Table S1 E-flows documents in China

No.	Title	Promulgator	Document Number	Promulgation Date	Relevant Sections
1	Opinions of the CPC Central Committee and the State Council on Accelerating the Ecological Civilization Construction	The Communist Party of China (CPC) Central Committee and the State Council		2015-04-25	
2	Integrated Reform Plan for Promoting Ecological Progress	The Communist Party of China (CPC) Central Committee and the State Council		2015-09-21	
3	General Office of the State Council on the Issuing Notice on Construction of Ecological Environmental Monitoring Network	General Office of the State Council of the People's Republic of China	〔2015〕No.56, Document of General Office of the State Council	2015-08-12	
4	Chinese State Council. Advice on applying the strictest water resources management system	the State Council of the People's Republic of China	〔2012〕No.3, Document of State Council	2012-01-12	
5	Decision of Speeding Up Water Conservancy Reform and Development	The Communist Party of China (CPC) Central Committee and the State Council	〔2011〕No.1, Document of the Central Committee of the Communist Party of China (CPC)	2010-12-31	
6	Action Plan for Prevention and Control of Water Pollution	the State Council of the People's Republic of China	〔2015〕No.17, Document of State Council	2015-04-16	
7	the 13th Five-Year Plan for National Eco-Environmental Conservation	the State Council of the People's Republic of China	〔2016〕No. 65, Document of State Council	2016-12-05	
8	Water Law of the People's Republic of China (2016Amendment)	Standing Committee of The National People's Congress	Order of the Chairman of the People's Republic of China (No.48)	2016-07-02	Article 4 Article 21 Article 22 Article 26 Article 30
9	Law of the People's	Standing		2008-02-28	Article 16

	Republic of China on Prevention and Control of Water Pollution	Committee of The National People's Congress			
10	The Ordinance on Administrative of Water Drawing Permission and Collection of Water Resource Fees	the State Council of the People's Republic of China	Order No.460 of the State Council	2017-03-01	Article 11
11	Regulations on Water Regulation of the Yellow River	the State Council of the People's Republic of China	Order No.472 of the State Council	2006-07-05	Article 3 Article 8
12	the 13th Five-Year Plan for Water conservancy reform and development	National Development and Reform Commission, Ministry of Water Resources, Ministry of Housing and Urban-Rural development		2016-12-23	
13	Interim measures for Reviewing River Hydropower Plan Report and Plan Environmental Impact Assessment Report	National Development and Reform Commission, Ministry of Environmental Protection	〔2011〕No.2242, Document of National Development and Reform Commission/Energy	2011-10-18	Article 3 Article 8
14	Ecological Indicator System and Application Guidance for Water Project Planning and Design	Ministry of Water Resources	〔2011〕No.248, Document of Water Resources and Hydropower Planning and Design General Institute	2010-03-24	Two indicators: Ecological basic flow and ecological water demand for sensitive targets
15	Guiding Opinions on River Ecological Restoration of Rural Hydropower Efficiency Improvements and	Ministry of Water Resources	〔2016〕No.60, Document of Ministry of Water Resources/ Bureau of Hydropower	2016-02-22	

16	Capacity Additions The Measure on Administrative of Water Drawing Permission	Ministry of Water Resources	Order No.34 of Ministry of Water Resources	2008-4-09	Article 8
17	The Measures on Operation of Three Gorges Reservoir and the Management of the Water Resources and Rivers in the Reservoir	Ministry of Water Resources	Order No.35 of Ministry of Water Resources	2008-11-03	Article 13
18	The Measures on Water Resources Assessment of Construction Project	Ministry of Water Resources	Order No.15 of Ministry of Water Resources and National Development and Reform Commission	2002-3-24	Article 3
19	Notice on Enhancing Environmental Protection of Hydropower Construction	National Development and Reform Commission, Ministry of Environmental Protection	〔2005〕No.13, Document of State Environmental Protection Administration	2005-01-20	
20	Technical Guide for Environmental Impact Assessment of River Ecological Flow, Cold Water, and Fish Passage Facilities for Water Conservation Construction Projects (Trial)	State Environmental Protection Administration	〔2006〕No.4, Letter of Department of Environment Impact Assessment	2006-01-13	
21	Notice on Further Enhancing Environmental Protection of Hydropower Construction	Ministry of Environmental Protection	〔2012〕No.4, Document of General Office of Ministry of Environmental Protection	2012-01-10	
22	Notice on Deepening Implementation of Ecological Environmental Protection for	Ministry of Environmental Protection, National Energy Administration	〔2014〕No.65, Document of Ministry of Environmental Protection	2014-05-10	

23	Hydropower Development Technical Review Essentials of River Hydropower Plan Environmental Impact Assessment Report	Ministry of Environmental Protection	〔2014〕No.81, Document of Appraisal Center for Environment and Engineering	2014-07-07	
24	Technological Principle and Methods for Enactment of Local Water Pollutant Emission Standard	Ministry of Urban-Rural Development and Environmental Protection	GB 3839-83	1983-04-09	2.5
25	Code of Practice for Computation on Allowable Permitted Assimilative Capacity of Water Bodies	General Administration of Quality Supervision, Inspection and Quarantine; Standardization Administration	GB/T 25173-2010	2010-09-26	
26	Specification for Calculation of Environmental Flow in Rivers and Lakes	Ministry of Water Resources	SL/Z 712-2014	2014-12-05	
27	Guidelines for Assessment of Rivers and Lakes Eco-Water Demands	Ministry of Water Resources	SL/Z 479-2010	2010-10-11	
28	Code for River Basin Planning	Ministry of Water Resources	SL 201-2015	2015-01-05	7.1.3 11.0.3 11.0.4 15.1
29	Regulation for Environmental Impact Assessment of River Basin Planning	Ministry of Water Resources	SL 45-2006	2006-10-23	6.3.4 Appendix C
30	Specification on Compiling Hydropower Development Planning of Medium and Small Rivers	Ministry of Water Resources	SL 221-2009	2009-12-21	8.0.6
31	Code of Practice for	Ministry of Water	SL 613-2013	2013-08-08	9.2

	Water Resources Protection Planning	Resources			
32	Guidelines for Aquatic Ecological Protection and Restoration Planning	Ministry of Water Resources	SL 709-2015	2015-06-02	5.1 5.2 5.3 5.4
33	The Guidelines for Water Resources Assessment of Construction Projects	Ministry of Water Resources	SL 322-2013	2013-12-05	6.2.4 9.2.2 9.2.5
34	Guidelines for Assessment of Water-Draw and Utilization in Construction Projects of Water Resources and Hydropower	Ministry of Water Resources	SL 525-2011	2011-02-17	5.2.2 5.3.1 6.2.3 7.1.3 7.1.5 7.2.4 7.4.1
35	Specification for Compiling Preliminary Design Report of Water Resources and Hydropower Projects	Ministry of Water Resources	SL 619-2013	2013-11-20	11.2.1 11.3.1
36	Regulation for Environment Protection Design of Water Resources and Hydropower Project	Ministry of Water Resources	SL 492-2011	2011-01-25	2.1
37	Environmental Impact Assessment Code Hydroelectric Station Project for Rural Area	Ministry of Water Resources	SL 315-2005	2005-05-20	5.2.3 6.2.1
38	Guidelines for Post Environmental Impact Assessment of Water Project	Ministry of Water Resources	SL/Z 705-2015	2015-03-16	
39	Standard for Evaluation of Green Small Hydropower Stations	Ministry of Water Resources	SL 752-2017	2017-05-05	4.2.2 5.1.2 Appendix B
40	Technical Specification for The Analysis of Supply and Demand Balance of Water Resources	Ministry of Water Resources	SL 429-2008	2008-07-22	3.3.2 4.4.1 5.7.1 5.7.2 5.7.3 5.8.1

					5.8.2 7.1.6
41	Code of Practice for Computation on Permissible Pollution Bearing Capacity of Water Bodies	Ministry of Water Resources	SL 348-2006	2006-10-23	4.4.1 4.4.4
42	Code for Post Assessment of Environmental Impacts of River Hydropower Development	National Energy Administration	NB/T 35059-2015	2015-10-27	4.3.2 5.2.3 5.2.4 5.3.4
43	Specification on Compiling Hydropower Planning of River	National Energy Administration	DL/T 5042-2010	2010-08-27	10.1.2 10.4.1 10.5.3
44	Specification for Environmental Protection Design of Water Conservancy and Hydropower Project	National Development and Reform Commission	DL/T 5402-2007	2007-12-03	12
45	Code for Environmental Impact Assessment of Water Conservancy and Hydropower Project	State Environmental Protection Administration, Ministry of Water Resources	HJ/T 88-2003	2003-03-28	6.2.5
46	Comprehensive implementation of River Chiefs in Chongqing	Chongqing Municipal People's Government	（2017）No.11, Document of General Office of Chongqing Municipal People's Government	2017-03-16	Prevent ecological basic flow from decreasing.
47	Measures of Rural Hydropower in Zhejiang	Department of Water Resources of Zhejiang Province	（2016）No.5, Document of Bureau of Hydropower, Department of Water Resources of Zhejiang Province	2016-11-18	Article 7 Article 21
48	Notice on Minimum Flow Discharge of Hydroplants	Department of Water Resources of Henan Province	（2015）No.3, Document of Bureau of Hydropower, Department of Water Resources of Henan Province	2015-04-18	

49	Regulation of Fujian Province of River Basin Water Environment Protection	Standing Committee of Fujian People's Congress		2012-02-01	Article 17 Article 47
50	Measures of Guangdong Province for Small Hydropower	People's Government of Guangdong Province	Order No.152 of the People's Government of Guangdong Province	2010-11-16	Article 20 Article 34
51	Regulation of Gansu for Shiyanghe River Basin Water Resources Management	Standing Committee of Gansu People's Congress	No.52 of Standing Committee of Gansu People's Congress	2007-07-27	Article 9

Table S2 E-flows of Hydropower Projects

(Approval by Ministry of Environmental Protection from 2001 to 2017)

No.	Name	Time	Province	Installed Capacity (MW)	Basin	River	E-Flows (m^3/s)
1	Xiaoxia	2001	Gansu	230	Yellow River	Yellow River	null
2	Jilintai Ⅰ	2001	Xinjiang	460	Yili River	Kashi River	null
3	Suofengying	2002	Guizhou	600	Yangtze River	Wu River	null
4	Laxiwa	2002	Qinghai	4200	Yellow River	Yellow River	null
5	Xihe	2002	Shaanxi	180	Hanjiang River	Hanjiang River	80
6	Suzhi	2002	Qinghai	214.5	Yellow River	Yellow River	150
7	Pubugou	2003	Sichuan	3300	Yangtze River	Daduhe River	3
8	Liziping	2003	Sichuan	132	Daduhe River	Nanyahe River	1.5
9	Tankeng	2003	Zhejiang	600	Oujiang River	Oujiang river Tributary	4
10	Yele	2004	Sichuan	240	Daduhe River	Nanyahe River	1.5
11	Jinping Ⅰ	2004	Sichuan	3600	Yalongjiang River	Yalongjiang River	20
12	Shawan	2004	Sichuan	480	Daduhe River	Nanyahe River	15
13	Sigouxia	2004	Gansu	240	Yellow River	Yellow River	166
14	Yinping	2004	Sichuan	100	Yangtze River	Fujiang River	1.5
15	Guazhi	2004	Guizhou	150	Yangtze River	Qingshuijiang River	83
16	Pengshui	2004	Chongqing	1750	Wujiang River	Wujiang River	280
17	Zhexi	2004	Hunan	500	Yangtze River	Zishui River	100
18	Jishixia	2004	Qinghai	1020	Yellow River	Yellow River	288.1
19	Shuhe	2004	Shaanxi	270	Hanjiang River	Hanjiang River	120

20	Xiluodu	2004	Sichuan	12600	Jinshajiang River	Jinshajiang River	1181
21	Baoxing	2004	Sichuan	195	Baoxinghe River	Donghe River	3m^3/s in low-flow period, 4m^3/s in normal-water period
22	Jinping Ⅱ	2004	Sichuan	4800	Yangtze River	Yalongjiang River	45
23	Nuozhadu	2004	Yunnan	5850	Lancangjiang River	Lancangjiang River	500
24	Jinanqiao	2005	Yunnan	2400	Jinshajiang River	Jinshajiang River	350
25	Baishi	2005	Guizhou	420	Yangtze River	Qingshuijiang River	75.4
26	Chahanwusu	2005	Xinjiang	309	Kaiduhe River	Kaiduhe River	43.5
27	Shannipo	2005	Guizhou	185.5	Zhujiang River	Beipanjiang River	6
28	Pinghe	2005	Hubei	450	Lishui River	Loushui River	5.33
29	Guandi	2005	Sichuan	2400	Yangtze River	Yalongjiang River	200
30	Pankou	2005	Hubei	500	Hanjiang River	Duhe River	16.7
31	Silin	2005	Guizhou	105	Yangtze River	Wujiang river	195.59
32	Longtoushi	2005	Sichuan	700	Minjiang River	Daduhe River	165.4
33	Qiaogong	2005	Guangxi	456	Zhujiang River	Hongshuihe River	400
34	Shenxigou	2005	Sichuan	660	Yangtze River	Daduhe River	327
35	Nansha	2005	Yunnan	150	Honghe River	Honghe River	20
36	Wujinxia	2005	Gansu	140	Yellow River	Yellow River	228
37	Xiangjiaba	2005	Sichuan	6000	Jinshajiang River	Jinshajiang River	1200
38	Laohuzui	2006	Xizang	102	Niyang River	Bahe River	9
39	Huangfeng	2006	Qinghai	225	Yellow River	Yellow River	200

40	Tuokou	2006	Hunan	800	Yangtze River	Yuanshui River	54
41	Jiangbian	2006	Sichuan	330	Yalong River	Jiulonghe River	2.41m^3/s in Non-fish spawning period (July to next Feb.), 2.41m^3/s in fish spawning period (Mar. to June), maintaining 6 m^3/s for 10 days in March and April, and 11m^3/s for 10 days in May and June.
42	Dayingjiang	2006	Yunnan	700	Yiluowadi Jiang	Dayingjiang River	24.5
43	Shatuo	2006	Guizhou	112	Wujiang River	Wujiang River	228 m^3/s in normal period, 224.49 m^3/s at every1: 00-8: 00 in low flow period and normal-water period
44	Dagangshan	2006	Sichuan	2600	Dadu River	Dadu River	Null
45	Luding	2006	Sichuan	920	Yangtze River	Daduhe River	184
46	Madushan	2006	Yunnan	300	Honghe River	Honghe River	30.2
47	Changheba	2006	Sichuan	2600	Daduhe River	Daduhe River	166.5
48	Gongguoqiao	2006	Yunnan	900	Lancangjiang River	Lancangjiang River	150
49	Yinpan	2006	Chongqing	600	Yangtze River	Wujiang River	345

50	Mao'ergai	2007	Sichuan	420	Minjiang River	Heishuihe River	5.2
51	Hekou	2007	Gansu	74	Yellow River	Longqing he River	300
52	Dongjing	2007	Guizhou	880	Zhujiang River	Beipanjian g River	89.2
53	Dahua	2007	Guangxi	110	Zhujiang River	Hongshui he River	1130
54	Xiaoxuan	2008	Hubei	50	Yangtze River	Duhe River	16.7
55	Linxihe	2008	Hubei	170	Yangtze River	Loushui River	8.65
56	Lizhou	2008	Sichuan	351	Yalong River	Mulihe River	6.55
57	Kajiwa	2008	Sichuan	452.4	Yalong River	Mulihe River	5.1
58	Huangjinpi ng	2009	Sichuan	850	Minjiang River	Daduhe River	84
59	A'hai	2009	Yunnan	2000	Yangtze River	Jinsha River	While Jin'anqiao Reservoir starts reserved reservoir, and water level falls below 1,410 meters, for downstream ecological flow demand, power generation of a'hai shouldn't be less than 200MW (ecological flow equals the generation flow 286 m^3/s).

60	Ludila	2009	Yunnan	2160	Yangtze River	Jinshajiang River	400
61	Houziyan	2009	Sichuan	1700	Daduhe River	Daduhe River	38.7
62	Longkaikou	2009	Yunnan	1800	Yangtze River	Jinshajiang River	380
63	Guanyinyan	2009	Yunnan	3000	Jinshajiang River	Jinshajiang River	350
64	An'gu	2009	Sichuan	680	Yangtze River	Daduhe River	150
65	Liyuan	2010	Yunnan	2400	Jinshajiang River	Jinshajiang River	300
66	Lidi	2010	Yunnan	420	Lancangjiang River	Lancangjiang River	145
67	Zhenyoubai	2011	Sichuan	720	Yangtze River	Daduhe River	327
68	Shaping Ⅱ	2011	Sichuan	348	Yangtze River	Daduhe River	345
69	Jinghong	2011	Yunnan	1750	Lancangjiang River	Lancangjiang River	504
70	Xunyang	2011	Shaanxi	320	Hanjiang River	Hanjiang River	190
71	Fengman	2011	Jilin	14800	Songhuajiang River	Songhuajiang River	161
72	Miaowei	2011	Yunnan	1400	Lancangjiang River	Lancangjiang River	Since the downstream connects the backwater of the downstream reservoir Gongguoqiao, there's no need to discharge ecological flow.
73	Mamaya Ⅰ	2011	Guizhou	558	Beipanjiang River	Beipanjiang River	31
74	Xinji	2011	Hubei	120	Hanjiang River	Hanjiang River	300
75	Shuangjiangkou	2012	Sichuan	2000	Minjiang River	Daduhe River	121

76	Huangdeng	2012	Yunnan	1900	Lancangjiang River	Lancangjiang River	165
77	Duobu	2012	Xizang	120	YarluZangbu River	Niyanghe River	No peak load regulation in Nov. to next Sept. while inflow is less than 80m^3/s, ecological flow equals inflow, discharged through ecological flow gate. 25.8m^3/s (10% of annual average flow) in Mar. and July to Dec., 30% of annual average flow in flow spawning period (Jan., Feb. and Apr. to June)
78	Daheigong	2013	Yunnan	240	Honghe River	Honghe River	
79	Jinggangshan	2013	Jiangxi	133	Yangtze River	Ganjiang River	202
80	Baihe(Jiahe)	2013	Shanxi	180	Hanjiang River	Hanjiang River	120m^3/s in Nov. to next Apr. 201.3 m^3/s in May to Oct.
81	Wunonglong	2013	Yunnan	990	Lancangjiang River	Lancangjiang River	No ecological flow discharge in normal period,

82	Lianghekou	2013	Sichuan	3000	Jinshajiang River	Yalongjiang River	127m^3/s in unnormal period. Minimum flow is 94 m^3/s. in fish spawning period, discharge 233 m^3/s peak flow in June and July, and 200 m^3/s peak flow in Aug, and Sept.
83	Jinchuan	2013	Sichuan	860	Daduhe River	Daduhe River	130
84	Dayingjiang Ⅳ	2013	Yunnan	175	Dayingjiang River	Dayingjiang River	>26.1 m^3/s in fish growth period (June to the next Mar.), >51.7 m^3/s in fish breeding period (Apr. and May).
85	Dahuaqiao	2013	Yunnan	920	Lancangjiang River	Lancangjiang River	244
86	Yangfanggou	2013	Sichuan	1500	Yalong River	Yalong River	>145m^3/s in normal period, 179.2m^3/s in special period (May and June).
87	Xiasajiang first-class	2014	Yunnan	270	Honehe River	Honghe River	>28 m^3/s in Apr, to July, 22 m^3/s in Aug. to the next Mar., ecological flow equals inflow while

							inflow is less than ecological flow.
88	Yingliangbao	2014	Sichuan	1116	Daduhe River	Daduhe River	>134.7 m^3/s in normal period, >269.4 m^3/s peak flow in fish spawning period (mid-Mar. to late Apr., *Schizothorax prenanti*, late July to mid-Sept., *Schizothorax davidi*)
89	Baihetan	2014	Sichuan Yunnan	16000	Jinshajiang River	Jinshajiang River	>1160m^3/s in normal period, >1260 m^3/s in fish spawning period (Mar. to July).
90	Wudongde	2015	Sichuan Yunnan	10200	Jinshajiang River	Jinshajiang River	>900 m^3/s in non-fish spawning period, >1160 m^3/s in fish spawning period (March to July).
91	Suwalong	2015	Sichuan Xizang	1200	Jinshajiang River	Jinshajiang River	>152 m^3/s in Mar. to Apr., 2 times none daily peak operation in mid-Mar. to Apr. lasting 7 to 10 days every

							time. >152 m^3/s in May to Aug., 1 time none daily peak operation in Sept., lasting 7 to 10 days every time, >152 m^3/s in Oct. to next Feb. >146 m^3/s in reservoir initial filling and operation period, generate 3-4 food pulse lasting 10-15 days in special period (mid-Apr. to late May, early June to mid-July, early Sept. to late Sept.) >132 m^3/s in normal period, >272 m^3/s in Mar. to Apr., >405 m^3/s in Aug. to Sept., fish spawning period is Mar. to Apr. and Aug. to Sept., 10 days ecological
92	Kala	2015	Sichuan	10200	Yalongjiang River	Yalongjiang River	
93	Yebatan	2016	Sichuan/Xizang	2300	Jinshajiang River	Jinshajiang River	

							operation in fish spawning period, with no daily peak regulation, and discharge ecological flow as reservoir inflow.
94	Fulongkou	2016	Sichuan	68	Jinshajiang River	Hengjiang River	>56.9 m^3/s
95	Ma'erdang	2016	Qinghai	2200	Yellow River	Yellow River	>145 m^3/s in Jan. to Mar. and July to Nov., maintain the natural flow in Apr. to June (spawning period of *Gymnocypris eckloni Herzensten*, *Gymnodiptychus pachycheilus*, *Triplophysa pappenheimi*), with no daily peak regulation, > 74 m^3/s in Dec (normal water use period).
96	Houziyan Acceptance before reservoir	2016	Sichuan	1700	Daduhe River	Daduhe River	>180m^3/s

	impoundment						
97	Shawan Acceptance of environment protection	2016	Sichuan	480	Daduhe River	Daduhe River	Ecological flow discharge method modified from small hydropower unit to two ecological flow pipes without permission of Ministry of Environmental Protection.
98	Changheba Acceptance before reservoir impoundment	2016	Sichuan	2600	Daduhe River	Daduhe River	>166.5m^3/s Cascade operation with Huangjinpin and Houziyan.
99	Silin Acceptance of environment protection	2016	Guizhou	10500	Wujiang River	Wujiang River	Max. generation flow 1742m^3/s and min. generation flow 1715m^3/s in high flow period, Max. generation flow 382m^3/s and min. generation flow 232m^3/s in low flow period.

100	Jinping Ⅱ Acceptance of environment protection	2016	Sichuan	4800	Yalongjiang River	Yalongjiang River	>45m³/s
101	Miaowei Acceptance before reservoir impoundment	2016	Yunnan	1400	Lancangjiang River	Lancangjiang River	null
102	Nianpanshan	2017	Hubei	180	Hanjiang River	Hanjiang River	>500m³/s
103	Fengman reconstruction	2017	Jilin	1002.5	Songhuajiang River	Songhuajiang River	null
104	Batang	2017	Sichuan	750	Jinshajiang River	Jinshajiang River	>138m³/s in normal period, in fish spawning period, >277 m³/s in Mar. to Apr., and >413m³/s in Aug. to Sept., with at least 1-time ecological operation (lasting 10 days longer) every month.
105	Bala	2017	Sichuan	743	Daduhe River	Jiaomuzu River	> 69.4m³/s in reservoir initial filling period, >23.8 m³/s in operation period, and generate 1-time flood

				pulse lasting 10 days every month in fish spawning period (May to Sept.).

Table S3 E-flows of Water Conservancy Projects

(Approval by Ministry of Environmental Protection from 2014 to 2017)

No.	Name	Time	Province	Type	E-flows (m^3/s)
1	Cha'ersen	2014	Inner Mongolia	Reservoir project/ Reservoir Reinforcement Project	Non-irrigation season (Oct. to the next Apr.), >2.53 m^3/s, Irrigation season (May to Sep.), >5.06 m^3/s.
2	Datengxia	2014	Guangxi	Water control project	Qianjiang main dam, >700 m^3/s, Apr. to July, when inflow >3000m^3/s, discharge flow equals inflow. Nanmu River auxiliary dam, no less than 3.0 m^3/s.
3	Mangshan	2014	Hunan	Reservoir Project	>2.1 m3/s. Ecological operation with flood pulse in fish spawning period.
4	Chushandian	2014	Henan	Reservoir Project	>3.55 m^3/s
5	Suizhonghoushan	2014	Liaoning	Reservoir Project	>0.262 m^3/s
6	Nierji	2014	Chongqing	Water control project	>42.5 m^3/s in monthly average flow.
7	Guanjingkou	2014	Chongqing	Water control project	1.01 m^3/s~2.49 m^3/s. while inflow is less than 1.01 m^3/s, ecological flow equals inflow.
8	Yuetan	2015	Anhui	Reservoir Project	Oct. to the next Apr., >3.54m^3/s, May to Sep. >10.62 m^3/s, when inflow is less than 10.62 m^3/s, ecological flow equals inflow, but couldn't be less than 3.54 m^3/s.
9	Gaopo	2015	Guangdong	Water control project	>117 m^3/s
10	Luojiu	2015	Guangxi	Water control project	>10.90 m^3/s, 20% of annual average flow in fish breeding period.
11	Maling	2015	Guizhou	Water control project	>4.26 m^3/s in storage period, 4.26~15m^3/s in operation period, at least 10 days continuous natural inflow discharge (ecological operation) in May and June.
12	Nandujiang Water Transfer Project	2015	Hainan	Water Transfer Project	>14.4m^3/s
13	Qianping	2015	Henan	Reservoir Project	Reducing water diversion, increasing ecological flow discharge during reservoir storage and operation period, optimizing ecological flow operation.

14	Huangzangsi	2015	Qinghai	Water control project	>9 m^3/s in reservoir initial filling and operation period, 11~83.5 m^3/s in later Apr. to June, early and mid of July, Aug. and Sep., Oct. to Nov., >110 m^3/s maintaining 15 days flow in early and mid-Apr., 300 m^3/s~500 m^3/s maintaining 3-5 days flow in early and Mid-July and mid-Aug.
15	Fendou	2015	Heilongjiang	Water control project	at least once ecological operation lasting 7 -10 days, in breeding period of cold-water fish, protect flow the downstream water intake sections is higher than natural flow
16	Geshan	2015	Heilongjiang	Reservoir Project	once ecological operation maintaining 7-10 days In May, protect flow the downstream water intake sections is higher than natural flow
17	Xujixia	2015	Qinghai	Water control project	>0.87 m^3/s in storage period, 0.87 m^3/s~1.99 m^3/s in operation period, implement ecological operation of Xujixia and Heishishan Reservoir for 1-2 flood pulse (2 year's return) in May to Sep.
18	Tuxikou	2015	Sichuan	Reservoir Project	>7.71 m^3/s in reservoir initial filling and operation period, >10.32 m^3/s in early Mar. to mid-May, ecological flow equal reservoir inflow while water level is lower than the level of dead water, two times ecological operation lasting 7-10 days in Mar. to Apr.
19	Dashimen	2015	Xinjiang	Water control project	>4.65 m^3/s in reservoir water filling period, no less than, 2.76-8.28 m^3/s in operation period.
20	Dehou	2015	Yunnan	Reservoir Project	>0.602 m^3/s in Dec. to the next May, >1.806 m^3/s in June to Nov.
21	Jiangxiang	2016	Anhui	Reservoir Project	>0.5 m^3/s in Oct. to the next Mar. ecological flow equals inflow while reservoir inflow is less than 0.5m^3/s, but couldn't be less than 0.2m^3/s, >1.5 m^3/s in Apr. to Sept., ecological flow equals inflow while reservoir inflow is less than 1.5m^3/s, but couldn't be less than 0.6m^3/s.
22	Huokou	2016	Fujian	Water control project	>10.2 m^3/s in Oct. to the next Mar., >12.3 m^3/s in Apr.to Sept., generate at least 3 times water level rise and lasting 1 to 2 days every time with flood peak >37 m^3/s.
23	Pingtan and Minjiang	2016		Water Resources Allocation Project	>13.8 m^3/s in Oct. to the next Mar., >23.2 m^3/s in Apr. to Sept.

	Estuary				
24	Fuying	2016	Guangxi	Reservoir and Irrigation Project	>1.73 m^3/s in Nov. to the next Mar., > 3.87 m^3/s in Apr. to Oct., Generate ecological operation in May to July, lasting 3-5 days.
25	Huangjiawan	2016	Guizhou	Water control project	>2.04 m^3/s in Nov. to the next Apr., >5.4 m^3/s in May to Oct., discharge inflow while reservoir inflow is less than ecological flow.
26	Yakou	2016	Hubei	Shipping	>450 m^3/s
27	Maojun	2016	Hunan	Reservoir Project	>1.5 m^3/s in Aug. to the next Feb., >3.6 m^3/s in Mar. to July.
28	Hekoucun	2016	Henan	Reservoir Project	>5.0 m^3/s
29	Huangshui North Canal Phase Ⅱ	2016	Qinghai	Irrigation project	>4.0 m^3/s in Nov. to the next Apr., >1.69 m^3/s in May to Oct.
30	Datonghe River to Huangshuihe River Water Transfer Project-West Canal	2016	Qinghai	Water Transfer Project	>4.0 m^3/s in Nov. to the next Apr., >1.69 m^3/s in May to Oct.
31	Huangshipan	2016	Sichuan	Reservoir Project	>6.62 m^3/s in Mar. to July, >3.31 m^3/s in Aug. to the next Feb.
32	Lijiayan	2016	Sichuan	Reservoir Project	>4.38 m^3/s in Apr. to June, >3.11 m^3/s in July to the next Mar., generate at least two times water rise lasting 5-7 days, with flood peak> 7.18 m^3/s.
33	Dashixia	2016	Xinjiang	Water control project	>46.35 m^3/s in May to Oct., >15.45 m^3/s in Nov. to the next Apr.
34	Bai'se	2016	Guangxi	Water control project	>100 m^3/s
35	Chaishitan	2016	Yunnan	Reservoir and Irrigation Project	>15 m^3/s in June to Oct., > 5.4 m^3/s in the dam site in normal period,>5.82 m^3/s in the downstream Goujiezha section in normal period
36	A'gang	2016	Yunnan	Reservoir Project	>2.08 m^3/s in Nov. to the next May, >6.23 m^3/s in June to Oct.
37	Gangkouwan	2017	An'hui	Reservoir and Irrigation Project	Aug. to the next Mar., Gangkouwan section>3.0 m^3/s, Liucun Dam section>3.1 m^3/s, Tonggong Dam section>6.9 m^3/s, Apr. to July, Gangkouwan section>9.0 m^3/s,

					Liucun Dam section>9.3 m^3/s, Tonggong Dam section>20.7 m^3/s.
38	Bailai	2017	Fujian	Water control project	>4.8 m^3/s in Oct. to the next Mar., >9.2 m^3/s in Apr. to Sept., generate 3-6 water level rise in fish spawning period (Apr. to June)
39	Jinxi	2017	Heilongjiang	Irrigation Project	Stop water intake while the flow is less than 758-776 m^3/s in May to Aug.
40	Guanmenzuizi	2017	Heilongjiang	Reservoir Project	>5.27 m^3/s in Apr. to Aug., >3.51 m^3/s in Sept. to Oct., >1.76 m^3/s in Jan. to Mar., Nov. to Dec., generate 1-time flood peak in July to Aug.
41	Linhai	2017	Heilongjiang	Reservoir Project	>7.71 m^3/s in Linhai Reservoir and >10.59 m^3/s in Tuanjie water intake project in late Apr. to Mid-Sept., >2.57 m^3/s in Linhai Reservoir and >3.53 m^3/s in Tuanjie water intake project in late Spet. To Mid-Apr., generate 1-time flood oprateion in late Apr. to early May, lasting 24 hours with flood peak 75m^3/s and $3.15\times10^6 m^3$ runoff
42	Nalinggele	2017	Qinghai	Water control project	>5.48 m^3/s in normal period, >11.82 m^3/s in May to Sept., generate 1-time flood peak in June and Sept.
43	Chaoer River to Xiliaohe River Water Transfer Project	2017	Inner Mongolia Liaoning	Water transfer project	Wendegen Reservoir >14.27 m^3/s~22.65 m^3/s, Chaole Reservoir> 15.46 m^3/s~24.54 m^3/s in Apr. to Sept., >5.2 m^3/s in Oct. to the next Mar. discharge inflow while reservoir inflow is less than ecological flow, but couldn't be less than 1.28m^3/s.