

Table 1. DRAFT Hays County Species of Concern

Taxon	Common Name	Scientific Name	Habitat Type	Nature Serve Rank _a	Federal Status	State Status	Forest Guardians Petition _b	Karst Waters Inst. List _c	Texas NDD List _d	TPWD Rare Species List _e	County Range	INCLUDE in HCP		Recorded only in Hays County - highlighted in green (Randy Gibson)		other info
												YES	NO	range	localities in Hays	
Plants	Texas Amorpha	Amorpha roemeriana	Terrestrial								X					
Plants	Hill Country wild-mercury	Argythamnia aphoroides	Terrestrial							✓	X					
Plants	Texas Barberrry	Berberis swaseyi	Terrestrial							✓	X					
Plants	Leafy brickellbush	Brickellia dentata	Terrestrial							✓	X					
Plants	Glass Mountains coral-rot	Hexalectris nitida	Terrestrial							✓	X					
Plants	Warnock's coral-root	Hexalectris warnockii	Terrestrial							✓	✓	X				
Plants	Heller's false-gromwell	Onosmodium helleri	Terrestrial							✓	X					
Plants	Canyon mock-orange	Philadelphus ernestii	Terrestrial							✓	✓	X				
Plants	Buckley tridens	Tridens buckleyanus	Terrestrial							✓	✓	X				
Plants	Texas wild-rice	Zizania texana	Aquatic		LE	E				✓	✓	X	LE, LL, RG--			
Plants		Cuscuta exaltata		G3								LE				
Plants		Clematis texensis		G3								LE				
Plants		Dalea hallii		G3								LE				
Plants		Styrax platanifolius subsp. platanifolius		G3T3								LE last obs - 1989				
Plants		Penstemon triflorus subsp. integrifolius		G3T3								LE taxonomic issues				
Plants		Seymeria texana		G3								LE				
Plants		Tomanthera densiflora (=Agalinis)		G3								LE Historical				
Invertebrates																
Acoelomorpha																
Turbellarians		Sphalloplana mohri	Aquatic/Karst	G3								X		Hays, Kendall, Travis	Ezell's Cave?	
Arthropods																
Arachnids	Bandit Cave spider	Cicurina bandida	Karst	G1G2			✓	✓		✓	X	LE, RG	GS	Hays, Travis, Williamson	Taylor Bat Cave	
Arachnids	A cave spider	Cicurina cueva	Karst	G1G2			✓	✓		✓	X	LE, RG	GS	Hays, Travis, Williamson		
Arachnids		Cicurina ezelli	Karst								X	LE, RG--	GS	Hays	Ezell's Cave, Grapevine Cave	
Arachnids		Cicurina russelli	Karst					✓			X	LE, RG--	GS	Hays/Comal	Boyett's Cave	
Arachnids		Cicurina ubicki	Karst					✓			X	LE, RG	GS	Hays	Fern Cave, McLothlin Sink	
Arachnids	Undescribed species	Dinocheris sp.	Karst							✓	X	RG	GS			
Arachnids	Undescribed species	Eidmannella sp.	Karst							✓	X	RG	GS			
Arachnids		Gaucelmus augustinus	Karst	G3G4				✓			X	RG	GS	Comal, Hays, Kendall, Travis, Comal		
Arachnids		Hesperocheilus unicolor	Karst							✓	X	RG	GS	SWG		
Arachnids	Undescribed species	Neoleptoneta sp.	Karst							✓	X	RG--	GS	Hays	sp. 1 from Boyett's Cave, sp. 2 from Burnett Ranch Cave	
Arachnids	Undescribed species	Philochorus sp.	Karst							✓	X	RG	GS			
Arachnids		Tartarocraegris comanche	Karst	G1G2				✓			X	LE, RG	GS	Burnet, Hays, Travis		
Arachnids		Tartarocraegris cooki	Karst	G3				✓			X	RG	GS	Bandera, Bexar, Comal, Hays	Magen's Sink	
Arachnids		Tartarocraegris grubbsi	Karst	G1G2				✓			X	LE, RG--	GS	Hays	Wissman's Sink	
Arachnids		Texella diplospina	Karst	G1G2				✓			X	LE, RG--	GS	Hays	Ladder Cave	
Arachnids		Texella grubbsi	Karst	G1G2				✓			X	LE, RG--	GS	Burnet, Hays, Travis	Burnett Ranch Cave, Wissman's Sink, Wissman's Sink #2	
Arachnids		Texella mulaiki	Karst	G3				✓			X	RG	GS	Comal, Hays, Williamson, Travis	Boggs Cave, Ezell's Cave, Fern Cave, Ladder Cave, McCarty Cave, McLothlin Sink, Tricorporous Cave	
Arachnids		Texella renkesae	Karst	G1G2				✓			X	LE, RG--	GS	Hays	Ezell's Cave, Maggens Sink Hole	
Arachnids		Tyrannochthonius texanus	Karst	G3				✓			X	RG--	GS	Hays	Arrowhead Cave	
Arachnids	Undescribed species	Tyrannochthonius sp.	Karst					✓			X	RG	GS	Bexar, Hays	Wissman's Sink	
Crustaceans		Allotxiweckelia hirsuta	Aquatic/Karst	G3				✓			X	RG	GS	Bexar, Hays	Diversion Spring, TSU Well	
Crustaceans		Artesia subterranea	Aquatic/Karst	G1G2				✓			X	LE, RG	GS	Comal, Hays	Diversion Spring, TSU Well	
Crustaceans		Brackenridgia cavernarum	Aquatic/Karst	G3				✓			X	RG	GS	?	Beaver Cave, Ezell's Cave	
Crustaceans		Caecidotea reddelli	Aquatic/Karst	G3				✓			X	RG	GS	Bell, Coryell, Dallas, Hays, Henderson, Limstone, San Augustine, Travis, Williamson		central to northeastern TX
Crustaceans		Cirolanides texensis	Aquatic/Karst	G3				✓			X	RG	GS	southern Edwards Plateau region in TX and N Mexico	Diversion Spring, Ezell's Cave, Rattlesnake Cave, TSU Well	
Crustaceans		Holsingerius samacos	Aquatic/Karst	G1G2				✓			X	LE, RG--	GS	Hays	TSU Well	
Crustaceans	Texas troglobitic water slater	Lirceolus smithii	Aquatic/Karst	G1G2			✓			✓	X	LE, RG--	GS	Hays	Diversion Spring, TSU Well	
Crustaceans	A cave obligate crustacean	Monodella texana	Aquatic/Karst							✓	X	RG	GS	Bexar, Comal, Hays, Uvalde	Diversion Spring, Ezell's Cave, TSU Well	new name - <i>Tethysbaena texana</i>
Crustaceans	Texas cave shrimp	Palaemonetes antrorum	Aquatic/Karst	G3				✓			X	RG	GS	Hays, Bexar	Diversion Spring, Ezell's Cave, TSU Well	
Crustaceans		Palaemonetes holthuisi	Aquatic/Karst	G1G2				✓			X	LE, RG--	GS	Hays	Ezell's Cave, TSU Well?	new name - <i>Calathaemon holthuisi</i>
Crustaceans		Seborgia relicta	Aquatic/Karst	G3				✓			X	RG	GS	Comal, Hays, Medina	Ezell's Cave, TSU Well	
Crustaceans	Balcones cave amphipod	Stygobromus balconis	Aquatic/Karst	G3				✓			X	RG	GS	Hays, Travis	Autumn Woods Well, Boyett's Cave	
Crustaceans	Ezell's cave amphipod	Stygobromus flagellatus	Aquatic/Karst	G1G2				✓			X	LE, RG	GS	Comal, Hays, Travis	Diversion Spring, Ezell's Cave, Rattlesnake Cave, TSU Well	
Crustaceans		Stygobromus russelli	Aquatic/Karst	G3				✓			X	RG	GS	widespread in central TX - hyporheic	widespread in springs and hyporheic	
Crustaceans		Texiweckelia texensis	Aquatic/Karst	G3				✓			X	RG	GS	Bexar, Hays	Diversion Spring, TSU Well	
Crustaceans		Texiweckelopsis insolita	Aquatic/Karst	G3				✓			X	RG	GS	Bexar, Hays	Diversion Spring, TSU Well	
Diplopods		Speodesmus echinourus	Aquatic/Karst	G3				✓			X	RG	GS	Bexar, Hays, Travis		
Hexapods		Arrhopalites texensis	Aquatic/Karst	G3				✓			X	RG	GS			
Hexapods		Texoreddelia texensis	Aquatic/Karst	G3				✓			X	RG	GS			
Insects	A mayfly	Altenhyphes michaeli	Aquatic							✓	X	RG	LE (G5)	Blanco, Hays, Kendall, Tom Green, Uvalde		
Insects	Leonora's dancer damselfly	Argia leonora	Aquatic							✓	X	RG		from Burnet south to Brooks and west to Hudspeth		
Insects	Texas austrotinodes caddisfly	Austrotinodes texensis	Aquatic/Karst							✓	X	RG	GS	Hays, Bandera, Val Verde	Fern Bank, ?	
Insects		Batrissodes grubbsi	Karst	G1G2				✓	✓		X	LE, RG--	GS	Hays	Grapvine Cave	
Insects	Rawson's metalmark	Calephelis rawsoni	Terrestrial							✓	X	RG		central, south, west TX - 3 disjunct populations - Quinn?		
Insects	Flint's net-spinning caddisfly	Cheumatopsyche flinti	Aquatic							✓	X	RG	LE	Bandera, Hays, Uvalde, Val Verde	San Marcos River	
Insects	Comal Springs diving beetle	Comaldesus stygius	Aquatic/Karst	G1?			✓			✓	X	LE, RG	GS	Comal, maybe Hays	might be at Fern Bank but not confirmed	
Insects	Edwards Aquifer diving beetle	Haideoporus texanus	Aquatic/Karst	G1			✓			✓	X	LE, RG	GS	Comal, Hays	TSU Well	
Insects	Comal Springs riffle beetle	Heterelmis comalensis	Aquatic		LE						X	LE, LL, RG--		Comal, Hays	San Marcos Springs	
Insects	A mayfly	Proclloeon distinctum	Aquatic							✓	X	LE, RG		Hays, Williamson		
Insects	San Marcos saddle-case caddisfly	Protoptila arca	Aquatic/Karst	G1			✓			✓	X	LE, RG--	GS	Hays	upper San Marcos River	
Insects	A Cave Obligate Beetle	Rhadine austinica	Karst	G1G2			✓				X	LE, RG	GS	Hays, Travis	Dahlstrom Cave, Michaelis Cave	

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Insects		Rhadine insolita	Karst							✓	X	LE, RG	GS		Comal, Hays	Grapevine Cave	
Insects	Undescribed species	Rhadine sp.	Karst							✓	X	LE, RG	GS		Hays	Ezell's Cave, Lime Kiln Quarry Cave, McCarty Cave	
Insects	Comal Springs dryopid beetle	Stygoparnus comalensis	Aquatic		LE					✓	X	LE, RG--			Comal, Hays	Fern Bank	
Mollusks	Rock pocketbook	Arcidens confragosus	Aquatic							✓	X	RG			east Texas		
Mollusks	Texas fatmucket	Lampsilis bracteata	Aquatic	G1			✓			✓	X	LE			Colorado, Concho, San Saba, San Marcos, Guadalupe, San Antonio		
Mollusks		Phreatodrobia micra	Aquatic	G3				✓		✓	X	RG			Comal, Hays, Kendall		
Mollusks		Phreatodrobia nugax	Aquatic	G3T3				✓		✓	X	RG			Bexar, Comal, Hays, Kendall, Travis		
Mollusks		Phreatodrobia plana	Aquatic	G3				✓		✓	X	RG			Comal, Hays		
Mollusks		Phreatodrobia punctata	Aquatic	G3				✓		✓	X	RG			Hays, Travis	Diversion Springs	
Mollusks		Phreatodrobia rotunda	Aquatic	G1G2				✓		✓	X	LE, RG--			Hays	TSU Well	
Mollusks	Golden orb	Quadrula aurea	Aquatic							✓	X	LE, RG			Colorado, San Marcos, Guadalupe, San Antonio, Frio, Nueces		
Mollusks	Texas pimpleback	Quadrula petrina	Aquatic							✓	X	LE, RG			Colorado and Guadalupe river basins		
Mollusks	False spike mussel	Quincuncina mitchelli	Aquatic							✓	X	RG			Rio Grande, Brazos, Colorado, and Guadalupe (historic) river basins		
Mollusks	Creeper (squawfoot)	Strophitus undulatus	Aquatic							✓	X	RG			Colorado and Guadalupe river basins		
Mollusks	Pistolgrip	Tritogonia verrucosa	Aquatic							✓	X				central to eastern Texas		
Vertebrates																	
Fishes	American eel	Anguilla rostrata	Aquatic							✓	X	RG					
Fishes	Blue sucker	Cycleptus elongatus	Aquatic			T				✓	X	RG					
Fishes	Fountain darter	Etheostoma fonticola	Aquatic		LE	E			✓	✓	X	LE, LL, RG					
Fishes	Largespring gambusia	Gambusia geiseri	Aquatic						✓	✓	X	RG					
Fishes	San Marcos gambusia	Gambusia georgei	Aquatic		LE	E			✓	✓	X	LE, LL, RG					
Fishes	Guadalupe bass	Micropterus treculii	Aquatic							✓	X	RG					
Fishes	Guadalupe darter	Percina sciera apristis	Aquatic							✓	X	RG					
Amphibians	San Marcos salamander	Eurycea nana	Aquatic/Karst		LT	T		✓	✓	✓	X	LE, LL, RG--	GS		Hays	upper San Marcos River	
Amphibians	Blanco River springs salamander	Eurycea pterophila	Aquatic/Karst					✓	✓	✓	X	LE	GS		Blanco, Hays, Kendall	springs flowing into Blanco River	
Amphibians	Texas blind salamander	Eurycea rathbuni	Aquatic/Karst		LE	E			✓	✓	X	LE, LL, RG--	GS		Hays	Diversion Spring, Ezell's Cave, Rattlesnake Cave, Primer's Well, Sessoms Cr., TSU Well	
Amphibians	Blanco blind salamander	Eurycea robusta	Aquatic/Karst	G1Q		T	✓	✓	✓	✓	X	LE, RG--	GS				
Reptiles	Cagle's map turtle	Graptemys caglei	Aquatic			T			✓	✓	X	RG--	LE (OLD DATA)		Guadalupe River system	Blanco River	
Reptiles	Spot-tailed earless lizard	Holbrookia lacerata	Terrestrial							✓	X		LE (OLD DATA)				
Reptiles	Texas horned lizard	Phrynosoma cornutum	Terrestrial			T				✓	X						
Reptiles	Texas garter snake	Thamnophis sirtalis annexens	Terrestrial						✓	✓	X		LE (OLD DATA)				
Birds	Western Burrowing Owl	Athene cunicularia hypugaea	Terrestrial							✓	X						
Birds	Zone-tailed Hawk	Buteo albonotatus	Terrestrial			T				✓	X						
Birds	Mountain Plover	Charadrius montanus	Terrestrial							✓	X						
Birds	Golden-cheeked Warbler	Dendroica chrysoparia	Woodland		LE	E			✓	✓	X	LE, LL, GS, RG					
Birds	Peregrine Falcon	Falco peregrinus	Terrestrial		DL	E T				✓	X						
Birds	American Peregrine Falcon	Falco peregrinus anatum	Terrestrial		DL	E				✓	X						
Birds	Arctic Peregrine Falcon	Falco peregrinus tundrius	Terrestrial		DL	T				✓	X						
Birds	Whooping Crane	Grus americana	Terrestrial		LE	E				✓	X		LE, LL, RG				
Birds	Bald Eagle	Haliaeetus leucocephalus	Terrestrial		DL	T				✓	X						
Birds	Black-capped Vireo	Vireo atricapilla	Shrubland		LE	E			✓	✓	X	LE, LL, GS, RG					
Mammals	Red wolf	Canis rufus	Terrestrial		LE	E				✓	X		LE, LL, RG				
Mammals	Cave myotis bat	Myotis velifer	Terrestrial							✓	X						
Mammals	Plains spotted skunk	Spilogale putorius interrupta	Terrestrial							✓	X						
BOLD initials represent federally listed taxa																	
RG-- (Randy Gibson) taken from emailed list of species to include as "additional"																	
RG (Randy Gibson) assumed from email last paragraph "I would also recommend that the non-listed karst and aquifer-dependent species be included as "additional species" because there are so many endemics..."																	
LE (Lee Elliot)																	