

A CHECK LIST OF THE LIMACIDÆ, ENDODONTIDÆ,
ARIONIDÆ, SUCCINEIDÆ, PUPILLIDÆ, VAL-
LONIIDÆ, CARYCHIIDÆ, AND TRUN-
CATELLIDÆ OF CALIFORNIA

(From Henry A. Pilsbry's Monograph)

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This is the third and last paper of a series forming a check list of the Helicoid snails of California based on Henry A. Pilsbry's monograph, "The Land Mollusca of North America (North of Mexico)," (1939) (1940) (1946) (1948). The mollusks listed here are considered in volume 2, part 2 (1948), the final part, of Pilsbry's monograph. In addition to the listing of the mollusks of Pilsbry's (1948) final part of his monograph a list of corrections and additions covering all parts of his monograph are included, with a list of Berry's (1940) species of *Monadenia*, referred to by Pilsbry (1948).

To those who have the two prior papers of the writer's check list (1946) (1948), and this one there is available, then, a general list that can be taken into the field to present data on mollusks of a proposed collecting area. Too, a skeletal list is available that can be used to keep the number of California land snails up to date as new species are added to our fauna. Locality data likewise can be added to this check list as further collecting in the state adds new localities for land snail species.

The families of land mollusks included herein contain the following number of species and subspecies: Limacidæ, eight species; Endodontidæ, eight species and subspecies; Arionidæ, fourteen species and subspecies; Succineidæ, five species; Pupillidæ, twenty species and subspecies; Valloniidæ, five species; Carychidæ, one species; Truncatellidæ, two species; and Helminthoglyptidæ, nine species and subspecies.

SPECIES LIST

FAMILY—LIMACIDÆ

Limax maximus Linnæus

Los Angeles County; Hollenbeck Park, Los Angeles.

San Bernardino County: One mile southwest of Lake Arrowhead, San Bernardino Mountains.

San Diego County: San Diego.
 San Francisco County: Golden Gate Park, San Francisco.
 No specific localities in Calaveras and Santa Clara counties.

Limax flavus Linnæus

Alameda County: Berkeley.
 Butte County: Chico.
 Los Angeles County: Los Angeles.
 San Bernardino County: Redlands.
 San Mateo County: Halfmoon Bay.
 Ventura County: Ojai.
 No specific localities in Orange, San Luis Obispo, and Santa Barbara counties.

Limax marginatus Müller

Los Angeles County: Santa Catalina Island.
 Orange County: Carbon Canyon, 2 or 3 miles east of Olinda.
 No specific locations in Alameda, Butte, Kern, Kings, Lake Madera, Modoc, Riverside, San Bernardino, Santa Barbara, San Diego, San Mateo, Sutter, Tehama, Tulare, and Ventura counties.

Deroceras reticulatum (Müller)

No specific localities in Alameda, Butte, Calaveras, Humboldt, Los Angeles, San Bernardino, San Francisco, San Mateo, Santa Clara, Tulare, and Ventura counties.

Deroceras laeve (Müller)

Nevada County: Truckee (= *Limax campestris* var. *occidentalis* of Cooper)
 San Diego: Julian (= *Limax hemphilli* of W. G. Binney)
 San Francisco County: San Francisco (= *Limax campestris* var. *occidentalis* of Cooper)
 Santa Cruz: Santa Cruz (= *Limax campestris* var. *occidentalis* of Cooper)

Deroceras monentolophus (Pilsbry)

Type: 180659 Academy of Natural Sciences, Philadelphia.
 Type locality: Carbon Canyon, Orange County.
 Orange County: Carbon Canyon.
 Mendocino County: One mile west of Hale's Grove on the Rockport (U. S. Highway 101) road.
 Los Angeles County: Northeast end of Brea Canyon near its junction with Puente Road; Cedar Creek, North fork of San Gabriel Canyon, San Gabriel Mountains.
 San Diego County: Near south end of Cuyamaca Lake.

Deroceras caruanæ (Pollonera)

Alameda County: Oakland; Berkeley.

San Francisco: Golden Gate Park, San Francisco.

No specific localities in Contra Costa and Monterey Counties.

Milax gagates (Draparnaud)

Los Angeles County: Middle Ranch Canyon and Cherry Cove, Catalina Island.

San Diego County: Julian City.

San Francisco County: San Francisco.

Santa Barbara County: West Anacapa Island.

No specific localities in Alameda, Kern, Lake, Los Angeles, Napa, Orange, Sacramento, San Bernardino, San Luis Obispo, San Mateo, Santa Clara, Santa Cruz, Stanislaus, Tehama, and Ventura Counties.

FAMILY—ENDODONTIDÆ

Discus cronkhitei (Newcomb)

Type: Type and paratypes numbered 26391 in the Newcomb Collection, Cornell University.

Type locality: Klamath Valley, Oregon.

Butte County: Feather River Canyon.

Fresno County: Fish Camp, and Tehipite Valley.

Lassen County: Duck Lake, 20 miles west of Susanville, and Eagle Lake.

Madera County: Flats Big Tree Creek.

Mariposa County: Yosemite National Park.

Modoc County: Goose Lake.

Siskiyou County: Bartles on McCloud River; Sacramento River.

Tulare County: Wawona Meadow Sequoia National Park; Panther Creek, Giant Forest; Woods Creek; Bubb's Creek Falls; Summit Meadow; Funston Meadow, Kern Butte and Big Arroyo Kern River; Little Kern Lake.

No specific localities except San Bernardino Mountains, San Bernardino (?) County.

Discus shimeki (Pilsbry)

Type: 12297 Academy of Natural Sciences, Philadelphia.

Type locality: Yarmouth and Peorian loesses: near Iowa City, Iowa.

Inyo County: Wacobah Spring, Inyo Mountains.

Tulare County: Tyndall Creek.

Discus (?) *selenitoides* (Pilsbry)

Type: 60010 Academy of Natural Sciences, Philadelphia.

Type locality: Mariposa Big Trees in Yosemite National Park near Wawona, Mariposa County.

Mariposa County: Mariposa Big Trees in Yosemite National Park near Wawona; same general vicinity but just outside of park boundaries at the junction of Alder Creek and the South Fork of the Merced River.

Heliodiscus salmonaceus W. G. Binney

Type: 12752 Museum of Comparative Zoology, Harvard University.

Type locality: "On the Salmon River." Idaho.

Alameda County: Oakland (this record is subject to doubt).

Punctum californicum Pilsbry

Type: 62290 Academy of Natural Sciences, Philadelphia.

Type locality: Fish Camp, Fresno County, California.

Alameda County: Hills east of Haywards.

Calaveras County: Around Murphy's; Mercers Cave; Calaveras Big Trees.

Inyo County: Onion Valley; Kearsarge Pass.

Los Angeles County: San Rafael Hills, canyon end of El Arbolito and North Fork South San Gabriel Canyon.

Mariposa County: Mariposa Big Trees.

San Bernardino County: Near Bluff Lake, San Bernardino Mountains.

San Diego County: San Diego.

San Francisco County: San Francisco.

Siskiyou County: Headwaters of Sacramento River.

Tulare County: Big Trees; Forks of the Tule River; Little Kern Lake.

Punctum conspectum (Bland)

Mariposa County: Between Camp Curry and Vernal Falls Yosemite Park.

No specific localities in Alameda, Calaveras, Los Angeles, Mariposa, Marin, Monterey, Napa, San Bernardino, San Diego, San Francisco, Santa Clara, and Siskiyou counties.

Punctum conspectum pasadenæ Pilsbry

Los Angeles County: Pasadena; North end of Griffith Park.

Oregon County: San Juan Capistrano Creek.

"*Zonites*" *diegoensis* (Hemphill)

San Diego County: Near Julian City, on Cuyamaca Mountain, 4,500 foot elevation.

FAMILY—ARIONIDÆ

Arion hortensis Ferussac

Alameda County: Oakland; Niles.

San Francisco County: San Francisco.

Arion circumscriptus Johnston

San Francisco County: Golden Gate Park, San Francisco.

Pilsbry's (1948) note: Widely spread in the San Francisco Bay Region.

Arion intermedius (Normand)

Alameda County: Berkeley.

Riverside County: Idyllwild.

Ventura County: Santa Paula Canyon.

Pilsbry's (1948) note: Common in San Francisco Bay Region (p. 676).

Prophysaon andersoni (J. G. Cooper)

Type: A Neotype 69010 Academy of Natural Sciences, Philadelphia.

Type locality: Oakland selected.

Alameda County: Oakland.

Pilsbry's (1948) note: Counties west of Coast Range, Santa Cruz to Humboldt (at Crescent City); near South and east sides of San Francisco Bay to Santa Cruz (p. 684).

Prophysaon fasciatum Cockerell

Mendocino County: No specific locality.

Anademulus cockerelli (Hemphill)

Type: In California Academy of Sciences; paratypes 63895 Academy of Natural Sciences, Philadelphia.

Type locality: Julian, in the Cuyamaca Mountains, San Diego County.

Kern County: Near North Fork of Cottonwood Creek by ranch road 6 miles from junction with Breckenridge Mountain Road.

Los Angeles County: Upper Millard Canyon; San Gabriel Mountains; Calbaden Canyon, Puente Hills.

Orange County: Carbon Canyon, Puente Hills, Limestone Creek above Santiago Reservoir.

San Diego County: Julian in the Cuyamaca Mountains.

Ariolimax californicus Cooper

San Mateo County: Half Moon Bay; La Habra, Lake Andreas; Pescadero; San Francisquito Creek; Woodside.

Ariolimax californicus brachyphallus Mead

Type: Holotype and Paratype in collections of California Academy of Sciences, San Francisco.

Type locality: Mt. Davidson, San Francisco, San Francisco County, California.

San Francisco County: Mt. Davidson; Mt. Sutro, San Francisco.

Ariolimax dolichophallus Mead

Type: Holotype and Paratype in collections of California Academy of Sciences, San Francisco.

Type locality: Saratoga, Santa Clara County.

Santa Clara County: Saratoga, Congress Springs; Los Gatos; Santa Cruz County: Big Basin; Big Trees; Boulder Creek; Chemeketa; Mt. Hermon, Brookdale; Hecker Pass; Santa Cruz.

Ariolimax columbianus (Gould)

Concerning the distribution of this species Pilsbry (1948, p. 719) states, ". . . in California south to Salinas Valley on the coast and at least as far south on the western slopes of the Sierra Nevada as Tuolumne County."

Ariolimax columbianus stramineus Hemphill

Type: Syntypes numbered 2317-2320 in California Academy of Sciences, San Francisco.

Type locality: Santa Cruz Island, Santa Barbara County.

Monterey County: Big Creek; Big Sur State Park; Hasting Reservation; Salinas Valley; Vincente Creek; 20 miles north of San Simeon.

San Luis Obispo County: Little Pico Creek.

Santa Barbara County: Cuyama Valley Road; El Montecito; Santa Cruz Island; Pelican Canyon and Rockslide Canyon; Santa Rosa Island in Water Canyon.

Ventura County: Santa Paula.

Hesperarion niger (J. G. Cooper)

Type locality: Pilsbry (1948) states, "Cooper's type was from the neighborhood of San Francisco Bay."

Alameda County: Mountains of Alameda County.

Kern County: No specific locality except northern Kern County.

Marin County: Bolinas.

Santa Clara County: Santa Clara; near San Jose.

Santa Cruz County: Santa Cruz range; 900 feet altitude.

Sonoma County: Santa Rosa; Healdsburg.

Pilsbry (1948), p. 724) concerning the distribution of this species, states "... covers the Coast and Bay counties from Sonoma to Santa Cruz. Tehama to Monterey counties.

Hesperarion hemphilli (W. G. Binney)

Type locality: Alameda County at Niles Station.

Alameda County: Niles Station; Haywards.

Los Angeles County: Elysian Park, Los Angeles; Arroyo Seco Canyon; upper Millard Canyon and Santa Anita Canyon, San Gabriel Mountains.

Orange County: Santa Ana Canyon; Black Star Canyon; Silverado Canyon; Trabuco Canyon, all in Santa Ana Mountains.

Binneya notabilis J. G. Cooper

Type locality: Santa Barbara Island.

Los Angeles County: Santa Barbara Island.

FAMILY—SUCCINEIDÆ

Oxyloma nuttalliana chasmodes Pilsbry

Type: Holotype numbered 5609 Academy of Natural Sciences, Philadelphia.

Type locality: Stockton, San Joaquin County.

San Joaquin County: Stockton.

Succinea rusticiana Gould

Type locality: Merely, "Oregon, U. S. Exploring Expedition."
Tulare County: Tulare Valley.

Succinea stretchiana Bland

Fresno County: Grouse Meadow; Tehipite Valley; Pavilion Dome; Palisade Creek; Fish Camp.

Inyo County: Wacobah Spring.

Kern County: Funston Meadow.

Lassen County: Duck Lake, 20 miles west of Susanville.

Madera County: Pumice Flats; Red Meadow; Jackass Dyke.

Mariposa County: Yosemite Valley; near Wawona, Sequoia Park.

Modoc County: Goose Lake.

San Bernardino County: Bluff Lake, San Bernardino Mountains.

Siskiyou County: Bartles, McCloud River.

Succinea gabbi Tryon

Type: Holotype and Paratypes 12487 Academy of Natural Sciences, Philadelphia.

Type locality: Crooked Creek of Owyhee 60 miles west of boundary Southeast Oregon.

Inyo County: Mazuka Canyon, Tank Spring.

Pilsbry (1948) in addition lists, "Crane Lake Valley N. Calif. (Gabb)."

Quickella rehderi Pilsbry

Type: Holotype and Paratypes 147757 Academy of Natural Sciences, Philadelphia.

Type locality: Davenport, Lincoln County, Washington.

In reference to the distribution of this species in California Pilsbry (1948, p. 847) states, "In the Pacific states there is however, a long series of succineas which resemble *rehderi* more or less, or are of stouter figure, and have generally gone under the name of "*S. oregonensis*." Shells of this kind occur from Montana and Washington to southern California." No specific localities are cited in Pilsbry (1948) distribution section for this species.

FAMILY—PUPILLIDÆ

Gastrocopta pellucida hordeacella (Pilsbry)

Type: Types and Paratypes 60460 Academy of Natural Sciences, Philadelphia.

Type locality: New Braunfels, Texas.

Riverside County: Palm Canyon in San Gabriel Mts., Mojave Mt.

Vertigo ovata mariposa Pilsbry

Type: 11644 Academy of Natural Sciences, Philadelphia.

Type locality: Meadow near Wawona, Sequoia Park, Mariposa County.

Mariposa County: Meadow near Wawona, Sequoia Park.

Vertigo berryi Pilsbry

Type: 105166 Academy of Natural Sciences, Philadelphia.

Type locality: Mill Creek Canyon at 4600 feet in the San Bernardino Mountains.

Vertigo andrusiana sanbernardinensis Pilsbry

Type: 118419 Academy of Natural Sciences, Philadelphia.

Type locality: San Bernardino Mountains, 7550 to 7750 feet in the cienaga below Bluff Lake.

San Bernardino County: 7550 to 7750 feet in the cienaga below Bluff Lake; Bluff Lake meadow; area north of lake.

Vertigo sterkii Pilsbry

Type: Pilsbry (1940) states that the type and type locality is somewhere near or west of the western end of Lake Superior.

Under this species Pilsbry (1940) states, "The typical *modesta* is replaced in the Rocky Mountain system and California by various weakly differentiated races." Under *V. modesta corpulenta* (Morse) Pilsbry (1940) assigns a definite locality to *V. modesta* as from "Simpson's Meadow King's River."

Vertigo modesta corpulenta (Morse)

Type locality: Little Valley, Washoe County, Nevada, on the east slope of the Sierra Nevada, 6,500 feet above the sea.

Pilsbry (1940) under this subspecies refers to two "forms," *V. modesta parietalis* (Ancy) and *V. modesta microphasma* Berry. The latter form has a type locality, near Bluff Lake in the San Bernardino Mountains at 7200 to 7550 feet; a type is housed as no. 2740 in the S. S. Berry collection, Redlands, California and a paratype as 44788 in The Academy of Natural Sciences, Philadelphia. Pilsbry's (1948) reference to the former "form's" occurrence in California is partially by general reference, "In the Sierra Nevada counties of California *V. modesta* and *parietalis* appear to be rather abundant"; and more specifically he lists, ". . . valleys of the San Joaquin and King's River, Bear and Fish Creeks, Fresno County." Other lots are listed as from Pumice Flats, Bear Creek, and Grouse Meadow (Fresno County?). The type locality for *parietalis* is Ogden Canyon, Utah; the type is housed at the University of Michigan, Ann Arbor, Michigan.

Vertigo modesta castanea Pilsbry and Vanatta

Type: 11655 Academy of Natural Sciences, Philadelphia.

Type locality: Fish Camp, Fresno County.

Fresno County: Fish Camp.

Inyo County: Wawona Meadow; Onion Valley; Kearsarge Pass.

Lake County: No specific locality.

San Bernardino County: Holcomb meadows, east of Sugar Loaf Peak at 8300 feet in San Bernardino Mountains.

Tulare County: Ranger, Panther Creek, Wood's Creek, Fullerton Meadow on Kern River, Babb Creek Falls, Rae Lake.

Vertigo occidentalis Sterki

Type: 1860 in S. S. Berry collection, Redlands, California.

Type locality: San Bernardino Mountains at Bluff Lake, 7500 feet, San Bernardino County.

San Bernardino County: San Bernardino Mountains at Bluff Lake at 7500 feet; Bluff Lake cienega in the cienega just north and along the "New England Trail," 7500 feet; cienega west of Green Valley at 6900 feet.

Vertigo allyniana Berry

Type: 3764 in S. S. Berry collection, Redlands, California

Type locality: Donner Lake, Nevada County, California.

Nevada County: Donner Lake.

Vertigo dalliana Sterki

Type: 62.20383 Carnegie Museum, Pittsburg, Pennsylvania.

Type locality: Near Clear Lake, Lake County.

Lake County: Near Clear Lake.

Vertigo californica (Rowell)

Type: A paratype is numbered 59392 at Academy of Natural Sciences, Philadelphia.

Type locality: San Francisco, San Francisco County.

San Francisco County: San Francisco.

Vertigo californica trinotata (Sterki)

Type locality: Monterey, Monterey County.

Monterey County: Monterey.

Vertigo californica diegoensis (Sterki)

Type locality: False Bay near Asher Station, San Diego County.

San Diego County: False Bay near Asher Station.

Vertigo californica cyclops (Sterki)

Placer County: Rocklin (25 miles northeast of Sacramento).

Vertigo californica longa (Pilsbry)

Type locality: San Clemente Island, Los Angeles County.

Los Angeles County: San Clemente Island; Santa Barbara Island.

Vertigo californica catalinaria (Sterki)

Type locality: Santa Catalina Island, Los Angeles County.

Los Angeles County: Santa Catalina Island; San Clemente Island; Santa Barbara Island.

Vertigo californica cupressicola Sterki

Type: 118835 Academy of Natural Sciences, Philadelphia.

Type locality: Cypress Point, Monterey County.

Monterey County: Cypress Point.

Vertigo rowelli (Newcomb)

Type locality: Near Oakland.

Alameda County: Near Oakland.

El Dorado County: No specific locality.

Monterey County: No specific locality.

San Bernardino County: Cienega north of Bluff Lake, San Bernardino Mountains.

Sterkia hemphilli (Sterki)

Type: 62.20384 Carnegie Museum, Pittsburg, Pennsylvania.

Type locality: Bank of San Tomas River, Lower California.

San Bernardino County: Waterman Canyon.

San Diego County: Around San Diego; False Bay, Asher Station in drift; Mesa near Grantville under prickly pear stems; Pacific Beach.

Sterkia clementina (Sterki)

Type: 62.20392 Carnegie Museum, Pittsburg, Pennsylvania.

Type locality: San Clemente Island, Los Angeles County.

Los Angeles County: San Clemente Island; Santa Barbara Island.

FAMILY—VALLONIIDÆ

Vallonia pulchella (Müller)

Type locality: (Europe) Denmark.
 Calaveras County: Murphey's.
 Orange County: San Juan Capistrano Creek.
 Santa Clara County: San Jose.
 Shasta County: Redding.

Vallonia excentrica Sterki

Type: 10080 Academy of Natural Sciences, Philadelphia.
Type locality: Staten Island, New York.
 Pilsbry (1948) does not list this species in his distributional list of states as being from California, but says in the text under this species, "It [*V. excentrica* Sterki] occurred among *pulchella* [*Vallonia pulchella*] from Los Angeles, Calif., collected by Dr. Stearns . . ."

Vallonia gracilicosta Reinhardt

Pilsbry (1948) does not include California in the locality list under this species, but he does list a "form," *Vallonia gracilicosta* form *montana* Sterki under the species in the s.s., and under the form he lists, "California: Mariposa Big Trees (H. B. Baker)."

Vallonia aibula Sterki

Type: 62.19236 Carnegie Museum, Pittsburg, Pennsylvania.
Type locality: St. Joseph, Quebec.
 Tulare County: Funston Meadow.

Vallonia cyclophorella Sterki

Inyo County: Inyon Mountain.
 Lassen County: Near Susansville.
 Mariposa County: Mariposa Big Trees.
 San Bernardino County: Mill Creek Canyon, San Bernardino Mountains.
 Tulare County: No specific locality.

FAMILY—CARYCHIIDÆ

Carychium occidentale Pilsbry

Type: 22539 Academy of Natural Sciences, Philadelphia.
Type locality: Portland, Oregon.
 Del Norte County: Ragged Canyon, 5 miles south of Crescent City.

FAMILY—TRUNCATELLIDÆ

Truncatella stimpsoni Stearns

Type: In United States National Museum, Washington. D. C.

Type locality: False Bay near San Diego.

Los Angeles County: Santa Catalina Island, The Isthmus.

San Diego County: False Bay near San Diego; La Jolla.

Truncatella californica Pfeiffer

Type locality: San Diego.

Los Angeles County: Santa Catalina Island, The Isthmus.

San Diego County: San Diego.

ADDITIONS AND CORRECTIONS

- 1.—In Ingram (1946, p. 62), *Theba pisana* (Müller) should be changed to *Helicella pisana* (Müller); see Pilsbry (1948, p. 1091).
- 2.—In Ingram (1946, p. 62, Family Helminthoglyptidæ) the following species and subspecies should be added; see Pilsbry (1948, pp. 1092-1093). Pilsbry's (1948) statement should be kept in mind, "The following species [of *Monadenia*] and subspecies were described by Berry in Journ. of Entom. and Zool., March, 1940. As the figures are in outline they do not show features of pattern and sculpture, which are among the chief differential characters."

Monadenia marmarotis Berry

Type: 8615 in S. S. Berry collection, Redlands, California.

Type locality: Altitude at about 5900 feet, one quarter to one half mile south of Marble Valley Ranger Station, Marble Valley, Siskiyou County, among marble and limestone rocks.

Siskiyou County: At about 5900 feet, one quarter to one half mile south of Marble Valley Ranger Station, Marble Valley; at about 6600 feet, Marble Mountain, above Marble Valley; Kelsey Creek Trail, one mile below Marble Valley Ranger Station; (?) Canyon Creek Trail, 6½ miles above Scott River.

Monadenia rotifer Berry

Type: 7794 in S. S. Berry collection, Redlands, California.

Type locality: Altitude at about 6000 feet on trail one half mile west of Whiskey Camp, Salmon Mountains, Siskiyou County.

Siskiyou County: Altitude at about 6000 feet on trail one half mile west of Whiskey Camp, Salmon Mountains.

Monadenia callipeplus Berry

Type: 7693 in S. S. Berry collection, Redlands, California.

Type locality: Altitude 2300 feet, Tompkins Creek, one mile above mouth.

Monadenia cristulata Berry

Type: 8614 in S. S. Berry collection, Redlands, California.

Type locality: Altitude at about 5800 feet above Pleasant Valley Lakes, Siskiyou County.

Siskiyou County: Altitude at about 5800 feet above Pleasant Valley Lakes.

Monadenia chaccana Berry

Type: 8678 in S. S. Berry collection, Redlands, California.

Type locality: Among rocks about halfway up a spur of Badger Mountain on west side of Shasta River Canyon not far above its mouth, Siskiyou County.

Siskiyou County: Among rocks about halfway up a spur of Badger Mountain on west side of Shasta River Canyon not far above its mouth. Pilsbry (1948) states, "Among woods," which should really read following Berry (1948), "Among rocks"; Lava rockslide $\frac{1}{4}$ mile below Copco Inversion Dam, Shasta River Canyon.

Monadenia fidelis scottiana Berry

Type: 8616 in S. S. Berry collection, Redlands, California.

Type locality: Kelsey Creek, 1 to 2 miles above mouth, Siskiyou County.

Siskiyou County: Kelsey Creek, 1 to 2 miles above mouth; middle fork of Kelsey Creek, on trail $5\frac{1}{2}$ miles above Scott River; Canyon Creek, from near mouth to one mile above; Middle Creek $\frac{1}{2}$ mile above mouth.

Monadenia fidelis callidina Berry

Type: 7087 in S. S. Berry collection, Redlands, California.

Type locality: "Dad's Camp," south side of Klamath River across from Requa, Del Norte County.

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Del Norte County: "Dad's Camp," south side of Klamath River across from Requa; Chaffey Ranch, 7 miles above mouth of Klamath River; Terwah (Turwar?).

Humboldt County: Perch Creek.

Siskiyou County: Butler Creek, $\frac{1}{4}$ mile above mouth.

Monadenia fidelis smithiana Berry

Type: 6960 in S. S. Berry collection, Redlands, California.

Type locality: North side of Smith River, 3 miles below Hiouchi Bridge, Del Norte County.

Del Norte County: North side of Smith River, 3 miles below Hiouchi Bridge; bank of Smith River near Hiouchi Bridge.

Monadenia infumata alamedensis Berry

Type: 5672, California Academy of Sciences, San Francisco, California.

Type locality: Haywards, Alameda County, California.

Alameda County: Haywards.

- 3.—In Ingram (1946, p. 67) under *Helminthoglypta californiensis* (Lea) add these additional localities, see Pilsbry (1948, p. 1093): "Found at several localities north of Monterey in the sand dunes, the farthest north being at points south of Point Lobos, the southernmost being just south of the mouth of the Little Sur River, about 15 miles south of Point Lobos. Our best collecting, both as to number of specimens and size of shells, was in the sand dunes about 3 miles north of Monterey..."
- 4.—In Ingram (1946, p. 73) under *Helminthoglypta sequoicola* (Cooper) delete south side of San Juan Grade, Monterey County, a locality which should be placed under *Helminthoglypta dupetithouarsi consors* Berry, see Pilsbry (1939, p. 140; 1948, p. 1093).
- 5.—In Ingram (1946, p. 83) for *Micrarionata tryoni carinata* Pilsbry read *Micrarionata tryoni hemphilli* (Hannibal), see Pilsbry (1948, p. 1093).

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