

Goodeid Species and Evolutionarily Significant Unit (ESU) Status List - Version 8 - March 3, 2017

Type	Count	Genus	Species	Code	Basin(s)	Waters	Distinguishing Features	Reference	Status	Threats	Captive Populations	Population Ratings	Genetics Samples
Species	1	<i>Allodontichthys</i>	<i>hubbsi</i>	Aldhu0	Coahuayana	Arroyo Contla, Rio Tamazula, Arroyo San Jose de Tule, Rio Pihuamo	None	Grudzien & Turner 1983; Webb 2002	Endangered	Quantity, Pollution, Habitat		3 Very Low	
ESU	1	<i>Allodontichthys</i>	<i>hubbsi</i>	Aldhu1	Coahuayana	Arroyo Contla, Rio Tamazula,	None	Grudzien & Turner 1983; Webb 2002; Dominguez-Dominguez, unpublished data	Endangered	Quantity, Pollution, Habitat		3 Very Low	Y
ESU	81	<i>Allodontichthys</i>	<i>hubbsi</i>	Aldhu2	Coahuayana	Arroyo San Jose de Tule, Rio Pihuamo	None	Grudzien & Turner 1983; Webb 2002; Dominguez-Dominguez, unpublished data	Critically Endangered	Quantity, Pollution, Habitat		3 Very Low	N
Species	2	<i>Allodontichthys</i>	<i>polylepis</i>	Aldpo0	Ameca	Arroyo Potrero Grande, Rio de la Pola (Bola), Arroyo Diabolos (Puente Davalos)	None	Rauchenberger 1988; Webb 2002	Critically Endangered	Quantity, Biotic		4 Very Low	
ESU	2	<i>Allodontichthys</i>	<i>polylepis</i>	Aldpo1	Ameca	Arroyo Potrero Grande, Rio de la Pola (Bola), Arroyo Diabolos (Puente Davalos)	None	Rauchenberger 1988; Webb 2002	Critically Endangered	Quantity, Biotic		4 Very Low	Y
Species	3	<i>Allodontichthys</i>	<i>tamazulae</i>	Aldta0	Coahuayana	Arroyo Contla, Rio Tamazula, Arroyo San Jose de Tule, Rio Tuxpan, Rio San Jeronimo, Rio Pihuamo	None	Grudzien & Turner 1983; Webb 2002	Vulnerable	Quantity, Pollution, Habitat		13 Medium	
ESU	3	<i>Allodontichthys</i>	<i>tamazulae</i>	Aldta1	Coahuayana	Arroyo Contla, Rio Tamazula, Arroyo San Jose de Tule, Rio Tuxpan, Rio San Jeronimo, Rio Pihuamo	None	Grudzien & Turner 1983; Webb 2002	Vulnerable	Quantity, Pollution, Habitat		13 Medium	Y
Species	4	<i>Allodontichthys</i>	<i>zonistius</i>	Aldzo0	Armeria, Coahuayana	Rio Armeria, Rio Ayuquila, Arroyo Ahuacapan, Arroyo Manatlan, Rio Tuxcacuesco, Rio Salado	None	Grudzien & Turner 1983; Webb 2002	Vulnerable	Pollution, Biotic		10 Low	
ESU	4	<i>Allodontichthys</i>	<i>zonistius</i>	Aldzo1	Armeria, Coahuayana	Rio Armeria, Rio Ayuquila, Arroyo Ahuacapan, Arroyo Manatlan, Rio Tuxcacuesco, Rio Salado	None	Grudzien & Turner 1983; Webb 2002	Vulnerable	Pollution, Biotic		10 Low	Y
Species	5	<i>Alloophorus</i>	<i>robustus</i>	Alpro0	Santiago, Lerma, Morelia, Balsas, Patzcuaro, Zirahuen	See ESU's	Genetics, Biogeography	Dominguez-Dominguez et al. 2010	Vulnerable	Biotic, Pollution, Quantity, Overharvest		7 Low	
ESU	5	<i>Alloophorus</i>	<i>robustus</i>	Alpro1	Santiago, Lerma, Balsas	Rio Lerma, Rio Laja, Rio Duero, Rio Celio, Manantial La Luz, Presa Orandino, Lago Camecuaro, Laguna Las Negritos (La Alberca), Lago de Chapala, Laguna Santa Catarina, Uruapan Park, Cotija, Presa San Juanico, Tocombo	Genetics, Biogeography	Dominguez-Dominguez et al. 2010	Vulnerable	Pollution, Biotic, Overharvest		3 Low	Y
ESU	6	<i>Alloophorus</i>	<i>robustus</i>	Alpro2	Morelia, Lerma	Lago Cuitzeo, Manantial la Mintzita, Presa Cointzio, Lago Zacapu	Genetics, Biogeography	Dominguez-Dominguez et al. 2010	Vulnerable	Pollution, Biotic		6 Low	Y
ESU	7	<i>Alloophorus</i>	<i>robustus</i>	Alpro3	Lerma	Rio Turbio, San Francisco del Rincon	Genetics, Biogeography	Dominguez-Dominguez et al. 2010	Critically Endangered	Quantity, Biotic		0 NONE	Y

ESU	8	<i>Allophorus</i>	<i>robustus</i>	Alpro4	Patzcuaro, Zirahuén	Lago Patzcuaro, Tzintzuntzan, Manantial Rancho el Molino Viejo (Chapultepec Spring), Lago Zirahuén	Genetics, Biogeography	Dominguez-Dominguez et al. 2010	Critically Endangered	Pollution, Biotic	1	Very Low	Y
Species	6	<i>Allotoca</i>	<i>catarinae</i>	Alta0	Balsas	Rio Cupatitzio, Presa Calzontzin, Manantial Santa Catarina, El Saucó Uruapan, Uruapan Park	None	Doadrio & Dominguez 2004; Corona-Santiago et al. 2015	Vulnerable	Biotic, Pollution, Habitat	8	Low	
ESU	9	<i>Allotoca</i>	<i>catarinae</i>	Alta1	Balsas	Rio Cupatitzio, Presa Calzontzin, Manantial Santa Catarina, El Saucó Uruapan, Uruapan Park	None	Doadrio & Dominguez 2004; Corona-Santiago et al. 2015	Vulnerable	Biotic, Pollution, Habitat	8	Low	Y
Species	7	<i>Allotoca (Neophorus)</i>	<i>diazi</i>	Altdi0	Patzcuaro, Zirahuén	Lago Patzcuaro, Manantial Rancho el Molino Viejo (Chapultepec Spring), Tzintzuntzan, Lago Zirahuén	None	Doadrio & Dominguez 2004; Corona-Santiago et al. 2015	Endangered	Biotic, Pollution	3	Very Low	
ESU	10	<i>Allotoca (Neophorus)</i>	<i>diazi</i>	Altdi1	Patzcuaro, Zirahuén	Lago Patzcuaro, Manantial Rancho el Molino Viejo (Chapultepec Spring), Tzintzuntzan, Lago Zirahuén	None	Doadrio & Dominguez 2004; Corona-Santiago et al. 2015	Endangered	Biotic, Pollution	3	Very Low	Y
Species	8	<i>Allotoca</i>	<i>dugesii</i>	Altdu0	Santiago, Lerma, Morelia, Patzcuaro, Zirahuén	See ESU's	Biogeography	Dominguez-Dominguez et al. 2006	Endangered	Biotic, Pollution, Quantity,	19	Medium	
ESU	11	<i>Allotoca</i>	<i>dugesii</i>	Altdu1	Santiago, Lerma	Rio Verde, Rio Santiago, Lago de Chapala, Rio Duero	Biogeography	Dominguez-Dominguez et al. 2006	Critically Endangered	Pollution, Quantity, Biotic	7	Low	N
ESU	12	<i>Allotoca</i>	<i>dugesii</i>	Altdu2	Lerma	Rio Turbio, San Francisco del Rincon	Biogeography	Dominguez-Dominguez et al. 2006	Critically Endangered	Pollution, Quantity, Biotic	0	NONE	N
ESU	13	<i>Allotoca</i>	<i>dugesii</i>	Altdu3	Morelia, Lerma	Lago Cuitzeo, Manantial La Maiza, Colonia Guadalupe, Presa Cointzio, Lago Yuriria	Biogeography	Dominguez-Dominguez et al. 2006, 2010	Endangered	Pollution, Quantity, Biotic	4	Very Low	Y
ESU	14	<i>Allotoca</i>	<i>dugesii</i>	Altdu4	Patzcuaro, Zirahuén	Lago Patzcuaro, Rancho el Molino Viejo (Chapultepec Spring), Lago Zirahuén	Biogeography	Dominguez-Dominguez et al. 2006	Critically Endangered	Pollution, Biotic	8	Low	Y
Species	9	<i>Allotoca</i>	<i>goslinei</i>	Altgo0	Ameca	Rio Ameca, Arroyo Potrero Grande	None	Smith & Miller 1987	EXTINCT IN THE WILD	Biotic, Pollution	13	Medium	
ESU	15	<i>Allotoca</i>	<i>goslinei</i>	Altgo1	Ameca	Rio Ameca, Arroyo Potrero Grande	None	Smith & Miller 1987	EXTINCT IN THE WILD	Biotic, Pollution	13	Medium	Y
Species	10	<i>Allotoca</i>	<i>maculata</i>	Altma0	Ameca, Magdalena	See ESU's	Genetics	Smith & Miller 1980; Doadrio & Dominguez 2004	Critically Endangered	Quantity, Pollution, Habitat	3	Very Low	
ESU	16	<i>Allotoca</i>	<i>maculata</i>	Altma1	Magdalena	Lago Magdalena	Genetics	Doadrio & Dominguez 2004; Dominguez-Dominguez et al. 2010	Critically Endangered	Quantity, Pollution	0	NONE	N
ESU	17	<i>Allotoca</i>	<i>maculata (sp., "species 3")</i>	Altma2	Ameca	Rio San Marcos, Granja Sahuaripa, Etzatlan, Laguna Palo Verde	Genetics	Doadrio & Dominguez 2004; Dominguez-Dominguez et al. 2010	Critically Endangered	Quantity, Pollution, Habitat	3	Very Low	Y
Species	11	<i>Allotoca</i>	<i>meeki</i>	Altme0	Zirahuén	Lago Zirahuén, Laguna Opopeo	None	Doadrio & Dominguez 2004; Corona-Santiago et al. 2015	Critically Endangered	Biotic	10	Low	
ESU	18	<i>Allotoca</i>	<i>meeki</i>	Altme1	Zirahuén	Lago Zirahuén, Laguna Opopeo	None	Doadrio & Dominguez 2004; Corona-Santiago et al. 2015	Critically Endangered	Biotic	10	Low	Y

Species	12	<i>Allotoca zacapuensis</i>	Alta0	Lerma	Lago Zacapu	None	Meyer et al. 2001, Doadrio & Dominguez 2004	Critically Endangered	Biotic	9	Low	
ESU	19	<i>Allotoca zacapuensis</i>	Alta1	Lerma	Lago Zacapu	None	Meyer et al. 2001, Doadrio & Dominguez 2004	Critically Endangered	Biotic	9	Low	Y
Species	13	<i>Ameca splendens</i>	Amesp0	Ameca, Magdalena, Sayula	Manantial and Rio Teuchitlan, Rio Ameca, Presa La Vega, Manantial Almoloya, Tangué El Molino, Cuyacapan, Sayula	None	Dominguez-Dominguez et al. 2010	Endangered	Pollution, Biotic, Habitat	27	High	
ESU	20	<i>Ameca splendens</i>	Amesp1	Ameca	Manantial and Rio Teuchitlan, Rio Ameca, Presa La Vega, Manantial Almoloya, Tanque El Molino, Cuyacapan, Sayula	None	Dominguez-Dominguez et al. 2010	Endangered	Pollution, Biotic, Habitat	27	High	Y
Species	14	<i>Ataenobius toweri</i>	Atato0	Panuco	Laguna Media Luna, Laguna los Anteojitos, Lago de la Creda, Rio Verde, Villa Juarez	None	Doadrio & Dominguez 2004	Vulnerable	Biotic, Habitat	22	Medium	
ESU	21	<i>Ataenobius toweri</i>	Atato1	Panuco	Laguna Media Luna, Laguna los Anteojitos, Lago de la Creda, Rio Verde, Villa Juarez	None	Doadrio & Dominguez 2004	Vulnerable	Biotic, Habitat	22	Medium	Y
Species	15	<i>Chapalichthys encaustus</i>	Chaen0	Lerma	Lago Chapala, Lago Cajititlan, Lago Los Negritos (La Alberca), Manantial La Luz, Presa Orandino, Rio Duero, Rio Lerma	None	Doadrio & Dominguez 2004	Vulnerable	Pollution, Biotic	14	Medium	
ESU	22	<i>Chapalichthys encaustus</i>	Chaen1	Lerma	Lago Chapala, Lago Cajititlan, Lago Los (La Alberca) Manantial La Luz, Presa Orandino, Rio Duero, Rio Lerma	None	Doadrio & Dominguez 2004	Vulnerable	Pollution, Biotic	14	Medium	Y
Species	16	<i>Chapalichthys pardalis</i>	Chapa0	Balsas	See ESU's	Morphology	Alvarez del Villar 1963; Piller, unpublished data	Endangered	Pollution	25	Medium	
ESU	23	<i>Chapalichthys pardalis</i>	Chapa1	Balsas	Manantial Tocumbo	Morphology	Alvarez del Villar 1963; Piller, unpublished data	Critically Endangered	Pollution	18	Medium	Y
ESU	24	<i>Chapalichthys pardalis (peraticus)</i>	Chapa2	Balsas	Presa San Juanico	Morphology	Alvarez del Villar 1963; Piller, unpublished data	Endangered	Pollution	7	Low	Y
Species	17	<i>Characodon audax</i>	Chrau0	Mezquital	El Toboso	None	Fitzsimons 1972; Smith & Miller 1986; Doadrio & Dominguez 2004; Tobler & Bertran 2014	Critically Endangered	Biotic, Quantity	19	Medium	
ESU	25	<i>Characodon audax</i>	Chrau1	Mezquital	El Toboso	None	Fitzsimons 1972; Smith & Miller 1986; Doadrio & Dominguez 2004; Tobler & Bertran 2014	Critically Endangered	Biotic, Quantity	19	Medium	Y
Species	18	<i>Characodon lateralis</i>	Chria0	Mezquital	See ESU's	Genetics, Morphology	Fitzsimons 1972; Smith & Miller 1986; Doadrio & Dominguez 2004; Tobler & Bertran 2014	Critically Endangered	Quantity, Biotic, Pollution	78	High	

ESU	26	<i>Characodon</i>	<i>lateralis (audax)</i>	Chrla1	Mezquital	Cerro Gordo, Manantial El Carmen, Arroyo San Rafael	Genetics, Morphology	Fitzsimons 1972; Doadrio & Dominguez 2004; Tobler & Bertran 2014	Critically Endangered	Quantity	0	NONE	N
ESU	27	<i>Characodon</i>	<i>lateralis (audax)</i>	Chrla2	Mezquital	Los Pinos	Genetics, Morphology	Fitzsimons 1972; Doadrio & Dominguez 2004; Tobler & Bertran 2014	EXTINCT IN THE WILD	Quantity	13	Medium	N
ESU	28	<i>Characodon</i>	<i>lateralis (audax)</i>	Chrla3	Mezquital	Presa Penon del Aguila, Rio Mezquital, Guadalupe Aquilera, Laguna Seca, Aguada de las Mujeres	Genetics, Morphology	Fitzsimons 1972; Doadrio & Dominguez 2004; Tobler & Bertran 2014	Critically Endangered	Quantity, Biotic, Pollution	13	Medium	N
ESU	29	<i>Characodon</i>	<i>lateralis (audax)</i>	Chrla4	Mezquital	Hot Springs, Presa Tunal, Rio Saceda, San Vincente de los Chupaderos	Genetics, Morphology	Fitzsimons 1972; Doadrio & Dominguez 2004; Tobler & Bertran 2014	EXTINCT	Quantity, Biotic, Pollution	0	NONE	X
ESU	30	<i>Characodon</i>	<i>lateralis (audax)</i>	Chrla5	Mezquital	Abraham Gonzales, Ojo Garabato, 27 de Noviembre	Genetics, Morphology	Fitzsimons 1972; Doadrio & Dominguez 2004; Tobler & Bertran 2014	Critically Endangered	Quantity	13	Medium	Y
ESU	31	<i>Characodon</i>	<i>lateralis (audax)</i>	Chrla6	Mezquital	Puente Pino Suarez	Genetics, Morphology	Fitzsimons 1972; Doadrio & Dominguez 2004; Tobler & Bertran 2014	Critically Endangered	Quantity	6	Low	N
ESU	32	<i>Characodon</i>	<i>lateralis</i>	Chrla7	Mezquital	Ojo de Agua de San Juan, Los Berros, Ojo de Nombre de Dios, La Constanca	Genetics, Morphology	Fitzsimons 1972; Doadrio & Dominguez 2004; Tobler & Bertran 2014	Critically Endangered	Quantity, Biotic, Pollution	34	High	N
ESU	33	<i>Characodon</i>	<i>lateralis</i>	Chrla8	Mezquital	Amado Nervo	Genetics, Morphology	Fitzsimons 1972; Doadrio & Dominguez 2004; Tobler & Bertran 2014	EXTINCT IN THE WILD	Quantity, Biotic, Pollution	9	Low	N
Species	19	<i>Characodon</i>	<i>garmani</i>	Chrga0	Valle de Parras	Parras	Morpholgy	Fitzsimons 1972	EXTINCT	Quantity, Habitat	0	NONE	
ESU	34	<i>Characodon</i>	<i>garmani</i>	Chrga1	Valle de Parras	Parras	Morpholgy	Fitzsimons 1972	EXTINCT	Quantity, Habitat	0	NONE	X
Species	20	<i>Girardinichthys (Hubbsina)</i>	<i>ireneae (turneri)</i>	Girir0	Lerma	Lago Zacapu, Laguna Naranja	None	Radda & Meyer 2003; Doadrio & Dominguez 2004	Critically Endangered	Pollution, Biotic	7	Low	
ESU	35	<i>Girardinichthys (Hubbsina)</i>	<i>ireneae (turneri)</i>	Girir1	Lerma	Lago Zacapu, Laguna Naranja	None	Radda & Meyer 2003; Doadrio & Dominguez 2004	Critically Endangered	Pollution, Biotic	7	Low	Y
Species	21	<i>Girardinichthys</i>	<i>multiradiatus</i>	Girmu0	Lerma, Balsas, Panuco, Zempoala	See ESU's	Genetics, Morphology, Biogeography	Dominguez-Dominguez et al. 2010; Macias-Garcia et al. 2012	Vulnerable	Biotic, Pollution, Habitat	17	Medium	
ESU	36	<i>Girardinichthys</i>	<i>multiradiatus</i>	Girmu1	Zempoala	Lagunas de Zempoala	Biogeography	Dominguez-Dominguez et al. 2010; Macias-Garcia et al. 2012	Vulnerable	Biotic	0	NONE	Y

ESU	37	<i>Girardinichthys</i>	<i>multiradiatus</i>	Girmu2	Merma, Panuco, Balsas	Manantial San Miguel-Maravatio, Toluca, Cienega San Nicolas Peralta, Presa Chincua, Santiago, Salazar, San Pedro Techuchulco, Temascalcingo, Chaignahuapan, Ignacio Ramirez, Ixtlahuaca, Acambay, Rio Tuxpan, El Porvenir, San Matias del Grande, Presa Taxingu, Amulco, Amealco, Presa San Juanico, Presa Huapango, Presa San Martin	Genetics, Morphology	Dominguez-Dominguez et al. 2010; Macias-Garcia et al. 2012	Vulnerable	Biotic, Pollution, Habitat	17	Medium	Y
Species	22	<i>Girardinichthys (Hubbsina)</i>	<i>turneri</i>	Girtu0	Morelia, Lerma	Lago Cuitzeo, Lago Yurrira	None	Radda & Meyer 2003; Dominguez-Dominguez et al. 2006	EXTINCT	Pollution, Biotic, Quantity	0	NONE	
ESU	38	<i>Girardinichthys (Hubbsina)</i>	<i>turneri</i>	Girtu1	Morelia, Lerma	Lago Cuitzeo, Lago Yurrira	None	Radda & Meyer 2003; Dominguez-Dominguez et al. 2006	EXTINCT	Pollution, Biotic, Quantity	0	NONE	X
Species	23	<i>Girardinichthys</i>	<i>viviparus</i>	Girvi0	Valle de Mexico, Panuco (introduced)	Lago Mayor-Chapultepec, Lago Xochimilco, Lago Texcoco, Lago Alameda Oriente, Lago Zumpongo (introduced), Lago Tecocomulco (introduced)	None	Dominguez-Dominguez et al. 2006	Endangered	Quantity, Pollution, Habitat	11	Medium	
ESU	39	<i>Girardinichthys</i>	<i>viviparus</i>	Girvi1	Valle de Mexico, Panuco (introduced)	Lago Mayor-Chapultepec, Lago Xochimilco, Lago Texcoco, Lago Alameda Oriente, Lago Zumpongo (introduced), Lago Tecocomulco (introduced)	None	Dominguez-Dominguez et al. 2006	Endangered	Quantity, Pollution, Habitat	11	Medium	Y
Species	24	<i>Goodea</i>	<i>atripinnis</i>	Goat0	Mezquital (introduced), Santiago and adjacent direct Pacific tributaries, Lerma, Armeria, Ameca, Magdalena, Sayula, Morelia, Balsas, Valle de Mexico (introduced), Panuco	See ESU's	Genetics, Morphology	Piller, unpublished data; Doadrio & Dominguez 2004; Dominguez-Dominguez et al. 2010; Foster et al. 2014	Least Concern	Quantity, Biotic, Pollution, Habitat, Overharvest	20	Medium	
ESU	40	<i>Goodea</i>	<i>atripinnis (luitpoldi)</i>	Goat1	Mezquital (introduced), Santiago and adjacent direct Pacific tributaries, Lerma, Armeria, Ameca, Magdalena, Sayula, Morelia, Balsas, Valle de Mexico (introduced)	Numerous sites within each basin. Occurs at most sites with fish in the Lerma and Morelia basins	Genetics, Morphology	Piller, unpublished data; Doadrio & Dominguez 2004; Dominguez-Dominguez et al. 2010; Foster et al. 2014	Least Concern	Quantity, Biotic, Pollution, Habitat, Overharvest	15	Medium	Y
ESU	41	<i>Goodea</i>	<i>atripinnis (gracilis)</i>	Goat2	Panuco	Rio San Juan del Rio, Rio Tierra Quemada, Rio Santa Maria, Rio & Presa Jesus Maria	Genetics, Morphology	Piller, unpublished data; Doadrio & Dominguez 2004; Dominguez-Dominguez et al. 2010; Foster et al. 2014	Endangered	Quantity, Biotic, Pollution	5	Low	Y

Species	25	<i>Ilyodon</i>	<i>furcidens</i>	Ilyfu0	Armeria, Ameca, Marabasco	Arroyo Potrero Grande, Rio de la Pola (Bola), Arroyo Diabolos (Puente Davalos), Rio Ayuquila, Rio Tuxcacuesco, Arroyo Ahuacapan, Arroyo Manantlan, Rio Comala, Rio Cuautitlan	None	Turner et al. 1983, 1985; Grudzien and Turner 1984; Beltran-Lopez 2013; Stachowski et al. In Press	Least Concern	Pollution, Quantity, Biotic, Habitat	6	Low	
ESU	42	<i>Ilyodon</i>	<i>furcidens (xantusi; "amecae")</i>	Ilyfu1	Ameca, Armeria, Marabasco	Arroyo Potrero Grande, Rio de la Pola (Bola), Arroyo Diabolos (Puente Davalos), Rio Ayuquila, Rio Tuxcacuesco, Arroyo Ahuacapan, Arroyo Manantlan, Rio Comala, Rio Cuautitlan	None	Turner et al. 1983, 1985; Grudzien and Turner 1984; Beltran-Lopez 2013; Stachowski et al. In Press	Least Concern	Pollution, Quantity, Biotic, Habitat	6	Low	Y
Species	26	<i>Ilyodon</i>	<i>whitei</i>	Ilywh0	Coahuayana, Balsas	See ESU's	Genetics, Morphology	Meyer & Forester 1983; Paulo-Mayo & Trujillo-Jimenez 2000; Beltran-Lopez 2013; Stachowski et al. In Press	Vulnerable	Biotic, Pollution	17	Medium	
ESU	43	<i>Ilyodon</i>	<i>whitei (furcidens, xantusi)</i>	Ilywh1	Coahuayana, Balsas	Rio Tamazula, Arroyo Contla, Rio Tuxpan, Arroyo San Jose el Tule, Rio San Jeronimo, Tocombo, Rio Maravillas, Rio Grande de Tepalcatepec, Rio Huamito	Genetics	Beltran-Lopez 2013; Stachowski et al. In Press	Vulnerable	Biotic, Pollution	6	Low	Y
ESU	44	<i>Ilyodon</i>	<i>whitei (cortesae)</i>	Ilywh2	Balsas	Rio Tacambaro, Manantial Cutzarondiro	Morphology	Paulo-Mayo & Trujillo-Jimenez 2000; Beltran-Lopez 2013; Stachowski et al. In Press	Endangered	Biotic, Pollution	10	Low	Y
ESU	45	<i>Ilyodon</i>	<i>whitei (lennoni)</i>	Ilywh3	Balsas	Rio Chacambero, Ciudad Altamirano	Morphology	Meyer & Forester 1983; Beltran-Lopez 2013; Stachowski et al. In Press	Endangered	Biotic, Pollution	1	Very Low	N
ESU	46	<i>Ilyodon</i>	<i>whitei</i>	Ilywh4	Balsas	Rio Amacuzac, Rio Cuautla, Cuernavaca, Morelos, Rio Cutzmala	Genetics	Beltran-Lopez 2013	Vulnerable	Biotic, Pollution	0	NONE	N
ESU	47	<i>Ilyodon</i>	<i>whitei</i>	Ilywh5	Balsas	Rio Atoyac, Izucar de Matamoros, Puebla	Genetics	Beltran-Lopez 2013	Vulnerable	Biotic, Pollution	0	NONE	N
Species	27	<i>Neophorus (Allotoca)</i>	<i>regalis</i>	Neore0	Balsas	Arroyo Los Reyes, Arroyo Aquiles Serdan, Arroyo Huatarillo, Presa Tarecuato, Rio Quitupan	None	Doadrio & Dominguez 2004; Dominguez-Dominguez et al. 2010	Critically Endangered	Habitat, Quantity, Pollution	2	Very Low	
ESU	48	<i>Neophorus (Allotoca)</i>	<i>regalis</i>	Neore1	Balsas	Arroyo Los Reyes, Arroyo Aquiles Serdan, Arroyo Huatarillo, Presa Tarecuato, Rio Quitupan	None	Doadrio & Dominguez 2004; Dominguez-Dominguez et al. 2010	Critically Endangered	Habitat, Quantity, Pollution	2	Very Low	Y
Species	28	<i>Neotoca (Skiffia)</i>	<i>bilineata</i>	Neobi0	Lerma, Morelia	See ESU's	Biogeography	Dominguez-Dominguez et al. 2006, 2010	Endangered	Pollution, Habitat, Biotic	23	Medium	
ESU	49	<i>Neotoca (Skiffia)</i>	<i>bilineata</i>	Neobi1	Lerma	Lago de Chapala	Biogeography	Dominguez-Dominguez et al. 2006	EXTINCT	Pollution, Biotic	0	NONE	X

ESU	50	<i>Neotoca (Skiffia)</i>	<i>billineata</i>	Neobi2	Morelia, Lerma	Rio Salamanca, Rio Laja, Rio Turbio, Lago Yururia, Lago Cuitzeo, Canal de Puente Blanco, Rio Querendaro, Presa Cointzio, Manantial de Borbollon, Manantial La Maiza	Biogeography	Dominguez-Dominguez et al. 2006, 2010	Endangered	Pollution, Habitat, Biotic	23	Medium	Y
Species	29	<i>Skiffia</i>	<i>francesae</i>	Skifr0	Ameca, Sayula	Manantial Teuchitlan	None	Kingston 1978; Dominguez-Dominguez, unpublished data	EXTINCT IN THE WILD	Biotic, Quantity, Pollution	27	High	
ESU	51	<i>Skiffia</i>	<i>francesae</i>	Skifr1	Ameca	Manantial Teuchitlan	None	Kingston 1978; Dominguez-Dominguez, unpublished data	EXTINCT IN THE WILD	Biotic, Pollution	17	Medium	N
ESU	52	<i>Skiffia</i>	<i>francesae (sp., cf. francesae)</i>	Skifr2	Sayula	Tanque El Molino, Cuyacapan, Sayula	None	Dominguez-Dominguez, unpublished data	EXTINCT IN THE WILD	Quantity	10	Low	Y
Species	30	<i>Skiffia</i>	<i>lermae</i>	Skile0	Lerma, Morelia, Patzcuaro, Zirahuen	See ESU's	Genetics, Biogeography	Doadrio & Dominguez 2004; Dominguez-Dominguez et al. 2010	Endangered	Biotic, Habitat, Pollution	8	Low	
ESU	53	<i>Skiffia</i>	<i>lermae</i>	Skile1	Lerma	Lago Zacapu, Rio Laja	Genetics, Biogeography	Doadrio & Dominguez 2004; Dominguez-Dominguez et al. 2010	Endangered	Habitat, Pollution	1	Very Low	Y
ESU	54	<i>Skiffia</i>	<i>lermae</i>	Skile2	Morelia, Lerma	Lago Yuriria, Lago Cuitzeo, Manantial la Mintzita, Presa Cointzio, Manantial la Maiza	Genetics, Biogeography	Doadrio & Dominguez 2004; Dominguez-Dominguez et al. 2010	Endangered	Biotic, Habitat, Pollution	6	Low	Y
ESU	55	<i>Skiffia</i>	<i>lermae</i>	Skile3	Patzcuaro, Zirahuen	Lago Patzcuaro, Manantial Rancho el Molino Viejo (Chapultepec Spring), Urenden, Lago Zirahuen	Genetics, Biogeography	Doadrio & Dominguez 2004; Dominguez-Dominguez et al. 2010	Endangered	Biotic, Pollution	1	Very Low	Y
Species	31	<i>Skiffia</i>	<i>multipunctata</i>	Skimu0	Santiago, Lerma	Rio Santiago, Lago Chapala, Lago Cajititlan, Manantial La Luz, Presa Orandino, Rio Duero, Lago Camecuaro, La Isla Restaurante, Arroyo Uren	None	Doadrio & Dominguez 2004; Dominguez-Dominguez et al. 2010	Endangered	Pollution, Habitat, Biotic	33	High	
ESU	56	<i>Skiffia</i>	<i>multipunctata</i>	Skimu1	Santiago, Lerma	Rio Santiago, Lago Chapala, Lago Cajititlan, Manantial La Luz, Presa Orandino, Rio Duero, Lago Camecuaro, La Isla Restaurante, Arroyo Uren	None	Doadrio & Dominguez 2004; Dominguez-Dominguez et al. 2010	Endangered	Pollution, Habitat, Biotic	33	High	Y
Species	32	<i>Xenophorus</i>	<i>captivus</i>	Xenca0	Panuco and associated endorheic basins	See ESU's	Morphology, Biogeography	Fitzsimons 1979; Dominguez-Dominguez et al. 2010	Critically Endangered	Quantity	26	High	
ESU	57	<i>Xenophorus</i>	<i>captivus exsul</i>	Xenca1	Panuco	Presa Jesus Maria, Rio Tierra Quemada, Rio Santa Maria	Morphology	Fitzsimons 1979; Dominguez-Dominguez et al. 2010	Critically Endangered	Quantity	11	Medium	Y
ESU	58	<i>Xenophorus</i>	<i>captivus</i>	Xenca2	Illescas	Manantial de Illescas	Biogeography	Fitzsimons 1979	EXTINCT IN THE WILD	Quantity	9	Low	N
ESU	59	<i>Xenophorus</i>	<i>captivus erro</i>	Xenca3	Venado-San Luis Potosi	Manantiales de Venados, Moctezuma, Agua de Enmedio, Bledos	Morphology	Fitzsimons 1979	Critically Endangered	Quantity	6	Low	N
Species	33	<i>Xenotaenia</i>	<i>resolanae</i>	Xenre0	Marabasco, Purificacion	See ESU's	Morphology	Lyons 1996	Vulnerable	Habitat, Pollution	10	Low	

ESU	60	<i>Xenotaenia</i>	<i>resolanae</i>	Xenre1	Marabasco	Rio Cuautitlan, Rio San Antonio, Arroyo Las Marias, Arroyo El Durazno	Morphology	Lyons 1996	Vulnerable	Habitat	0	NONE	Y
ESU	61	<i>Xenotaenia</i>	<i>resolanae</i>	Xenre2	Purificacion	Rio Purificacion, Rio Resolana, Arroyo Tecolote, Arroyo el Conejo	Morphology	Lyons 1996	Vulnerable	Habitat, Pollution	10	Low	Y
Species	34	<i>Xenotoca</i>	<i>eiseni</i>	Xenei0	Santiago, Compostela	See ESU's	Genetics	Piller et al. 2015; Dominguez et al. 2016	Endangered	Habitat, Pollution	46	High	
ESU	62	<i>Xenotoca</i>	<i>eiseni</i>	Xenei1	Santiago	Manantial 6 de enero, Manantial el Sacristan, Rio Santiago	Genetics	Piller et al. 2015; Dominguez et al. 2016	Endangered	Habitat, Pollution	7	Low	N
ESU	63	<i>Xenotoca</i>	<i>eiseni</i>	Xenei2	Compostela	Rio Compostela	Genetics	Piller et al. 2015; Dominguez et al. 2016	Endangered	Habitat, Pollution	3	Very Low	N
Species	35	<i>Xenotoca</i>	<i>lyansi</i>	Xenly0	Coahuayana, Armeria	See ESU's	Genetics, Biogeography	Piller et al. 2015; Dominguez et al. 2016	Endangered	Habitat, Pollution	13	Medium	
ESU	64	<i>Xenotoca</i>	<i>eiseni</i>	Xenly1	Coahuayana	Rio Tamazula	Genetics	Piller et al. 2015; Dominguez et al. 2016	Endangered	Habitat, Pollution	13	Medium	Y
ESU	65	<i>Xenotoca</i>	<i>eiseni</i>	Xenly2	Armeria	Rio Ayuquila	Biogeography	Lyons unpublished data	Critically Endangered	Habitat, Pollution	0	NONE	N
Species	36	<i>Xenotoca</i>	<i>doadrioi</i>	Xendo0	Ameca, Magdalena	See ESU's	None	Piller et al. 2015; Dominguez et al. 2016	Endangered	Quantity, Pollution	23	Medium	
ESU	66	<i>Xenotoca</i>	<i>doadrioi</i>	Xendo1	Ameca, Magdalena	Rio San Marcos, Granja Sahuaripa, Etzatlán, Laguna Palo Verde, Manantial Almoloya, Manantial El Tanque, Rio Caliente	None	Piller et al. 2015; Dominguez et al. 2016	Endangered	Quantity, Pollution	23	Medium	Y
Species	37	<i>Xenotoca</i>	<i>melanosoma</i>	Xenme0	Ameca, Armeria	See ESU's	Genetics, Biogeography	Dominguez-Dominguez et al. 2006, 2010, unpublished data	Vulnerable	Quantity, Pollution	9	Low	
ESU	67	<i>Xenotoca</i>	<i>melanosoma</i>	Xenme1	Ameca	Rio San Marcos, Granja Sahuaripa, Etzatlán, Laguna Palo Verde, El Tanque, Manantial Almoloya, La Quemada, Rio Ameca, Rio Caliente, Rio Salado, Manantial Ahuisculco, Buenas Aires	Genetics, Biogeography	Dominguez-Dominguez et al. 2006, 2010, unpublished data	Vulnerable	Quantity, Pollution	6	Low	N
ESU	82	<i>Xenotoca</i>	<i>melanosoma</i>	Xenme4	Magdalena	Lago and Rio Magdalena, Estancia de Allyones	Genetics, Biogeography	Dominguez-Dominguez et al. 2006, 2010, unpublished data	Critically Endangered	Quantity, Pollution	3	Very Low	N
ESU	68	<i>Xenotoca</i>	<i>melanosoma</i>	Xenme2	Sayula	Tanque El Molino, Cuyacapan, Sayula, Lago Sayula, Presa Molino Viejo, Lago Zapotlanejo, Lago Atotonilco, Lago San Marcos, Lake Zacoalco, Lago Zapotlan	Genetics, Biogeography	Dominguez-Dominguez et al. 2006, 2010, unpublished data	Endangered	Quantity, Pollution	0	NONE	Y
ESU	69	<i>Xenotoca</i>	<i>melanosoma</i>	Xenme3	Armeria, Coahuayana	Rio Ayuquila, Achacales, Rio Tamazula	Genetics, Biogeography	Dominguez-Dominguez et al. 2006, 2010, unpublished data	Endangered	Quantity, Pollution	3	Very Low	N
Species	38	<i>Xenotoca</i>	<i>variata</i>	Xenva0	Lerma, Santiago, Panuco, Morelia, Aguanaval	See ESU's	Genetics, Biogeography	Dominguez-Dominguez et al. 2010	Least Concern	Pollution, Quantity, Biotic	30	High	

ESU	70	<i>Xenotoca</i>	<i>variata</i>	Xenva1	Santiago, Lerma, Panuco	Rio Santiago, Jesus Maria Aguascalientes, Presa San Pablo de Nazas, Rio Lerma, Rio Laja, Rio Turbio, San Francisco del Rincon, Huingo, Araro, Presa Allende, Presa Gallinero, Presa Neutla, Rio Jesus Maria, Rio Tierra Quemada	Genetics	Dominguez-Dominguez et al. 2010	Least Concern	Pollution, Quantity, Biotic	20	Medium	Y
ESU	71	<i>Xenotoca</i>	<i>variata</i>	Xenva2	Lerma	Laguna Los Negritos (La Alberca)	Genetics	Dominguez-Dominguez et al. 2010	Vulnerable	Pollution, Quantity, Biotic	3	Very Low	Y
ESU	72	<i>Xenotoca</i>	<i>variata</i>	Xenva3	Lerma	Laguna Zacapu, Rio Angulo	Genetics	Dominguez-Dominguez et al. 2010	Vulnerable	Pollution, Quantity, Biotic	4	Very Low	Y
ESU	73	<i>Xenotoca</i>	<i>variata</i>	Xenva4	Aquanaval	Atotonilco, Manantial La Valenciana, Zacatecas	Genetics	Dominguez-Dominguez et al. 2010	Vulnerable	Pollution, Quantity, Biotic	2	Very Low	Y
ESU	74	<i>Xenotoca</i>	<i>variata (cf. variata)</i>	Xenva5	Morelia	Lago Cuitzeo, Manantial la Mintzita, Presa Cointzio, Manantial la Maiza, Rio Querendaro, Manantial San Cristobal	Genetics	Dominguez-Dominguez et al. 2010	Least Concern	Pollution, Quantity, Biotic	4	Very Low	Y
Species	39	Zoogoneticus	purhepechus	Zoopp0	Lerma, Ameca, Magdalena, Sayula	See ESU's	Genetics	Dominguez-Dominguez et al. 2008	Endangered	Pollution, Biotic, Habitat	17	Medium	
ESU	75	<i>Zoogoneticus</i>	<i>purhepechus</i>	Zoopp1	Lerma	Laguna Los Negritos (La Alberca), Lago Chapala, Jaripo, La Plantanera, Lago Camecuaro, Manantial La Luz, Presa Orandino, Rio Celio, Rio Duero, Manantial Cupatchiro	Genetics	Dominguez-Dominguez et al. 2008	Endangered	Pollution, Biotic, Habitat	12	Medium	Y
ESU	76	<i>Zoogoneticus</i>	<i>purhepechus</i>	Zoopp2	Ameca, Magdalena	Rio Ameca, Veneros, Manantial Almoloya, Lago Magdalena, Rio & Manantial Teuchitlan	Genetics	Dominguez-Dominguez et al. 2008	Endangered	Pollution, Biotic, Habitat	5	Low	Y
ESU	77	<i>Zoogoneticus</i>	<i>purhepechus</i>	Zoopp3	Sayula	Tanque El Molino, Cuyacapan	None	Dominguez-Dominguez unpublished data	Critically Endangered	Quantity	3	Very Low	N
Species	40	Zoogoneticus	quitzeoensis	Zooqu0	Lerma, Morelia	See ESU's	Genetics	Dominguez-Dominguez et al. 2008	Endangered	Pollution, Biotic, Habitat	17	Medium	
ESU	78	<i>Zoogoneticus</i>	<i>quitzeoensis</i>	Zooqu1	Lerma	San Francisco del Rincon, Rio Turbio	Genetics	Dominguez-Dominguez et al. 2008	Critically Endangered	Pollution, Biotic, Habitat	0	NONE	N
ESU	79	<i>Zoogoneticus</i>	<i>quitzeoensis</i>	Zooqu2	Lerma, Morelia	Lago Zacapu, Lago Cuitzeo, Presa Cointzio, Rio Morelia, Manantial la Mintzita, Tarejero	Genetics	Dominguez-Dominguez et al. 2008	Endangered	Pollution, Biotic, Habitat	17	Medium	Y
Species	41	Zoogoneticus	tequila	Zoote0	Ameca	Manantial & Rio Teuchitlan	None	Webb & Miller 1998; Dominguez-Dominguez et al. 2010	EXTINCT IN THE WILD	Biotic	38	High	
ESU	80	<i>Zoogoneticus</i>	<i>tequila</i>	Zoote1	Ameca	Manantial & Rio Teuchitlan	None	Webb & Miller 1998; Dominguez-Dominguez et al. 2010	EXTINCT IN THE WILD	Biotic	38	High	Y

