



ASPHALT IN FIGURES

2010



EAPA is the European industry association which represents the manufacturers of bituminous mixtures and companies engaged in asphalt road construction and maintenance and it has the mission to promote the good use of asphalt in the creation and maintenance of a sustainable European road network. Conscious of the importance of providing information to the public, EAPA is pleased to present to you the data of 'Asphalt in Figures' for the year 2010.

Mr. Jean-Louis Marchand
President EAPA



KEY FIGURES OF THE EUROPEAN ASPHALT INDUSTRY IN 2010

In this overview, between a number of European countries, data refer to asphalt production, application and the use of binders. Furthermore several reference data on the road in general are given. The data have been established with the assistance of the members of the European Asphalt Pavement Association, and are at the moment the best available and reliable for the asphalt industry.

All figures are in metric tonnes. A blank means no data are supplied or available; '-' means the number is insignificant; "...*"figure not provided.

TOTAL PRODUCTION OF HOT AND WARM MIX ASPHALT IN 2005 - 2010 (in million tonnes)

Country	2005	2006	2007	2008	2009	2010
Austria	10,0	10,0	9,5	9,5	9,0	8,2
Belgium	5,2	5,0	4,5	4,9	4,7	4,8
Croatia	3,8	3,7	3,7*	4,2	3,2	2,2
Czech Republic	5,6	7,4	7,0	7,3	7,0	6,2
Denmark	3,2	3,4	3,3	3,1	2,7	3,2
Estonia	1,2	1,5	1,5	1,5	1,2	1,1
Finland	6,2	5,5	5,9	6,0	5,2	4,9
France	40,1	41,5	42,3	41,8	40,1	38,8
Germany	57,0	57,0	51,0	51,0	55,0	45
Great Britain	27,9	25,7	25,7	25,0	20,5	21,5
Greece	7,0*	7,8	8,0	8,1	8,7	5,2
Hungary	3,8	4,4	3,3	2,5	1,6	3,4
Iceland	0,3	0,3	0,3	0,4	0,3	0,2
Ireland	3,4	3,5	3,3	2,8	3,3	2,3
Italy	43,5	44,3	39,9	36,5	34,9	29
Latvia	0,6*	0,6*	0,6*	0,6*	0,6*	0,6*
Lithuania			1,7	2,2	1,5	1,6
Luxembourg		0,6	0,6	0,6*	0,6	0,7
Netherlands	8,6	9,8	10,2	9,3	9,8	9,5
Norway	5,1	5,1	5,9	5,7	6,5	5,9
Poland	15,0	18,0	18,0*	15,0	18,0	18
Portugal	11,1	8,9	9,0	9,0*	9,0*	6,7
Romania	2,8*	2,8*	3,2	3,3	3,6	3,2
Slovakia	1,8	2,2	2,2*	2,2*	2,2	1,9
Slovenia	1,5	2,2	2,1	2,6	2,3	1,8
Spain	41,5	43,4	49,9	42,3	39,0	34,4
Sweden	7,2	7,3	7,7	8,7	8,1	7,9
Switzerland	4,7	5,4	5,2	5,3	5,4	5,3
Turkey	16,6	18,9	22,2	26,6	23,1	35,3
Europe	324,3	346,1	347,7	338,0	317,3	309,3
Australia	7,7	7,7	9,0	9,5	9,5*	7,52
Japan	57,3	56,6	54,9	49,6	49,6	44,7
Ontario - Canada	13,0	13,0	13,2	13,2*	13,2*	14
U.S.A.	500,0	500,0	500,0	440,0	327,0	327
South Korea					35,6	20,7

APPLICATION IN SURFACE-, BINDER- AND BASE COURSES IN % OF TOTAL ANNUAL HMA AND WMA PRODUCTION

Country	Surface course	Binder course	Base course
Austria	25	10	65
Belgium	52		48
Czech Republic	58	19	23
Denmark	54	9	37
Estonia	65	26	9
Finland	91	0	9
Germany	33	20	47
Greece	60	20	20
Hungary	62	33	5
Iceland	95	5	
Italy	50	30	20
Lithuania	46	21	33
Luxembourg	33	62	5
Netherlands	40	8	52
Norway	80	10	10
Polland	48	32	20
Portugal	20	35	45
Romania	22	28	50
Slovenia	51	3	46
Spain	52	28	20
Sweden	40	15	45
Switzerland	24	22	54
Turkey	35	37	28
Japan	80	12	7
Ontario - Canada	60		40

SURFACE COURSES WITH ASPHALT CONCRETE EN 13108-1

Country	% of total annual hot and warm mix asphalt production in 2010	In 2010 applied area in million m ²	Total area in million m ² incl. 2010
Austria	24,0		
Belgium	34,9		
Croatia	54,0	11,8	
Czech Republic	50,8	23,6	
Denmark	24,0	8,8	
Estonia	59,0		
Finland	70,0		
Germany	21,0		
Greece	100,0	34,0	
Hungary	54,6		
Iceland	89,0	1,5	
Italy	42,5		
Lithuania	37,0		
Luxembourg	15,5	1,1	
Netherlands	16,0		
Poland	40,8		
Portugal	8,0	10,0	
Romania	4,4	4,0	
Slovenia	47,4	11,7	
Spain	34,5		
Sweden	20,0	25,0	
Switzerland	13,0	3,7	No data
Turkey	94,0		
Japan	66,0	35	435

SURFACE COURSES WITH BBTM EN 13108-2

Country	% of total annual hot and warm mix asphalt production in 2010	In 2010 applied area in million m ²	Total area in million m ² incl. 2010
Belgium	2,8	2,2	
Croatia	3,0	0,6	
Czech Republic	0,1	0,1	
Hungary	1,2	0,0	
Netherland	1,0		
Portugal	5,0	9,5	
Romania	2,2	2,0	
Spain	7,5		
Switzerland	3,0	1,2	22,2
Japan	0,2	0,1	2,502

SURFACE COURSES WITH SOFT ASPHALT EN 13108-3

Country	% of total annual hot and warm mix asphalt production in 2010	In 2010 applied area in million m ²	Total area in million m ² incl. 2010
Denmark	12,00	6,00	
Finland	14,60		
Sweden	5,00	10,00	

SURFACE COURSES WITH HOT ROLLED ASPHALT EN 13108-4

Country	% of total annual hot and warm mix asphalt production in 2010	In 2010 applied area in million m ²	Total area in million m ² incl. 2010
Hungary	0,1		
Portugal	2,00	6,00	
Romania	11,00	9,00	
Japan	0,02	0,014	1,755

SURFACE COURSES WITH STONE MASTIC ASPHALT EN 13108-5

Country	% of total annual hot and warm mix asphalt production in 2010	In 2010 applied area in million m ²	Total area in million m ² incl. 2010
Austria	4,0		
Belgium	13,8	7,9	
Czech Republic	5,3	3,1	
Denmark	17,7	6,4	45,7
Finland	6,4		
Germany	11,0		
Hungary	5,6	10,4	
Iceland	11,0	0,1	
Italy	2,0		
Lithuania	9,0		
Luxembourg	17,0	1,2	
Netherlands	10,0		
Poland	6,7		
Portugal	1,0	5,0	
Romania	2,64	5,50	
Slovenia	3,1	5,1	
Sweden	15,0	15,0	
Switzerland	0,0		
Turkey	6,0		
Japan	1,8	0,9	9,9

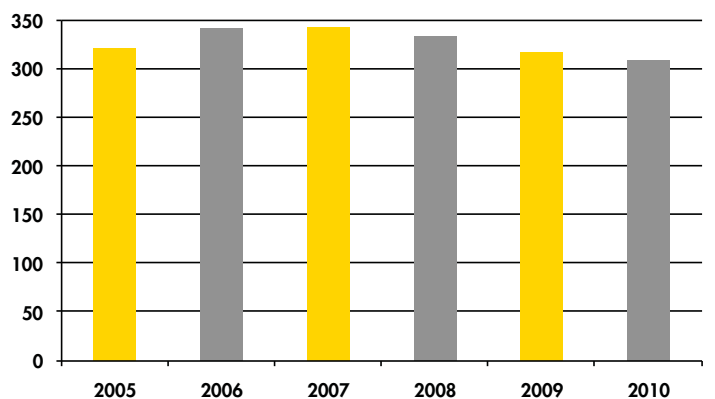
SURFACE COURSES WITH MASTIC ASPHALT EN13108-6

Country	% of total annual hot and warm mix asphalt production in 2010	In 2010 applied area in million m ²	Total area in million m ² incl. 2010
Belgium	0,45		
Czech Republic	1,10	0,80	
France	0,52		
Germany	1,00		
Italy	0,50		
Hungary	0,50	0,15	
Netherlands	0,00		
Poland	0,50		
Portugal	3,00	12,00	
Slovenia	0,10		
Spain	8,00		
Sweden	<1	0,20	
Switzerland	0,00		
Japan	0,11	0,06	6,6

SURFACE COURSES WITH POROUS ASPHALT EN13108-7

Country	% of total annual hot and warm mix asphalt production in 2010	In 2010 applied area in million m ²	Total area in million m ² incl. 2010
Belgium	0,45	0,26	
Czech Republic	0,30	0,20	
Denmark	0,30	0,16	2,40
Hungary	0,06	0,01	
Italy	5,00		100,0
Netherlands	13,00		
Portugal	1,00	5,00	
Romania	1,76	3,50	
Slovenia	0,40		
Spain	2,00		
Sweden	<1	0,20	
Switzerland	8,00	1,90	25,9
Japan	11,92	6,35	48,6

TOTAL PRODUCTION OF HOT AND WARM MIX ASPHALT IN EUROPE (in million tonnes)



PRODUCTION OF WARM MIX ASPHALT IN 2010

For this table **Warm Mix Asphalt** is defined as mixtures produced by using special techniques and/or additives to reduce the production temperature. The production temperature is between 100°C and 150°C.

Country	2010 (million tonnes)
Austria	0,000
Czech Republic	0,000
Estonia	0,000
Finland	0,800
France	1,000
Germany	No data
Great Britain	<0,5
Greece	0,000
Hungary	0,0004
Lithuania	0,000
Luxembourg	0,005
Netherlands	0,200
Norway	Insignificant
Portugal	0,000
Spain	1,250
Sweden	0,600
Switzerland	0,780
Romania	0,000
Turkey	0,000
USA	42,600
Japan	0,120
Ontoria-Canada	0,500

COLD BITUMINOUS MIXES (annual tonnage)

Country	2008 (tonnes)	2009 (tonnes)	2010 (tonnes)
Austria	0,000	20,000	10,000
Belgium	29,500	33,000	30,000
Croatia	0	0	30,000
Czech Republic	26,400	8,100	11,620
Denmark	≈ 0	0	≈ 0
Estonia	0	0	0
France	> 2.000.000	> 1.500.000	> 1.500.000
Great Britain		< 1.000.000	
Greece		0	0
Hungary	1,956	0	33,000
Iceland		6,000	
Ireland	140,000		0
Lithuania	75,000	0	61,936
Luxembourg		0,00	
Norway	79,000	5,000	9,000
Poland	58,000	60,000	61,000
Portugal			130
Romania	18,000	13,000	22,000
Slovenia	0	5,000	
Spain		275,000	185,000
Sweden	120,000	90,000	70,000
Switzerland		560,000	630,000
Turkey	3.545.845	1.404,000	2.370,000
Japan		104,000	105,000
Mexico	3.000.000	3.300,000	

RECYCLING

Country	available reclaimed asphalt (tonnes)	% of available reclaimed asphalt used in				% of the new hot and warm mix production that contains reclaimed material
		hot and warm recycling	half warm recycling	cold recycling	unbound layers	
Austria	500,000	80			8	12
Belgium	1,500,000	57				47
Czech Republic	1,650,000	15			35	10
Croatia	75,000				35	
Denmark	350,000	56				44
Finland	1,000,000					39
France	7,080,000	40	no data	no data	no data	65
Germany	14,000,000	82				no data
Greece	0	0	0	0	0	18
Great Britain	4,000,000					60
Hungary	44,580	12			15	0
Iceland	15,000					40
Ireland	100,000	40		0		25
Italy	11,000,000	20				60
Luxembourg	200,000					2,5
Netherlands	4,000,000	75				2,0
Norway	750,000	15	13		12	60
Poland	110,000	4				67
Portugal	2,100	15	0		5	8
Romania	40,000	40		15	20	25
Slovenia	26,160			30	20	<5
Spain	1,590,000	56	9		16	19
Sweden	1,100,000	70		5	5	11
Switzerland	1,450,000	52	19		18	60
Turkey	2,420,000	19				21
Japan						10
U.S.A.	66,500,00	84				72,9
Ontoria-Canada	4,000,000	85				15

APPLICATION OF SLURRY SEAL AND MICRO-SURFACING/SURFACE DRESSING

(in million m²)

Country	SS&MS 2010	Trend '09/'10	SD 2010
Austria			
Croatia	0,40	>more	
Czech Republic	1,10	<less	1,20
Denmark	0,03	>	5,30
Estonia		<	11,00
Finland			0,47
France	25,00	>	<300
Germany	No data		
Greece	0,20	<	0,00
Hungary	0,00	0	0,00
Iceland	0,10		4,10
Ireland	No data		No data
Lithuania		>	0,14
Luxembourg	0,02	>	0,10
Norway			1,50
Poland	0,93	>	2,90
Portugal	2,00	<	1,50
Romania	0,60		
Spain		<<	
Sweden	0,20	<	7,00
Switzerland	0,36		0,37
Turkey			297,00
Japan	0,01	much less	0,10

CONSUMPTION OF BITUMEN IN THE ROAD INDUSTRY (in million tonnes)

Country	Tonnage in 2010	% Modified bitumen (of total)			Emulsions in 2010
		in 2008	in 2009	in 2010	
Austria	0,40		30	35	0,004
Belgium	0,21	24	23	24,4	
Czech Republic	0,40	20	20	16	0,030
Denmark	0,16	5	5	5	0,019
Estonia	0,08	0	0	0	0,020
Finland	0,30		0	0	0,010
France	3,10	<10	<10	<10	0,900
Germany	1,90	22,5	23	No data	
Great Britain	1,24	7,0	8	8	0,100
Greece	0,27		2,9	2	0,005
Hungary	0,18	38,7	21	12	0,020
Iceland	0,02		0		0,005
Ireland	0,20	11,2	10	25	0,050
Italy	1,50		12,5	13,3	0,060
Lithuania	0,08	7	13	18	0,004
Luxembourg	0,50			15	
Norway	0,33	≈ 0	10	13	0,002
Poland	1,50	21	24	22	1,020
Portugal	0,36			15	0,050
Romania	0,18	70	74	45	0,200
Slovenia		22	17		
Spain	1,44		12,6	14,3	0,175
Sweden	0,40	4	5	6	0,040
Switzerland	0,26		11	12	No data
Turkey	2,37	1,4	2	4	0,053
Japan	1,73		19,6	20,1	No data
Mexico			0,24		
Ontoria-Canada	0,75			15	
South Korea	2,07				

COMPANIES IN THE ASPHALT INDUSTRY

Country	Production only	Production & Laying	Laying only
Austria		65	
Belgium	10	19	>40
Croatia		35	10
Czech Republic	19	26	>40
Denmark	0	8	~10
Estonia	1	8	2
Finland	0	10	15
France		30	>1000
Germany	260	150	3.000
Great Britain	20	25	
Greece	235	235	5
Hungary	2	29	12
Iceland	1	4	10
Ireland	2	22	36
Italy	30	570	>3500
Lithuania		22	no data
Luxembourg		3	
Netherlands		26	3
Norway	4	18	35
Poland	4	260	140
Portugal	10	35	70
Romania	12	27	20
Slovenia	15	14	5
Spain	12	196	
Sweden	0	8	70
Switzerland	59	72	>320
Turkey	10	226	78
Europe	706	2143	>8421
Australia		19	
Japan		759	
Ontario-Canada		45	100

NUMBER OF PRODUCTION SITES

Country	Stationary Plants		Mobile plants		Number fit for hot recycling	
	2009	2010	2009	2010	2009	2010
Austria	115	114	1	1	42	65
Belgium	38	38	0	0	23	26
Croatia	52	57	2	1		5
Czech Republic	112	111	3	3	70	70
Denmark	42	42	3	3	40	40
Estonia	11	11	12	13	9	10
Finland ***	61	72	39	23	46	51
France **	435	436	76	72	>180	>180
Germany	666	652			640	625
Great Britain ***	290	270				
Greece ***	~235	225	≈ 10	10	1	1
Hungary	34	78	5	5	0	32
Iceland ***	4	4	4	4		
Ireland	45	45	3	4	4	6
Italy	640	640	10	10	300	300
Lithuania	40	39	1	1	22	22
Luxembourg	4	4			3	3
Netherlands	44	42	1	0	43	41
Norway	87	84	12	12	25	25
Poland*	295	290	22	25	3	4
Portugal	15*	25	110*	30	20*	12
Slovenia	19	16	2	0		
Spain	375	364	107	107	31	31
Sweden	83	83	11	11	65	70
Switzerland	140	141	1	1	60	68
Turkey ***	218	211	359	368	7	7
Europe	4100	4094	794	704	1634	1662
Australia		137		34		
Japan	1189	1175	8	14	1009	999
Ontario - Canada		120		30		140
South Korea		437				21

** One or more plants are operated and owned by the road administration
 *** One or more plants are operated and owned by the road administration and/or municipalities

INTERESTING SITES ON THE INTERNET

www.eapa.org.....	European Asphalt Pavement Association
www.sdruzeni-silnice.cz.....	Road Contractors Association Prague
www.asfaltindustrien.dk.....	Danish Asphalt Pavement Association
www.vbwasfalt.nl.....	Dutch Asphalt Pavement Association
www.asfaldiliit.ee.....	Estonian Asphalt Pavement Association
www.infrary.fi.....	Finnish Asphalt Association
www.usirf.com.....	L'Union des Syndicats de l'industrie Routière Française
www.asphalt.de.....	German Asphalt Association
www.gestrata.at.....	Gestrata
www.hapa.hu.....	Hungarian Asphalt Pavement Association
www.siteb.it.....	Italian Asphalt Association
www.fav.net.....	Norwegian Asphalt and Road Contracting Association
www.pswna.pl.....	Polish Asphalt Pavement Association
www.apdp.ro.....	Professional Association of Roads and Bridges of Romania
www.mischgut-industrie.ch.....	Schweizerische Mischgut-Industrie
www.saav.sk.....	Slovakian Asphalt Pavement Association
www.zdruzenje-zas.si.....	Slovenian Asphalt Pavement Association
www.asfema.es.....	Spanish Asphalt Association
www.asnud.org.tr.....	Turkish Asphalt Contractors Association
www.mineralsproducts.org.....	UK Minerals Products Association
www.amaac.org.mx.....	Asociacion Mexicana del Asfalto,A.C
www.sdruzeni-silnice.cz.....	Road Contractors Association Praha
www.galpenergia.com.....	Galp Energia Portugal
www.malvik.is.....	Hofdi Asphalt Plant

www.colas.is.....	Colas Iceland
www.vegagerdin.is.....	Icelandic Road Administration
www.pch.public.lu.....	L'administration des Ponts et Chaussées Luxembourg
www.eurobitume.eu.....	European Bitumen Association
www.oecd.org/cem.....	World Economic Organisation
www.piarc.org/en.....	World Road Congress
www.lakd.lt.....	Lithuanian Road Administration
www.irfnet.eu.....	European Union Road Federation
www.fehrl.org.....	European Road Research Laboratories
www.eota.be.....	European Organisation for Technical Approvals
www.eccredi.org.....	The European Council for Construction Research, Development and Innovation
www.cen.eu.....	European Committee for Standardization
www.fiec.org.....	European Contractors Organisation
www.ebrd.com.....	European Bank for Eastern Europe
www.eib.org.....	European Investment Bank
www.hotmix.org.....	US National Asphalt Pavement Association
www.aapa.asn.au.....	Australian Asphalt Pavement Association
www.asphaltinstitute.org.....	US Bitumen Organisation
www.ohmpa.org.....	Ontario Hot Mix Producers Association
www.sabita.org.....	South African Asphalt and Bitumen Association
www.dohkenkyo.or.jp.....	Japan Road Contractors Association
www.roadingnz.org.nz.....	Roading New Zealand
www.inveas.org.ve.....	Venezuelan Asphalt Association
www.amaac.org.mx.....	Asociacion Mexicana del Asfalto,A.C



EUROPEAN ASPHALT PAVEMENT ASSOCIATION

Rue de Commerce 77
1040 Brussels - Belgium

Tel +32 2 502.58.88
Fax +32 2 502.23.88

www.eapa.org
info@eapa.org

EUROPEAN ASPHALT PAVEMENT ASSOCIATION