

## The US subsidies to rice

June 5, 2012



Jacques BERTHELOT  
Agricultural policies analyst  
Tel : +33(0)5.61.41.29.06 / (0)6.78.70.01.44  
jacques.berthelot4@wanadoo.fr

www.solidarite.asso.fr Head office : Tel : +33(0)1.48.78.33.26  
20 rue de Rochechouart 75009 Paris - FRANCE

The table 1 shows the US official subsidies going to rice, with the prevailing importance of decoupled aids from 2004 and even more from 2008 when coupled subsidies – detailed in table 2 – disappeared. The subsidies to insurance premium are about ten times lower than the fixed direct payments. Even if direct payments are not linked to the actual planted acreage but to base acres, farmers growing rice receive fixed direct payments averaging \$234.7 per enrolled hectare compared to \$59.30 for corn, \$27.18 for soybeans, \$37.06 for wheat and \$84.01 for cotton<sup>1</sup>.

Table 1 – US rice: coupled aid, insurance aid, decoupled aid and price from 2000 to 2010

\$1000 and \$/tonne	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Production: 1000 t	5941	6764	6457	6419	7463	7103	6267	6344	6514	7133	7554
Coupled aid	1401	1043	698	1065	400	151	189	54			
Insurance aid	9,1	13,4	12,5	11,5	14,2	13,9	14,7	17,2	22,8	41,6	50,1
Decoupled aid	431	353	343	311	427	424	402	318	402	417	418
Total aids	1841,1	1409,4	1053,5	1387,5	841,2	588,9	605,7	389,2	424,8	458,6	468,1
Coupled aid/tonne	235,8	154,2	108,1	165,9	53,6	212,6	30,2	8,5			
Insurance aid/tonne	1,5	2	1,9	1,8	1,9	2	2,3	2,7	3,5	5,8	6,6
Decoupled aid/t	72,5	52,2	53,1	48,5	57,2	59,7	64,1	50,1	61,7	58,5	55,3
Total aids/tonne	309,8	208,4	163,1	216,2	112,7	274,3	96,6	61,3	65,2	64,3	61,9
Price	123,7	93,7	99	178,1	161,6	168,7	219,6	282,2	370,4	312	275,6
Aid per tonne/price	250,4%	222,4%	164,7%	121,4%	69,7%	162,6%	44%	21,7%	17,6%	20,6%	22,5%

Source: USDA

Table 2 shows the detailed coupled aids to rice: the market loss assistance payments (MLAP) were authorized by emergency legislations from 1998 to 2001 and replaced by the counter-cyclical payments (CCP) from 2002 on and the various types of marketing loan benefits: loan deficiency payments (LDP), marketing loan gains (MLG) and certificate exchange gains (CEG).

Table 2 –The detailed coupled aids to rice from 2000 to 2010

\$ million	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
MLAP	927,8	398,2			-2	2					
CCP				318,3	124	10,6	85,6	54,1			
LDP	277,8	308,3	279,6	291,9	202,1	45,3	49,3				
MLG			199,7	136,4	76,2	50,6	41				
CEG	195	336	218,2	318,6	106,7	42,2	13,1				
Sub-total 1	1401	1043	698	1065	400	151	189	54			
Insurance premium	9,1	13,4	12,5	11,5	14,2	13,9	14,7	17,2	22,8	41,6	50,1
Total	1409,7	1055,9	710	1076,7	414,5	164,6	203,7	71,3	22,8	41,6	50,1

Source: USDA

However, the preceding tables do not take into account the input subsidies to rice, and particularly the hugely under-notified irrigation subsidies. The US rice needs around 3.6 acre-feet of irrigation water per acre<sup>2</sup>. Most sources estimate that the US subsidies to irrigation are

<sup>1</sup> <http://extension.missouri.edu/news/DisplayStory.aspx?N=1154>

<sup>2</sup> <http://www.calrice.org/Environment/Balance+Sheet/Chapter+2++Water+Supply.htm>;  
<http://www.sacbee.com/2012/05/20/v-print/4500777/stuart-leavenworth-rice-country.html>;  
<http://www.wrri.msstate.edu/pdf/powers07.pdf>

of at least \$2 billion<sup>3</sup>. Given the 91,956,721 total acre-feet of applied irrigation water in 2008, this implies an average subsidy of \$21.7 per acre-foot. As the irrigated rice accounted for 2,683,363 acres in the irrigation census of 2008 (against 2,994,757 in the 2003 census), this implies 9,660,106 acre-feet of water and total irrigation subsidies to rice of \$210 million. It is an estimate all the more conservative that we do not include the energy subsidies required to transfer or pump water: "*Users of federally supplied irrigation water with access to this cheap power are getting a double subsidy and are receiving a distorted price signal about the value of that energy. For the Central Valley Project, energy charges vary widely from contractor to contractor. A charge of 1 cent per kWh—which a Central Valley Project representative estimated was the average for the project—is equivalent to \$10 per MWh. In comparison to market rate, California has long-term energy contracts for \$86 per MWh. It is difficult to calculate the full value of the subsidies given to users of federally supplied irrigation water. This difficulty helps keep the energy costs of water systems buried. Many California farmers still pay the government \$2 to \$20 per acre-foot for water, which represents as little as 10 percent of the “full cost” of the water, although some farmers are paying more as contracts are revised (e.g., \$35 per acre-foot)*"<sup>4</sup>.

Besides, we do not take into account the other input subsidies: to agricultural fuel, agricultural loans and the components of crop insurance subsidies other than to premium (payments to private insurance companies –reimbursements to deliver the policies and payments of underwriting gains – and administrative expenses of the Risk Management Agency).

Taking into account the irrigation subsidies table 3 shows that the dumping rate – measured as the ratio of subsidies to the exported rice to its export value – reached an average of 44.5% from 2000 to 2010 but within a fast decreasing trend.

Table 3 – Total subsidies to US rice and dumping rate from 2000 to 2010

\$million and \$/t	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average
Production: 1000 t	5941	6764	6457	6419	7463	7103	6267	6344	6514	7133	7554	6724
Total official aids	1841,1	1409,4	1053,5	1387,5	841,2	588,9	605,7	389,2	424,8	458,6	468,1	861
Irrigation subsidies	210	210	210	210	210	210	210	210	210	210	210	210
Total rice subsidies	2051,1	1619,4	1263,5	1597,5	1051,2	798,9	815,7	599,2	634,8	668,6	678,1	1071
Total aids/tonne	345	239,4	195,7	248,9	140,9	139,2	130,2	94,5	97,5	93,7	89,8	165
Price	123,7	93,7	99	178,1	161,6	168,7	219,6	282,2	370,4	312	275,6	207,7
Aid per tonne/price	278,9%	255,5%	197,7%	139,8%	87,2%	82,5%	59,3%	33,5%	26,3%	30,0%	32,6%	79,4%
Exports: 1000 tons	3150	2951	3822	4488	3531	4433	3849	3495	4655	3460	4501	3849
% of rice exports	53,0%	43,6%	59,2%	69,9%	47,3%	62,4%	61,4%	55,1%	71,5%	48,5%	59,6%	57,2%
Export subsidies	1087	706	748	1117	498	617	501	330	454	324	404	617
Exports value	836	717	775	1031	1169	1291	1285	1396	2214	2186	2354	1387
Dumping rate	130%	98,5%	96,5%	108,3%	42,6%	47,8%	39,0%	23,6%	20,5%	14,8%	17,2%	44,5%

Source: USDA

Table 4 shows the dumping rate of US rice exports to the Philippines as an example, given the present US pressures on the Philippines' government to get rid of its quota on rice imports.

Table 4 – US rice exports to the Philippines and dumping rate from 2000 to 2010

\$1,000	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average
1000 tons	94,9	100,9	43,2	117,4	21,4	52,6	67,3	33,5	118,8	4,9	15,4	60,9
Export subsidies	32741	24155	8454	29221	3015	7322	8762	3166	11583	459	1383	11842
Export value	25350	28241	9215	36732	7504	17885	19961	15135	64696	2795	8761	21480
Dumping rate	129,2%	85,5%	91,7%	79,6%	40,2%	40,9%	43,9%	20,9%	17,9%	16,4%	15,8%	55,1%

Source: Comtrade

<sup>3</sup> <http://wingolog.org/writings/water/html/node89.html>; <http://www.perc.org/articles/article756.php>;

<http://archive.ewg.org/reports/Watersubsidies/execsumm.php>;

[http://www.newamerica.net/publications/articles/2003/the\\_new\\_continental\\_divide](http://www.newamerica.net/publications/articles/2003/the_new_continental_divide);

<sup>4</sup> <http://www.nrdc.org/water/conservation/edrain/edrain.pdf>