



Erratum for “Using Stochastic Dynamic Programming to Support Water Resources Management in the Ziya River Basin, China” by Claus Davidsen, Silvio J. Pereira-Cardenal, Suxia Liu, Xingguo Mo, Dan Rosbjerg, and Peter Bauer-Gottwein

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Some units in Table 1 were inadvertently changed during composition from Mm^3 to mm^3 . Table 1 with the correct units appears next. ASCE regrets the error.

Table 1. Model Input Data including Water Demands, Water Values, and Reservoir Properties

Input data	Value	Unit	Source
Industrial water demands			
Hai River basin	6.6	$km^3/year$	Berkoff (2003)
Area of Hai River basin	318,866	km^2	Moiwo et al. (2009)
Area of Ziya River basin	52,299	km^2	—
Area upstream reservoirs	26,048	km^2	—
Total water demand ^a	1,083	$Mm^3/year$	—
Downstream demand ^a	543	$Mm^3/year$	—
Upstream demand ^a	539	$Mm^3/year$	—
Industrial water values, curtailment costs			
Urban ^b	6.4	CNY/m^3	World Bank (2001)
Rural ^b	4.3	CNY/m^3	World Bank (2001)
Average	5.3	CNY/m^3	—
Domestic water demands			
Hebei Province	123	$l/person/day$	NBSC (2011)
Shanxi Province	106	$l/person/day$	NBSC (2011)
Total population inside basin	25.0	M people	Bright et al. (2008)
Upstream population	5.8	M people	Bright et al. (2008)
Downstream demand	864	$Mm^3/year$	—
Upstream demand	223	$Mm^3/year$	—
Water demand Beijing ^c	1,000	$Mm^3/year$	Ivanova (2011)
Domestic water values (curtailment costs)			
Urban ^b	3.2	CNY/m^3	World Bank (2001)
Rural ^b	3.2	CNY/m^3	World Bank (2001)
Average	3.2	CNY/m^3	—
Curtailment cost Beijing ^b	5.5	CNY/m^3	Berkoff (2003)
South-North Transfer Project, middle route			
Inflow from Yangtze	9,500	$Mm^3/year$	Water-technology.net (2013)
Water demand 100 cities	7,400	$Mm^3/year$	Wang and Ma (1999)
Arable land on the NCP	179,500	km^2	Liu et al. (2011)
Water for NCP users in Ziya ^d	1,307	$Mm^3/year$	—

Table 1. (Continued.)

Input data	Value	Unit	Source
Ecosystem water demand			
Minimum diversion ^e	100	Mm ³ /year	—
Reservoir storage			
Dongwushi	152	Mm ³	HWCC (2012)
Gangnan	1,570	Mm ³	HWCC (2012)
Huangbizhuang	1,210	Mm ³	HWCC (2012)
Lincheng	180	Mm ³	HWCC (2012)
Zhuzhuang	436	Mm ³	HWCC (2012)
Aggregated reservoir storage	3,548	Mm ³	—
Hydropower production			
Maximum turbine capacity ^f	1,500	Mm ³ /month	HEBWP (2013)
Electricity price ^b	0.40	CNY/kWh	China Daily (2012)
Installed turbine capacity	69	MW	Aggregate ^h
Hydropower benefits ^g	0.036	CNY/m ³	—

Note: All prices have been converted to 2005 CNY with the consumer price index based on World DataBank (2013).

^aDemands scaled with the areas.

^bConverted to 2005 prices.

^cBased on plan described by the People's Government of Hebei Province (2012).

^dRemaining SNWTP water distributed evenly to NCP arable land and scaled to the downstream Ziya River basin.

^eEstimated demand of Baiyangdian Lake based on Honge (2006). Model ecosystem diversions fixed to July.

^fCapacities from Huangbizhuang, Zhuzhuang, and Dongwushi Reservoirs scaled to the remaining reservoirs.

^gEstimated from maximum production, maximum turbine capacity, and current electricity price.

^hFrom HEBWP (2013), HWCC (2013), Baidu Encyclopedia (2012, 2013a, b).