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INSIDE DATA

“WHERE IS WATER?” (MOVIE #2)

TIMING	DATA/CONCEPT	SOURCE
00:35	2.5% of all water on Earth is fresh	WWDR 2003, Page 67-68: “...only 2.5 percent as freshwater”
01:00-01:10	<ul style="list-style-type: none"> *68.1% of freshwater is in the form of ice *30.1% of freshwater is groundwater *1.2% of freshwater is surface water (rivers, lakes, ground moisture, atmospheric) 	<p>WWDR 2003, page 67-68: “.. Nearly 70 percent of this freshwater is considered to occur in the ice sheets and glaciers in the Antarctic, Greenland and in mountainous areas..”</p> <p>WWDR 2003, p68, table 4.1</p>
01:15	Map of global freshwater occurrence	<p>River and Groundwater Basins of the World (WHYMAP)</p> <p>http://www.whymap.org/whymap/EN/Downloads/Global_maps/whymap_ed2012_map.pdf;jsessionid=93FF3FBF16EB29651C5E143FF91B8753.1_cid284?__blob=publicationFile&v=2</p>
01:20	Most liquid freshwater is located underground	WWDR 2003, p68, table 4.1
01:30	Domestic use = 11% of all freshwater use	WWDR 2015, p39: “Domestic water accounts for almost 11% of freshwater withdrawals”
01:34	Industry = 19% of freshwater use	Facing the challenges, WWDR 2014, Data and Indicators Annex, p178, Indicator 6
01:37	Agriculture = 70% of freshwater use	<p>WWDR 2003, p193: “At the start of the twenty-first century, agriculture is using a global average of 70 percent of all water withdrawals from rivers, lakes and aquifers.”</p> <p>WWDR 2012, page 66: “... and abstraction for agriculture is as high as 70% globally...”</p>



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		Facing the challenges, WWDR 2014, Data and Indicators Annex, Indicator 6, p178
01:55	Green Water: explanation	WWDR 2009, p161: Green water is soil moisture generated from rainfall that infiltrates the soil and is available for uptake by plants and evapotranspiration.
02:05	Green Water accounts for most water used in agriculture	WWDR 2003, p203, Box 8.2: “Most water used by agriculture stems from rainfall stored in the soil profile and only about 15 percent of water for crops is provided through irrigation.”
02:10	Blue water: explanation	WWDR 2009, p161: Blue water is liquid water moving above and below the ground and includes surface water and groundwater.
02:20	Often irrigation techniques are not efficient	WWDR 2015, p11: “Practices like efficient irrigation techniques can have a dramatic impact on reducing water demand, especially in rural areas”. WWDR 2003, p203, Box 8.2: “On average, about 40 percent of water withdrawn from rivers, lakes and aquifers for agriculture effectively contributes to crop production, the remainder being lost to evaporation, deep infiltration or the growth of weeds.”
02:25	Industry is second-largest water user	WWDR 2012, Page 66
02:30	About 90% of all electricity generation is water intensive	WWDR 2014, Page 2: “Approximately 90% of global power generation is water intensive.”
02:35	Current water use in agriculture and industry is unsustainable	WWDR 2015, p48: “However, current growth rates of agricultural demands on the world’s freshwater resources are unsustainable.” WWDR 2012, Page 105: “Growth in agriculture and industry is currently reported to be the main cause of surface water and groundwater



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		<p>quality deterioration...”</p> <p>WWDR 2003, Page 227: “Industry..... By this approach, short- and medium-term economic gains have been mortgaged against long-term environmental harm and may ultimately be rendered unsustainable.”</p>
02:50	In developed countries each person uses about 300 liters per day	<p>The Use of Water Today (World Water Council), page 6</p> <p>http://www.worldwatercouncil.org/fileadmin/www/-Library/WWVision/-Chapter2.pdf</p>
02:53-04:10	<ul style="list-style-type: none"> *Dishes: up to 30l/d *Shower: up to 80l/d *Toilet flushing: 65 l/d *Laundry: up to 100 l/load *We consume up to 5.000 l/day *90% of our water consumption is invisible *Virtual water figures: 1 coffee: 145l 1 shirt: 2700l 500 sheets of paper: 1321l *Cow needs 8500 kg of wheat, corn, grain, roughage to reach maturity over 3yrs. This requires 3M60000l *24.000 l for drinking and 7.000l for farmhouse-transport-slaughter *3.1 million l for 200kg boneless beef = >5.000l for 300g steak 	<p>Book “Virtual Water: Tackling the Threat to Our Planet’s Most Precious Resource” by Tony Allan</p> <p>Website: Virtual Water by Angela Morelli http://www.angelamorelli.com/water/</p> <p>Website: Water Footprint Network http://waterfootprint.org/en/</p>
04:30	3billion do not have access to secure drinking water	<p>WWDR 2015, p54: “Some 748 million people lack access to an improved source of drinking water (WHO and UNICEF, 2014a), although the number of people whose right to water is not satisfied could be as high as 3 billion (Onda et al., 2012)”</p>