Feeding Ourselves Thirsty?

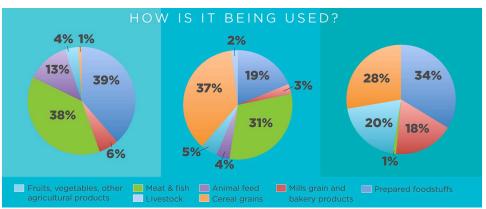
New data shows draining U.S. groundwater supplies could affect food security & food sector financial performance

Three of the **most tapped** aquifers in the U.S. irrigate many of the crops sold by the largest food companies



Source: http://news.illinois.edu/infographics/aquifers.html

Most of this groundwater goes to **cereal grains**, **meat & dairy** production, and **fruits & vegetables**. **93%** of groundwater depletion from 2000-2008 was from these 3 aquifers. Continued overuse will impact food security and pose financial risks to major food companies.



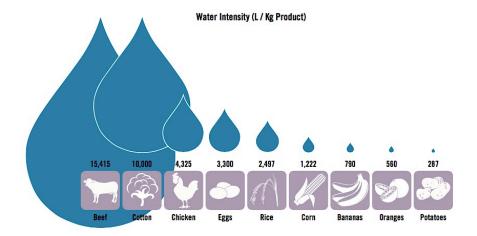
These food companies depend most on crops irrigated from the three aquifers:

California's Central Valley Aquifer	High Plains Aquifer	Mississippi Embayment Aquifer
Nestle: - Dairy Campbell Soup: - Tomatoes & Carrots Whitewave: - Almonds & Lettuce General Mills: - Tomatoes, Nuts & Dairy Dean Foods: - Dairy	Cargill: - Corn, Wheat & Beef Bunge: - Corn & Soy ADM: - Corn, Soy & Wheat JBS: - Beef & Corn Tyson: - Poultry & Corn Smithfield: - Pork & Corn	Tyson: - Poultry & Corn Kellogg's: - Rice

Ranking the nation's 37 largest food companies on how effectively they are managing precious freshwater supplies:

Agricultural Products		Packaged Food
Bunge (BG)	29	Unilever (UN)
Chiquita Brands (CQB)	20	Nestle SA (NSRGY)
Cargill (Private)	17	General Mills (GIS)
Archer-Daniels-Midland Co (ADM)	10	PepsiCo Inc. (PEP)
Fresh Del Monte (FDP)	7	Kellogg Co. (K)
Ingredion (INGR)	5	Campbell Soup (CPB)
Beverage		Mondelez International (MDLZ)
The Coca-Cola Company (KO)	67	ConAgra Foods Inc. (CAG)
Molson Coors Brewing Company (TAP)	44	Keurig Green Mountain (GMCR)
Brown-Forman Corporation (BF/B)	29	J.M. Smucker (SJM)
Constellation Brands (STZ)	24	Hershey (HSY)
Dr Pepper Snapple Group (DPS)	15	Mead Johnson (MJN)
Monster Beverage (MNST)	1	McCormick & Co. (MKC)
	_	Dean Foods (DF)
Meat	· ····································	Whitewave Food (WWAV)
Smithfield Foods (SFD)	33	Hain Celestial (HAIN)
JBS (JBSS3)	12	Kraft Foods Group (KRFT)
Hormel Foods Corp. (HRL)	11	Flowers Foods (FLO)
Tyson Foods (TSN)	8	Pinnacle Foods (PF)
Perdue Farms Inc. (Private)	9	Companies scored on a 0-100 p

Ceres' 2015 Food and Beverage benchmarking report scored companies on a 1-to-100-point scale on their responses in **anticipating and mitigating these risks**, with the highest score being Unilever with 70 points, the lowest being Monster Beverage and Pinnacle Foods, with just one point each.



On average, 10 liters of water are needed to produce one calorie of meat; 1.2 liters are needed for one calorie of lentils or beans, and half a liter for one calorie of root vegetables such as carrots.

For more information

Ceres' Food and Beverage Benchmarking Report: www.ceres.org/FoodWaterRisk University of Illinois Study: http://go.illinois.edu/aquiferstudy