

TABLE E.2–1.—Federally and State-Listed Threatened, Endangered, and Other Special Status Plant and Animal Species Known to Occur at the Livermore Site and Site 300 in 2001 and 2002

| Common Name | Scientific Name | Site | | Status | |
|-------------------------------------|--|----------------|----------|---------------------|-------------------|
| | | Livermore Site | Site 300 | Federal Status Code | State Status Code |
| Plants | | | | | |
| Big tarplant | <i>Blepharizonia plumosa</i> | - | X | - | CNPS List 1 B |
| Hogwallow starfish | <i>Hesperovax caulescens</i> | - | X | - | CNPS List 4 |
| Large-flowered fiddleneck | <i>Amsinckia grandiflora</i> | - | X | FE (CH) | CNPS List 1 B |
| Round-leaved filaree | <i>Erodium macrophyllum</i> | - | X | - | CNPS List 2 |
| Stinkbells | <i>Fritillaria agrestis</i> | - | X | - | CNPS List 4 |
| Diamond-petaled poppy | <i>Eschscholzia rhombipetala</i> | - | X | FSC | CNPS List 1 B |
| Gypsum rock jasmine | <i>Androsace elongata</i> <i>ssp. acuta</i> | - | X | - | CNPS List 4 |
| Gypsum loving larkspur | <i>Delphinium gypsophilum</i> <i>ssp. gypsophilum</i> | - | X | - | CNPS List 4 |
| Invertebrates | | | | | |
| Valley elderberry | <i>Desmocerus californicus</i> | - | X | FT | - |
| longhorn beetle | <i>Dimorphus</i> | - | X | FT | - |
| California linderiella fairy shrimp | <i>Linderiella occidentalis</i> | - | X | FSC | - |

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| Common Name | Scientific Name | Site | | Status | |
|-----------------------------------|--|----------------|----------|---------------------|-------------------|
| | | Livermore Site | Site 300 | Federal Status Code | State Status Code |
| Amphibians | | | | | |
| California tiger salamander | <i>Ambystoma californiense</i> | - | X | FPT | CASSC |
| California red-legged frog | <i>Rana aurora draytonii</i> | X | X | FT (CH rescinded) | CASSC |
| Western spadefoot toad | <i>Spea hammondi</i> | - | X | FSC | CASSC |
| Reptiles | | | | | |
| Alameda whipsnake | <i>Masticophis lateralis euryxanthus</i> | - | X | FT (CH rescinded) | FT |
| California horned lizard | <i>Phrynosoma cornatum frontale</i> | - | X | - | CASSC |
| San Joaquin coachwhip (whipsnake) | <i>Masticophis flagellum ruddocki</i> | - | X | FSC | CASSC |
| Silvery legless lizard | <i>Anniella pulchra pulchra</i> | - | X | FSC | CASSC |
| Birds | | | | | |
| Cooper's hawk | <i>Accipiter cooperii</i> | X | X | MBTA | CASSC |
| Sharp-shinned hawk | <i>Accipiter striatus</i> | - | X | MBTA | CASSC |
| Golden eagle | <i>Aquila chrysaetos</i> | X | X | MBTA | CASSC |
| Red-tailed hawk | <i>Buteo jamaicensis</i> | X | X | MBTA | - |
| Rough-legged hawk | <i>Buteo lagopus</i> | - | X | MBTA | - |
| Red-shouldered hawk | <i>Buteo lineatus</i> | X | X | MBTA | - |
| Ferruginous hawk | <i>Buteo regalis</i> | - | X | FSC, MBTA | CASSC |
| Swainson's hawk | <i>Buteo swainsoni</i> | - | X | MBTA | ST, MBTA |
| Northern harrier | <i>Circus cyaneus</i> | - | X | MBTA | CASSC |
| White-tailed kite | <i>Elanus leucurus</i> | X | X | MBTA | CASSC |
| Osprey | <i>Pandion haliaetus</i> | - | X | MBTA | CASSC |

TABLE E.2–1.—Federally and State-Listed Threatened, Endangered, and Other Special Status Plant and Animal Species with Potential to Occur at the Livermore Site and Site 300 in 2001 and 2002 (continued)

| Common Name | Scientific Name | Site | | Status | |
|------------------------|---------------------------------|----------------|----------|---------------------|-------------------|
| | | Livermore Site | Site 300 | Federal Status Code | State Status Code |
| Birds | | | | | |
| Bushtit | <i>Psaltriparus minimus</i> | - | X | MBTA | - |
| Horned lark | <i>Eremophila alpestris</i> | - | X | MBTA | CASSC |
| Northern shoveler | <i>Anas clypeata</i> | - | X | MBTA | - |
| Cinnamon teal | <i>Anas cuamperta</i> | - | X | MBTA | - |
| Mallard | <i>Anas platyrhynchos</i> | X | X | MBTA | - |
| Bufflehead | <i>Bluecephala albeola</i> | X | X | MBTA | - |
| Common goldeneye | <i>Bucephala clangula</i> | - | X | MBTA | - |
| White-throated swift | <i>Aeronautes saxatalis</i> | - | X | MBTA | - |
| Great egret | <i>Ardea alba</i> | X | X | MBTA | - |
| Cedar waxwing | <i>Bombycilla garrulus</i> | X | X | MBTA | - |
| Common poorwill | <i>Phalaenoptilus nuttallii</i> | - | X | MBTA | - |
| Blue-grosbeak | <i>Guiraca caerulea</i> | - | X | MBTA | - |
| Lazuli bunting | <i>Passerina amoena</i> | - | X | MBTA | - |
| Turkey vulture | <i>Cathartes aura</i> | X | X | MBTA | - |
| Killdeer | <i>Charadrius vociferus</i> | X | X | MBTA | - |
| Mourning dove | <i>Zenaida macroura</i> | X | X | MBTA | - |
| Western scrub jay | <i>Aphelocoma californica</i> | X | X | MBTA | - |
| American crow | <i>Corvus brachyrhynchos</i> | X | X | MBTA | - |
| Common raven | <i>Corvus corax</i> | X | X | MBTA | - |
| Greater roadrunner | <i>Geococcyx californianus</i> | - | X | MBTA | - |
| Bell's sage sparrow | <i>Amphispiza belli</i> | - | X | FSC, MBTA | - |
| Black-throated sparrow | <i>Amphispiza bilineata</i> | - | X | MBTA | - |
| Rufous crowned sparrow | <i>Aimophila ruficeps</i> | - | X | MBTA | - |

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| Common Name | Scientific Name | Site | | Status | |
|-------------------------------|-----------------------------------|----------------|----------|---------------------|-------------------|
| | | Livermore Site | Site 300 | Federal Status Code | State Status Code |
| Birds | | | | | |
| Grasshopper sparrow | <i>Ammodramus savannarum</i> | - | X | FSC, MBTA | - |
| Lark sparrow | <i>Chondestes grammacus</i> | - | X | MBTA | - |
| California towhee | <i>Carpodacus mexicanus</i> | - | X | MBTA | - |
| Oregon junco | <i>Junco hyemalis</i> | X | X | MBTA | - |
| Lincoln's sparrow | <i>Melospiza lincolni</i> | - | X | MBTA | - |
| Song sparrow | <i>Melospiza melodia</i> | X | X | MBTA | - |
| Fox sparrow | <i>Passerella iliaca</i> | - | X | MBTA | - |
| Savannah sparrow | <i>Passerculus sandwichensis</i> | - | X | MBTA | - |
| Golden-crowned sparrow | <i>Zonotrichia atricapilla</i> | X | X | MBTA | - |
| White-crowned sparrow | <i>Zonotrichia leucophrys</i> | X | X | MBTA | - |
| American kestrel | <i>Falco columbarius</i> | X | X | MBTA | - |
| Prairie falcon | <i>Falca mexicanus</i> | - | X | MBTA | CASSC |
| House finch | <i>Carpodacus mexicanus</i> | X | X | MBTA | - |
| Lesser goldfinch | <i>Carduelis psaltria</i> | X | X | MBTA | - |
| Cliff swallow | <i>Petrochelidon pyrrhonota</i> | X | X | MBTA | - |
| Northern rough winged swallow | <i>Stelgidopteryx serripennis</i> | X | X | MBTA | - |
| Tree swallow | <i>Tachycineta bicolor</i> | - | X | MBTA | - |
| Red-winged blackbird | <i>Agelaius phoeniceus</i> | X | X | MBTA | - |
| Tricolored blackbird | <i>Agelaius tricolor</i> | - | X | FSC, MBTA | CASSC |
| Brewer's blackbird | <i>Euphagus cyanocephalus</i> | X | X | MBTA | - |
| Bullock's oriole | <i>Icterus bullockii</i> | - | X | MBTA | - |
| Brown-headed cowbird | <i>Molothrus ater</i> | X | X | MBTA | - |

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| Common Name | Scientific Name | Site | | Status | |
|-----------------------------|-------------------------------|----------------|----------|---------------------|-------------------|
| | | Livermore Site | Site 300 | Federal Status Code | State Status Code |
| Birds | | | | | |
| Western meadowlark | <i>Sturnella magna</i> | X | X | MBTA | - |
| Loggerhead shrike | <i>Lanius ludovicianus</i> | X | X | FSC, MBTA | CASSC |
| Northern mockingbird | <i>Mimus polyglottos</i> | - | X | MBTA | - |
| California thrasher | <i>Toxostoma redivivum</i> | - | X | FSC, MBTA | - |
| California quail | <i>Callipepla californica</i> | - | X | MBTA | - |
| Oak titmouse | <i>Baeolophus inornatus</i> | - | X | FSC, MBTA | - |
| Yellow-rumped warbler | <i>Dendroica coronata</i> | X | X | MBTA | - |
| Black-throated gray warbler | <i>Dendroica nigrescens</i> | - | X | MBTA | - |
| Yellow warbler | <i>Dendroica petechia</i> | - | X | MBTA | CASSC |
| Common yellowthroat | <i>Geothlypis trichas</i> | - | X | MBTA | CASSC |
| MacGillivray's warbler | <i>Oporornis tolmiei</i> | - | X | MBTA | - |
| Orange-crowned warbler | <i>Vermivora bachmanii</i> | - | X | MBTA | - |
| Wilson's warbler | <i>Wilsonia pusila</i> | - | X | MBTA | - |
| Double-crested cormorant | <i>Phalacrocorax auritus</i> | - | X | MBTA | CASSC |
| Northern flicker | <i>Colaptes auratus</i> | - | X | MBTA | - |
| Nuttall's woodpecker | <i>Picoides nuttallii</i> | X | X | FSC, MBTA | - |
| Pied-billed grebe | <i>Podilymbus podiceps</i> | X | X | MBTA | - |
| Phainopepla | <i>Phainopepla nitens</i> | - | X | MBTA | - |
| Ruby-crowned kinglet | <i>Regulus calendula</i> | X | X | MBTA | - |
| Common snipe | <i>Gallinago gallinago</i> | X | X | MBTA | - |
| Greater yellowlegs | <i>Tringa melanoleuca</i> | X | X | MBTA | - |
| Burrowing owl | <i>Athene cunicularia</i> | X ^a | X | FSC, MBTA | CASSC |
| Short-eared owl | <i>Asio flammeus</i> | - | X | FSC, MBTA | CASSC |

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| Common Name | Scientific Name | Site | | Status | |
|--------------------------|--------------------------------|----------------|----------|---------------------|-------------------|
| | | Livermore Site | Site 300 | Federal Status Code | State Status Code |
| Birds | | | | | |
| Great horned owl | <i>Bubo virginianus</i> | - | X | MBTA | - |
| Western screech owl | <i>Otus kennicottii</i> | - | X | MBTA | - |
| Barn owl | <i>Tyto alba</i> | - | X | MBTA | - |
| Western tanager | <i>Piranga ludoviciana</i> | - | X | MBTA | - |
| Anna's hummingbird | <i>Calypte anna</i> | X | X | MBTA | - |
| Costa's hummingbird | <i>Calypte costae</i> | - | X | FSC, MBTA | - |
| Rufous hummingbird | <i>Selasphorus rufus</i> | X | X | FSC, MBTA | - |
| Rock wren | <i>Salpinctes obsoletus</i> | - | X | MBTA | - |
| Bewick's wren | <i>Thyothorus ludovicianus</i> | X | X | MBTA | - |
| House wren | <i>Troglodytes aedon</i> | - | X | MBTA | - |
| Hermit thrush | <i>Catharus guttatus</i> | - | X | MBTA | - |
| Swainson's thrush | <i>Catharus ustulatus</i> | - | X | MBTA | - |
| Varied thrush | <i>Ixoreus naevius</i> | - | X | MBTA | - |
| Mountain bluebird | <i>Sialia currucoides</i> | - | X | MBTA | - |
| Western bluebird | <i>Sialia mexicana</i> | - | X | MBTA | - |
| American robin | <i>Turdus migratorius</i> | X | X | MBTA | - |
| Pacific-slope flycatcher | <i>Empidonax difficillis</i> | - | X | MBTA | - |
| Willow flycatcher | <i>Empidonax traillii</i> | - | X | MBTA | SE |
| Ash-throated flycatcher | <i>Myiarchus cinerascens</i> | - | X | MBTA | - |
| Black phoebe | <i>Sayornis nigricans</i> | - | X | MBTA | - |
| Say's phoebe | <i>Sayornis saya</i> | X | X | MBTA | - |
| Western kingbird | <i>Tyrannus verticalis</i> | - | X | MBTA | - |
| Cassin's kingbird | <i>Tyrannus vociferans</i> | - | X | MBTA | - |

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| Common Name | Scientific Name | Site | | Status | |
|----------------------------------|--|----------------|----------|---------------------|-------------------|
| | | Livermore Site | Site 300 | Federal Status Code | State Status Code |
| Mammals | | | | | |
| Pallid bat | <i>Antrozous pallidus</i> | - | X | | CASSC |
| Long-legged myotis | <i>Myotis volans</i> | - | X | FSC | - |
| Yuma myotis | <i>Myotis yumaensis</i> | - | X | FSC | - |
| San Joaquin pocket mouse | <i>Perognathus inornatus inornatus</i> | - | X | FSC | - |
| San Joaquin kit fox ^b | <i>Vulpes macrotis mutica</i> | - | X | FE | ST |

Sources: Jones and Stokes 2001, CDFG 2002a, CDFG 2002b, LLNL 2003ab, LLNL 2003by, LLNL 2003ac.

^a The burrowing owl was observed at the Livermore Site prior to 1998.

^b Although the San Joaquin kit fox has not been observed in surveys from 1986 to the present, monitoring efforts continue to watch for the presence of this species onsite, due to confirmed sighting near Site 300.

X = Indicates the presence of a species at the Livermore Site or Site 300.

- = Indicates the absence of a species at the Livermore Site or Site 300.

FE = Federal-listed endangered (any species which is in danger of extinction throughout all or a significant portion of its range).

FT = Federal-listed threatened (any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range).

FPT = Federal-listed proposed threatened (a proposal to list a species as likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range pending release of a final rule).

CH = Critical habitat (the USFWS may establish critical habitat for threatened or endangered species consisting of a geographic area determined essential for the conservation of the species).

FSC = Federal species of concern for Alameda and San Joaquin Counties. May be endangered or threatened. Not enough biological information has been gathered to support listing at this time (U.S. Fish and Wildlife Service 1-1-03-SP-0162).

CASSC = California species of special concern (CA Dept. of Fish and Game 2001).

SE = State-listed endangered (CA Dept. of Fish and Game 2001).

ST = State-listed threatened (CA Dept. of Fish and Game 2001).

MBTA = *Migratory Bird Treaty Act*.

CNPS List 1A = Plants presumed extinct in California.

CNPS List 1B = Plants rare, threatened, or endangered in California and elsewhere.

CNPS List 2 = Plants rare, threatened, or endangered in California, but more common elsewhere.

CNPS List 3 = Plants about which we need more information – a review list.

CNPS List 4 = Plants of limited distribution – a watch list.