

US EPA ARCHIVE DOCUMENT

Appendix A

Endangered Species Listing for Cotton-Growing Areas

ENDANGERED SPECIES--COTTON--NATIONWIDE

SPECIES KNOWN	GROUP	STATUS
Alabama		
BAT, INDIANA	MAMMAL	E, CH
STORK, WOOD	BIRD	E
MOUSE, ALABAMA BEACH	MAMMAL	E, CH
MOUSE, PERDIDO KEY BEACH	MAMMAL	E, CH
PLOVER, PIPING	BIRD	E, T
SNAKE, EASTERN INDIGO	REPTILE	T
STURGEON, ALABAMA	FISH	E, CH
STURGEON, GULF	FISH	T
TURTLE, ALABAMA RED-BELLIED	REPTILE	E
TURTLE, GREEN SEA	REPTILE	E, T
TURTLE, KEMP'S (ATLANTIC) RIDLEY SEA	REPTILE	E
TURTLE, LOGGERHEAD SEA	REPTILE	T
WOODPECKER, RED-COCKADED	BIRD	E
EAGLE, BALD	BIRD	T
KIDNEYSHELL, TRIANGULAR	CLAM	E
PIGTOE, DARK	CLAM	E
TURTLE, FLATTENED MUSK	REPTILE	T
SALAMANDER, RED HILLS	AMPHIBIAN	T
SCULPIN, PYGMY	FISH	T
SHINER, BLUE	FISH	E
SNAIL, TULOTOMA	SNAIL	E
ACORNSHELL, SOUTHERN	CLAM	E
BAT, GRAY	MAMMAL	E
CAVEFISH, ALABAMA	FISH	E, CH
PEARLYMUSSEL, ORANGE-FOOTED	CLAM	E
PEARLYMUSSEL, PINK MUCKET	CLAM	E
PEARLYMUSSEL, WHITE WARTYBACK	CLAM	E
PIGTOE, ROUGH	CLAM	E
CLUBSHELL, OVATE	CLAM	E
CLUBSHELL, SOUTHERN	CLAM	E
POCKETBOOK, FINE-LINED	CLAM	T
DARTER, WATERCRESS	FISH	E
HEELSPLITTER, INFLATED	CLAM	T
MUCKET, ORANGE-NACRE	CLAM	T
MUSSEL, JUDGE TAIT'S	CLAM	E
MUSSEL, MARSHALL'S	CLAM	E
MUSSEL, PENITENT	CLAM	E
STIRRUP SHELL	CLAM	E
CAVEFISH, ALABAMA	FISH	E, CH
DARTER, SLACKWATER	FISH	T, CH
DARTER, BOULDER	FISH	E
DARTER, SNAIL	FISH	T
PIGTOE, SHINY	CLAM	E
RIVERSNAIL, ANTHONY'S	SNAIL	E
PIGTOE, FINE-RAYED	CLAM	E
PIGTOE, SHINY	CLAM	E
RIFFLESHELL, TAN	CLAM	E

SHRIMP, ALABAMA CAVE
TORTOISE, GOPHER
TURTLE, LEATHERBACK SEA
TURTLE, LOGGERHEAD SEA
MUCKET, ORANGE-NACRE
STIRRUP SHELL
COMBSHELL, UPLAND
DARTER, GOLDLINE
SHINER, CAHABA
SNAIL, TULOTOMA

CRUSTACEAN E
REPTILE T
REPTILE E, CH
REPTILE T
CLAM T
CLAM E
CLAM E
FISH T
FISH E
SNAIL E

Arizona

CATFISH, YAQUI
CHUB, YAQUI
CRANE, WHOOPING
EAGLE, BALD
FALCON, NORTHERN APLOMADO
FALCON, PEREGRINE
JAGUARUNDI
OCELOT
OWL, MEXICAN SPOTTED
PUPFISH, DESERT
RATTLESNAKE, NEW MEXICAN RIDGE-NOSED
SHINER, BEAUTIFUL
TOPMINNOW, GILA (YAQUI)
WOLF, GRAY
MINNOW, LOACH
OWL, MEXICAN SPOTTED
PYGMY-OWL, CACTUS FERRUGINOUS
SPIKEDACE
SQUIRREL, MOUNT GRAHAM RED
SUCKER, RAZORBACK
TROUT, APACHE
CHUB, BONYTAIL
RAIL, YUMA CLAPPER
PRONGHORN, SONORAN
AMBERSNAIL, KANAB
CHUB, VIRGIN RIVER
TORTOISE, DESERT
VOLE, HUALAPAI MEXICAN
BOBWHITE, MASKED
TALUSSNAIL, SAN XAVIER
MINNOW, LOACH
LIZARD, FLAT-TAILED HORNED
PELICAN, BROWN

FISH T, CH
FISH E, CH
BIRD E, CH
BIRD T
BIRD E
BIRD E, SA
MAMMAL E
MAMMAL E
BIRD T
FISH E, CH
REPTILE T, CH
FISH T, CH
FISH E
MAMMAL E, T, CH
FISH T, CH
BIRD T
BIRD E
FISH T, CH
MAMMAL E, CH
FISH E, CH
FISH T
FISH E, CH
BIRD E
MAMMAL E
SNAIL E
FISH E
REPTILE T
MAMMAL E
BIRD E
CRUSTACEAN E
FISH T, CH
REPTILE T
BIRD E

**FLORIDA
SPECIES**

SPECIES	GROUP	STATUS
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SNAKE, EASTERN INDIGO	REPTILE	T
STORK, WOOD	BIRD	E
STURGEON, GULF	FISH	T
MOUSE, PERDIDO KEY BEACH	MAMMAL	E, CH
PLOVER, PIPING	BIRD	E, T
TURTLE, GREEN SEA	REPTILE	E, T
TURTLE, HAWKSBILL SEA	REPTILE	E, CH
TURTLE, KEMP'S (ATLANTIC) RIDLEY SEA	REPTILE	E
TURTLE, LEATHERBACK SEA	REPTILE	E, CH
TURTLE, LOGGERHEAD SEA	REPTILE	T
WOODPECKER, RED-COCKADED	BIRD	E
BAT, GRAY	MAMMAL	E
BAT, INDIANA	MAMMAL	E, CH
DARTER, OKALOOSA	FISH	E
PLOVER, PIPING	BIRD	E, T
MOUSE, CHOCTAWHATCHEE BEACH	MAMMAL	E, CH

**GEORGIA
SPECIES**

SPECIES	GROUP	STATUS
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EAGLE, BALD	BIRD	T
SNAKE, EASTERN INDIGO	REPTILE	T
STORK, WOOD	BIRD	E
STURGEON, SHORTNOSE	FISH	E
WOODPECKER, RED-COCKADED	BIRD	E
BAT, GRAY	MAMMAL	E
BAT, INDIANA	MAMMAL	E, CH
CLUSHELL, OVATE	CLAM	E
COMBSHELL, UPLAND	CLAM	E
DARTER, CHEROKEE	FISH	T
DARTER, ETOWAH	FISH	E
KIDNEYSHELL, TRIANGULAR	CLAM	E
MOCCASINSHELL, ALABAMA	CLAM	T
STURGEON, SHORTNOSE	FISH	E
PEARLYMUSSEL, PINK MUCKET	CLAM	E
CLUSHELL, SOUTHERN	CLAM	E
COUGAR, EASTERN	MAMMAL	E
MOCCASINSHELL, COOSA	CLAM	E
PIGTOE, SOUTHERN	CLAM	E
POCKETBOOK, FINE-LINED	CLAM	T
SHINER, BLUE	FISH	E
CRANE, WHOOPING	BIRD	E, CH

LOUISIANA

SPECIES	GROUP	STATUS
FALCON, ARCTIC PEREGRINE	BIRD	T
STURGEON, PALLID ..	FISH	E
EAGLE, BALD	BIRD	T
WOODPECKER, RED-COCKADED	BIRD	E
BEAR, LOUISIANA BLACK	MAMMAL	T, CH
BEAR, AMERICAN BLACK	MAMMAL	T, SA
PEARLSHELL, LOUISIANA	CLAM	T
TERN, CALIFORNIA LEAST	BIRD	E

MISSISSIPPI

SPECIES	GROUP	STATUS
BEAR, LOUISIANA BLACK	MAMMAL	T, CH
STURGEON, PALLID	FISH	E
TERN, INTERIOR (POPULATION) LEAST	BIRD	E
DARTER, BAYOU	FISH	T
TURTLE, RINGED SAWBACK	REPTILE	T
STURGEON, GULF	FISH	T
MUSSEL, JUDGE TAIT'S	CLAM	E
MUSSEL, PENITENT	CLAM	E
PEARLYMUSSEL, CURTIS'	CLAM	E
WOODPECKER, RED-COCKADED	BIRD	E
POCKETBOOK, FAT	CLAM	E

MISSOURI

SPECIES	GROUP	STATUS
BEETLE, AMERICAN BURYING	INSECT	E
STURGEON, PALLID	FISH	E
TERN, INTERIOR (POPULATION) LEAST	BIRD	E
FERRET, BLACK-FOOTED	MAMMAL	E, XN
GAMBUSIA, PECOS	FISH	E
OWL, MEXICAN SPOTTED	BIRD	T
SHINER, PECOS BLUNTNOSE	FISH	T, CH
TERN, INTERIOR (POPULATION) LEAST	BIRD	E

NEW MEXICO

SPECIES	GROUP	STATUS
CRANE, WHOOPING	BIRD	E, CH
EAGLE, BALD	BIRD	T
FALCON, NORTHERN APLOMADO	BIRD	E
FALCON, PEREGRINE	BIRD	E, SA
FERRET, BLACK-FOOTED	MAMMAL	E, XN
OWL, MEXICAN SPOTTED	BIRD	T
TERN, INTERIOR (POPULATION) LEAST	BIRD	E
GAMBUSIA, PECOS	FISH	E
SHINER, PECOS BLUNTNOSE	FISH	T, CH
RATTLESNAKE, NEW MEXICAN RIDGE-NOSED	REPTILE	T, CH
SPIKEDACE	FISH	T, CH

WOLF, GRAY
 SHINER, BEAUTIFUL
 OWL, MEXICAN SPOTTED
 TROUT, GILA

MAMMAL
 FISH
 BIRD
 FISH
 E, T, CH
 T, CH
 T
 E

NORTH CAROLINA
 SPECIES

SPECIES	GROUP	STATUS
EAGLE, BALD	BIRD	T
STURGEON, SHORTNOSE	FISH	E
WOODPECKER, RED-COCKADED	BIRD	E
TURTLE, GREEN SEA	REPTILE	E, T
TURTLE, KEMP'S (ATLANTIC) RIDLEY SEA	REPTILE	E
TURTLE, LOGGERHEAD SEA	REPTILE	T
WOLF, RED	MAMMAL	E, XP
WOODPECKER, RED-COCKADED	BIRD	E
BAT, INDIANA	MAMMAL	E, CH
SPINYMUSSEL, TAR RIVER	CLAM	E
SHREW, DISMAL SWAMP SOUTHEASTERN	MAMMAL	T
MUSSEL, DWARF WEDGE	CLAM	E
SHINER, CAPE FEAR	FISH	E, CH
PLOVER, PIPING	BIRD	E, T
MUSSEL, DWARF WEDGE	CLAM	E
SQUIRREL, CAROLINA NORTHERN FLYING	MAMMAL	E
HEELSPLITTER, CAROLINA	CLAM	E
WARBLER, BACHMAN'S	BIRD	E

OKLAHOMA
 SPECIES

SPECIES	GROUP	STATUS
CRANE, WHOOPING	BIRD	E, CH
EAGLE, BALD	BIRD	T
PLOVER, PIPING	BIRD	E, T
TERN, INTERIOR (POPULATION) LEAST	BIRD	E
VIREO, BLACK-CAPPED	BIRD	E
FALCON, PEREGRINE	BIRD	E, SA

SOUTH CAROLINA

SPECIES	GROUP	STATUS
COUGAR, EASTERN	MAMMAL	E
STORK, WOOD	BIRD	E
WOODPECKER, RED-COCKADED	BIRD	E
STURGEON, SHORTNOSE	FISH	E
FALCON, ARCTIC PEREGRINE	BIRD	T
SNAKE, EASTERN INDIGO	REPTILE	T
PLOVER, PIPING	BIRD	E, T
TURTLE, LOGGERHEAD SEA	REPTILE	T

TENNESSEE

SPECIES	GROUP	STATUS
BAT, INDIANA	MAMMAL	E, CH
EAGLE, BALD	BIRD	T
STURGEON, PALLID	FISH	E
TERN, INTERIOR. (POPULATION) LEAST	BIRD	E
BAT, GRAY	MAMMAL	E
COUGAR, EASTERN	MAMMAL	E
PEARLYMUSSEL, ALABAMA LAMP	CLAM	E
PEARLYMUSSEL, CUMBERLAND MONKEYFACE	CLAM	E
PEARLYMUSSEL, PALE LILLIPUT	CLAM	E
PIGTOE, SHINY	CLAM	E
SNAIL, PAINTED SNAKE COILED FOREST	SNAIL	T
FANSHELL	CLAM	E
MUSSEL, RING PINK (=GOLF STICK PEARLY)	CLAM	E
PEARLYMUSSEL, CRACKING	CLAM	E
PEARLYMUSSEL, ORANGE-FOOTED	CLAM	E
PEARLYMUSSEL, PINK MUCKET	CLAM	E
PEARLYMUSSEL, WHITE WARTYBACK	CLAM	E
PIGTOE, ROUGH	CLAM	E
DARTER, SLACKWATER	FISH	T, CH
DARTER, BOULDER	FISH	E
DARTER, SNAIL	FISH	T
PEARLYMUSSEL, BIRDWING	CLAM	E
PEARLYMUSSEL, CUMBERLAND MONKEYFACE	CLAM	E
PIGTOE, FINE-RAYED	CLAM	E
RIFFLESHELL, TAN	CLAM	E

TEXAS

SPECIES	GROUP	STATUS
CRANE, WHOOPING	BIRD	E, CH
EAGLE, BALD	BIRD	T
PRAIRIE-CHICKEN, ATTWATER'S GREATER	BIRD	E
TOAD, HOUSTON	AMPHIBIAN	E, CH
FALCON, PEREGRINE	BIRD	E, SA
VIREO, BLACK-CAPPED	BIRD	E
WARBLER, GOLDEN-CHEEKED	BIRD	E
PELICAN, BROWN	BIRD	E
PLOVER, PIPING	BIRD	E, T
TURTLE, GREEN SEA	REPTILE	E, T
TURTLE, KEMP'S (ATLANTIC) RIDLEY SEA	REPTILE	E
TURTLE, LEATHERBACK SEA	REPTILE	E, CH
TURTLE, LOGGERHEAD SEA	REPTILE	T
BEAR, LOUISIANA BLACK	MAMMAL	T, CH
DARTER, FOUNTAIN	FISH	E, CH
FALCON, NORTHERN APLOMADO	BIRD	E
JAGUARUNDI	MAMMAL	E
MINNOW, RIO GRANDE SILVERY	FISH	E
OCELOT	MAMMAL	E
PELICAN, BROWN	BIRD	E

(TEXAS CONTINUED)

PYGMY-OWL, CACTUS FERRUGINOUS	BIRD	E
SNAKE, CONCHO WATER	REPTILE	T, CH
VIREO, BLACK-CAPPED	BIRD	E
TERN, INTERIOR (POPULATION) LEAST	BIRD	E
TURTLE, CAGLE'S MAP	AMPHIBIAN	T
FALCON, NORTHERN APLOMADO	BIRD	E
TOAD, HOUSTON	AMPHIBIAN	E, CH
WARBLER, GOLDEN-CHEEKED	BIRD	E
DARTER, FOUNTAIN	FISH	E, CH
GAMBUSIA, SAN MARCOS	FISH	E, CH
SALAMANDER, SAN MARCOS	AMPHIBIAN	T, CH
SALAMANDER, TEXAS BLIND	AMPHIBIAN	E
PYGMY-OWL, CACTUS FERRUGINOUS	BIRD	E
WOODPECKER, RED-COCKADED	BIRD	E
CURLEW, ESKIMO	BIRD	E
BEAR, LOUISIANA BLACK	MAMMAL	T, CH
GAMBUSIA, PECOS	FISH	E
PUPFISH, LEON SPRINGS	FISH	E, CH
PUPFISH, COMANCHE SPRINGS	FISH	E
PRAIRIE-CHICKEN, ATTWATER'S GREATER	BIRD	E
BEETLE, COFFIN CAVE MOLD	INSECT	E
BEETLE, KRETSCHMARR CAVE MOLD	INSECT	E
BEETLE, TOOTH CAVE GROUND	INSECT	E
HARVESTMAN, BEE CREEK CAVE	ARACHNID	E
HARVESTMAN, BONE CAVE	ARACHNID	E
PSEUDOSCORPION, TOOTH CAVE	ARACHNID	E
SALAMANDER, BARTON SPRINGS	AMPHIBIAN	E
SPIDER, TOOTH CAVE	ARACHNID	E

Virginia

BEETLE, NORTHEASTERN BEACH TIGER	INSECT	T
EAGLE, BALD	BIRD	T
FALCON, PEREGRINE	BIRD	E, SA
PLOVER, PIPING	BIRD	E, T
SQUIRREL, DELMARVA PENINSULA FOX	MAMMAL	E, XN
TURTLE, KEMP'S (ATLANTIC) RIDLEY SEA	REPTILE	E
TURTLE, LEATHERBACK SEA	REPTILE	E, CH
TURTLE, LOGGERHEAD SEA	REPTILE	T
LOGPERCH, ROANOKE	FISH	E
WOODPECKER, RED-COCKADED	BIRD	E
SHREW, DISMAL SWAMP SOUTHEASTERN	MAMMAL	T

Appendix B

Data Requirements for Chlorfenapyr on Cotton

Data Requirement	Use Pattern ¹	Does EPA Have Data To Satisfy This Requirement? (Yes, No, Partial, or Under Review)	Bibliographic Citation	Must Additional Data Be Submitted for This Use Under FIFRA 3(c)(2)(B)? (Yes, No, or Reserved) ²
§158.490 WILDLIFE AND AQUATIC ORGANISMS 3				
71-1(a) Acute Avian Oral, Quail/Duck		Y	427702-28 427702-27	N
71-2(a) Acute Avian Diet, Quail		Y	427702-30	N
71-2(b) Acute Avian Diet, Duck		Y	427702-29	N
71-3 Wild Mammal Toxicity		N		N
71-4(a) Avian Reproduction Quail		P	434928-11	N
71-4(b) Avian Reproduction Duck		Y	434928-13	N
71-5(a) Simulated Terrestrial Field Study		N	438870-07 434928-14 (pen study)	N
71-5(b) Actual Terrestrial Field Study		UR	444526-16 (mortality only, no data for EFED request for reproduction)	N
72-1(a) Acute Fish Toxicity Bluegill		Y	428078-01	N
72-1(b) Acute Fish Toxicity (TEP)		N		N
72-1(c) Acute Fish Toxicity Rainbow Trout		Y	427702-31	N
72-1(d) Acute Fish Toxicity Rainbow Trout (TEP)		N		N
72-2(a) Acute Aquatic Invertebrate		Y	427702-31	N
72-2(b) Acute Aquatic Invertebrate (TEP)		N		N
72-3(a) Acute Est/Mar Toxicity Fish		Y	434928-16	N
72-3(b) Acute Est/Mar Toxicity Mollusk		N	434928-17 (invalid)	Y
72-3(c) Acute Est/Mar Toxicity Shrimp		Y	434928-18	N
72-3(d) Acute Est/Mar Toxicity Fish (TEP)		N		N
72-3(e) Acute Est/Mar Toxicity Mollusk (TEP)		N		N
72-3(f) Acute Est/Mar Toxicity Shrimp (TEP)		N		N
72-4(a) Early Life Stage Fish		Y	434928-19	N

Data Requirement	Use Pattern ¹	Does EPA Have Data To Satisfy This Requirement? (Yes, No, Partial, or Under Review)	Bibliographic Citation	Must Additional Data Be Submitted for This Use Under FIFRA 3(c)(2)(B)? (Yes, No, or Reserved) ²
72-4(b) Life Cycle Aquatic Invertebrate		Y	434928-22	N
72-5 Life Cycle Fish		N	443648-03 (INVALID)	Y
72-6 Aquatic Organism Accumulation		N		R
72-7(a) Simulated Aquatic Field Study		Y	434928-23 (Microcosm)	R
72-7(b) Actual Aquatic Field Study		N		R
§158.540 PLANT PROTECTION				
122-1(a) Seed Germ.,Seedling Emergence		N		N
122-2 Aquatic Plant Growth		N		N
122-1(a) Seed Germ./Seedling Emerg.		N		N
122-1(b) Vegetative Vigor		N		N
123-1(a) Seed Germ./Seedling Emerg.		N		N
123-1(b) Vegetative Vigor		N		N
123-2 Aquatic Plant Growth		N		N
124-1 Terrestrial Field Study		N		N
124-2 Aquatic Field Study		N		N
§158.490 NONTARGET INSECT TESTING				
141-1 Honey Bee Acute Contact		Y	427702-33	N
141-2 Honey Bee Residue on Foliage		Y	434928-45	N
141-5 Field Test for Pollinators		N		N
PROVISIONAL SEDIMENT TOXICITY TESTING				
850.1735 Acute Freshwater Invertebrate		Y	444526-19	N
850.1735 Acute Freshwater Invertebrate		UR	445600-02	N
Chronic Invertebrate		N		R

Data Requirement	Use Pattern ¹	Does EPA Have Data To Satisfy This Requirement? (Yes, No, Partial, or Under Review)	Bibliographic Citation	Must Additional Data Be Submitted for This Use Under FIFRA 3(c)(2)(B)? (Yes, No, or Reserved) ²
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§158.290 ENVIRONMENTAL FATE

Degradation Studies-Lab:

161-1	Hydrolysis	Y	427702--40	N
161-2	Photodegradation In Water	Y	434928-46, 427702-41	N
161-3	Photodegradation On Soil	Y	427702-42	N

Metabolism Studies-Lab:

162-1	Aerobic Soil	Y	427702-43, 438870-02, 444526-21	N
162-2	Anaerobic Soil	Y	434928-47	N
162-4	Aerobic Aquatic	P	439042-02	N

Mobility Studies:

163-1	Leaching- Adsorption/Desorp.	Y	427702-44, 434928-49, 434928-48	N
163-2	Volatility (Lab)	N		N

Dissipation Studies-Field:

164-1	Soil	P	434928-50, 444526-22, 444526-23	N
164-5	Soil Long-Term	P	444526-24	N

Accumulation Studies:

165-4	In Fish	Y	427702-45, 434928-52	N
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Ground Water Monitoring Studies:

166-1	Small-Scale Prospective	N		N
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§158.440 SPRAY DRIFT

201-1	Droplet Size Spectrum	N		Y*
202-1	Drift Field Evaluation	N		Y*

FOOTNOTES:

1. 1=Terrestrial Food; 2=Terrestrial Feed; 3=Terrestrial Non-Food; 4=Aquatic Food; 5=Aquatic Non-Food(Outdoor); 6=Aquatic Non-Food (Industrial); 7=Aquatic Non-Food (Residential); 8=Greenhouse Food; 9=Greenhouse Non-Food; 10= Forestry; 11=Residential Outdoor; 12=Indoor Food; 13=Indoor Non-Food; 14=Indoor Medicinal;15=Indoor Residential.

2. Reserved studies: aquatic simulated and actual field tests reserved pending considration of all requested sediment toxicity tests.

* These data may be supplied through the pending Spray Drift Task Force Database and associated modeling scenarios.