

**ERMCO**

EUROPEAN READY MIXED CONCRETE ORGANIZATION  
ASSOCIATION EUROPEENNE DU BETON PRET A L'EMPLOI  
EUROPÄISCHER TRANSPORTBETONVERBAND

**EUROPEAN READY-MIXED CONCRETE  
INDUSTRY STATISTICS**

**YEAR 2002**

**EUROPEAN READY-MIXED CONCRETE INDUSTRY STATISTICS  
YEAR 2002**

These statistics have been compiled for the year from Members' annual returns as of 5 Dec 2003.

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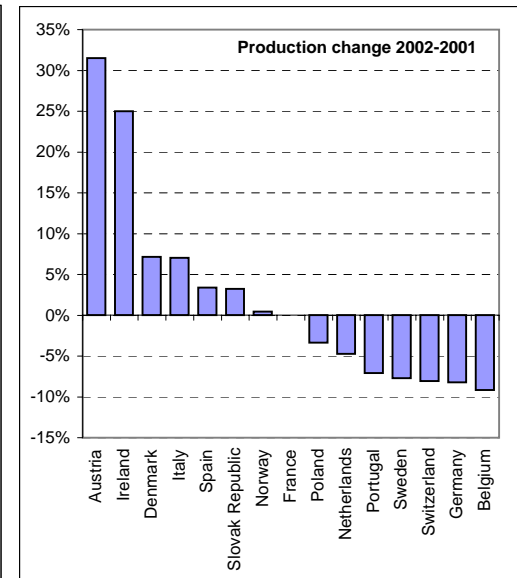
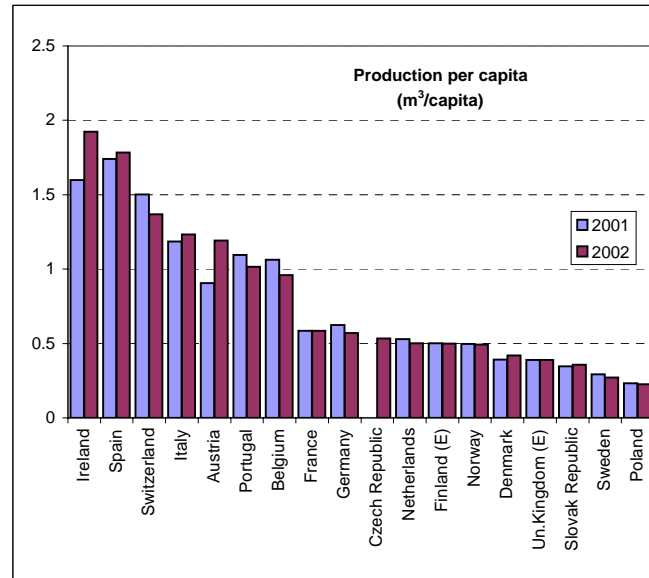
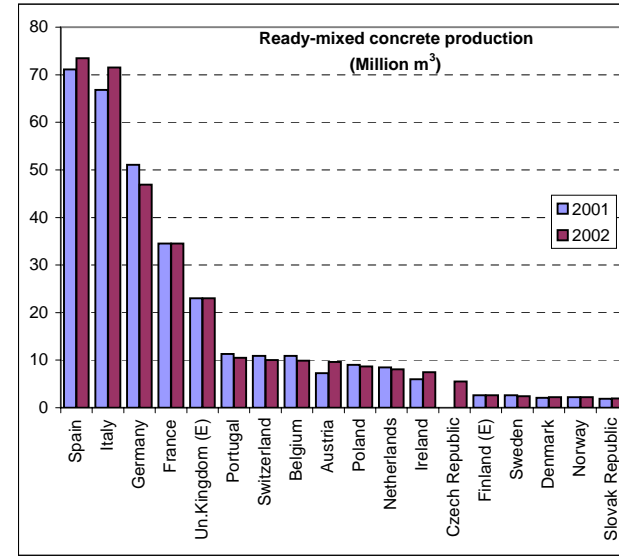
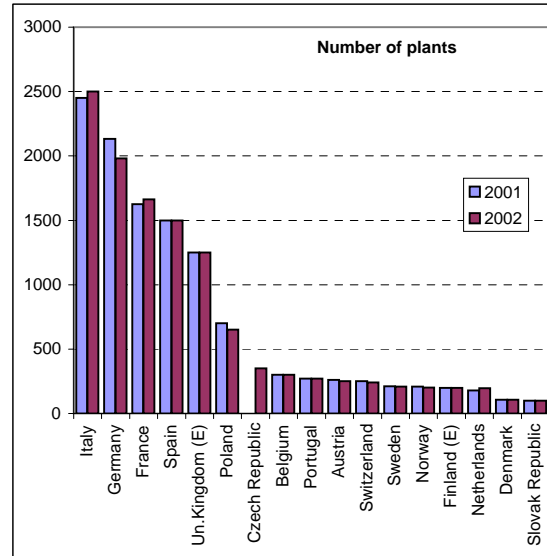
**December 2003**

**TABLE 1a**  
**Ready Mixed Concrete Industry Statistics**  
**Year 2002**

Country	No. of plants			Total production <i>x10<sup>6</sup> m<sup>3</sup></i>			Prod. per plant <i>x10<sup>3</sup> m<sup>3</sup></i>			Production per capita <i>m<sup>3</sup>/capita</i>			Cem.consumption <i>x10<sup>6</sup> t</i>			% cement to ready-mix			Av. cem dosage <i>kg/m<sup>3</sup></i>		
	2001	2002	Change %	2001	2002	Change %	2001	2002	Change %	2001	2002	Change %	2001	2002	Change %	2001	2002	Change %	2001	2002	Change %
Austria	260	250	-3.8	7.3	9.6	31.5	28.1	38.4	36.8	0.91	1.19	31.8	4.30	4.70	9.3	53.0	53.0	0.0	260	260	0.0
Belgium	300	300	0.0	10.9	9.9	-9.2	36.3	33.0	-9.2	1.06	0.96	-9.7	5.70	5.40	-5.3	50.0	52.0	4.0	275	275	0.0
Czech Republic	-	350	-	-	5.5	-	-	15.7	-	-	0.53	-	-	-	-	52.0	-	-	-	-	-
Denmark	108	106	-1.9	2.1	2.3	7.1	19.4	21.2	9.2	0.39	0.42	6.9	1.50	1.50	0.0	35.0	35.0	0.0	230	230	0.0
Finland (E)	200	200	0.0	2.6	2.6	0.0	13.0	13.0	0.0	0.50	0.50	-0.1	1.70	1.70	0.0	51.0	51.0	0.0	350	350	0.0
France	1626	1663	2.3	34.5	34.5	0.0	21.2	20.7	-2.2	0.59	0.59	0.0	20.60	20.70	0.5	47.6	46.8	-1.7	284	284	0.0
Germany	2132	1982	-7.0	51.1	46.9	-8.2	24.0	23.7	-1.3	0.62	0.57	-8.2	31.50	28.68	-9.0	46.4	46.7	0.6	285	285	0.0
Ireland	-	-	-	6.0	7.5	25.0	-	-	-	1.60	1.92	20.4	3.00	3.00	0.0	90.0	90.0	0.0	300	300	0.0
Italy	2450	2500	2.0	66.8	71.5	7.0	27.3	28.6	4.9	1.19	1.23	3.9	39.80	41.40	4.0	44.5	47.0	5.6	265	265	0.0
Netherlands	180	196	8.9	8.5	8.1	-4.7	47.2	41.3	-12.5	0.53	0.50	-5.2	5.88	5.40	-8.2	-	44.0	-	312	312	0.0
Norway	210	202	-3.8	2.2	2.2	0.5	10.6	11.0	4.4	0.50	0.49	-0.9	1.24	1.25	0.8	58.8	65.2	11.0	327	336	2.8
Poland	700	650	-7.1	9.0	8.7	-3.3	12.9	13.4	4.1	0.23	0.23	-3.3	12.00	11.30	-5.8	24.0	25.0	4.2	330	330	0.0
Portugal	270	270	0.0	11.3	10.5	-7.1	41.9	38.9	-7.1	1.10	1.02	-7.3	11.30	10.80	-4.4	26.0	26.0	0.0	280	260	-7.1
Slovak Republic	100	100	0.0	1.9	1.9	3.2	18.6	19.2	3.2	0.35	0.36	3.2	1.63	1.68	3.1	40.0	42.0	5.0	350	350	0.0
Spain	1500	1500	0.0	71.1	73.5	3.4	47.4	49.0	3.4	1.74	1.78	2.5	42.00	44.00	4.8	48.0	48.0	0.0	283	285	0.7
Sweden	212	210	-0.9	2.6	2.4	-7.7	12.3	11.4	-6.8	0.29	0.27	-7.7	1.60	1.55	-3.1	55.0	54.0	-1.8	340	350	2.9
Switzerland	251	242	-3.6	10.9	10.0	-8.1	43.4	41.4	-4.6	1.50	1.37	-8.8	3.93	3.93	0.0	71.4	71.4	0.0	287	287	0.0
Un.Kingdom (E)	1250	1250	0.0	23.0	23.0	0.0	18.4	18.4	0.0	0.39	0.39	0.0	12.50	12.50	0.0	60.0	60.0	0.0	280	280	0.0
<b>Total/Average</b>	<b>11749</b>	<b>11971</b>	<b>1.9</b>	<b>321.8</b>	<b>330.7</b>	<b>2.7</b>	<b>27.4</b>	<b>27.6</b>	<b>0.8</b>	<b>0.75</b>	<b>0.76</b>	<b>2.2</b>	<b>200.18</b>	<b>199.49</b>	<b>-0.3</b>	<b>44.9</b>	<b>47.0</b>	<b>4.6</b>	<b>282.5</b>	<b>277.2</b>	<b>-1.8</b>
Israel	228	210	-7.9	7.9	8.0	1.3	34.6	38.1	9.9	1.26	1.25	-0.7	3.90	4.40	12.8	58.0	58.0	0.0	280	280	0.0
Turkey	401	440	9.7	25.4	26.8	5.5	63.3	60.9	-3.8	0.37	0.38	2.5	25.00	26.80	7.2	32.0	30.0	-6.3	280	280	0.0
Russia	1200	-	-	35.0	35.0	0.0	29.2	-	-	0.24	0.25	1.7	32.00	-	-	20.0	-	-	360	-	-
USA	5000	7000	40.0	315.0	300.0	-4.8	63.0	42.9	-32.0	1.11	1.05	-5.6	113.00	106.00	-6.2	74.0	74.0	0.0	300	300	0.0
Cuba	42	40	-4.8	0.3	0.3	-10.0	7.1	6.8	-5.5	0.03	0.02	-10.0	0.22	0.18	-18.2	40.0	40.0	0.0	300	300	0.0

Legend: (E) and *italics* : estimated data

**Table 1b**  
**Ready Mixed Concrete Industry Statistics**  
**Year 2002**



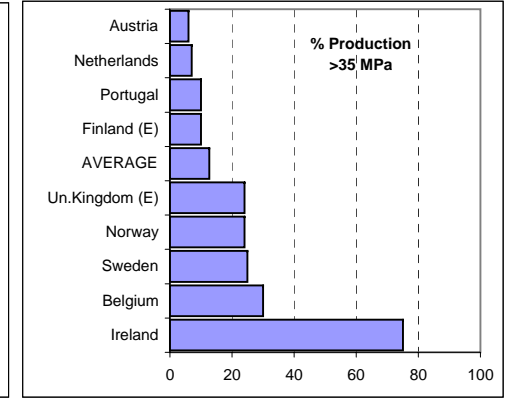
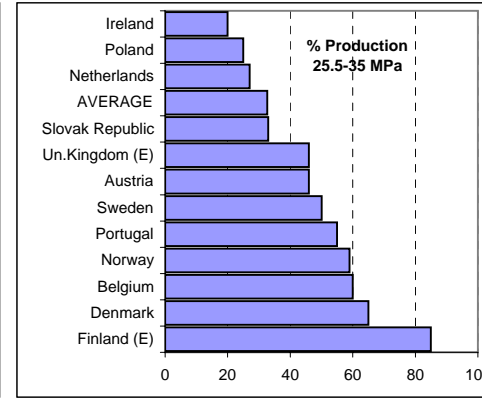
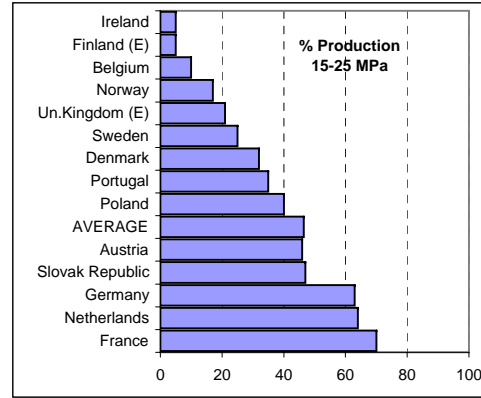
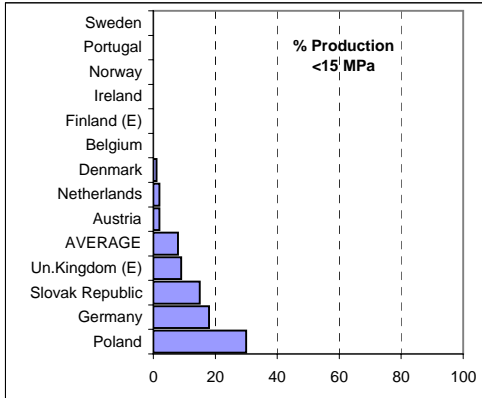
**TABLE 2a**  
**Ready Mixed Concrete Industry Statistics**  
**Year 2002**

Country	% Production per strength class								% Production per consistence class					
	Strength (MPa)								Slump class					
	<15		15-25		25.5-35		>35		S1		S2-S3		S4-S5+	
	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002
Austria	10	2	35	46	40	46	15	6	5	5	45	45	50	50
Belgium	5	0	20	10	70	60	5	30	5	5	75	65	20	30
Czech Republic	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	10	1	60	32	28	65	2	2	5	30	15	30	80	40
Finland (E)	0	0	5	5	85	85	10	10	5	5	25	25	70	70
France	20	-	60	70	15	27	5	3	-	-	80	80	-	-
Germany	4	18	14	63	63	15	20	5	12	12	83	82	5	6
Ireland	5	0	15	5	40	20	40	75	15	15	65	65	20	20
Italy	9	-	61	-	29	-	1	-	-	-	-	-	-	-
Netherlands	2	2	71	64	24	27	3	7	-	-	-	-	-	-
Norway	1	0	20	17	59	59	21	24	1	1	0	0	99	99
Poland	30	30	40	40	25	25	5	5	10	10	20	20	70	70
Portugal	0	0	75	35	20	55	5	10	0	0	95	85	5	15
Slovak Republic	15	15	50	47	30	33	5	5	10	10	80	80	10	10
Spain	5	-	5	-	80	-	10	-	0	-	80	-	20	-
Sweden	0	0	5	25	65	50	30	25	3	3	57	57	40	40
Switzerland	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Un.Kingdom (E)	9	9	21	21	46	46	24	24	3	3	96	96	1	1
<b>Average</b>		<b>8.0</b>		<b>46.5</b>		<b>32.7</b>		<b>12.7</b>		<b>8.2</b>		<b>71.3</b>		<b>20.5</b>
Israel	3	3	15	15	57	60	25	22	1	1	4	4	95	95
Turkey	7	6	87	87	5	6	1	1	1	1	34	34	65	65
Russia	10	-	70	-	15	-	5	-	5	-	90	-	5	-
USA	10	0	50	5	30	80	10	15	-	0	-	0	-	0
Cuba	2	8	58	82	38	10	2	0	0	0	25	0	75	100

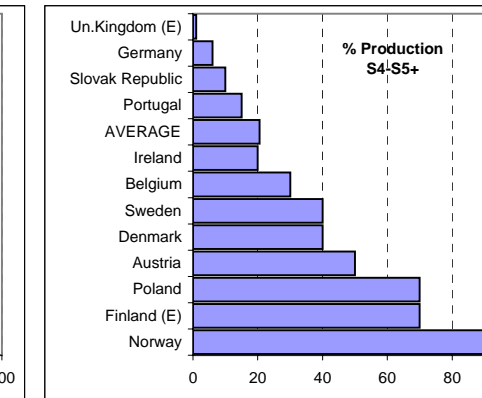
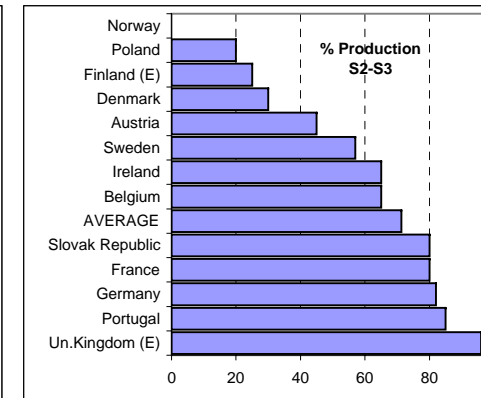
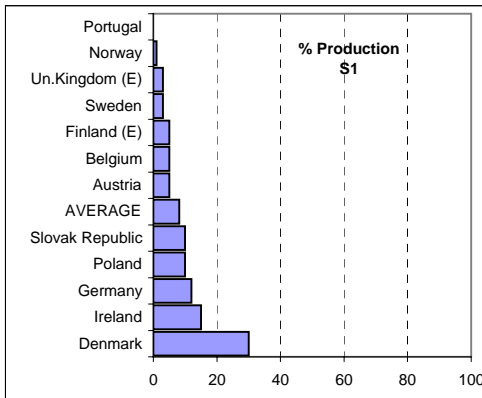
Legend: (E) and *italics*: estimated data

**TABLE 2b**  
**Ready Mixed Concrete Industry Statistics**  
**Year 2002**

**Distribution of production by strength class**



**Distribution of production by consistence class**

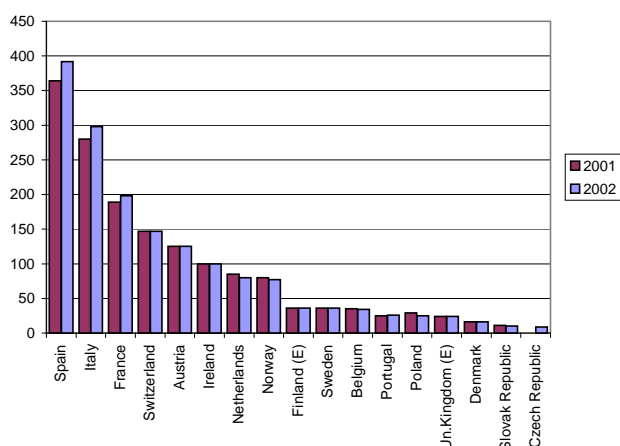


**TABLE 3**  
**European Ready Mixed Concrete Organization**  
**Development of the Associated Members 2002/2001**

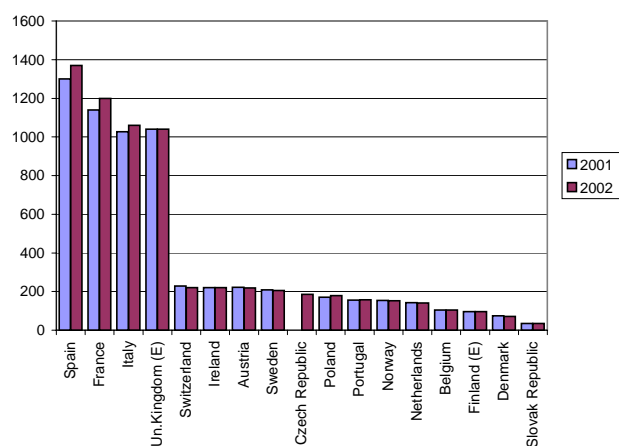
Country	Producers			Plants			Employees				
	2001	2002	Change % 2002-01	2001	2002	Change % 2002-01	Members		Change % 2002-01	Country 2002	% Member/Country 2002
							2001	2002			
Austria	125	125	0.0	222	218	-1.8	1814	1849	1.9	2100	88.0
Belgium	35	34	-2.9	105	105	0.0	1780	1700	-4.5	3560	47.8
Czech Republic	-	9	-	-	186	-	-	1488	-	2000	74.4
Denmark	16	16	0.0	74	72	-2.7	-	-	-	-	-
Finland (E)	36	36	0.0	96	96	0.0	750	750	0.0	850	88.2
France	189	198	4.8	1140	1200	5.3	5460	5748	5.3	7370	78.0
Germany	581	-	-	1368	-	-	8412	6480	-23.0	12000	54.0
Ireland	100	100	0.0	220	220	0.0	10000	10000	0.0	-	-
Italy	280	298	6.4	1027	1060	3.2	10800	11500	6.5	21000	54.8
Netherlands	85	80	-5.9	143	140	-2.1	2150	2100	-2.3	2550	82.4
Norway	80	77	-3.8	154	153	-0.6	934	934	0.0	1250	74.7
Poland	29	25	-13.8	170	179	5.3	1200	1100	-8.3	3300	33.3
Portugal	25	26	4.0	155	158	1.9	1100	1250	13.6	1450	86.2
Slovak Republic	11	10	-9.1	34	35	2.9	304	285	-6.3	915	31.1
Spain	364	392	7.7	1300	1370	5.4	12400	13270	7.0	15000	88.5
Sweden	36	36	0.0	208	206	-1.0	1000	1000	0.0	1020	98.0
Switzerland	147	147	0.0	229	221	-3.5	-	-	-	-	-
Un.Kingdom (E)	24	24	0.0	1040	1040	0.0	10000	10000	0.0	10500	95.2
<b>Total/Average</b>	<b>2163</b>	<b>1633</b>	<b>-24.5</b>	<b>7685</b>	<b>6659</b>	<b>-13.4</b>	<b>68104</b>	<b>69454</b>	<b>2.0</b>	<b>84865</b>	<b>81.8</b>
Israel	17	17	0.0	182	180	-1.1	800	750	-6.3	1000	75.0
Turkey	69	71	2.9	253	262	3.6	7191	7290	1.4	11149	65.4
Russia	-	-	-	-	-	-	-	-	-	100000	-
USA	800	1200	50.0	3000	4620	54.0	60000	72600	21.0	110000	66.0
Cuba	1	1	0.0	6	5	-16.7	345	454	31.6	1000	45.4

Legend: E = Estimated data

**Associated producers by country**



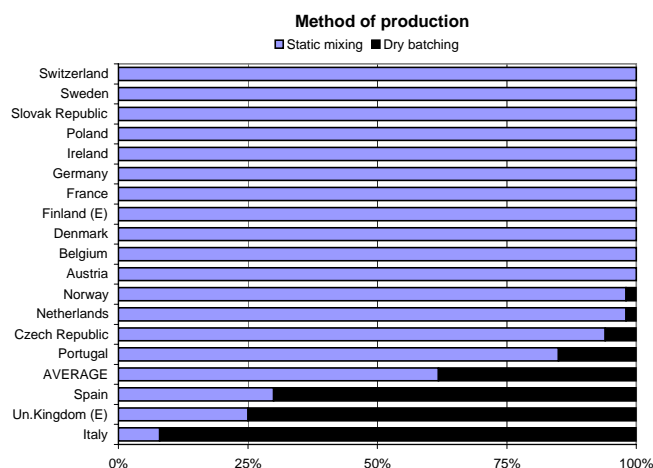
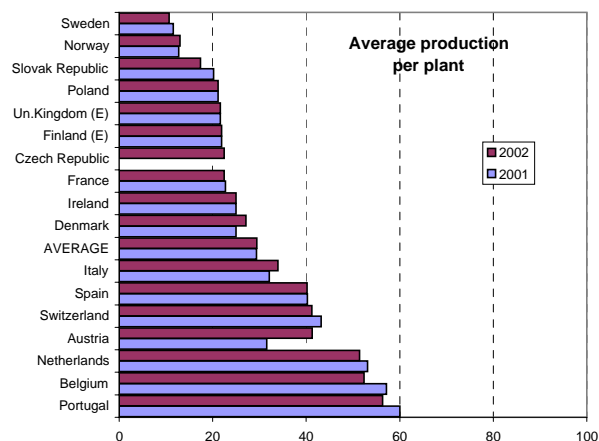
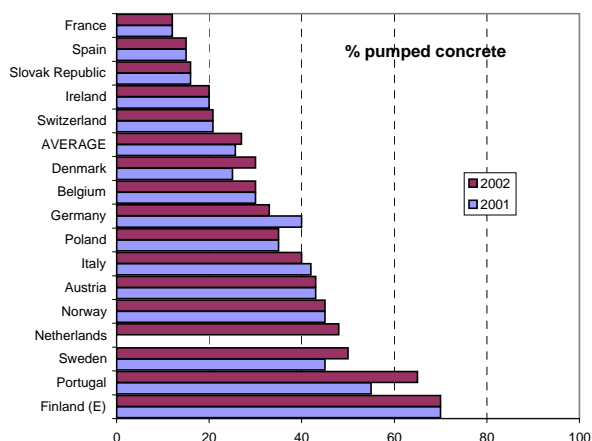
**Associated producers' plants by country**



**TABLE 4**  
**European Ready Mixed Concrete Organization**  
**Product development 2002/2001**

Country	Production $\times 10^6 m^3$			Method of Production % of total				Pumped Concrete % of total		Turnover including delivery, excluding tax - $\times 10^6 \text{ €}$			Average production per plant - $\times 10^3 m^3$		
	2001	2002	Change %	Static Mixing		Dry Batching		2001	2002	2001	2002	Change %	2001	2002	Change %
				2001	2002	2001	2002								
Austria	7.00	9.00	28.6	100	100	0	0	43	43	392	540	37.9	31.5	41.3	30.9
Belgium	6.00	5.50	-8.3	100	100	0	0	30	30	303	285	-5.9	57.1	52.4	-8.3
Czech Republic	-	4.17	-	-	94	-	6	-	-	-	220	-	-	22.4	-
Denmark	1.85	1.95	5.4	100	100	0	0	25	30	-	-	-	25.0	27.1	8.3
Finland (E)	2.10	2.10	0.0	100	100	0	0	70	70	163	163	0.0	21.9	21.9	0.0
France	25.90	26.91	3.9	100	100	0	0	12	12	2028	2088	3.0	22.7	22.4	-1.3
Germany	33.80	-	-	100	100	0	0	40	33	2132	-	-	24.7	-	-
Ireland	5.50	5.50	0.0	100	100	0	0	20	20	350	350	0.0	25.0	25.0	0.0
Italy	33.00	36.00	9.1	8	8	92	92	42	40	1910	2100	9.9	32.1	34.0	5.7
Netherlands	7.60	7.20	-5.3	98	98	2	2	-	48	510	540	5.9	53.1	51.4	-3.2
Norway	1.96	1.99	1.5	98	98	2	2	45	45	245	249	1.6	12.7	13.0	2.2
Poland	3.60	3.78	5.0	98.3	100	1.7	0	35	35	180	171	-5.0	21.2	21.1	-0.3
Portugal	9.30	8.90	-4.3	85	85	15	15	55	65	500	500	0.0	60.0	56.3	-6.1
Slovak Republic	0.69	0.61	-11.5	100	100	0	0	16	16	29	27	-5.6	20.2	17.4	-14.0
Spain	52.30	55.00	5.2	30	30	70	70	15	15	2200	2475	12.5	40.2	40.1	-0.2
Sweden	2.40	2.20	-8.3	100	100	0	0	45	50	220	210	-4.5	11.5	10.7	-7.4
Switzerland	9.89	9.10	-8.0	100	100	0	0	20.8	20.8	-	-	-	43.2	41.2	-4.7
Un.Kingdom (E)	22.52	22.52	0.0	25	25	75	75	5	5	1802	1802	0.0	21.7	21.7	0.0
<b>Total/Average</b>	<b>225.41</b>	<b>202.43</b>	<b>-10.2</b>	<b>62.1</b>	<b>55.4</b>	<b>37.9</b>	<b>44.6</b>	<b>25.64</b>	<b>24.81</b>	<b>12963</b>	<b>11720</b>	<b>-9.6</b>	<b>29.3</b>	<b>30.4</b>	<b>3.6</b>
Israel	6.30	6.00	-4.8	2.6	2	97.4	98	55	55	262	240	-8.4	34.6	33.3	-3.7
Turkey	18.00	19.10	6.1	75.5	77	24.5	23	75.5	76	474	458	-3.3	71.1	72.9	2.5
Russia	-	-	-	-	-	-	-	15	10	-	-	-	-	-	-
USA	205.00	198.00	-3.4	20	20	80	80	30	30	20000	20000	0.0	68.3	42.9	-37.3
Cuba	0.13	0.13	-0.8	0	0	100	100	15	8	0.88	0.49	-44.3	21.8	26.0	19.1

Legend: E = Estimated data



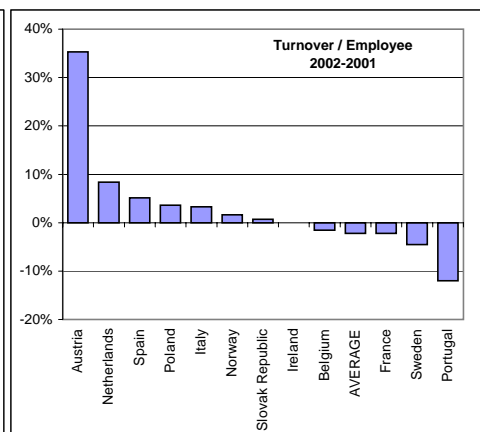
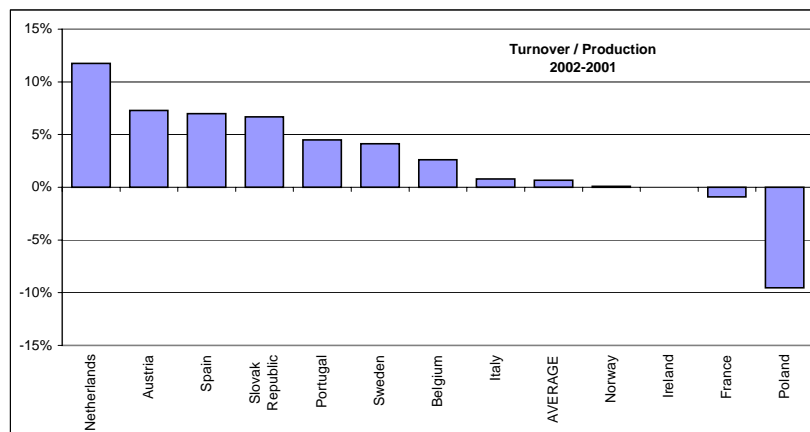


**TABLE 5**  
**European Ready Mixed Concrete Organization**  
**Sector Development 2002/2001**

Country	Production x10 <sup>6</sup> m <sup>3</sup>		Turnover including delivery, excluding tax - x 10 <sup>6</sup> €			Employees		Turnover / production €/ m <sup>3</sup>			Turnover / employees x10 <sup>3</sup> €/ employee		
	2001	2002	2001	2002	Change %	2000	2001	2001	2002	Change %	2001	2002	Change %
Austria	7	9	392	540	37.9	1814	1849	55.9	60.0	7.3	215.8	292.0	35.3
Belgium	6	5.5	303	285	-5.9	1780	1700	50.5	51.8	2.6	170.2	167.6	-1.5
Czech Republic	-	4.17	-	220	-	-	1488	-	52.8	-	-	147.8	-
Denmark	1.85	1.95	-	-	-	-	-	-	-	-	-	-	-
Finland (E)	2.1	2.1	163	163	0.0	750	750	77.6	77.6	0.0	217.3	217.3	0.0
France	25.9	26.91	2028	2088	3.0	5460	5748	78.3	77.6	-0.9	371.4	363.3	-2.2
Germany	33.8	-	2132	-	-	8412	-	63.1	-	-	253.4	-	-
Ireland	5.5	5.5	350	350	0.0	10000	10000	63.6	63.6	0.0	35.0	35.0	0.0
Italy	33	36	1910	2100	9.9	10800	11500	57.9	58.3	0.8	176.9	182.6	3.3
Netherlands	7.6	7.2	510	540	5.9	2150	2100	67.1	75.0	11.8	237.2	257.1	8.4
Norway	1.96	1.99	245	249	1.6	934	934	125.0	125.1	0.1	262.3	266.6	1.6
Poland	3.6	3.78	180	171	-5.0	1200	1100	50.0	45.2	-9.5	150.0	155.5	3.6
Portugal	9.3	8.9	500	500	0.0	1100	1250	53.8	56.2	4.5	454.5	400.0	-12.0
Slovak Republic	0.687	0.608	29	27	-5.6	304	285	41.8	44.6	6.7	94.4	95.1	0.7
Spain	52.3	55	2200	2475	12.5	12400	13270	42.1	45.0	7.0	177.4	186.5	5.1
Sweden	2.4	2.2	220	210	-4.5	1000	1000	91.7	95.5	4.1	220.0	210.0	-4.5
Switzerland	9.89	9.1	-	-	-	-	-	-	-	-	-	-	-
Un.Kingdom (E)	22.52	22.52	1802	1802	0.0	10000	10000	80.0	80.0	0.0	180.2	180.2	0.0
<b>Total/Average</b>	<b>225.41</b>	<b>202.43</b>	<b>12963</b>	<b>11720</b>	<b>-9.6</b>	<b>68104</b>	<b>62974</b>	<b>57.5</b>	<b>57.9</b>	<b>0.7</b>	<b>190.3</b>	<b>186.1</b>	<b>-2.2</b>
Israel	6.3	6	262	240	-8.4	800	750	41.6	40.0	-3.8	327.5	320.0	-2.3
Turkey	18	19.1	474	458	-3.3	7191	7290	26.3	24.0	-8.9	65.9	62.8	-4.6
Russia	-	-	-	-	-	-	-	-	-	-	-	-	-
USA	205	198	20000	20000	0.0	60000	72600	97.6	101.0	3.5	333.3	275.5	-17.4
Cuba	0.13	0.13	0.88	0.49	-44.3	345	454	6.7	3.8	-43.9	2.6	1.1	-57.7

Legend:

E = Estimated data



**TABLE 6**  
**European Ready-Mixed Concrete Organization**  
**Delivery method and vehicles 2002**

Country	Number of vehicles		Vehicles by capacity			Delivery method		
	2002	2001	%			Company vehicles	Outside Contractors	Customer Collection
			<6 m <sup>3</sup>	6-8 m <sup>3</sup>	>8 m <sup>3</sup>			
Austria	1502	1495	46	46	8	52	38	10
Belgium	0	-	0	60	40	60	15	25
Czech Republic	-	-	-	-	-	-	-	-
Denmark	-	-	30	68	2	98	0	2
Finland (E)	-	-	10	85	5	30	65	5
France	6000	6000	70	27	3	13	75	12
Germany	11015	12189	0	24	75	25	65	10
Ireland	650	650	5	20	75	30	65	5
Italy	16000	11300	-	-	-	41	59	-
Netherlands	1150	1200	1	21	78	89	9	2
Norway	708	-	7	74	19	29	70	1
Poland	2500	2500	50	35	15	45	45	10
Portugal	1650	1650	0	60	40	15	80	5
Slovak Republic	300	300	95	1	4	67	23	10
Spain	14700	-	-	-	-	-	-	-
Sweden	600	600	40	60	0	20	80	0
Switzerland	-	-	28	67	5	-	-	-
Turkey	2736	6000	0	86	14	71	28	1
Un.Kingdom (E)	6000	0	5	95	0	14	82	4
<b>Total/Average</b>	<b>65511</b>	<b>43884</b>	<b>20</b>	<b>46</b>	<b>33</b>	<b>33</b>	<b>62</b>	<b>5</b>
Cuba	155	2856	10	35	47	85	15	0
Israel	0	2000	0	45	65	25	75	0
Russia	3500	70000	75	15	10	-	-	-
USA	70000	160	5	80	15	94	5	1

Legend: E = Estimated data

# ERMCO

EUROPEAN READY MIXED CONCRETE ORGANIZATION  
ASSOCIATION EUROPEENNE DU BETON PRET A L'EMPLOI  
EUROPÄISCHER TRANSPORTBETONVERBAND

Rue Volta 8  
B 1050 Brussels

Tel: + 32 (2) 6455 212  
Fax: + 32 (2) 7351467  
e-mail: [secretariat@ermco.org](mailto:secretariat@ermco.org)