

APPENDIX B LIST: Projects consulted on after Recovery Implementation Program Initiation (January 1988) which are eligible to participate in the 15-Mile Reach Programmatic Biological Opinion.
Updated through 12/31/21

Every 5 years, beginning in water-year 2005 (this was delayed until 2007), Colorado will report to the Program estimated average annual volumes of depletions from the Colorado River basin in Colorado.

The 15-Mile Reach Programmatic Biological Opinion covers up to 1 million acre-feet of historic depletions whose project proponents sign a recovery agreement. Most eligible projects within this 1MAF have never been consulted on or underwent consultation prior to January 1, 1988, and thus, are not reflected in this list.

For purposes of any future reinitiation of consultation, depletions have been divided into two categories:

Category 1 depletions consist of: a) existing depletions, both Federal and non-Federal as described in the project description, from the Upper Colorado River Basin above the confluence with the Gunnison River that had actually occurred on or before September 30, 1995 (average annual of approximately 1 million acre-feet/year); b) depletions associated with the total 154,645 acre-feet/year volume of Green Mountain Reservoir, including power pool (which includes but is not limited to the all of the 20,000 acre-feet contract pool and historic user's pool), the Colorado Big-Thompson replacement pool; and c) depletions associated with Ruedi Reservoir including Round I sales of 7,850 acre-feet, Round II sales of 6,135 acre-feet/year as discussed in the Service's biological opinion to Reclamation dated May 26, 1995, and as amended on January 6, 1999, and the Fryingpan Arkansas Project replacement pool as governed by the operating principles for Ruedi Reservoir, but excluding 21,650 acre-feet of the marketable yield. Category 1 depletions shall remain as Category 1 depletions regardless of any subsequent change, exchange, or abandonment of the water rights resulting in such depletions.

Category 1 depletions associated with existing facilities may be transferred to other facilities and remain in Category 1 so long as there is no increase in the amount of total depletions attributable to existing depletions. However, section 7 consultation is still required for Category 1 depletion projects when a new Federal action occurs which may affect endangered species except as provided above under "Individual Consultation Under the Umbrella of this Programmatic Biological Opinion." Reinitiation of this consultation will be required if the water users fail to provide 10,825 acre-feet/year on a permanent basis.

Category 2 is defined as all new depletions up to 120,000 acre-feet/year; this includes all depletions not included in Category 1 that occur after 1995 regardless of whether section 7 consultation has been completed. This category is further divided into two 60,000 acre-feet/year blocks of depletions.

Agency	Project Name	State	River	No. of Projects	Date Opinion Finalized	Footnote	Depletion Charge	Rec. / Agr.	Date Paid	Amount Paid	Under-Payment	Avg. Annual Depletion (af) Cited in Individual Project Biological Opinion <u>(NOT a depletion accounting)</u>		
												New	Historic	
Pre-PBO Consultations														
BLM	Muddy Creek	CO	Colorado	1	7-Feb-90		\$80,324.00		06/01/1992 & 10/20/92	\$8873.4 & \$79860.6		7716		
BLM	Trans-Colorado Gas Pipeline	CO	Colorado	1	30-Nov-92		\$149.00					13		
BLM	Dowler Pipeline	CO	Colorado	1	27-Aug-93	2,7	\$0.00						29	
BLM	Wilcoxson Water Supply	CO	Colorado	1	27-Sep-93	2,7	\$0.00						0.55	
BLM	Cason Irrigation Pipeline	CO	Colorado	1	13-Jan-94	7	\$169.00		19-Feb-97	\$187.74		14		
BLM	Hastings Pipeline	CO	Colorado	1	28-Jan-94	2,7	\$0.00						44	
BLM	JQS Pit Reservoirs	CO	Colorado	1	22-Feb-94	7	\$31.00		29-Mar-94	\$126.00		2.55		
BLM	Taylor Grazing Pond	CO	Colorado	1	22-Feb-94	7	\$16.00					1.28		
BLM	Vasten Homestead Waterfowl	CO	Colorado	1	22-Feb-94	7	\$79.00					6.38		
BLM	Jolly-Potter	CO	Colorado	1	3-Mar-94	2,7	\$0.00						125	
BLM	Schenk Water Tank	CO	Colorado	1	7-Apr-94	2,7	\$0.00						30.4	
BLM	Greenhorn Stock Pond	CO	Colorado	1	7-Apr-94	7	\$31.00					2.55		
BLM	North Northwater Spring	CO	Colorado	1	31-May-94	7	\$20.00					1.61		
BLM	Clough-Alber Ponds	CO	Colorado	1	31-May-94	7	\$16.00					1.28		
BLM	New Castle Water Tank	CO	Colorado	1	31-May-94	2,7	\$0.00						446.22	
BLM	Jolley Irrigation	CO	Colorado	1	31-May-94	2,7	\$0.00						393	
BLM	Rocky Mt. Natural Gas	CO	Colorado	1	27-Sep-94	7	\$108.00		18-May-94	107.82		9		
BLM	Jerry Creek/Ute Water/BLM Land Exch.	CO	Colorado	1	15-Apr-97	2,7	\$0.00						670	
BLM	Ute Water Pipeline	CO	Colorado	1	2-Feb-98	2,7	\$14,555.74		23-Dec-98	\$14,893.02		1054	4628	
									07/31/1998 & 74/5/01?	\$79,670 & ?\$17,777.88?				
BLM	Wolford Mtn. Resv.	CO	Colorado	1	4-Mar-98	7	\$79,670.00		27-Aug-98	\$1,712.44		5769		
BLM	Trans-Colorado Gas Pipeline 2	CO	Colorado	1	18-May-98	7	\$1,712.44					124		
BLM	Palisade Water Pipeline Replacement	CO	Colorado	1	25-Feb-99	2,7	\$2,232.54					158		
BLM	America Soda Nacholite Mine	CO	Colorado	1	22-Jun-99	2,7	\$0.00	Y					190	
BR	Collbran Project Amendment	CO	Colorado	1	29-Jun-92	2,7	Exempt						746	
BR	Grand Valley BLM Stk Ponds	CO	Colorado	1	10-Nov-93	7	Exempt					21		
BR	Ruedi Rsrvr Round 2 Water Sale	CO	Colorado	1	26-May-95	7	Exempt					17000		
BR	Basalt Water Conserv. Water Sale Contr.	CO	Colorado	1	13-Feb-97	7	Exempt					1000		
BR	West Divide Conserv. Water Sales Contr.	CO	Colorado	1	11-Feb-97	7	Exempt					200		
BR	Green Mtn. Resv. Water Service Contr.	CO	Colorado	1		7	Exempt					1000		
BR	Silt WCD Diversion Replacement	CO	Colorado	1	2-Sep-98	2,7	\$0.00						2400	
COE	Town of New Castle	CO	Colorado	1	27-Jul-90		\$22.00		29-Sep-92	\$24.15		2		
COE	Colorado DOW Crystal Hatchery	CO	Colorado	1	14-Nov-90	2	\$21.00		29-Sep-92	\$21.97			2	
COE	Bluestone/Roan Creek	CO	Colorado	1	11-Mar-91		\$21,820.00		25-Nov-91	\$21,820.00		2000		
COE	Everist Gravel	CO	Colorado	1	31-May-91		\$45.00		18-Sep-92	\$47.15		4		
COE	Snowmountain Ranch	CO	Colorado	1	15-Jun-91		\$908.00		22-May-91	\$907.71		83		
COE	Frei & Sons	CO	Colorado	1	16-Aug-89		\$3,881.00					388		
COE	Indian Meadows	CO	Colorado	1	24-Mar-92		\$1,599.00					139		
COE	Snowmountain Amend	CO	Colorado	1	3-Jun-92		\$64.00		23-Jul-92	\$64.00		6		

													Avg. Annual Depletion (af) Cited in Individual Project Biological Opinion (NOT a depletion accounting)	
Agency	Project Name	State	River	No. of Projects	Date Opinion Finalized	Footnote	Depletion Charge	Rec. / Agr.	Date Paid	Amount Paid	Under-Payment	New	Historic	
COE	Eagle Golf Course	CO	Colorado	1	4-Sep-92		\$2,702.00		15-Sep-92	\$270.25		235		
COE	Colorado DOT	CO	Colorado	1	8-Dec-92		\$36.00		9-Mar-93	\$40.25		3		
COE	Flannery Reservoir	CO	Colorado	1	2-Jul-93	7	\$1,598.00		12-Dec-93	\$1,598.13		133		
COE	Pat.-Jacobson Ditch	CO	Colorado	1	29-Jul-93	2,7	\$0.00						103	
COE	Clifton Diversion	CO	Colorado	1	2-Sep-93	2,7	\$0.00						994	
COE	Evans/McKenzie Ponds	CO	Eagle	1	1-Nov-93	7	\$5.00					0.39		
COE	West Pond	CO	Colorado	1	13-Jan-94	7	\$2.00		27-Jan-94	\$1.97		0.16		
COE	Palmer Creek	CO	Colorado	1	28-Mar-94	7	\$12.00					0.94		
COE	Dry Hollow Creek	CO	Colorado	1	4-Apr-94	7	\$28.00		29-Oct-93	\$27.55		2.3		
COE	Town of Granby	CO	Colorado	1	11-Apr-94	2,7	\$0.00					41		
COE	Avon Metro	CO	Colorado	1	31-May-94	2,7	\$14.00		8/4/94?	\$13.50?		1.1	38.3	
COE	Upper Eagle Diversion	CO	Eagle	1	26-Jul-95	7	\$7,664.00	Y	10-Aug-95	\$7,664.13		603		
COE	Cotton Ranch	CO	Colorado	1	19-Sep-95	2,7	\$0.00						250.3	
COE	City of Glenwood Emerg. H2O Intake	CO	Colorado	1	17-Sep-96	2,7	\$0.00						450	
COE	Highline Dam Maintenance Project	CO	Colorado	1	4-Sep-96	2,7	\$0.00						620	
COE	Maryland Creek Gravel Mine (B232Everist)	CO	Colorado	1	15-Apr-97	2,7	\$0.00						272.7	
COE	Silver Creek Golf, Lodge, & Housing	CO	Colorado	1	3-Sep-97	2,7	\$0.00						399.2	
COE	CDOW Deep Spring Creek Project	CO	Colorado	1	2-Oct-98	2,7	\$0.00						797	
COE	Eagle Ranch Development Project	CO	Colorado	1	1-Oct-98	2,7	\$0.00						809	
COE	Jouffas Ranch Golf Course	CO	Colorado	1	14-Jun-99	2,7	\$0.00						202.39	
DOE	Uranium Mill Tailings - Rifle	CO	Colorado	1	14-Aug-89		\$2,150.00					215		
DOE	Uran Mill Tailings-Grmd Jnctn	CO	Colorado	1	10-Jan-92		\$209.00		27-Dec-91	\$208.73		18		
DOE	Naval Oil Shale Res #3	CO	Colorado	1	1-Jun-94	7	\$60.00		22-Jun-94	\$60.10		4.87		
FS	White Banks Alabaster	CO	Colorado	1	24-Jul-92		\$12.00		11-Aug-92	\$5.06		1		
FS	Wolf Creek Gas Wells	CO	Colorado	1	9-Sep-92		\$30.00					3		
FS	White River Oil & Gas Lease	CO	Colorado Colo,	1	2-Feb-93	4						1		
FS	Rouff Oil & Gas	CO	Yampa	1	8-Mar-93	4						62		
FS	Vidler Tunnel	CO	Colorado	1	6-Jul-93	2,7	\$0.00						2000	
FS	Smith-Ermele Pipe	CO	Colorado	1	2-Aug-93	2,7	\$0.00						0.2	
FS	Overton to Terrell Ditch	CO	Colorado	1	5-Aug-93	2,7	\$0.00						48.1	
										\$3376.42 for 177.8af Breckenridge Ski Resort				
FS	7 Natl Forests Small Dep	CO	Colorado	1	7-Sep-93	2,7	\$2,937.00		Various 8/5/10			245	1085	
FS	Alsbury Res. Enlargement	CO	Colorado	1	10-Feb-94	2,7	\$1,641.00		20-Jul-95	\$1,684.07		133	13	
FS	Porter Ditch	CO	Colorado	1	15-Aug-94	7	\$5,553.00					450		
FS	Lapadakis Special Use Permit	CO	Colorado	1	13-Jan-95	2,7	\$0.00						260.3	
										01/27/94, \$1218.40, 9/30/94 & \$866.27 & 5/19/98 \$1186.00		70	14	
FS	Snowmass Ski Devel	CO	Colorado	1	10-Feb-95	2,7	\$1,218.00						250	
FS	ChemStar Lime CO	CO	Colorado	1	24-May-95	2,7	\$0.00						1785.2	
FS	Rudolph Irrigation Ditch	CO	Colorado	1	12-Oct-95	2,7	\$0.00						295.5	
FS	Carbondale Water Trtmt.	CO	Colorado	1	12-Dec-95	2,7	\$0.00							
FS	Yampa Ranger District	CO	Colorado	1	8-Dec-97	7	\$3,797.75					275		
FS	White River NF 5 SUP's (Summit Co.)	CO	Colorado	1	16-Jun-98	2,7	\$0.00						700.97	
FS	White River NF SUP's (Pitkin, Eagle Co)	CO	Colorado	1	18-Sep-98	2,7	\$0.00						95.67	
FS	Winter Park Water & San. District SUP	CO	Colorado	1	19-May-99	2,7	\$1,835.77		30-Sep-00	\$1,835.77		129.92	5.83	
FS	Maryland Creek Ranch Ditches Project	CO	Colorado	1	24-Sep-99	2,7	\$0.00						546	
FS	Twin Lakes Reservoir & Canal SUP	CO	Colorado	1	26-Jul-99	2,7	\$0.00						201.7	
FS	Arapahoe Ski Basin Expansion Project	CO	Colorado	1	30-Aug-99	7	\$1,500.32		18-Oct-02	\$1,660.90		106.18		
FS	Glenwood Municipal Water Line Repair	CO	Colorado	1	23-Sep-99	2,7	\$0.00	Y					450	
OSM	Munger Canyon Mine	CO	Colorado	1	8-Aug-89		\$20.00					2		
OSM	Munger/McCane Mine	CO	Colorado	1	16-Apr-92		\$40.00					4		
OSM	Salt Creek Mine	CO	Colorado	1	2-Jun-92		\$40.00		30-Dec-92	\$41.93		3.5		

Post-PBO Consultations

BLM	Ute Water Pipeline Reinitiation	CO	Colorado	1	12-May-00	7	\$30,744.76	Y	31-Jan-00	\$30,744.76		2141	
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Avg. Annual Depletion (af)
Cited in Individual Project
Biological Opinion
(NOT a depletion accounting)

Agency	Project Name	State	River	No. of Projects	Date Opinion Finalized	Footnote	Depletion Charge	Rec. / Agr.	Date Paid	Amount Paid	Under-Payment	New	Historic
BR	GVIC Fish Screen	CO	Colorado	1	4-Feb-02	2,7	\$0.00	Y					58515
BR	DeBeque Growout Ponds	CO	Colorado	1	18-Apr-02	7	Exempt	NA				58	
BR	Grand Valley Fish Passage & Screen	CO	Colorado	1	6-Nov-02	2,7	Exempt	Y					62508
BR	Windy Gap FIRMing Project	CO	Colorado	1	12-Feb-10	7	\$404,809.83	Y	25-Sep-18	\$451,280.89		21,317	
COE	The Summit Golf & Res. Dev. Project	CO	Eagle	1	11-Apr-00	2,7	\$0.00	Y					173.18
COE	Park E. Subd. Pumping Station Project	CO	Colorado	1	11-Apr-00	2,7	\$1,657.14	Y				115.4	
COE	Red Sky Ranch Golf Course Project	CO	Eagle	1	15-May-00	2,7	\$0.00	Y					80.7
COE	Summerset Land Group Project	CO	Colorado	1	21-Jun-00	7	\$0.00	Y				1.6	
COE	Upper Eagle Reg'l Water Auth. Intake	CO	Eagle	1	30-Jun-00	7	\$0.00	Y				43	
COE	Dr. James Bolen F&W Pond Project	CO	Colorado	1	21-Aug-00	7	\$0.00	Y				1.9	
COE	Stillwater Ranch Dev., Carruth Properties	CO	Colorado	1	15-Nov-00	2,7	\$0.00	Y					1290
COE	Eagle Co. School Cross Creek Diversion	CO	Colorado	1	10-Oct-00	2,7	\$0.00	Y					9.3
COE	Swan River Water Diversion Project	CO	Colorado	1	3-Nov-00	2,7	\$0.00	Y					26
COE	CDOW Kelley Springs Pipeline Project	CO	Colorado	1	9-Nov-00	2,7	\$0.00	NA					72
COE	Michael Berkeley Pond Project	CO	Colorado	1	16-May-01	7	\$0.00	Y				5.6	
COE	Jack Bestall Maryvale East Dev. Project	CO	Colorado	1	17-Jul-01	7	\$0.00	Y				3.56	
COE	Michael Short Pond Project	CO	Colorado	1	13-Dec-01	7	\$0.00	Y				28.8	
COE	Ashback Sheep Mountain Estates Pond	CO	Colorado	1	28-Dec-01	7	\$0.00	Y				0.53	
COE	Hamilton Creek Metro Water Supply	CO	Colorado	1	21-Dec-01	7	\$0.00	Y				16	
COE	Traer Creek Village @ Avon Project	CO	Colorado	1	17-Dec-01	2,7	\$0.00	Y					135.3
COE	Town of Eagle Water Line Project	CO	Colorado	1	4-Jan-02	2,7	\$2,043.50	Y	9-Jul-02	\$2,043.50		134	126
COE	Roaring Fork Res. Mamm Cr. Sand/Grav.	CO	Colorado	1	15-May-02	7	\$2,417.12	Y				158.5	
COE	Breckenridge Sawmill Gulch Reservoir	CO	Colorado	1	11-Apr-02	2,7	\$0.00	Y					6.16
COE	Christopher Smith Pond Creek Diversion	CO	Colorado	1	5-Sep-02	7	\$0.00	Y				0.12	
COE	Resource Eng. Roaring R. Ranch Div.	CO	Colorado	1	28-Feb-03	7	\$0.00	Y				1.61	
COE	Bill Hegberg Wildcat Ranch Pond	CO	Colorado	1	19-Feb-03	7	\$0.00	Y				0.265	
COE	Columbo Lakoda Canyon Ranch Golf Course	CO	Colorado	1	15-Apr-03	2,7	\$0.00	Y					246
COE	New Castle Water Line, Well, & Diversion	CO	Colorado	1	22-Aug-03	2,7	\$0.00	Y					400
COE	Rendevous Colorado West Mountain Proj.	CO	Colorado	1	24-Feb-04	2,7	\$0.00	Y				19.63	126
COE	Gypsum Partners Golf Ponds	CO	Colorado	1	13-Jan-04	7	\$0.00	Y				78.8	
COE	Kremmling Emergency Water Diversion	CO	Colorado	1	27-Apr-04	7	\$0.00	Y				27	
COE	Vail Assoc. Vail Mtn. Snowmaking	CO	Colorado	1	8-Jul-04	2,7	\$0.00	Y					603
COE	Town of Silt Water Intake	CO	Colorado	1	21-Dec-04	2,7	\$0.00	Y				82	40
COE	Tom Backhus 4 Eagle Ranch	CO	Colorado	1	29-Oct-04	7	\$0.00	Y				2	
COE	Sam Gary Jr. Mt. Powell Ranch Pond	CO	Colorado	1	27-Jan-05	7	\$0.00	Y					1.42
COE	David Garton Poark Partners Buckhorn Valley Irrigation	CO	Colorado	1	7-Jan-05	7	\$0.00	Y				19.6	
COE	CDOW Lake Christine Dam Reconstruction	CO	Colorado	1	11-Feb-05	7	\$0.00	NA				11.65	
COE	Brush Creek Dev. Co. LLC Snowmass Base Village & Fanny Hills PUD	CO	Colorado	1	29-Jul-05	7	\$0.00	Y					22.3
COE	Kummer Dev. Co. Frost Creek Residential Subdivision	CO	Eagle	1	27-Sep-05	7	\$0.00	Y				37.74	
COE	Brightwater Club Golf Course	CO	Eagle	1	14-Dec-05	7	\$1,790.36	Y	19-Dec-05	\$1,750.62		107.4	
COE	City of Rifle Water Intake	CO	Colorado	1	21-Dec-05	2,7	\$0.00	Y				66	350
COE	Lewerenz Saddle Ridge Golf Club Ponds	CO	Eagle	1	22-Dec-05	7	\$0.00	Y				70	
COE	Orvis Shorefox Dev.	CO	Colorado	1	21-Jun-06	2,7	\$5,651.13	Y				339	233
COE	David Beine Pond Project	CO	Colorado	1	5-Dec-06	7	\$0.00	Y				0.48	
COE	EnCana Oil and Gas Parachuute Creek Dam and Well Pads	CO	Colorado	1	24-Jan-07	7	\$0.00	Y				26.3	
COE	Lafarge North America Mamm Creek Gravel Pit	CO	Colorado	1	14-Mar-07	7	\$4,017.00	Y	14-Mar-07	\$4,017.00		233	
COE	Craig Meyers for Intra West Placemaking Landscape Pond	CO	Fraser	1	27-Mar-07	7	\$0.00	Y				0.49	
COE	Galloway Inc's Blue Valley Ranch Stream & Wetland Restoration Proj.	CO	Blue	1	27-Mar-07	2,7	\$0.00	Y					29.38
									\$2000 5/5/2009; \$19,274.16			1234	
COE	Eagle Park Reservoir	CO	Eagle	1	15-Oct-07	7	\$21,274.16	Y	8/26/2009	\$21,274.16			
COE	KIWA Associates Vines @ Vail	CO	Colorado	1	15-Oct-07	7	\$0.00	Y				8.56	
COE	High Lonesome Ranch Restoration	CO	Colorado	1	14-Dec-07	2,7	\$0.00	Y					84
COE	WER Lake Creek Pond Project	CO	Colorado	1	8-May-08	7	\$0.00					1.17	

													Avg. Annual Depletion (af) Cited in Individual Project Biological Opinion (NOT a depletion accounting)	
Agency	Project Name	State	River	No. of Projects	Date Opinion Finalized	Footnote	Depletion Charge	Rec. / Agr.	Date Paid	Amount Paid	Under-Payment	New	Historic	
COE	Victoria Village Project	CO	Colorado	1	15-Jan-09	7	\$0.00					0.9		
COE	Pinto Valley Ranch Aquatic Enhancement	CO	Colorado	1	11-May-09	7	\$0.00					6.19		
COE	New Castle Park	CO	Colorado	1	7-Jul-09	7	\$0.00					0.62		
COE	High Lonesome Ranch Wells	CO	Colorado	1	3-Aug-09	7	\$0.00					4		
COE	Clear Creek Inlet, Chevron	CO	Colorado	1	16-Jul-10	7	\$0.00					5		
COE	Crooked Cr. Resv. Spillway Repair	CO	Colorado	1	18-Aug-10	2,7					NA		32	
COE	Welsh Dam & Reservoir	CO	Colorado	1	14-Oct-10	7	\$0.00					44		
COE	Bill's Ranch Lake COE-GJ	CO	Colorado	1	14-Oct-10	7	\$0.00					7		
COE	TCI Lane Property	CO	Colorado	1	20-Oct-10	2,7	\$0.00						2.3	
COE	Kokopelli Pump Station	CO	Colorado	1	15-Nov-10		\$0.00					26		
COE	Everist Materials, LLC	CO	Colorado	1	28-Dec-10	7	\$3,209.97					170		
COE	Colo Springs Util Montgomery Resv Improvements	CO	Colorado	1	24-Jan-11	2,7	\$0.00						10345	
COE	Aspen Springs Water Supply Project	CO	Colorado	1	20-Jun-11	2,7	\$0.00					1.89		
COE	Climax Molybdenum Water Treatment	CO	Eagle		25-May-12	2,7	\$0.00					2.92		
COE	Tie Camp Ranch Intake Pipe	CO	Colorado	1	27-Mar-13	2,7	\$0.00				Y	22.8		
COE	Copper Mountain Resort	CO	Colorado	1	13-Aug-13	7	\$0.00					50.21		
COE	ASP Properties, LLC (Somers Residence Irrigation Pump)	CO	Colorado	1	6-Sep-13	7	\$0.00				Y	5.5		
COE	Denver Water Moffat Collection System Project (replaced July 31, 2009 BO)	CO	Colorado	1	6-Dec-13	2,7	\$351,690.24			Y	9/29/2017	\$362,984.64	17,376	
COE	Winter Park Ranch Water & San. District Div. Relocation	CO	Colorado	1	4-Feb-14	7	\$0.00				Y	9.7		
COE	Winter Park Pond & Diversion Maint.	CO	Colorado	1	4-Feb-14	2,7	\$0.00				Y		6.51	
COE	Sweetwater Spring Development	CO	Colorado	1	4-Feb-14	7	\$0.00				Y	56.01		
COE	Aspen Preserve Water Intake & Pond	CO	Colorado	1	20-Mar-14	7	\$0.00				Y	2.66		
COE	Eagle Lower Basin Water Trtmt. Plant	CO	Eagle	1	7-May-14	7	\$0.00				Y	26.1		
COE	Miller Property Water Supply	CO	Fork	1	20-May-14	7	\$0.00				Y	1.089		
COE	Kirchner Pump & Pipeline Project	CO	Colorado	1	11-Jun-14	7	\$0.00				Y	5.74		
COE	Basalt Community Campus	CO	Fork	1	25-Jul-14	7	\$0.00				Y	3.02		
COE	Moore's Ranch Project	CO	Eagle	1	25-Jul-14	2,7	\$0.00				Y		2.03	
COE	Aspen Valley Ranch Project	CO	Fork	1	8-Feb-15	7	\$0.00				Y	5.85		
COE	Colorow Augmentation Pond & Pipeline	CO	Colorado	1	30-May-18	7	\$0.00				Y	1.25		
COE	Sylvan Lake Spillway	CO	Eagle	1	10-Apr-18	7	\$0.00				Y	2	122.5	
COE	Teepee Park Ranch Ditch	CO	Colorado	1	3-Nov-20	7	\$0.00				Y	3.68		
COE	Letey Lane Infiltration Gallery	CO	Fork	1	22-Nov-21	7	\$0.00				Y	18.72		
EPA	Ginn Battle North Superfund Site	CO	Eagle	1	29-Aug-07	2,7	\$0.00					82	48	
EPA	Hot Sulphur Springs Water System Upgrade	CO	Colorado	1	11-Aug-09	2,7	\$0.00					9	18	
EPA	City of Breckenridge Second Water Treatment Plant	CO	Colorado	1	2-Oct-17	2,7	\$5,652.39			Y	7-Nov-17	\$5,652.39	267	189
FERC	Gross Reservoir Hydro. - Denver Water	CO	Colorado	1	12-Oct-00	2,7	\$83,474.68			Y	6/14/05	\$8,109.14	5813	22358
FERC	Denver Williams Fork Reservoir	CO	Fork	1	7-Jul-06	2,7	\$0.00				Y		27475	
FERC	Williams NW Pipeline Parachute Lateral	CO	Colorado	1	18-Aug-06	7	\$0.00				Y	4.9		
FERC	Williams NW Pipeline Co Skinner Ridge Meter Sta	CO	Colorado	1	9-Aug-07	7	\$0.00				Y	0.03		
FHWA	CDOT I-70 to MM 147 Project	CO	Eagle	1	21-Jul-05	7	\$0.00				NA	0.02		
FHWA	Coal & Brush Creek roads repair	CO	Colorado	1	15-Mar-11	7	\$0.00				NA	50		
FS	Grand Co. Water & San. District #1 Proj.	CO	Colorado	1	19-Apr-00	2,7	\$0.00				Y	33	58	
FS	Will Source Exploration Well 1-13 Proj.	CO	Colorado	1	29-Jun-00	7	\$0.00				Y	0.125		
FS	Mun. Subdistrict NCWCD Easement	CO	Colorado	1	18-May-00	2,7	\$0.00				Y		18779	
FS	Warren Lakes Reclamation Project	CO	Colorado	1	12-Jul-00	7	\$0.00				NA	34.5		
FS	Werhonic & Gardner Resv. Rehab. Proj.	CO	Colorado	1	16-Oct-00	7	\$0.00				Y	16		
FS	Ashcroft Nordic Center Project	CO	Colorado	1	1-Dec-00	7	\$0.00				Y	0.34		
FS	Buttermilk Ski Snowmaking & Domestic	CO	Colorado	1	5-Mar-01	7	\$0.00				Y	48		
FS	WRNF Silvers ... Campground Projects	CO	Colorado	1	8-Aug-01	2,7	\$0.00				NA		107	
FS	WRNF Battlement Reservoirs Project	CO	Colorado	1	17-Oct-01	7	\$0.00				NA	62		
FS	WRNF Multiple Applicants Project	CO	Colorado	1	19-May-02	2,7	\$0.00				Y		1521	

													Avg. Annual Depletion (af) Cited in Individual Project Biological Opinion (NOT a depletion accounting)	
Agency	Project Name	State	River	No. of Projects	Date Opinion Finalized	Footnote	Depletion Charge	Rec. / Agr.	Date Paid	Amount Paid	Under-Payment	New	Historic	
FS	Copper Mtn. Resort Kokomo Lift	CO	Colorado	1	21-Jun-02	7	\$0.00	NA				7.4		
FS	WRNF Spring Creek Fire Suppression	CO	Colorado	1	3-Sep-02	7	\$0.00	NA				1.0		
FS	WRNF Thompson Creek Fire Sup.	CO	Colorado	1	9-Dec-02	7	\$0.00	NA				0.02		
FS	CSUtil. Aurora Homestake Otero Exp.	CO	Colorado	1	3-Apr-03	2,7	\$0.00	Y					29538	
FS	26 Batched EA's, Rocky Mtn. Region Seismic 21 Inc. Trace Energy Svcs.	CO	Colorado	1	14-Oct-03	7	\$0.00	NA				0.75		
FS	Seismic Testing	CO	Colorado	1	25-Nov-03	7	\$0.00	Y				0.02		
FS	Robert F. Levine Casteel Creek Ranch Brereton Ditch	CO	Colorado	1	6-Jul-04	7	\$0.00	Y				7.91		
FS	Copper Mountain Resort Trails & Facilities Imp.	CO	Colorado	1	8-Jul-04	7	\$0.00	Y				44.10		
FS	Routt NF/Yampa RD Krauss Dom Water	CO	Colorado	1	20-Dec-04	7	\$0.00	Y				0.09		
FS	GMUG Numerous Mineral Dev. Projects	CO	Colorado	1	25-May-05	7	\$0.00	NA				25.00		
FS	ARNF Grand Co. Water & Sanitation Dist.	CO	Colorado	1	23-Jun-05	7	\$2,053.80	Y				126.00	58	
FS	ARNF Williams Peak Ranch & Climax Molybdenum Co. Ditch Bill Easements (for 7 ditch facilities)	CO	Colorado	7	29-Nov-05	7	\$0.00	Y					1179	
FS	WRNF/GMUG Ditch Bill Easements (for 184 ditch facilities)	CO	Colorado	184	12-Apr-06	2,7	\$0.00	NA				0.00	99858	
FS	Intrawest/Winter Park Phase I Master Plan WRNF/Eagle & Holy Cross RD Sunnyside	CO	Colorado	1	19-May-06	2,7	\$2,192.11	Y	1-Jun-06	\$2,192.11		131.50	3.5	
FS	Cattle & Horse Allotment	CO	Colorado	1	11-May-06	7	\$0.00	NA				0.00	0.5	
FS	MB-RNF Ditch Bill Easements (for 2 ditch facilities)	CO	Colorado	2	12-May-06	2,7	\$0.00	NA					2573	
FS	WRNF-Eagle/Dillon RD Various Projects	CO	Colorado	8	31-Oct-06	2,7	\$0.00	NA				2.00	3516	
FS	Eagle R. Water & San. Dist. Black Lake #1 Enlg.	CO	Eagle	1	19-Mar-07	7	\$0.00	Y				2.24		
FS	WRNF Tea Cup Well, Vail Ski Area	CO	Colorado	1	20-Sep-07	7	\$0.00	Y				1.00		
FS	WRNF Rifle RD Four Pit Ponds	CO	Colorado	1	11-Dec-07	7	\$0.00	NA				0.23		
FS	WRNF No Name Water Treatment Plant	CO	Colorado	1	26-Dec-07	2,7	\$0.00	Y					80.25	
FS	WRNF/Sopris RD Mary's Hut Well	CO	Colorado	1	1-Jul-08	7	\$0.00	Y				0.02		
FS	ARNF/Sulphur RD 11 Cabins Project	CO	Colorado	1	19-Nov-08	2,7	\$0.00	NA					0.08	
FS	WRNF HCRD Echter Springbox & Waterline	CO	Colorado	1	2-Apr-09	7	\$0.00	Y				14.50		
FS	ARNF/Grand County, Irrigated Land Company & Breeze Estate, Ditch Bill Easements	CO	Colorado	2	21-May-09	2,7	\$0.00	Y					4,696	
FS	WRNF: Old Dillon Resv. Enlargement	CO	Colorado	1	4-Feb-10	7	\$8,139.11	Y	10-Mar-11	\$8,104.83	\$0.00	428.60		
FS	Eagle/Holy Cross RD Livestock Water	CO	Colorado	1	15-Jun-10	7	\$0.00	NA				3.10		
FS	Willow Hills Water Users Association Pipeline	CO	Colorado	1	27-Oct-10	7	\$0.00	Y				0.35		
FS	WRNF N Thompson & Coal Creek Livestock Allotment Revisions	CO	Colorado	1	17-Mar-11	2,7	\$0.00	NA					10	
FS	WRNF Aspen-Sopris RD Water for 3 Admin Sites	CO	Colorado	3	19-Jul-11	7	\$0.00	NA				32		
FS	Gypsum: Dam Repair & LEDE Reservoir Expansion	CO	Colorado	1	11-Apr-13	7	\$3,327.78	Y				167.9		
FS	Finley Ditches #1 & #4 Improvement	CO	Colorado	1	15-Jan-14	7	\$0.00	Y				50.7		
FS	Tailor Lode Access	CO	Blue	1	6-Oct-15	7	\$0.00	NA				1.2		
FS	Coberly-Maudlin Spring Development	CO	Colorado	1	8-May-18	7	\$0.00					0.2		
FS	Pandora Development	CO	Colorado	1	5-Feb-19	7	\$0.00					14.7		
FS	Copper Mtn. Multi-Season Improvements	CO	Colorado	1	19-Jun-19	7	\$3,993.10		18-Jun-19	\$3,993.10		184.8		
FS	Bertaimont Access Road	CO	Colorado	1	23-Mar-20	7	\$0.00	NA				21.6		
FS	EagleVail Municipal Water System	CO	colorado	1	2-Sep-21	7	\$0.00						260	
HUD	Bell Rippy Apartments	CO	colorado	1	21-Jan-21	7	\$0.00					3.2		
NPS	RMNP Grand Ditch Breech Restoration	CO	Colorado	1	6-Sep-12	7	\$0.00	NA				3.25		
NRCS	Tom Phillips Pond Project	CO	Colorado	1	3-Oct-00	7	\$0.00	Y				1.1		
NRCS	Neil Guard Marsh Project	CO	Colorado	1	18-Jan-02	7	\$0.00	Y				3.15		
NRCS	Glenwood Irrigation Ditch Co. Headgate	CO	Colorado	1	9-Apr-02	2,7	\$0.00	Y					1625	
NRCS	Ken Hambel Wildlife Ponds Project	CO	Colorado	1	24-Dec-02	7	\$0.00	NA				4.5		
NRCS	Nancy & David Orient Wildlife Pond	CO	Colorado	1	4-Feb-03	7	\$0.00	Y				1.35		
NRCS	Armstrong Wildlife Pond Project	CO	Colorado	1	18-Dec-03	7	\$0.00	Y				3.6		

Agency	Project Name	State	River	No. of Projects	Date Opinion Finalized	Footnote	Depletion Charge	Rec. / Agr.	Date Paid	Amount Paid	Under-Payment	Avg. Annual Depletion (af) Cited in Individual Project Biological Opinion (NOT a depletion accounting)		
												New	Historic	
NRCS	Ed Neilson Pond Project	CO	Colorado	1	12-Nov-04	7	\$0.00	NA				25		
NRCS	Fred Strothman Pond Project	CO	Colorado	1	14-Oct-04	7	\$0.00	Y				0.9		
OSM	Mines	CO	Colorado	1	4-Jan-07	2,7	\$0.00	Y					22.1	
USDA RD	Riverbend Water & Sewer Company	CO	Colorado	1	25-Jan-11	2,7	\$0.00	Y				12	25	
USDA RD	Rifle Regional Water Purification Facility	CO	Colorado	1	5/20/2011	2,7	\$9,133.53	Y				417	416.00	
USDA RD	Avalanche Ranch Geothermal	CO	Colorado	1	8/15/2011	7	\$0.00					0.7		
USDA RD	Spring Born Greenhouse Project	CO	Colorado	1	11/15/2019	7	\$0.00					10.13		
State of CO & CO/Eagle river basin totals:				443			\$1,187,850					91,905	373,465	
												AF new depletions consulted on since PBO:	52,446	
Pre-PBO totals:				87			\$240,579					39,459	23,487	
Post-PBO totals:				356			\$947,272					52,446	349,979	

APPENDIX B ("15-Mile Reach PBO")

ACCOUNTING FOR WATER DEPLETIONS

This Appendix lays out the accounting system for determining changes in water depletions addressed in this biological opinion. This accounting process will quantitatively measure increases in water depletions as they actually occur and identify when 60,000 and 120,000 acre-feet/year of new depletions have actually occurred. Water depletions are defined as the reduction in the quantity of water reaching critical habitat of the endangered fishes.

- 1) Every 5 years beginning in 2005, the Service and the State will jointly collect consumptive use data and other data necessary to update either the State's CRDSS Consumptive Use Model or the State's CRDSS Colorado River Mainstem Water Right Planning Model "C1 run" as described in Appendix F. Data collected would include irrigated acres, climatic data needed to run the "Modified Blaney-Criddle" consumptive use model, as well as data on evaporation, municipal and industrial uses, and other consumptive uses identified in Bureau of Reclamation's consumptive uses and losses report. The Service would also provide a list of projects and new depletions consulted on during each 5 year period. The updated information will be submitted to a technical group (similar to the technical group which worked on the PBO) for peer review. The technical group will determine which depletions have actually occurred, because only those depletions which have actually occurred will count against the 120,000 acre-feet/year. Once the technical group and any other interested entity has verified the depletions, they will be submitted to the Recovery Program for final review.
- 2) Beginning in 2005, the State's CRDSS Consumptive Use Model will be run and a consumptive use and losses report will be developed. This report would verify the present level of depletions.

The programmatic biological opinion has determined that with implementation of recovery actions and an appropriate fish population response, the additional depletion of 120,000 acre-feet/year is not likely to jeopardize the endangered fishes or destroy or adversely modify critical habitat. The accounting system for determining when depletions reach 120,000 acre-feet/year will avoid penalizing entities that implement water conservation and reuse practices (for example, entities will maintain their present level of demand in the model). The biological opinion does not mandate water conservation or reuse. However, if water conservation and reuse practices are implemented it will take longer to deplete 120,000 acre-feet/year. Therefore, if all recovery actions are implemented and there is an appropriate fish population response, the biological opinion could provide Endangered Species Act compliance for a longer period of time.

- 3) In order to avoid potential problems associated with annual fluctuations due to variable climatic factors, as well as model and data changes, all determinations of increases in depletions will be made using the long-term averages since 1975. The CRDSS Colorado River Mainstem Water Right Planning Model will be used, and two model runs will be required.

RUN 1.

The C_1 scenario will be run for the updated study period (e.g., 1975 to year n , where year n would be 2005, 2010, 2015, etc.) at the 1995 level of demand for the entire study period.

RUN 2.

A second model run (call it C_2) would be made for the same updated study period using year n demand levels over the entire period. Comparing the difference between the long-term averages of the two model runs (C_1 & C_2) will identify the increase in depletions over that time period. Model calibration and verification will be done with each update. There are no “cap” amounts identified in this process; the trigger is whether or not the difference between the two model runs exceeds either the 60,000 acre-foot or the 120,000 acre-foot levels identified in this Biological Opinion. Also, the criteria to determine positive or negative fish population responses is presented in the reinitiation notice of this biological opinion and in Appendix D. As described in the reinitiation notice, the status of fish populations will be reviewed prior to new depletions reaching 60,000 acre-feet/year. This review will begin when actual new depletion levels reach 50,000 acre-feet/year or the year 2015, whichever comes first. Therefore, every 5 years it will be determined if new depletions are approaching

- 4) A report will be prepared documenting the assumptions used and changes in depletions and other model results. The report will be prepared on a water year basis October 1 to September 30. The report will also document any changes made to the model such as updated demand information.
- 5) Reports will be provided on a five year basis. The report covering the period 2001-2005 will be completed by December 31, 2006. The report covering the period 2006-2010 will be completed by December 31, 2011. The reason for the one year lag is to allow the data for the previous year to be reduced and finalized.
- 6) This process as currently envisioned has the potential to become labor intensive depending on the number of model changes and degree of “backcasting” involved. Costs or appropriate cost-share arrangements will be worked out during the development of the Recovery Program’s annual work plan. A Scope of Work will be prepared for the FY 2005 Recovery Program’s work planning process to fund the development of the depletion report and model runs. Furthermore, because of cost considerations, the process identified above is subject to change with the agreement of the Recovery Program’s participants through the current management process.