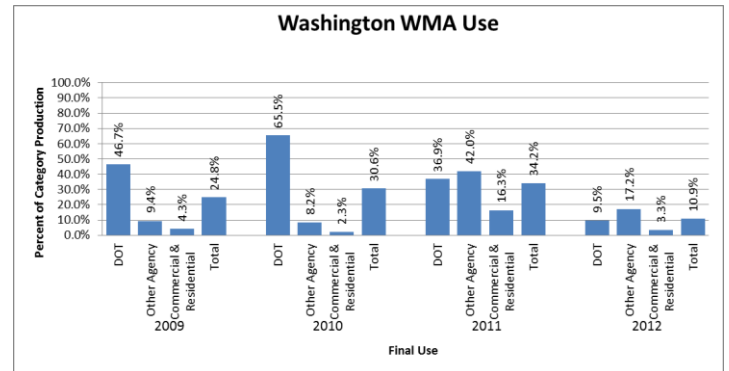
RAS Use



RAP Use



WMA Use



Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Steel Slag	1	450,000	80,000

Table B48: Summary of Washington data for 2012

Companies Reporting

4

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	767,991	1,080,415
Total Other Agency Tonnage	1,279,614	1,800,170
Total Commercial & Residential Tonnage	937,879	1,319,415
Total Tonnage	2,985,485	4,200,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	515,276	724,893
RAP Tons used in HMA/WMA	434,498	611,255
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	2,000	2,814
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	21%	
Average % RAP in Other Agency Mixes	19%	
Average % RAP in Commercial & Residential Mixes	20%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	50%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	1,998	2,811
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	1%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	73,341	103,177
WMA Other Agency Tonnage	220,264	309,869
WMA Commercial & Residential Tonnage	31,380	44,146
Total WMA Tonnage	324,986	457,192
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

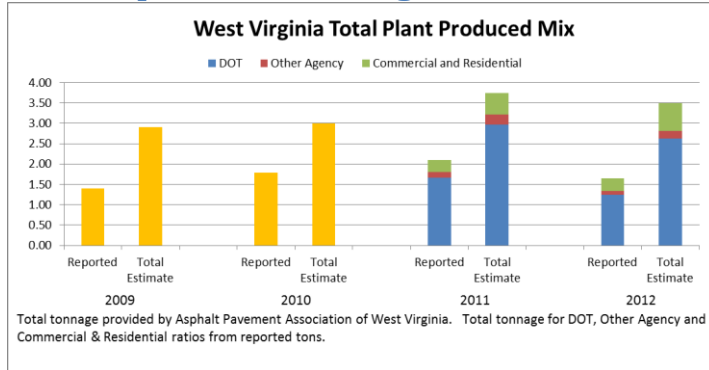
1. Total tonnage provided by the Washington Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

West Virginia

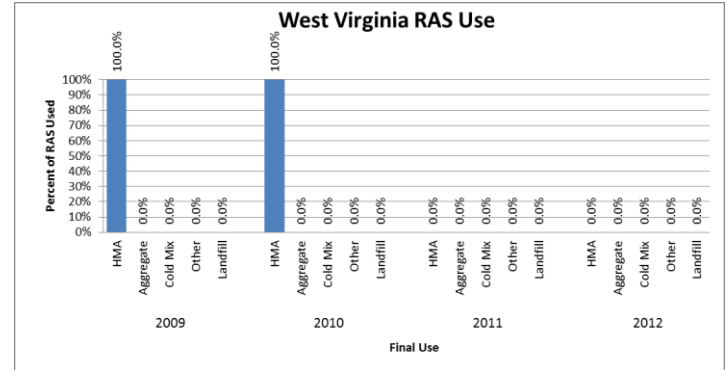
Table B50 summarizes the results received from asphalt mix producers in West Virginia. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 8 for 2009 & 2010, 3 for 2011 & 2012

Total Asphalt Mix Tonnage

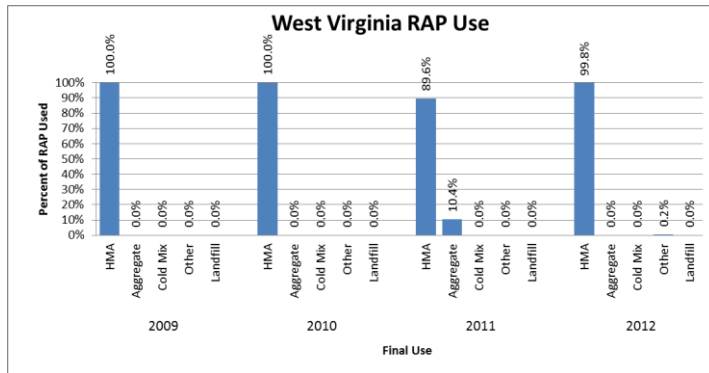


RAS Use

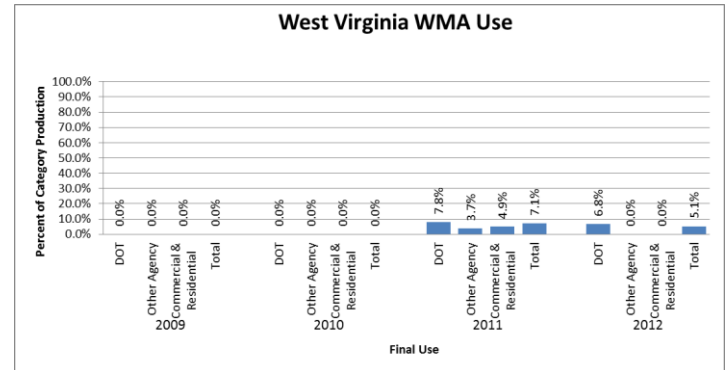


No companies reported using RAS in 2011

RAP Use



WMA Use



No contractor reported using WMA in 2009 or 2010.

Other Recycled Material

(Tons are reported values and do not represent estimates of the total quantity of these materials by state)

Material	No. Contractors Reporting	Tons of Mix Produced Using Material	Tons of Material Used
Blast Furnace Slag	3	588,120	180,308

Table B49: Summary of West Virginia Data for 2012

Companies Reporting

3

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	1,240,462	2,625,732
Total Other Agency Tonnage	90,271	191,080
Total Commercial & Residential Tonnage	322,755	683,188
Total Tonnage	1,653,488	3,500,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	254,506	538,722
RAP Tons used in HMA/WMA	190,679	403,617
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	273	578
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	13%	
Average % RAP in Other Agency Mixes	3%	
Average % RAP in Commercial & Residential Mixes	7%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	0%	
RAS Tons Received	-	-
RAS Tons used in HMA/WMA	-	-
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	67%	
WMA DOT Tonnage	83,918	177,631
WMA Other Agency Tonnage	-	-
WMA Commercial & Residential Tonnage	-	-
Total WMA Tonnage	83,918	177,631
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

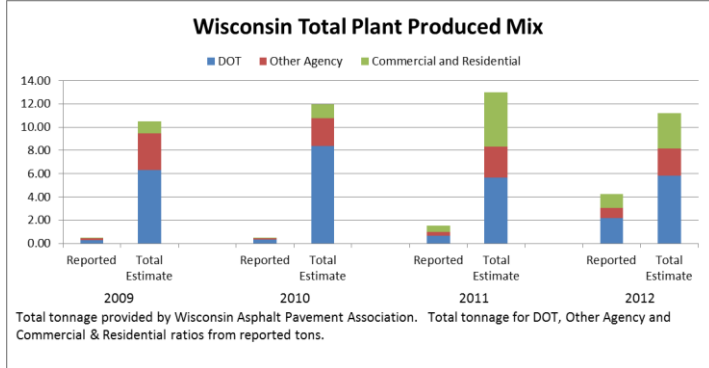
1. Total tonnage provided by the Asphalt Pavement Association of West Virginia. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Wisconsin

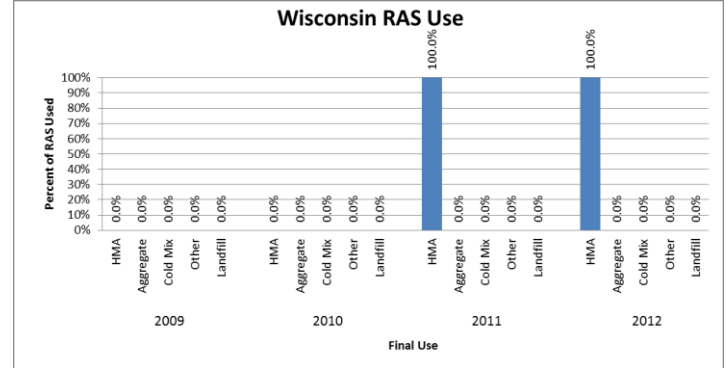
Table B51 summarizes the results received from asphalt mix producers in Wisconsin. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 1 for 2009 & 2010, 3 for 2011 & 2012

Total Asphalt Mix Tonnage

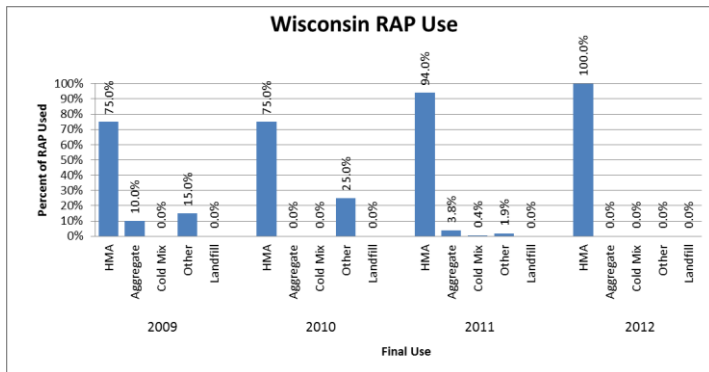


RAS Use

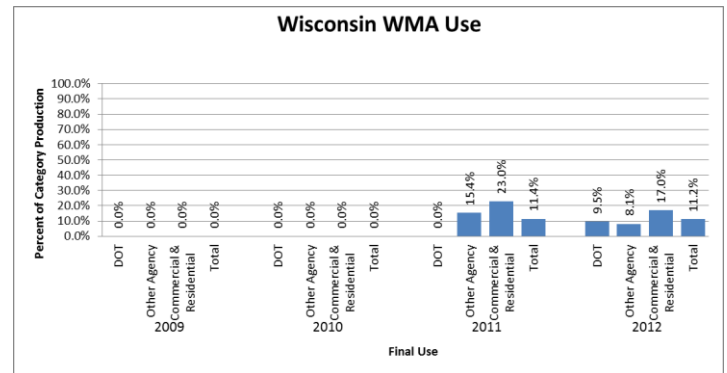


The contractor did not report any RAS use in 2009 or 2010.

RAP Use



WMA Use



The contractor did not report any WMA use in 2009 or 2010.

Table B50: Summary of Wisconsin Data for 2012

Companies Reporting

3

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	2,189,934	5,808,780
Total Other Agency Tonnage	880,173	2,334,651
Total Commercial & Residential Tonnage	1,151,585	3,054,569
Total Tonnage	4,221,692	11,198,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	100%	
RAP Tons Received	694,000	1,840,829
RAP Tons used in HMA/WMA	585,242	1,552,349
RAP Tons used as Aggregate	-	-
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	18%	
Average % RAP in Other Agency Mixes	19%	
Average % RAP in Commercial & Residential Mixes	25%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	100%	
RAS Tons Received	56,200	149,070
RAS Tons used in HMA/WMA	55,200	146,418
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	2%	
Average % RAS in Other Agency Mixes	2%	
Average % RAS in Commercial & Residential Mixes	2%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	33%	
WMA DOT Tonnage	207,000	549,066
WMA Other Agency Tonnage	71,600	189,918
WMA Commercial & Residential Tonnage	196,200	520,419
Total WMA Tonnage	474,800	1,259,403
Percent WMA Tons using Chemical Additives	75.0%	
Percent WMA Tons using Additive Foaming	4.0%	
Percent WMA Tons using Plant Foaming	20.0%	
Percent WMA Tons using Organic Additive	1.0%	

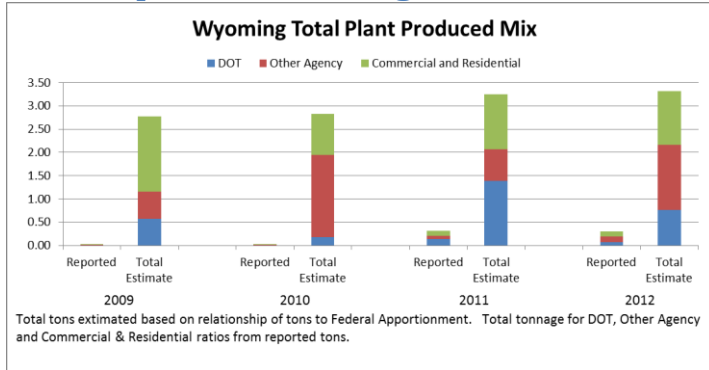
1. Total tonnage provided by the Wisconsin Asphalt Pavement Association. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.

Wyoming

Table B52 summarizes the results received from asphalt mix producers in Wyoming. The charts are used to summarize statistics calculated from information provided by the survey respondents.

Companies responding: 2 for 2009 & 2010, 3 for 2011 & 2012

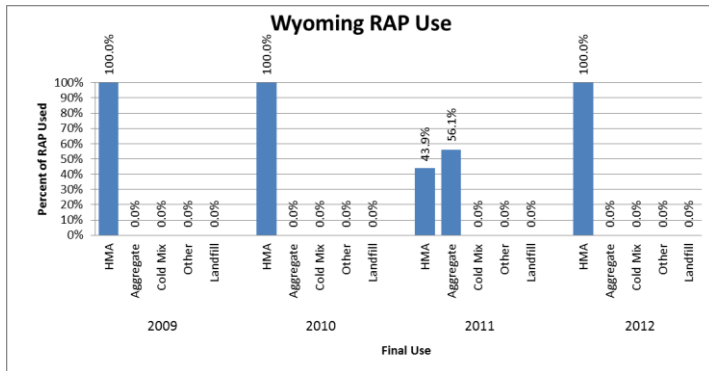
Total Asphalt Mix Tonnage



RAS Use

No contractor reported using RAS in 2009, 2010, 2011 or 2012. One company reported receiving RAS in 2011 but did not report its use.

RAP Use



WMA Use

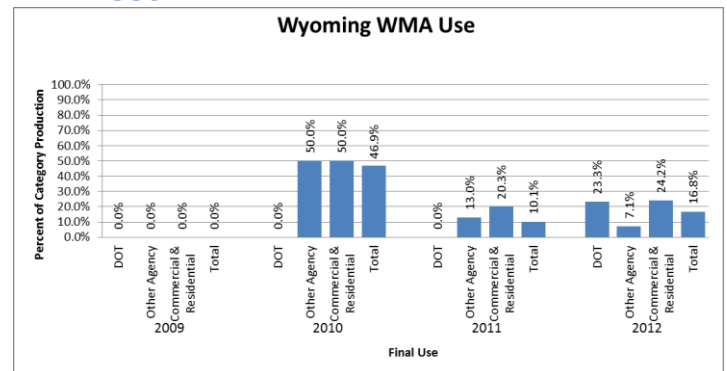


Table B51: Summary of Wyoming Data for 2012

Companies Reporting

HMA/WMA		
	Reported	Total Estimated ¹
	2012	2012
Total DOT Tonnage	69,723	762,119
Total Other Agency Tonnage	127,593	1,394,677
Total Commercial & Residential Tonnage	106,325	1,162,204
Total Tonnage	303,641	3,319,000
Reclaimed Asphalt Pavement (RAP)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAP	67%	
RAP Tons Received	20,053	219,193
RAP Tons used in HMA/WMA	5,076	55,484
RAP Tons used as Aggregate	16	175
RAP Tons used in Cold Mix	-	-
RAP Tons used as Other	-	-
RAP Tons Landfilled	-	-
Average % RAP in DOT Mixes	0%	
Average % RAP in Other Agency Mixes	0%	
Average % RAP in Commercial & Residential Mixes	14%	
Reclaimed Asphalt Shingles (RAS)		
	Reported	Total Estimated
	2012	2012
Percent Companies using RAS	33%	
RAS Tons Received	1,500	16,396
RAS Tons used in HMA/WMA	-	-
RAS Tons used as Aggregate	-	-
RAS Tons used in Cold Mix	-	-
RAS Tons used as Other	-	-
RAS Tons Landfilled	-	-
Average % RAS in DOT Mixes	0%	
Average % RAS in Other Agency Mixes	0%	
Average % RAS in Commercial & Residential Mixes	0%	
Warm-Mix Asphalt		
	Reported	Total Estimated
	2012	2012
Percent Companies using WMA	100%	
WMA DOT Tonnage	16,255	177,673
WMA Other Agency Tonnage	9,000	98,376
WMA Commercial & Residential Tonnage	25,694	280,850
Total WMA Tonnage	50,948	556,899
Percent WMA Tons using Chemical Additives	0.0%	
Percent WMA Tons using Additive Foaming	0.0%	
Percent WMA Tons using Plant Foaming	100.0%	
Percent WMA Tons using Organic Additive	0.0%	

1. Total tons estimated based on relationship of tons to Federal Apportionment. Total tonnage for DOT, Other Agency and Commercial & Residential ratios from reported tons.