

BILLING CODE 4310-55-C

Vernal Pool Tadpole Shrimp (*Lepidurus packardii*)

(1) Critical habitat units are depicted for Shasta, Tehama, Glenn, Colusa,

Alameda, Amador, Stanislaus, Mariposa, Fresno, Tulare and Kings Counties, California on the map below.

(2) The primary constituent elements of critical habitat for vernal pool tadpole shrimp are the habitat components that provide:

(i) Vernal pools, swales, and other ephemeral wetlands and depressions of appropriate sizes and depths that typically become inundated during winter rains and hold water for sufficient lengths of time necessary for vernal pool tadpole shrimp incubation, reproduction, dispersal, feeding, and sheltering, but which are dry during the summer and do not necessarily fill with water every year, including but not limited to, vernal pools on Redding and Corning soils on high terrace landforms, and

(ii) The geographic, topographic, and edaphic features that support aggregations or systems of hydrologically interconnected pools, swales, and other ephemeral wetlands and depressions within a matrix of surrounding uplands that together form hydrologically and ecologically functional units called vernal pool complexes. These features contribute to the filling and drying of the vernal pool, and maintain suitable periods of pool inundation, water quality, and soil moisture for vernal pool crustacean hatching, growth and reproduction, and dispersal, but not necessarily every year.

(3) Existing manmade features and structures, such as buildings, roads, railroads, airports, runways, other paved areas, lawns, and other urban landscaped areas do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Critical habitat does not include the following lands although they may fall within the legal descriptions below:

(i) Lands within the following California counties: Butte, Madera, Merced, Sacramento, and Solano;

(ii) Federally-owned lands within the boundaries of the Kern, Sacramento, San Francisco Bay, and San Luis National Wildlife Refuges and National Wildlife Refuge Complexes, and the Coleman National Fish Hatchery;

(iii) State-owned lands within the boundaries of the Allensworth, Boggs Lake, Butte Creek Canyon, Calhoun Cut, Carrizo Plains, Dales Lake, Fagan Marsh, Phoenix Field, San Joaquin River, Stone Corral, and Thames Creek Ecological Reserves;

(iv) State-owned lands within the boundaries of the Battle Creek, Big Sandy, Grizzly Island, Hill Slough,

North Grasslands, and Oroville Wildlife Areas.

(5) Unit 1: Shasta County, California. From USGS 1:24,000 quadrangle maps Cottonwood, Enterprise and Palo Cedro, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 564200, 4480900; 563600, 4480900; 563300, 4481000; 563100, 4480900; 562900, 4480900; 562500, 4481200; 562400, 4481500; 562400, 4481700; 562300, 4482400; 562000, 4482500; 561900, 4482800; 561800, 4483300; 561500, 4483700; 561000, 4484000; 560700, 4485400; 560700, 4486500; 560800, 4486700; 561000, 4486900; 561200, 4487000; 561300, 4487600; 561600, 4487900; 562000, 4487900; 562500, 4487400; 562700, 4487100; 562900, 4487200; 563200, 4487200; 563300, 4487000; 563300, 4486700; 563800, 4486400; 564300, 4484700; 564300, 4484400; 564500, 4484100; 564500, 4483800; 564600, 4483700; 564600, 4483400; 564400, 4483100; 564100, 4482800; 564100, 4482600; 564300, 4482600; 564300, 4482400; 564300, 4482300; 564200, 4482200; 564100, 4482100; 564000, 4482100; 564200, 4481800; returning to 564200, 4480900; and excluding land bounded by 562900, 4482600; 562400, 4482600; 562400, 4483500; 562400, 4483500; 562500, 4483500; 562300, 4483794; 562300, 4483800; 562300, 4483803; 562300, 4484000; 562300, 4484010; 562100, 4484100; 561300, 4484100; 561300, 4485800; 561700, 4485800; 561700, 4485779; 561700, 4485400; 561700, 4485400; 562100, 4485400; 562100, 4485372; 562100, 4485000; 562900, 4485000; returning to 562900, 4482600.

(6) Unit 2: Shasta and Tehama Counties, California. From USGS 1:24,000 quadrangle maps Balls Ferry, Bend, Dales, Red Bluff East, Shingletown and Tuscan Buttes NE, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 570200, 4454800; 570200, 4455000; 570600, 4455900; 570000, 4456100; 569500, 4456300; 569300, 4456500; 568900, 4456500; 568600, 4456500; 568000, 4456800; 567900, 4457100; 567900, 4458000; 568400, 4458800; 569100, 4459800; 569600, 4460500; 569500, 4460800; 569000, 4460600; 568300, 4460700; 567500, 4460700; 566800, 4460000; 566400, 4460000; 565900, 4461100; 565800, 4461400; 565800, 4461700; 566000, 4462000; 565800, 4462300; 565900, 4462400; 565800, 4462500; 565900, 4462600; 565800, 4462800; 565900, 4462900; 565900, 4463000; 566000, 4463100; 566300, 4463100; 566500, 4463300; 566500, 4463600; 566700, 4463700; 566800, 4463700; 566900,

4463600; 567100, 4463500; 567200, 4463600; 567600, 4463400; 568300, 4463200; 569800, 4463200; 570600, 4463900; 570800, 4464300; 572000, 4465200; 572000, 4466300; 572100, 4466600; 572800, 4467300; 573500, 4468600; 573400, 4469000; 573100, 4469400; 572900, 4469600; 572600, 4469600; 571800, 4468800; 571400, 4468100; 571000, 4467900; 571000, 4468700; 571200, 4468700; 571100, 4469200; 571200, 4469500; 571200, 4470500; 570500, 4470900; 570300, 4471000; 570100, 4471000; 569800, 4470900; 569600, 4471000; 569400, 4471400; 569400, 4471800; 569700, 4471900; 569600, 4472000; 569900, 4472200; 570200, 4472100; 570500, 4472000; 570800, 4472200; 570900, 4472100; 571000, 4472100; 571300, 4472200; 571700, 4472200; 571900, 4472200; 572200, 4472300; 572500, 4472100; 573900, 4472100; 574300, 4473200; 575100, 4473200; 575600, 4473500; 576000, 4473900; 576600, 4473900; 577300, 4473900; 577700, 4474200; 578600, 4474200; 579300, 4474400; 580000, 4474400; 580600, 4474700; 581900, 4474700; 582400, 4475300; 583000, 4475400; 583200, 4475400; 583700, 4475000; 584200, 4475200; 584600, 4475200; 585400, 4474500; 586000, 4473600; 586100, 4473400; 585800, 4472600; 585500, 4472100; 584800, 4471900; 584500, 4471600; 584500, 4471400; 584700, 4471100; 584700, 4470800; 584500, 4470500; 583400, 4469700; 583100, 4469400; 582600, 4468500; 582600, 4467600; 582700, 4466900; 582700, 4466700; 581900, 4465800; 581000, 4465500; 580600, 4465200; 580400, 4464000; 580200, 4463300; 578900, 4462700; 578500, 4462300; 578100, 4462000; 577800, 4460900; 577700, 4460000; 576700, 4459300; 576600, 4458800; 576800, 4458300; 576800, 4457100; 576400, 4456700; 575500, 4456800; 574900, 4456800; 574100, 4455900; 573500, 4455600; 572300, 4455300; 572000, 4455300; 571600, 4455600; 571400, 4455400; 571100, 4454900; 570600, 4454900; returning to 570200, 4454800.

(7) Unit 3: Butte and Tehama Counties, California. From USGS 1:24,000 quadrangle maps Acorn Hollow, Campbell Mound, Foster Island, Nord, Richardson Springs, Richardson Springs NW and Vina, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N):

(i) Start at 592400, 4416700; 592500, 4416600; 592500, 4416000; 592000, 4415800; 592500, 4415800; 593800, 4416300; 594100, 4416300; 594400, 4416300; 594400, 4415800; 594900, 4415800; 594900,

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4415200; 597100, 4415000; 597800,
4415500; 598100, 4415200; 597600,
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4411900; 598300, 4412700; 598500,
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4410400; 598300, 4410100; 598100,
4410000; 598000, 4409900; 597700,
4409800; 597600, 4409600; 597500,
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4409000; 590800, 4409400; 591000,
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4417000; 589100, 4417400; 589200,
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4422900; 585100, 4423400; 585600,
4423700; 585800, 4423900; 585800,
4424200; 586100, 4424200; 586600,
4424800; 586800, 4424900; 587300,
4425500; 587400, 4425600; 587500,
4425800; 587500, 4425900; 587600,
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4428000; 589800, 4427100; 590500,
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4418700; 594200, 4418300; 594100,
4418000; 594100, 4417900; 594700,
4417900; 595100, 4417800; 595800,
4417300; 595800, 4416600; 595100,
4416500; 594400, 4416500; 594000,
4416400; 593300, 4416400; 592800,
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and excluding land bounded by 591500,
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4410200; 591400, 4410200; 591400,
4409900; 591600, 4409900; returning to
591500, 4409600.

(ii) Start at 602900, 4402100; 602700,
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4408800; 600300, 4408400; 600000,
4408100; 600400, 4407600; 599500,
4406700; 599500, 4406200; 600300,
4406000; 601200, 4405600; 601800,

4405600; 602000, 4405500; 602200, 4405200; 602500, 4405200; 602700, 4404900; 603300, 4404700; 604500, 4404200; 605200, 4404200; 605600, 4404000; 605600, 4403600; 605100, 4403300; 604700, 4403400; 604500, 4403300; 604475, 4403175; 604400, 4403100; 604300, 4403100; 604200, 4403000; 604100, 4402900; 604000, 4402900; 603800, 4402800; 603800, 4402600; 603600, 4402400; 603400, 4402400; 603200, 4402500; 603100, 4402400; 602900, 4402400; returning to 602900, 4402100.

(8) Unit 4: Butte County, California. [Reserved]

(9) Unit 5: Colusa and Glen Counties, California. [Reserved]

(10) Unit 6: Colusa County, California. From USGS 1:24,000 quadrangle maps Colusa and Meridian, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 589200, 4335900; 587900, 4335900; 587900, 4336000; 587400, 4336600; 587300, 4336800; 586900, 4337800; 586700, 4337800; 586700, 4337700; 586400, 4337700; 586400, 4336800; 586300, 4336600; 586000, 4336600; 585800, 4336900; 585800, 4337200; 585900, 4337200; 585900, 4338200; 586100, 4338200; 586100, 4338400; 586800, 4338900; 587000, 4338500; 587000, 4338400; 586800, 4338200; 587000, 4338100; 587500, 4337600; 587700, 4337800; 588800, 4336700; 588900, 4336700; 589100, 4336500; 589100, 4336900; 589200, 4336900; returning to 589200, 4335900

(11) Unit 7: Yuba County, California. From USGS 1:24,000 quadrangle maps Browns Valley and Wheatland, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 632400, 4329000; 631300, 4329000; 631300, 4329200; 631600, 4329200; 631600, 4329800; 631900, 4329800; 631900, 4330600; 632800, 4330600; 633000, 4330900; 633000, 4331300; 633100, 4331500; 633500, 4331700; 633800, 4331500; 633800, 4332200; 635000, 4332200; 635000, 4329900; 633800, 4329900; 633600, 4330100; 633300, 4330100; 633300, 4330300; 632700, 4330100; 632400, 4329900; returning to 632400, 4329000.

(12) Unit 8: Sacramento, California. [Reserved]

(13) Unit 9: Amador and Sacramento Counties, California. From USGS 1:24,000 quadrangle maps Carbondale, Clay, Goose Creek and Sloughhouse, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 668900, 4255600; 669300, 4255400; 670600, 4255800; 671500, 4256400; 671700, 4256000; 671900, 4256000; 672200, 4255600; 672400, 4255600; 672700, 4256400; 673200,

4256400; 672800, 4255100; 672800, 4254800; 673100, 4254900; 673800, 4254900; 674000, 4254600; 674000, 4254400; 674500, 4254000; 674500, 4253700; 674100, 4253500; 674100, 4252900; 674300, 4252300; 674500, 4251900; 674500, 4251600; 673400, 4251500; 673300, 4251400; 673300, 4251200; 673900, 4251000; 674000, 4250500; 674300, 4250000; 674300, 4249800; 674200, 4249700; 673900, 4249700; 673600, 4249900; 672500, 4249900; 671900, 4250200; 671300, 4250200; 671100, 4250500; 671000, 4250500; 671000, 4249800; 670700, 4249800; 670700, 4249500; 670800, 4249300; 670800, 4249000; 670900, 4248930; 670900, 4248500; 670500, 4248300; 670500, 4248125; 670400, 4248100; 670400, 4248000; 670100, 4248000; 670100, 4247800; 670500, 4247500; 671100, 4247500; 671600, 4247700; 671800, 4247600; 671900, 4247300; 671900, 4247100; 671500, 4246800; 671600, 4246600; 671800, 4246000; 671250, 4245360; 670800, 4245000; 670000, 4244200; 670000, 4244100; 670500, 4243800; 670200, 4243400; 670200, 4243300; 670300, 4243200; 670400, 4243100; 670600, 4242600; 671200, 4242900; 671600, 4243000; 671600, 4242700; 670700, 4242100; 669800, 4242100; 669300, 4241900; 668900, 4241900; 668700, 4241800; 668500, 4241600; 668400, 4241600; 668200, 4241700; 668000, 4242000; 667900, 4242000; 667400, 4241600; 667400, 4241800; 666400, 4241700; 665400, 4241700; 665400, 4242700; 665000, 4242300; 664800, 4242300; 664800, 4242200; 664700, 4242200; 664600, 4242100; 664500, 4242100; 664500, 4241300; 664000, 4241300; 664000, 4241000; 663500, 4241000; 663500, 4240900; 663400, 4240800; 663300, 4240800; 663300, 4240600; 663100, 4240600; 663100, 4240900; 662800, 4240900; 662800, 4240500; 662700, 4240400; 662700, 4240000; 662500, 4240000; 662500, 4239600; 662100, 4239600; 662100, 4239400; 662000, 4239300; 661700, 4239300; 661700, 4239200; 661400, 4239000; 661400, 4239900; 661500, 4239900; 661500, 4241600; 661500, 4241900; 661700, 4242000; 662200, 4242000; 662200, 4241600; 662900, 4241600; 662800, 4242300; 662500, 4242300; 662600, 4243000; 662900, 4243100; 663400, 4243100; 663400, 4243800; 663000, 4243800; 663000, 4243900; 662500, 4243900; 662700, 4244700; 662850, 4244800; 663000, 4244900; 663100, 4245300; 663800, 4245300; 663900, 4245500; 664400, 4245600; 664500, 4245200; 664600, 4245200; 664900, 4245275; 665000, 4245300; 664900,

4245700; 664900, 4246500; 664400, 4246500; 663900, 4246700; 662500, 4246300; 662200, 4246300; 662100, 4246400; 661700, 4246400; 662000, 4247300; 661800, 4247500; 660900, 4247500; 660850, 4247100; 659700, 4247100; 659500, 4247300; 659500, 4248300; 660000, 4248300; 659900, 4249600; 660000, 4249900; 659900, 4250200; 659400, 4249700; 659400, 4249500; 659300, 4249200; 659100, 4249000; 659100, 4248900; 659200, 4248800; 659100, 4248700; 658900, 4248700; 658800, 4248600; 658600, 4248600; 658500, 4248800; 658400, 4248900; 658200, 4249000; 658200, 4248700; 658500, 4248500; 658500, 4248400; 658400, 4248300; 658400, 4247900; 658100, 4247900; 658000, 4248500; 656700, 4248500; 656300, 4248900; 655900, 4248200; 656100, 4248100; 656100, 4248000; 656000, 4247800; 655200, 4247800; 655200, 4247200; 654700, 4247200; 654700, 4248750; 654700, 4249000; 655100, 4249000; 655800, 4249000; 656300, 4249700; 656600, 4249500; 657200, 4250200; 656700, 4251100; 657700, 4251100; 657700, 4251500; 656700, 4251400; 656700, 4252100; 656500, 4252300; 656500, 4252600; 657000, 4253700; 657400, 4254600; 657800, 4254300; 657800, 4254200; 658900, 4253500; 659000, 4253500; 659300, 4253300; 660000, 4254500; 660100, 4254800; 660200, 4254900; 660300, 4255200; 660600, 4255300; 660700, 4255400; 660800, 4256000; 660600, 4256200; 660300, 4256100; 660000, 4256200; 659800, 4256300; 659850, 4256450; 659900, 4256600; 660200, 4256500; 660300, 4256800; 660600, 4256700; 660800, 4256800; 660600, 4257000; 660700, 4257500; 660600, 4257600; 660600, 4258000; 659900, 4258000; 659900, 4258100; 659700, 4258300; 659700, 4258500; 659600, 4258800; 659700, 4259100; 660100, 4259300; 660300, 4259100; 660500, 4259100; 660600, 4259300; 660800, 4259300; 661300, 4259800; 661600, 4259700; 661600, 4259300; 661800, 4259300; 661800, 4259100; 662200, 4259100; 662200, 4259600; 662400, 4259600; 662700, 4259100; 662900, 4258900; 662800, 4258700; 662700, 4258500; 662000, 4258100; 661500, 4257700; 661200, 4257100; 661600, 4256700; 662000, 4256700; 661900, 4256400; 661800, 4256100; 661800, 4255800; 661600, 4255600; 662100, 4255400; 662300, 4255800; 663100, 4255800; 664100, 4256600; 664500, 4257000; 664800, 4257500; 664800, 4257800; 665100, 4258100; 665100, 4258500; 665400, 4258700; 665900, 4258800; 666500, 4258800; 666700, 4258600; 666600,

4258200; 666300, 4258000; 666100, 4257400; 666000, 4257300; 666000, 4257000; 666400, 4257000; 666500, 4257600; 666800, 4257600; 666900, 4257400; 666900, 4257100; 666700, 4256900; 666800, 4256700; 666700, 4256300; 666600, 4256100; 667200, 4256100; 667400, 4256300; 667600, 4256300; 667800, 4256100; 667900, 4256300; 668100, 4256300; 668400, 4255900; returning to 668900, 4255600.

(14) Unit 10: Yolo County, California. From USGS 1:24,000 quadrangle maps Davis and Saxon, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 615400, 4260700; 614500, 4260700; 614500, 4261500; 614200, 4261500; 614200, 4261800; 614000, 4261800; 614000, 4262300; 615400, 4262300; returning to 615400, 4260700.

(15) Unit 11: Solano County, California. [Reserved]

(16) Unit 12: Solano County, California. [Reserved]

(17) Unit 13: Stanislaus County, California. From USGS 1:24,000 quadrangle maps Knights Ferry, Oakdale, Paulsell and Waterford California, land bounded by the following UTM 10 NAD 83 coordinates (E, N):

(i) Start at 698400, 4172400; 698100, 4172800; 698200, 4173000; 697400, 4174300; 697300, 4174300; 697300, 4174500; 697800, 4174500; 697800, 4176300; 697700, 4176300; 697700, 4179300; 696800, 4179300; 696600, 4180000; 696600, 4180200; 697100, 4179900; 697700, 4180200; 697700, 4180400; 697600, 4180400; 697600, 4182200; 698700, 4182200; 699000, 4182600; 700300, 4182600; 700300, 4183400; 699400, 4183400; 699400, 4184100; 700800, 4185100; 704100, 4186300; 705300, 4187700; 705700, 4187700; 706500, 4187700; 706200, 4186800; 705600, 4185900; 706800, 4184600; 705500, 4183800; 705000, 4183100; 704800, 4181800; 701800, 4181800; 701800, 4181500; 701500, 4181100; 702000, 4179500; 703200, 4179500; 703000, 4178800; 702900, 4178800; 702600, 4178900; 702400, 4178900; 702400, 4178500; 702800, 4178300; 702900, 4178300; 703100, 4177800; 703100, 4177500; 703000, 4177300; 702700, 4177500; 702600, 4177500; 702500, 4177400; 702700, 4177200; 702700, 4177000; 702600, 4177100; 702400, 4177100; 702400, 4177000; 702400, 4176800; 702300, 4176800; 702300, 4177100; 702200, 4177200; 702000, 4177100; 702100, 4176900; 702000, 4176800; 701800, 4176800; 701600, 4176700; 701600, 4176500; 701600, 4176200; 701700, 4175900; 701800, 4175800; 702000, 4175800; 702000, 4175100; 701600,

4175100; 701600, 4174200; 701900, 4173700; 701800, 4173600; 701700, 4173500; 701700, 4173300; 701700, 4173200; 701600, 4173200; 701500, 4173100; 701500, 4173000; 701600, 4173000; 701600, 4172800; 701500, 4172600; 701300, 4172500; 701100, 4172600; 700700, 4172600; 700600, 4172600; 700500, 4172700; 700500, 4172900; 700400, 4172900; 700400, 4172800; 700100, 4172700; 699600, 4172700; 699500, 4172800; 699300, 4172800; 699100, 4172500; 698800, 4172500; 698700, 4172600; returning to 698400, 4172400; and excluding land bound by 700700, 4176200; 699400, 4176200; 699300, 4176200; 699300, 4177800; 701000, 4177800; 701000, 4177000; 700500, 4177000; 700500, 4176600; 700700, 4176400; returning to 700700, 4176200; and excluding land bound by 699400, 4179400; 698100, 4179400; 698400, 4179500; 698400, 4180200; 699800, 4180200; 699800, 4180000; 699600, 4179800; returning to 699400, 4179400.

(ii) Start at 702000, 4169700; 701000, 4169700; 700700, 4169700; 700700, 4170500; 700500, 4170500; 700500, 4170900; 700300, 4170900; 700300, 4171100; 700300, 4171800; 701200, 4171800; 702000, 4171800; 702000, 4169800; returning to 702000, 4169700.

(18) Unit 14: Alameda County, California. From USGS 1:24,000 quadrangle maps Milpitas and Niles, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 591200, 4148600; 590700, 4148600; 590700, 4148700; 590300, 4149200; 589400, 4150300; 589500, 4150200; 589900, 4150100; 590100, 4150400; 590900, 4150000; 591500, 4150800; 591600, 4150700; 591800, 4150700; 592000, 4150900; 592300, 4150600; 592300, 4150400; 592200, 4150000; 592100, 4149600; 592000, 4149500; 591600, 4149500; 591600, 4148800; returning to 591200, 4148600.

(19) Unit 15: Madera, Mariposa and Merced, California. From USGS 1:24,000 quadrangle maps Haystack Mtn., Illinois Hill, Indian Gulch, Le Grand, Merced, Merced Falls, Owens Reservoir, Plainsburg, Planada, Raynor Creek, Snelling, Winton, and Yosemite Lake, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N):

(i) Start at 736600, 4134200; 733900, 4134200; 733900, 4134800; 733800, 4134900; 733800, 4135000; 733000, 4135000; 733000, 4135800; 732500, 4135800; 730300, 4135700; 730200, 4135600; 730100, 4135600; 729900, 4135700; 729900, 4136500; 729900, 4136700; 730000, 4136700; 730100, 4136600; 730200, 4136600; 730300, 4136600; 730400, 4136700; 730500,

4136800; 730600, 4136900; 730600, 4137000; 730600, 4137200; 730600, 4137300; 730500, 4137400; 730400, 4137500; 730300, 4137500; 729900, 4137700; 729800, 4137700; 729700, 4137600; 729400, 4137600; 729300, 4137800; 729300, 4138400; 729200, 4138500; 729000, 4138400; 728800, 4138700; 728400, 4138800; 728200, 4138800; 727900, 4138600; 727700, 4138500; 727600, 4138400; 727400, 4138300; 727400, 4137800; 727300, 4137800; 727300, 4137600; 727400, 4137600; 727400, 4137500; 727300, 4137500; 727300, 4137400; 727400, 4137400; 727400, 4137200; 726500, 4137200; 726500, 4136500; 726400, 4136400; 725800, 4136400; 725800, 4137200; 725000, 4137200; 724900, 4138800; 725500, 4138800; 725500, 4138700; 725800, 4138700; 725800, 4138800; 725900, 4138800; 725900, 4139500; 726500, 4139500; 726500, 4139600; 725900, 4139600; 725800, 4139600; 725800, 4140200; 725900, 4140200; 725900, 4140900; 725400, 4140900; 725400, 4140800; 725100, 4140800; 725100, 4141000; 724900, 4141000; 724900, 4141200; 724100, 4141200; 724100, 4141600; 723400, 4141600; 723400, 4141100; 723200, 4141100; 723200, 4140600; 723400, 4140500; 723400, 4139500; 724000, 4139500; 724000, 4139400; 723900, 4138900; 723900, 4138700; 723500, 4138200; 723400, 4138200; 723400, 4138300; 723000, 4138300; 723000, 4138700; 723000, 4138900; 723100, 4139100; 723200, 4139400; 723300, 4139500; 722100, 4139500; 722000, 4140500; 721900, 4141100; 721900, 4141900; 721900, 4143400; 720800, 4143400; 720900, 4141800; 721000, 4141500; 721000, 4141200; 721100, 4141100; 721000, 4141000; 717800, 4140900; 717700, 4142500; 714500, 4142400; 714500, 4144900; 715500, 4144900; 715500, 4145000; 715800, 4145000; 715900, 4145000; 716000, 4145000; 716100, 4145100; 716100, 4145200; 716000, 4145200; 715900, 4145300; 715900, 4145400; 716000, 4145500; 716000, 4145600; 716100, 4145700; 717000, 4145700; 717700, 4145300; 717800, 4145300; 717800, 4145200; 717800, 4145100; 717600, 4144900; 717600, 4144800; 717600, 4144700; 717800, 4144500; 717900, 4144600; 718200, 4144600; 718400, 4144500; 718700, 4144500; 718700, 4144800; 718600, 4145000; 718700, 4145100; 718700, 4145600; 718600, 4145600; 718600, 4145700; 718700, 4145800; 718600, 4145900; 718500, 4146000; 718500, 4146100; 718600, 4146200; 718600, 4146500; 718300, 4146500; 718200, 4146600; 718200, 4146800; 718300, 4146800; 718500,

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(ii) Start at 745300, 4139300; 745400, 4139400; 745500, 4139500; 745500, 4139600; 745500, 4140300; 746100, 4139500; 746800, 4138500; 747700, 4137700; 748500, 4135800; 748700, 4135100; 749500, 4134000; 750700, 4131700; 751600, 4130500; 752000, 4130200; 752100, 4130200; 752200, 4130200; 752800, 4130100; 753300, 4130400; 753500, 4130400; 753900, 4130200; 754000, 4129300; 753400, 4128400; 753900, 4127700; 754400, 4127700; 754600, 4127400; 755300, 4128400; 755400, 4128400; 755600, 4127700; 756900, 4126400; 757800, 4125800; 758400, 4126300; 758500, 4126300; 758600, 4126000; 757900, 4125100; 757400, 4125100; 757800, 4124400; 757800, 4124000; 758200, 4124000; 758500, 4123600; 758800, 4123600; 759000, 4123900; 759300, 4123900; 759700, 4123500; 759700, 4123400; 759200, 4122900; 760300, 4121300; 761000, 4121000; 761300, 4120300; 762100, 4119400; 762300, 4119400; 762700, 4118600; 762800, 4118000; 762100, 4118900; 760500, 4118000; 760400, 4117100; 759700, 4117100; 759700, 4115300; 756500, 4115300; 756500, 4117100; 756600, 4117100; 756500, 4117200; 756200, 4117300; 755800, 4117200; 755700, 4117200; 755700, 4116700; 755700, 4116600; 755500, 4116500; 755400, 4116500; 754900, 4116300; 754800, 4116300; 754800, 4116600; 753700, 4116600; 753700, 4116400; 753300, 4116400; 753300, 4115600; 753100, 4115500; 752700, 4115400; 752400, 4115300; 752200, 4115200; 752200, 4115600; 751800, 4115600; 752000, 4115800; 751900, 4116000; 751400, 4116100; 751100, 4116300; 751300, 4116300; 751300, 4116900; 751100, 4116900; 750800, 4116900; 750700, 4117000; 750000, 4116800; 749300, 4116800; 749300, 4116500; 746000, 4116500; 746000, 4116600; 745200, 4117800; 744600, 4117800; 744600, 4118600; 743600, 4118600; 743600, 4119000; 745400, 4119000; 745400, 4119700; 744700, 4119700; 744700, 4120500; 745300, 4120500; 745500, 4120600; 745600, 4120700; 746000, 4120700; 746000, 4121400; 746200, 4121500; 746200, 4121600; 746400, 4121700; 746400, 4121800; 747600, 4120700; 746500, 4120700; 746500, 4119700; 747000, 4119700; 747000, 4120300; 747800, 4120300; 747800, 4120000; 748400, 4120000; 747800, 4120500; 747800, 4121400; 748600, 4121400; 748600, 4121900; 747800, 4121900; 747800, 4123300; 748300, 4123300; 748300, 4123500; 748500, 4123500; 748600, 4123500; 748600, 4123900; 747800, 4123900; 747800, 4124600; 747400, 4125100; 747400, 4125500; 746900, 4125500; 746900, 4125800; 747000, 4125900; 746900, 4125900; 746600, 4125800; 746300, 4125700; 746200, 4125600; 746200, 4125500; 745700, 4125500; 745700, 4125100; 744500, 4125100; 744500, 4125300; 744400, 4125300; 744400, 4125200; 743700, 4125200; 743700, 4125800; 744500, 4125800; 744500, 4126200; 743700, 4126200; 743700, 4127000; 742400, 4127000; 742000, 4127200; 742000, 4128600; 742800, 4128600; 742800, 4129100; 742900, 4129100; 743000, 4129100; 743000, 4129200; 743400, 4129300; 743600, 4129500; 743600, 4130700; 743500, 4130700; 743500, 4130900; 743100, 4130900; 743000, 4130800; 743000, 4130600; 742400, 4130600; 742400, 4130800; 742000, 4130800; 742000, 4131100; 741200, 4131100; 741300, 4131000; 741500, 4131000; 741600, 4130900; 741600, 4130700; 741400, 4130400; 741300, 4130200; 740400, 4130200; 740400, 4130300; 740300, 4130300; 740300,

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(20) Subunit 16A: Merced County, California. [Reserved]

(21) Subunit 16B: Merced County, California. [Reserved]

(22) Subunit 16C: Gustine, San Luis Ranch, Stevinson, California. [Reserved]

(23) Subunit 16D: Merced County, California. [Reserved]

(24) Subunit 16E: Merced County, California. [Reserved]

(25) Subunit 16F: Merced County, California. [Reserved]

(26) Subunit 16G: Merced County, California. [Reserved]

(27) Unit 17: Fresno County, California. From USGS 1:24,000 quadrangle maps Academy and Millerton Lake East, California, land bounded by the following UTM 11 NAD 83 coordinates (E, N): 267300, 4097300; 266900, 4097300; 267000, 4097600; 267800, 4098300; 268100, 4098700; 268100, 4098900; 268000, 4099100; 267400, 4099800; 267400, 4100300; 267700, 4100800; 268100, 4101400; 268600, 4101400; 269100, 4101100; 269600, 4101100; 269800, 4101300; 269900, 4101500; 269600, 4102200; 269200, 4102400; 268600, 4102800; 268700, 4103800; 269100, 4103800; 269600, 4103100; 270200, 4103500; 270300, 4103500; 270700, 4102500; 270500, 4102400; 270300, 4102200; 270300, 4101900; 270500, 4101500; 270600, 4101100; 270500, 4101000; 270200, 4100700; 269400, 4100500; 268300, 4100500; 268100, 4100300; 268100, 4100100; 268400, 4099800; 268600, 4099500; 268700, 4099200; 268700, 4098900; 268600, 4098300; 268500, 4098100; 268400, 4097800; 268100, 4097600; 267800, 4097400; returning to 267300, 4097300.

(28) Subunit 18A: Kings and Tulare County, California. From USGS 1:24,000 quadrangle maps Burris Park, Monson, Remnoy and Traver, California, land bounded by the following UTM 11 NAD 83 coordinates (E, N): 287000, 4034600; 287000, 4035100; 288500, 4035100; 288500, 4035600; 287700, 4035700; 287700, 4036700; 289300, 4036700; 289400, 4037400; 291100, 4037400; 291100, 4037200; 291800, 4037200; 291900, 4036800; 291900, 4035600;

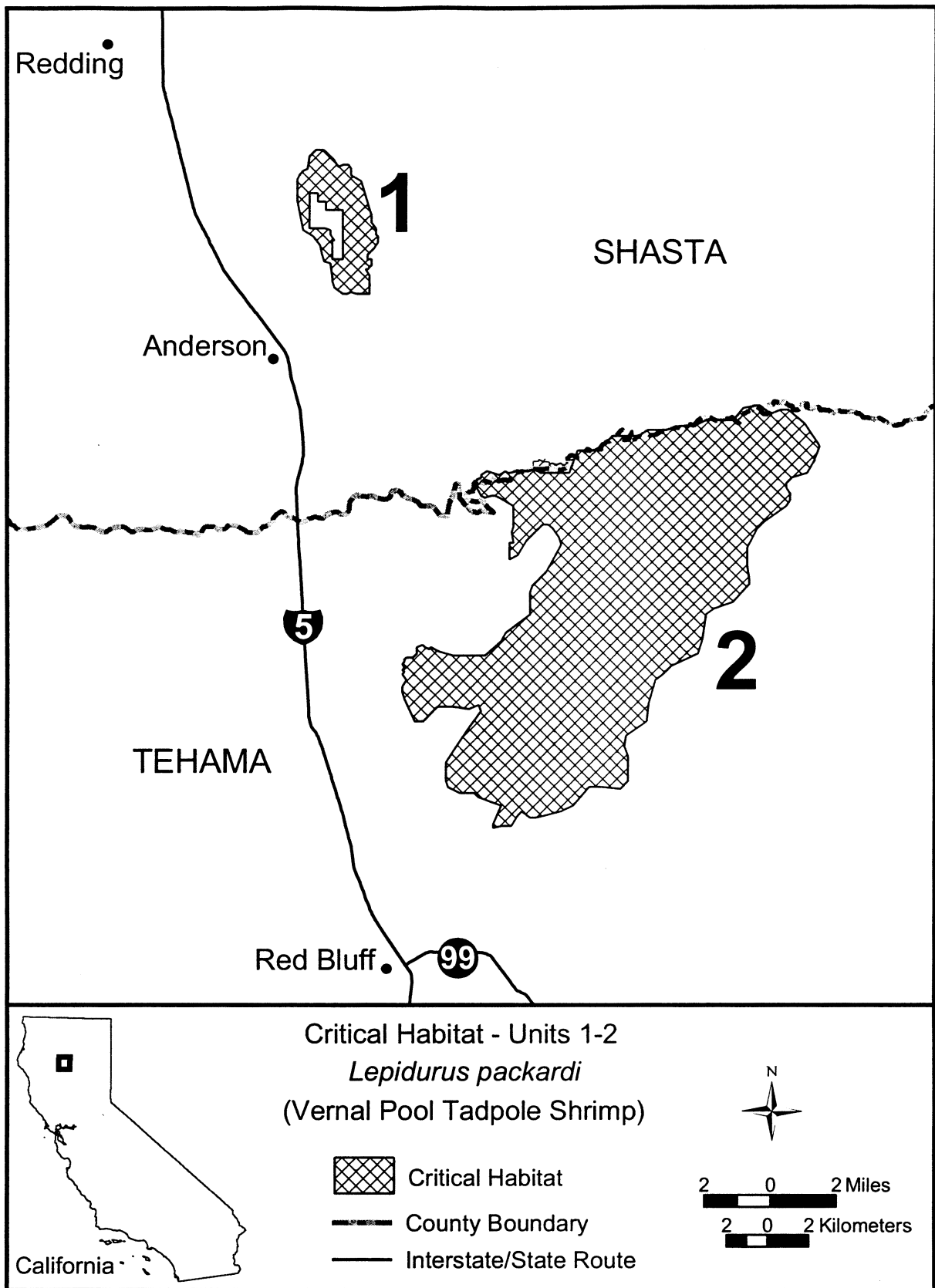
292700, 4035800; 292700, 4036500; 293500, 4036400; 293500, 4036000; 294300, 4036000; 294300, 4035600; 293500, 4035600; 293400, 4034000; 292600, 4034000; 292600, 4035400; 291900, 4035400; 291700, 4035400; 291700, 4035600; 290500, 4035700; 290500, 4036100; 289800, 4036100; 289800, 4035700; 289400, 4035700; 289400, 4034500; 288500, 4034500; 288500, 4034200; 287700, 4034200; 287700, 4034500; returning to 287000, 4034600.

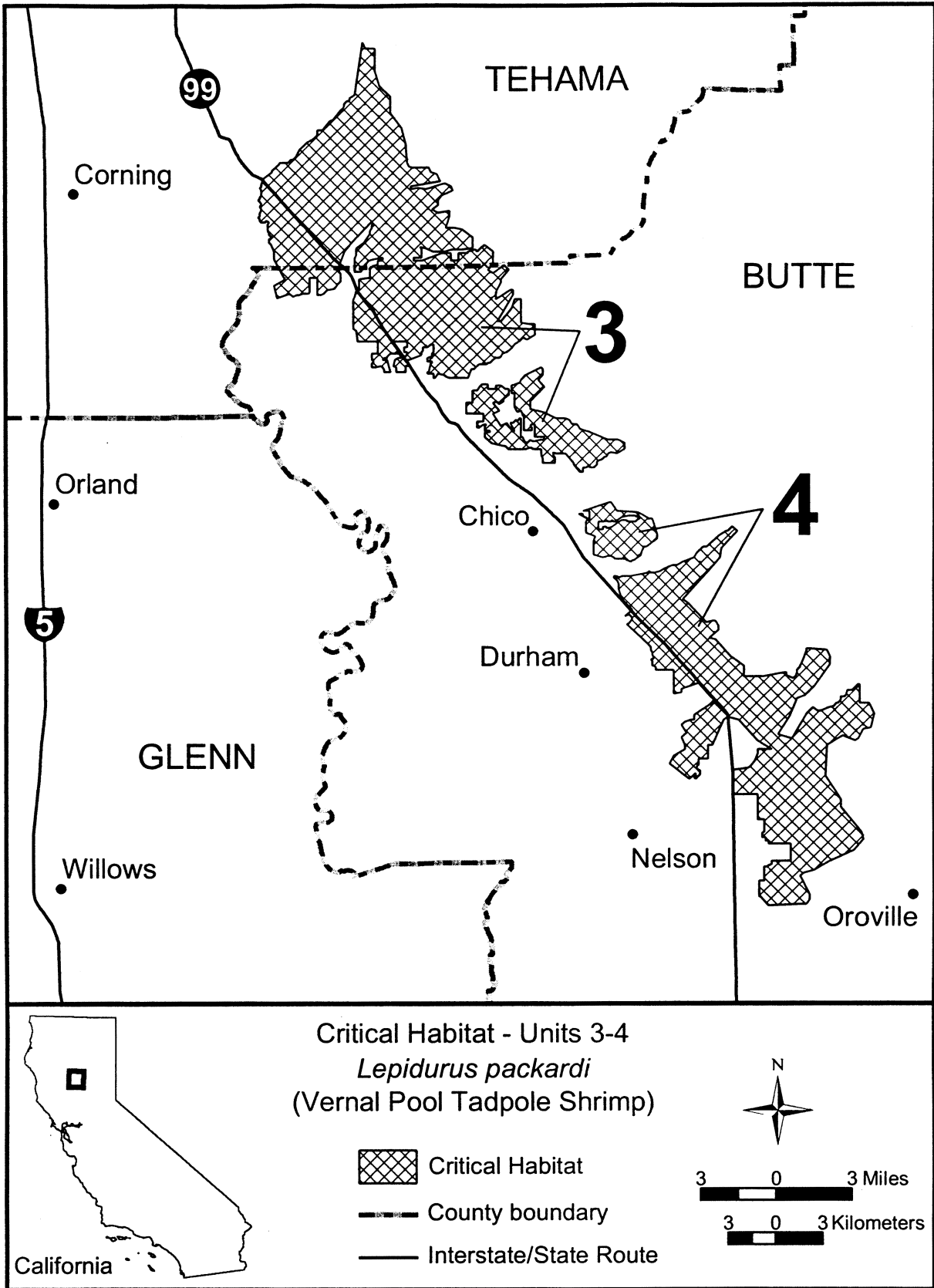
(29) Subunit 18B: Tulare County, California. From USGS 1:24,000 quadrangle map Monson, California, land bounded by the following UTM 11 NAD 83 coordinates (E, N): 297500, 4035500; 296700, 4035500; 296700, 4036300; 297500, 4036300; returning to 297500, 4035500.

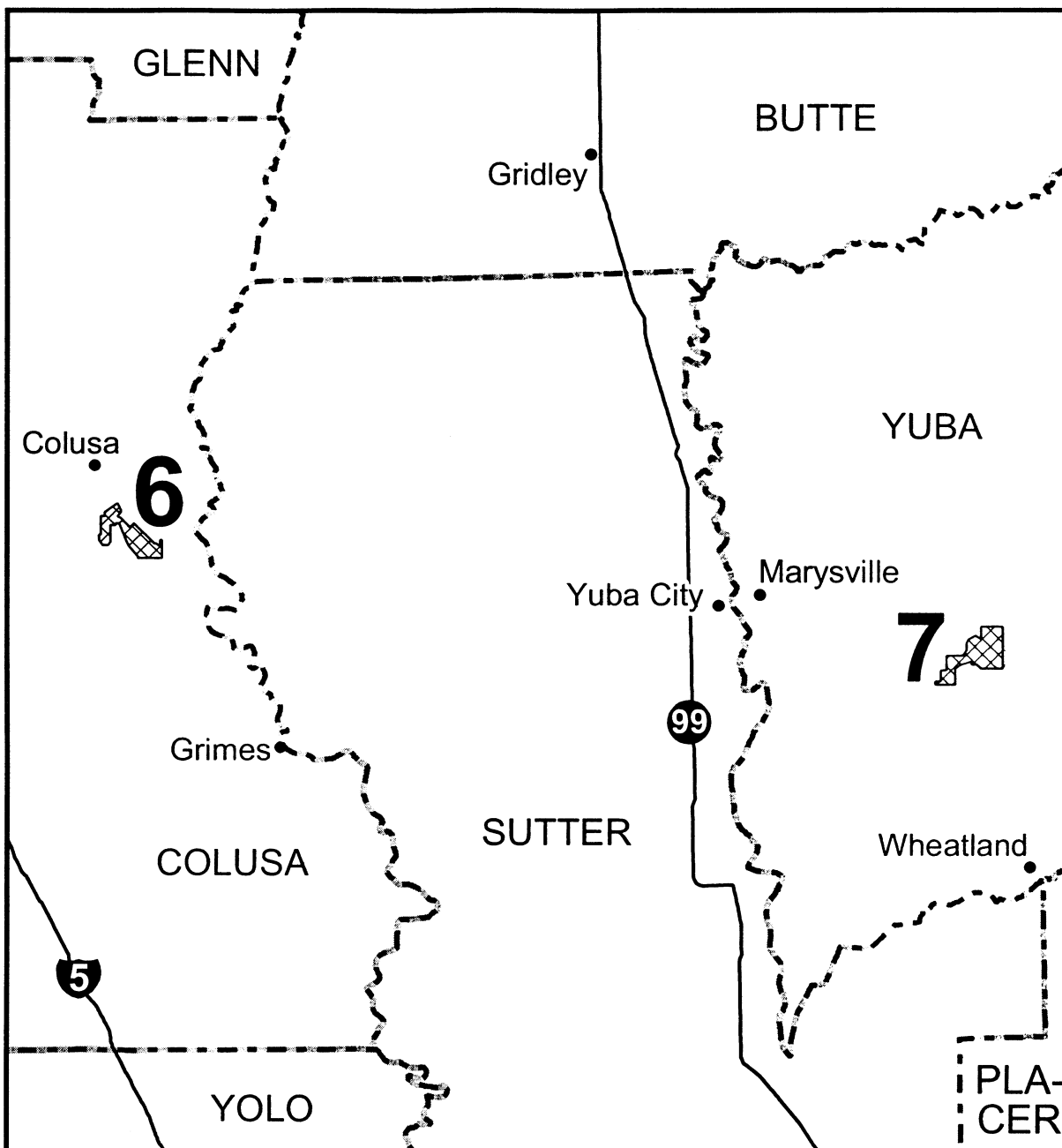
(30) Subunit 18C: Tulare County, California. From USGS 1:24,000 quadrangle map Ivanhoe, California, land bounded by the following UTM 11 NAD 83 coordinates (E, N): 299200, 4038600; 298400, 4038600; 298400, 4039500; 298500, 4039800; 298900, 4039900; 298900, 4041000; 299700, 4041000; 299300, 4041500; 300900, 4041500; 300900, 4041400; 300400, 4041400; 300400, 4040100; 300300, 4040100; 300300, 4039400; 299200, 4039400; returning to 299200, 4038600.

(31) Maps follow of critical habitat units 1 and 2, 3 and 4, 6 and 7, 8 through 10, 13, 14, 15, 16, 17, and 18 (respectively) for vernal pool tadpole shrimp.




BILLING CODE 4310-55-P









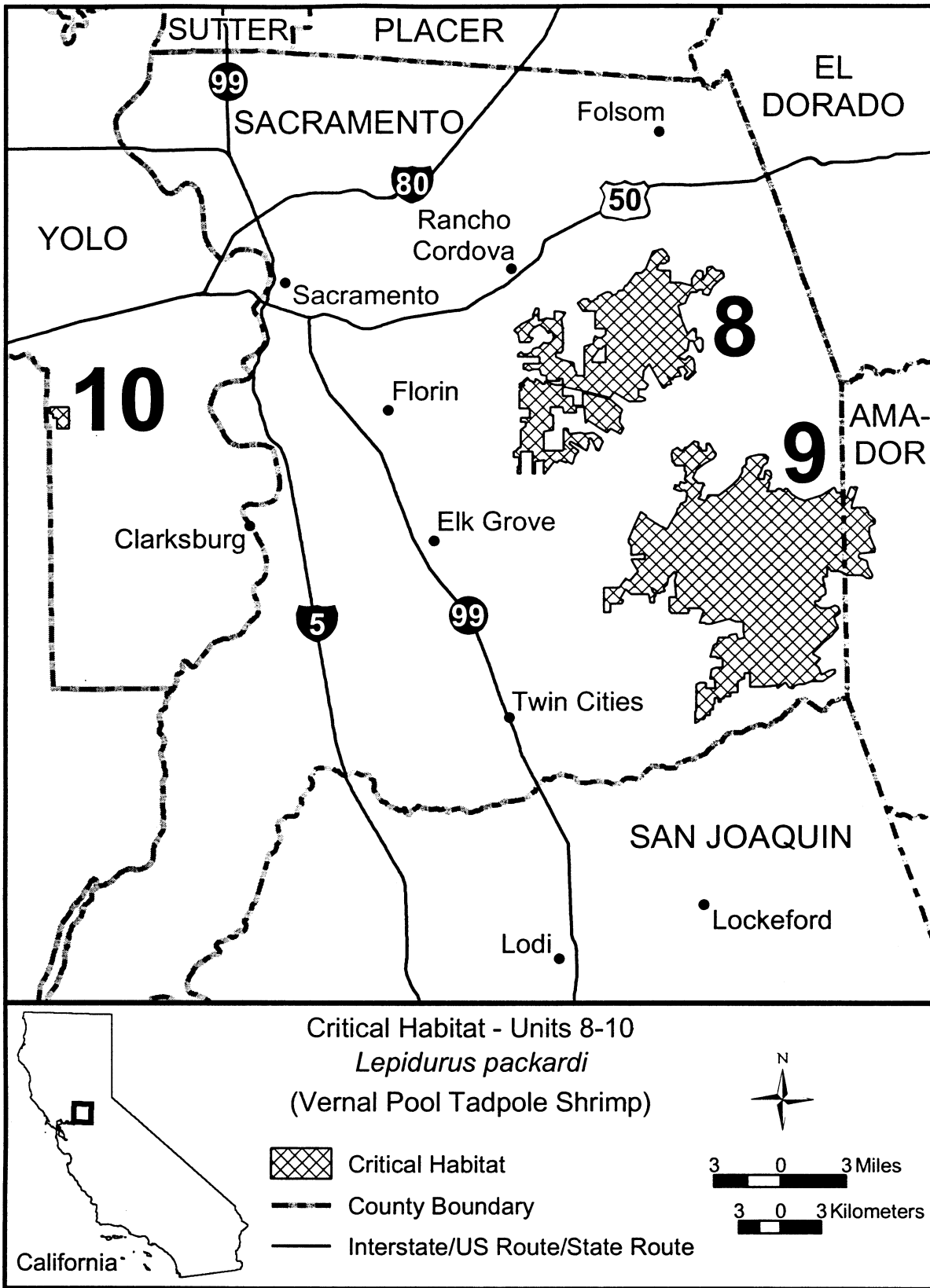


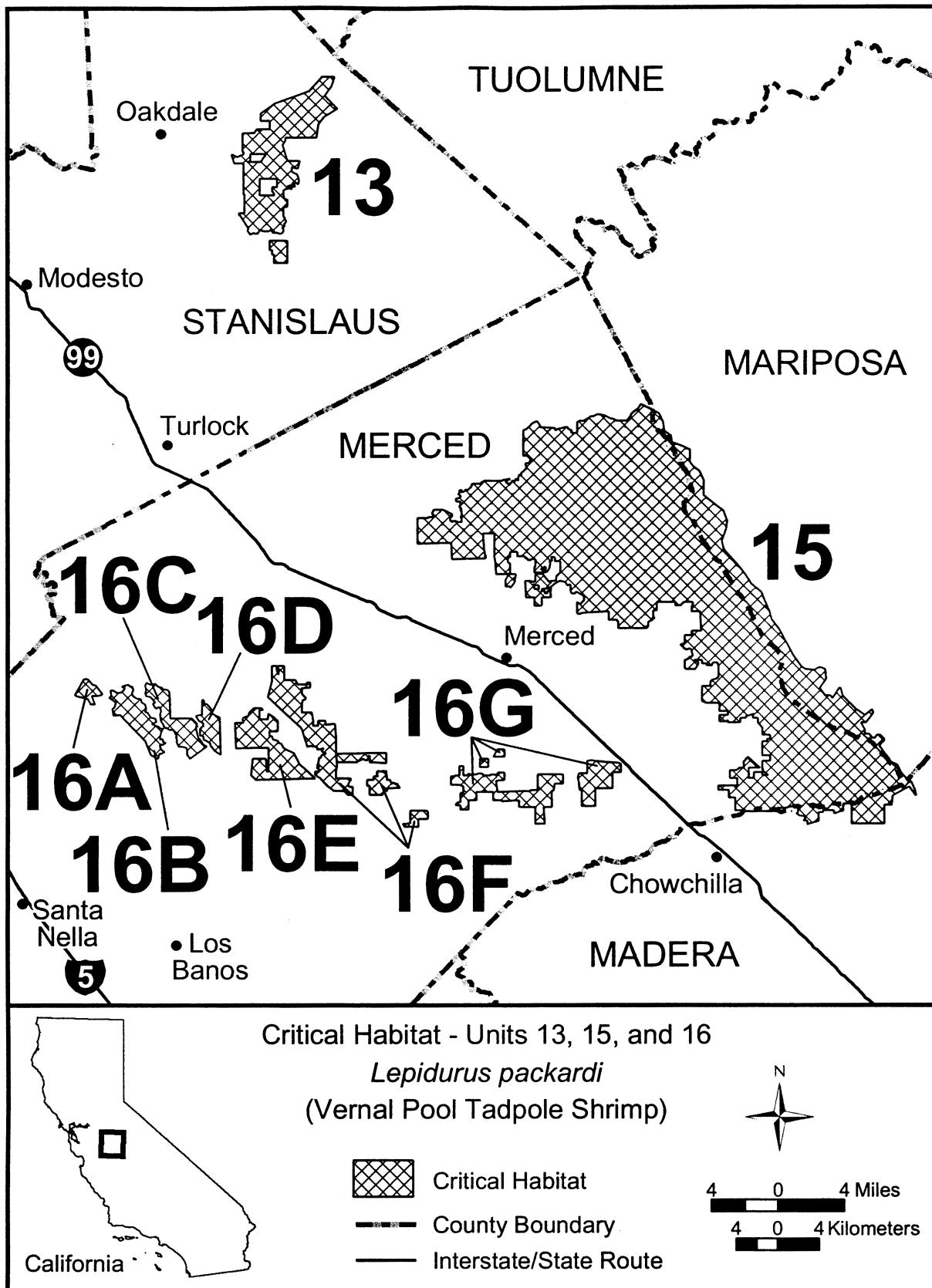
Critical Habitat - Units 6-7
Lepidurus packardii
 (Vernal Pool Tadpole Shrimp)

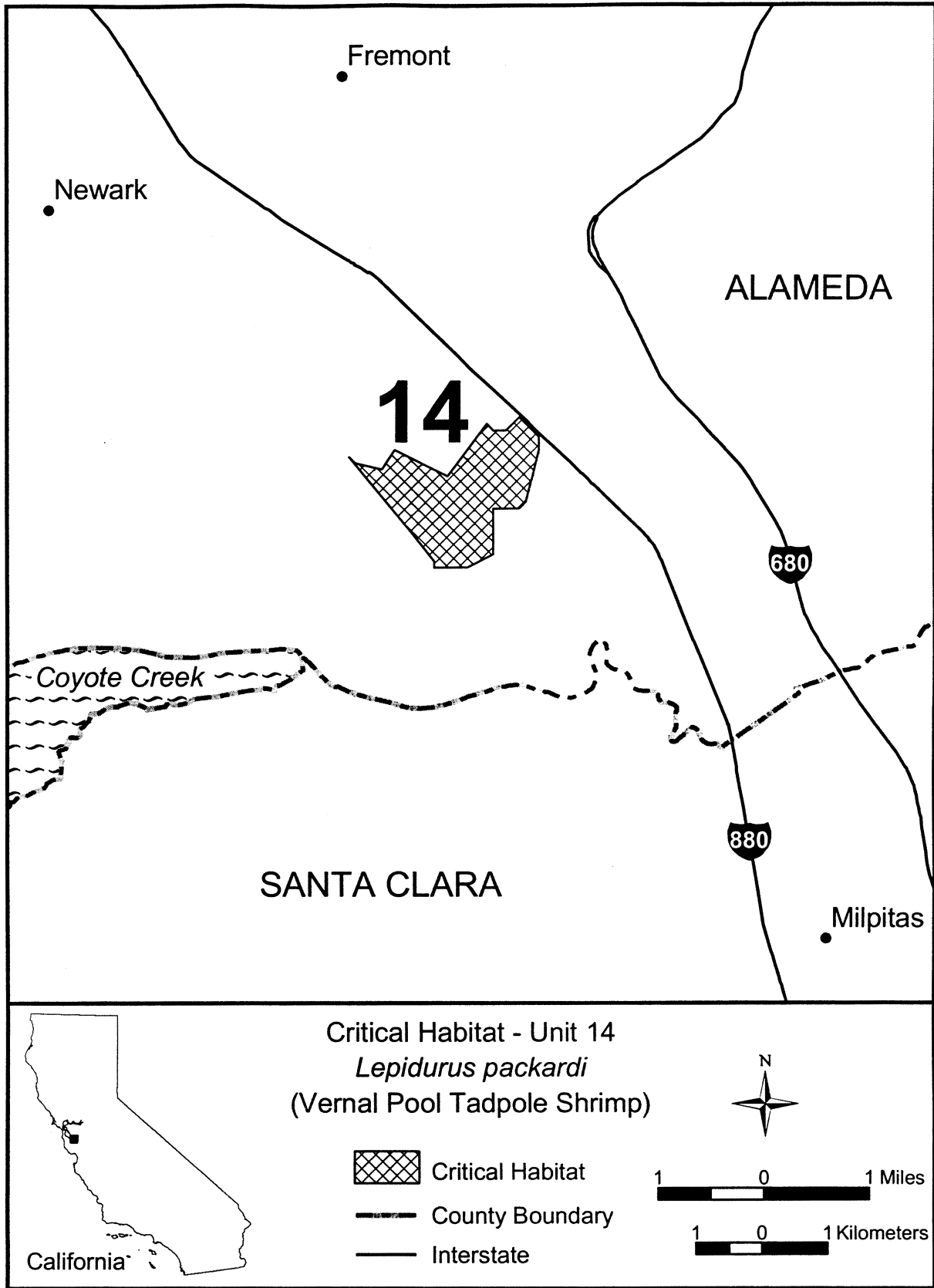
 Critical Habitat
 County Boundary
 Interstate/US Route/State Route

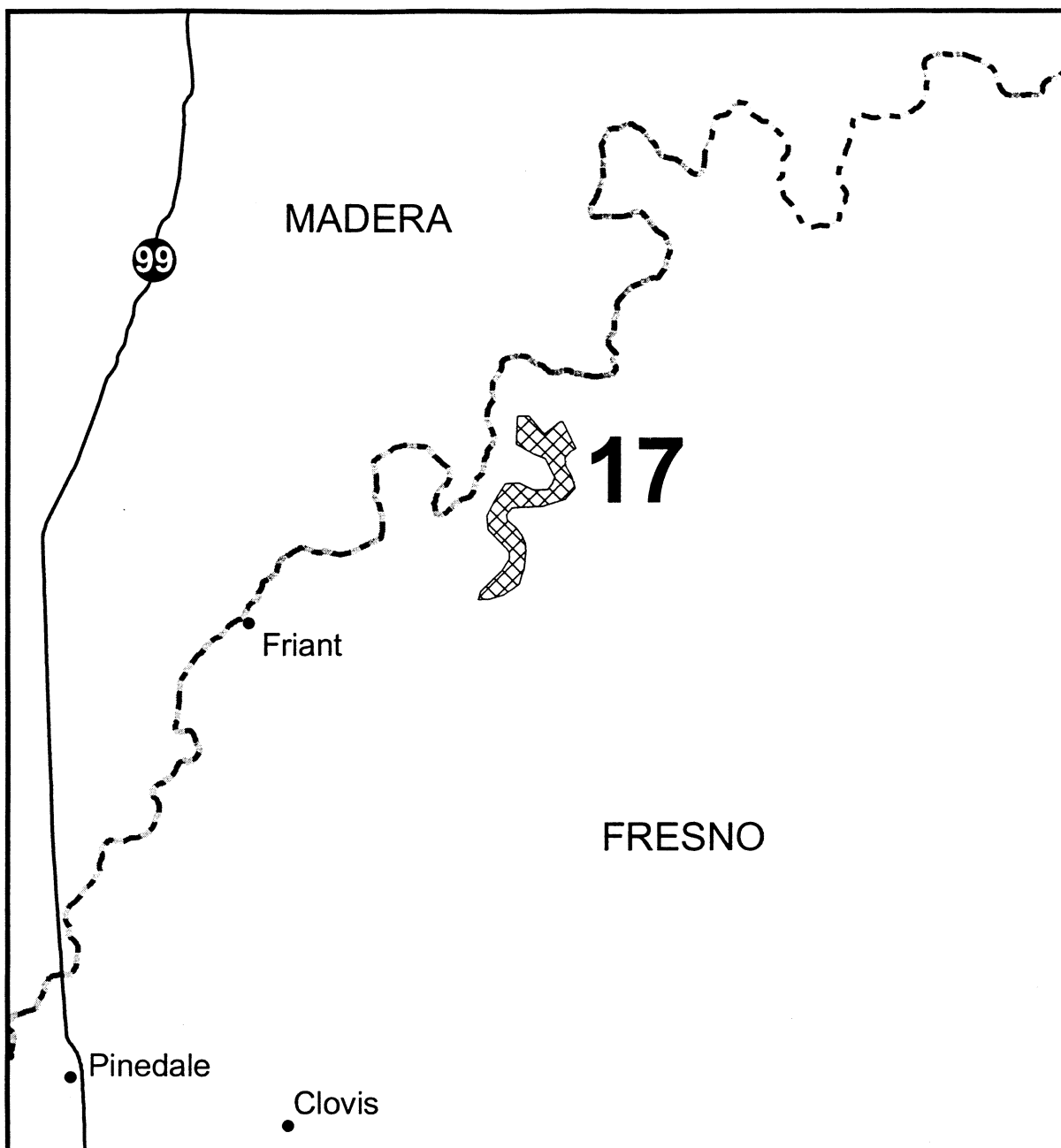


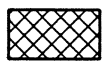




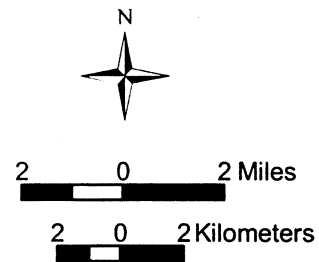


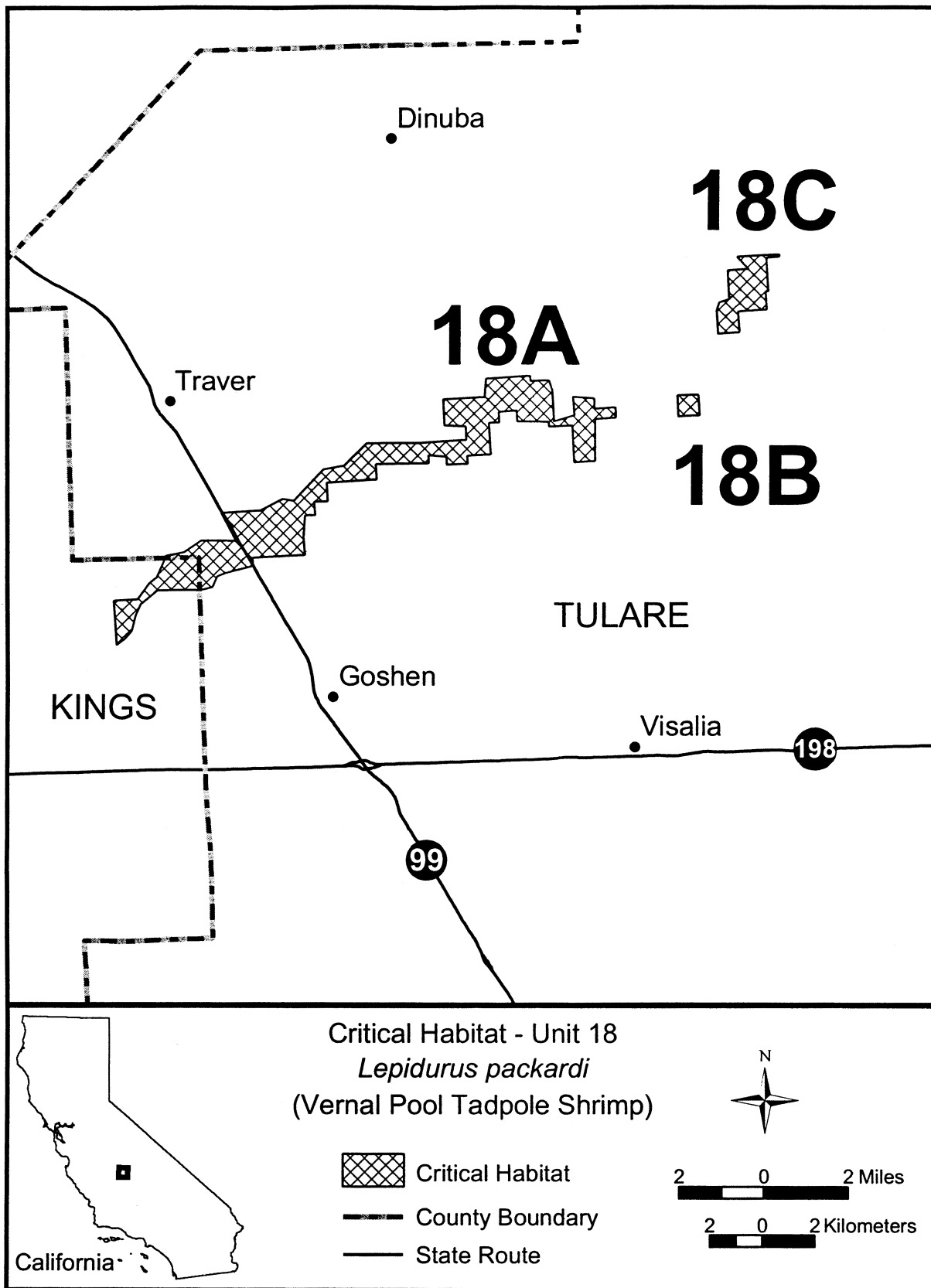




Critical Habitat - Unit 17
Lepidurus packardii
(Vernal Pool Tadpole Shrimp)

-  Critical Habitat
-  County Boundary
-  State Route





BILLING CODE 4310-55-C

■ 5. In § 17.96 add critical habitat for *Lasthenia conjugens* (Contra Costa

goldfields), *Chamaesyce hooveri* (Hoover's spurge), *Limnanthes floccosa* ssp. *californica* (Butte County

meadowfoam), *Neostapfia colusana* (Colusa grass), *Orcuttia inaequalis* (San Joaquin Valley Orcutt grass), *Orcuttia*

pilosa (hairy Orcutt grass), *Orcuttia tenuis* (slender Orcutt grass), *Orcuttia viscida* (Sacramento Orcutt grass), *Tuctoria greenei* (Greene's tuctoria), *Tuctoria mucronata* (Solano grass) and *Castilleja campestris* ssp. *succulenta* (fleshy owl's-clover) under paragraph (a) by adding entries for these species in alphabetical order by family under Asteraceae, Euphorbiaceae, Limnanthaceae, Poaceae, and Scrophulariaceae, (respectively) to read as follows:

§ 17.96 Critical habitat—plants.

(a) *Flowering plants.*

* * * * *

Family Asteraceae: *Lasthenia conjugens* (Contra Costa Goldfields).

(1) Critical habitat units are depicted for Mendocino, Napa, Contra Costa, Alameda, Santa Clara and Monterey Counties, California, on the map below.

(2) The primary constituent elements of critical habitat for *Lasthenia conjugens* are the habitat components that provide:

(i) Vernal pools, swales, moist flats, and other ephemeral wetlands and depressions of appropriate sizes and depths and the adjacent upland margins of these depressions that sustain *Lasthenia conjugens* germination, growth and reproduction, including, but not limited to, vernal pools on clay soils from a variety of soils series, rock outcrop pools on basalt flows, and vernal pools in saline alkaline transition zones with tidal marsh habitats. All of these habitats typically become inundated during winter rains, but are dry during the summer and do not necessarily fill with water every year; and

(ii) The associated watershed(s) and hydrologic features, including the pool basin, swales, and surrounding uplands (which may vary in extent depending on pool size and depth, soil type and depth, hardpan or claypan type and extent, topography, and climate) that contribute to the filling and drying of the vernal pool or ephemeral wetland, and that maintain suitable periods of pool inundation, water quality, and soil moisture for *Lasthenia conjugens* germination, growth and reproduction, and dispersal, but not necessarily every year.

(3) Critical habitat does not include existing manmade features and structures, such as buildings, roads, aqueducts, railroads, airport runways and buildings, other paved areas, lawns, and other urban landscaped areas not containing one or more of the primary constituent elements.

(4) Critical habitat does not include the following lands although they may fall within the legal descriptions below:

(i) Lands within the following California counties: Butte, Madera, Merced, Sacramento, and Solano;

(ii) Federally-owned lands within the boundaries of the Kern, Sacramento, San Francisco Bay, and San Luis National Wildlife Refuges and National Wildlife Refuge Complexes, and the Coleman National Fish Hatchery;

(iii) State-owned lands within the boundaries of the Allensworth, Boggs Lake, Butte Creek Canyon, Calhoun Cut, Carrizo Plains, Dales Lake, Fagan Marsh, Phoenix Field, San Joaquin River, Stone Corral, and Thomes Creek Ecological Reserves;

(iv) State-owned lands within the boundaries of the Battle Creek, Big Sandy, Grizzly Island, Hill Slough, North Grasslands, and Oroville Wildlife Areas.

(5) Unit 1: Mendocino County, California. From USGS 1:24,000 quadrangle map Point Arena, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 441000, 4310900; 440700, 4310900; 440500, 4311100; 440200, 4311100; 440000, 4311300; 439500, 4311000; 438900, 4311000; 438500, 4311400; 438500, 4311800; 438500, 4312500; 438500, 4312700; 438700, 4313000; 439000, 4313100; 439100, 4313500; 439300, 4313900; 439500, 4314000; 439800, 4313900; 440100, 4314000; 441000, 4314000; 441200, 4314200; 441300, 4314200; 441600, 4313700; 441700, 4313500; 442200, 4313400; 442500, 4313300; 442900, 4312800; 443200, 4312300; 443300, 4312000; 443300, 4311800; 442500, 4311800; 442400, 4312000; 442200, 4312000; 441300, 4311000; returning to 441000, 4310900.

(6) Unit 2: Napa County, California. From USGS 1:24,000 quadrangle maps Capell Valley, and Yountville, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 567300, 4248100; 567200, 4248300; 567000, 4249800; 566700, 4250000; 566400, 4250300; 566100, 4250400; 566000, 4250500; 565500, 4250500; 565100, 4250500; 565100, 4250800; 565400, 4251200; 566000, 4251800; 566600, 4251600; 566800, 4250900; 567300, 4250500; 568100, 4250500; 568300, 4250100; 568100, 4250000; 568400, 4249400; 568500, 4249300; 568300, 4249100; 567800, 4249000; 567500, 4248900; 567400, 4248600; returning to 567300, 4248100.

(7) Unit 3: Napa County, California. From USGS 1:24,000 quadrangle maps Cuttings Wharf, and Napa, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 564100,

4232800; 563800, 4233000; 563500, 4233200; 563500, 4233400; 563700, 4233500; 563800, 4233600; 563800, 4235100; 563800, 4235200; 563900, 4235300; 564200, 4235400; 564400, 4235300; 564500, 4235100; 564700, 4235000; 564700, 4234900; 564800, 4234700; 564700, 4234400; 564800, 4234200; 564700, 4234100; 564700, 4234000; 564800, 4233800; 565100, 4233600; 565100, 4233500; 565000, 4233300; 564800, 4233100; 564600, 4233200; returning to 564100, 423800.

(8) Unit 4: Solano County, California. [Reserved]

(9) Subunit 5A: Solano County, California. [Reserved]

(10) Subunit 5B: Solano County, California. [Reserved]

(11) Unit 6: Contra Costa County, California. From USGS 1:24,000 quadrangle maps Benicia, and Mare Island, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 568300, 4207000; 568200, 4207000; 568200, 4207100; 568100, 4207100; 568100, 4207000; 567900, 4207100; 567700, 4207200; 567600, 4207200; 567600, 4207100; 567500, 4207100; 567200, 4207100; 566600, 4207700; 566400, 4207500; 565900, 4207400; 565700, 4207700; 566400, 4208500; 566800, 4208500; 566800, 4208000; 566900, 4208000; 566900, 4207900; 566900, 4207800; 567100, 4207800; 567100, 4207900; 567000, 4208000; 567100, 4208100; 567200, 4208200; 567500, 4207800; 567900, 4207400; 568200, 4207200; 568500, 4207100; 568400, 4207100; returning to 568300, 4207000.

(12) Unit 7: Contra Costa County, California. From USGS 1:24,000 quadrangle maps Byron Hot Springs, and Clifton Court Forebay, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 620500, 4185200; 620200, 4185300; 620200, 4185500; 620000, 4185900; 620000, 4186100; 620500, 4186100; 620700, 4186200; 620700, 4186600; 620200, 4186800; 620100, 4186900; 620000, 4186800; 619900, 4186600; 619900, 4186400; 619800, 4186300; 619600, 4186400; 619500, 4186300; 619600, 4186100; 619600, 4185700; 619400, 4185700; 618200, 4186600; 618100, 4187100; 617700, 4187400; 617800, 4187900; 618400, 4187900; 618400, 4187500; 619000, 4186900; 619400, 4186700; 619500, 4186900; 619500, 4189200; 619300, 4189400; 619400, 4189600; 619000, 4189700; 618700, 4189400; 618500, 4189000; 617800, 4188900; 617700, 4188800; 617400, 4189000; 617400, 4189200; 618200, 4189500; 618100, 4189800; 618200, 4190100; 618700, 4190300; 618700, 4190700; 619000, 4191000; 619300,

4191100; 619600, 4191100; 619800, 4190700; 619900, 4190700; 620100, 4190900; 620400, 4190900; 620500, 4191200; 621800, 4191200; 622200, 4190700; 622300, 4190400; 621200, 4190400; 621100, 4190400; 621100, 4188700; 620900, 4188700; 620600, 4188400; 620400, 4188600; 620400, 4188100; 620500, 4187900; 620600, 4187800; 620700, 4187700; 620900, 4187700; 621100, 4187500; 620500, 4187100; 620500, 4186900; 621300, 4187281; 621700, 4187100; 621800, 4186900; 621600, 4186200; 621600, 4186000; 621800, 4185900; 621900, 4186100; 621800, 4186500; 621900, 4186600; 622100, 4186600; 622200, 4186400; 622300, 4186200; 622500, 4186000; 622500, 4185800; 622000, 4185300; 621200, 4185300; 621200, 4185700; 621300, 4186000; 621100, 4186100; 620500, 4185900; 620600, 4185400; returning to 620500, 4185200.

(13) Unit 8: Alameda County, California. From USGS 1:24,000 quadrangle maps Milipitas, and Niles, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 591200, 4148600; 590700,

4148600; 590700, 4148700; 590300, 4149200; 589400, 4150300; 589500, 4150200; 589900, 4150100; 590100, 4150400; 590900, 4150000; 591500, 4150800; 591600, 4150700; 591800, 4150700; 592000, 4150900; 592300, 4150600; 592300, 4150400; 592200, 4150000; 592100, 4149600; 592000, 4149500; 591600, 4149500; 591600, 4148800; returning to 591200, 4148600.

(14) Unit 9: Monterey County, California. From USGS 1:24,000 quadrangle maps Marina, Salinas, Seaside, and Spreckles, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 608100, 4048800; 607700, 4048800; 607200, 4048900; 606700, 4049100; 606500, 4049200; 606400, 4049300; 606300, 4049500; 606100, 4049800; 606000, 4049900; 605600, 4050300; 605500, 4050500; 605400, 4050800; 605400, 4051200; 605700, 4052100; 606000, 4052700; 606000, 4052800; 606900, 4053300; 607200, 4053200; 607900, 4053100; 608100, 4053100; 608400, 4053000; 609100, 4053000; 609300, 4053200; 609500, 4053500; 609600, 4053700; 609700, 4053900; 609700, 4054100;

609800, 4054300; 609900, 4054600; 609900, 4054900; 610200, 4055500; 610200, 4056300; 610400, 4056500; 610600, 4056600; 610700, 4056700; 610900, 4056800; 611100, 4056700; 611200, 4056700; 612200, 4056600; 612700, 4056600; 612900, 4056600; 613000, 4056600; 613100, 4056500; 613100, 4056400; 613200, 4056200; 613100, 4056000; 613100, 4055500; 613000, 4055200; 613000, 4055000; 612900, 4054900; 612600, 4054300; 612400, 4053900; 612000, 4053800; 611600, 4053600; 611300, 4053400; 610800, 4052900; 610400, 4051900; 610400, 4051300; 610700, 4050800; 610600, 4050600; 610200, 4050600; 609900, 4050500; 609800, 4050300; 609800, 4050000; 609900, 4049700; 609900, 4049400; 609800, 4049300; 608600, 4049000; 608400, 4049000; 608200, 4048900; returning to 608100, 4048800.

(15) Maps follow of critical habitat units 1, 2 through 5, 6, 7, 8, and 9 (respectively) for Contra Costa goldfields.

BILLING CODE 4310-55-P

