

















- 550 km³ water equivalent precipitation
 - 0.5% of global precipitation
 - 680 mm average precipitation
- 280 km³ evapotranspiration
 - 0.4% of global evapotranspiration
 - 9° C average annual $\pm 10^{\circ}$ C monthly variations
- 270 km³ river runoff
 - 0.7% of global run off
 - 6,400 m³ mean discharge per second
 - 19 million tons sediments
 - 60 million tons sediments dissolved



Danube Region Population Properties & Water Demand

- Some 90 million inhabitants
 - 1.5% of global population
 - < 100 per km²
 - < 600 l per day and person freshwater demand
- 20 km³ water for human uses
 - Less than 5% of precipitation
 - Less than 10% of river run-off
 - Seasonal distribution can be a problem
 - Drought in many areas of Danube river basin e.g. in 2000
 - Flood events in many areas of Danube river basin e.g. in 2002



Danube Region

- Danube Region includes
 - Mountainous landscapes
 - Coastal landscapes
 - Rural landscapes
 - Fluvial landscapes
- Water defines type of landscape
 - shape of water bodies
 - flows of water

















- Administrative levels
 - Danube Region, European Union;
 - European Water Directive
 - ICPDR coordinating office
 - Sub-riverbasins, National and Provincial/State Laws
 - Specification of European Water Directive
 - Municipalities
 - Landscape Convention (Council of Europe), Hot spots of EWD





• Science

- General laws criterion
- Arts
 - Uniqueness criterion
 - cultural heritage, individual expressions
- Influence on
 - administration
 - public opinion
 - development

Facts of E15 (Data 2000-03)												
EU 15 Countries	Area in km²	Population	Density km ²	Per caput inco. Per	ha income	BIP in 1,000,00	Share in BIP o					
Austria	83858	8098000	97	25220	24354	204232	2.48%					
Belgium	32545	10252000	315	24540	77303	251584	3.06%					
Danmark	43096	5340000	124	32280	39998	172375	2.09%					
Finnland	338144	5180000	15	25130	3850	130173	1.58%					
France	543965	58850000	108	24090	26062	1417697	17.22%					
Germany	357022	\$2150000	230	25120	57801	2063608	25.07%					
Greece	131957	10560000	80	11960	9571	126298	1.53%					
Great Britain	242910	59739000	246	24430	60081	1459424	17.73%					
Ireland	70273	3794000	54	22660	12234	85972	1.04%					
Italy	301336	57679000	191	20160	38588	1162809	14.12%					
Luxemburg	2586	438000	169	42060	71239	18422	0.22%					
Netherlands	41526	15919000	383	24970	95723	397497	4.83%					
Portugal	92345	10010000	108	11120	12054	111311	1.35%					
Sweden	449964	8869000	20	27140	5349	240705	2.92%					
Spain	504782	39450000	78	15080	11785	594906	7.23%					
Summe	3152451	368230000	117	0	0	\$232780.8	100.00%					

Facts of Danube Region

(Data 2000-03)

Danube Countries	Area in km²	Population	Density k	Per caputinc, in US\$ Pe	er ha income US(BIP	in 1,000,000 US\$ 5	hare in BIP
Austria	83858	\$098000	97	25220	24354	204232	7.28%
Bosnien-Herzegowina	51129	3923000	77	1230	944	4825	0.17%
Bulgaria	110994	8167000	74	1520	1118	12414	0.44%
Croatia	56542	4460000	79	4620	3644	20605	0.73%
Czech Republic	78866	10273000	130	5250	6839	53933	1.92%
Germany	357022	\$2150000	230	25120	57801	2063608	73.58%
Hungary	93030	10022000	108	4710	5074	47204	1.68%
Moldova	33800	4264000	126	400	505	1706	0.06%
Rumania	238391	22435000	94	1670	1572	37466	1.34%
Serbia and Crna Gora	102173	10616000	104	940	977	9979	0.36%
Slovakia	49034	5402000	110	3700	4076	19987	0.71%
Slovenia	20253	1988000	98	10050	9865	19979	0.71%
Switzerland	41285	7180000	174	38140	66330	273845	9.76%
Ukraine	603700	49600000	82	700	575	34720	1.24%
All Danube countries	1920077	228578000	119	0	0	2804503.85	100.00%
Source: Fischer Weltalmanach	2003; Data from 2000;	1					



11/26/2009

























Bird Flue Virus: Still alive?



























- Combine European water directive with European Landscape Convention to achieve more overall sustainability
 - Best practice approaches need frameworks for upscaling
 - Water directive has legal standing, basis for downscaling
 - Landscape convention has the "local level" that is needed to make an impact

