

PROCEEDINGS
OF THE
CALIFORNIA ACADEMY OF SCIENCES
FOURTH SERIES

VOL. XI, No. 3. pp. 39-47

JULY 8, 1921

III

**LIST OF THE AMPHIBIANS AND REPTILES OF IDAHO,
WITH NOTES ON THE SPECIES IN THE
COLLECTION OF THE ACADEMY**

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We do not know of any published list of the amphibians and reptiles of Idaho. The little that is known regarding the occurrence and distribution of various species of these classes within this state is scattered rather widely through a number of publications and is not readily available to the student. In recording the Idaho material which is now in the museum of the California Academy of Sciences, we, therefore, present also a list similar to those already published for the states of Arizona, Utah and Nevada. This list is thought to include all species now definitely known to live in Idaho. Those which are not yet represented in the Academy's collections by specimens collected in Idaho are indicated by a star preceding the number in the list. Following this list are given notes on the species in the Academy's collections. Most of our Idaho specimens were secured by Mr. Richard P. Erwin and Mr. Joseph R. Slevin.

July 8, 1921

1. *Ambystoma macrodactylum*
2. *Ambystoma tigrinum*
3. *Scaphiopus hammondi*
4. *Bufo boreas boreas*
- *5. *Pseudacris triseriata*.
6. *Hyla regilla*
7. *Rana catesbeiana*
8. *Rana pipiens*
9. *Rana pretiosa*
- *10. *Crotaphytus collaris baileyi*
11. *Crotaphytus wislizenii*
- *12. *Uta stansburiana stansburiana*
13. *Sceloporus graciosus graciosus*
14. *Sceloporus occidentalis biseriatus*
15. *Phrynosoma douglassii*
16. *Phrynosoma platyrhinos*
17. *Cnemidophorus tessellatus tessellatus*
18. *Plestiodon skiltonianus*
- *19. *Charina bottae utahensis*
20. *Coluber constrictor mormon*
21. *Coluber taeniatus taeniatus*
22. *Pituophis catenifer stejnegeri* ?
- *23. *Rhinocheilus lecontei*
- *24. *Thamnophis sirtalis parietalis*
25. *Thamnophis sirtalis concinnus*
26. *Thamnophis ordinoides vagrans*
- *27. *Crotalus confluentus*
- *28. *Crotalus oreganus*

1. *Ambystoma macrodactylum* Baird

Cope's *A. epixanthum* was described from specimens collected near the head of South Boise River, on the south side of the Sawtooth Mountain range, Idaho. Sixty-four salamanders from Boise County seem to us to be indistinguishable from numerous specimens of *A. macrodactylum* collected in Washington, Oregon and California. Cope, himself, recorded salamanders from Montana under the latter name. Of our specimens, twenty-one were secured at Payette Lake, Boise County,

*Species which the Academy has not yet received from Idaho.

(Nos. 41580 and 41581) on September 5, 1916, and (Nos. 43539 to 43557) between August 11 and 21, 1917. Forty-three (Nos. 45821-45863) were found at McCall, Boise County, August 6 to 14, 1918.

2. *Ambystoma tigrinum* (Green)

Cope (Bull. U. S. Nat. Mus., No. 34, 1889, p. 83) has recorded this salamander from Market Lake, Jefferson County. The species is represented in our collections by six larvæ collected by Mr. Brighton C. Cain in Bear Lake County. No. 47745 is from Bear Lake. The other five (Nos. 47746-47750) were caught in Deep Lakes, Bloomington Canyon.

3. *Scaphiopus hammondi* Baird

Fourteen specimens from Boise, Ada County, are at hand. Of these, six (Nos. 43533-43538) were collected July 9, 1917, one (No. 45739) May 6, 1918, and seven (Nos. 45740-45746) July 19, 1917.

4. *Bufo boreas boreas* (Baird & Girard)

Thirty-two toads from Idaho are in our collections. Fifteen of these (Nos. 41521-41535, and 45747-45756) are from Boise, Ada County. Five (Nos. 41571-41575) were collected at Payette Lake, Boise County, September 3-11, 1916, and one (No. 45820) at McCall, Boise County, August 8, 1918. One (No. 47744) was caught at Deep Lakes, Bloomington Canyon, Bear Lake County, July 29, 1920.

6. *Hyla regilla* Baird & Girard

Two tree-toads (Nos. 41540-41541) were taken at Payette Lake, Boise County, Sept. 2-4, 1916. Two hundred and seventeen (Nos. 41536-41539, 43532, 45527-45738) were collected at Boise, Ada County, in August, 1916, July 9, 1917, and May 6 to August 26, 1918.

7. *Rana catesbeiana* Shaw

Mr. Slevin was told that this frog had been introduced into Idaho some years before his visit and was spreading rapidly.

Eighty-three specimens were collected near Boise, Ada County, (Nos. 41453-41510) on August 23 and 24, 1916, and (Nos. 45451 to 45475) between May 23 and September 2, 1918.

8. *Rana pipiens* Schreber

One hundred and seventy-four specimens of this frog are included in our Idaho collections. Forty-six of these (Nos. 41307-41352) were taken at Fort Hall, Bingham County, August 12 to 16, 1916. One (No. 47742) was caught by Mr. Brighton C. Cain at Bear Lake, Bear Lake County, July 22, 1920, and another (No. 47743) at Deep Lakes, Bloomington Canyon, Bear Lake County, July 29, 1920. All the other specimens were collected near Boise, Ada County, (Nos. 41388-41452 and 41511-41520) in August and September, 1916, and (Nos. 45476-45526) from July 18 to September 2, 1918.

9. *Rana pretiosa* Baird & Girard

One hundred and twenty-five frogs of this species were secured in Idaho, as follows:

Twenty-eight (Nos. 41542-41570) at Payette Lake, Boise County, September 5 to 9, 1916.

Fifty-six (Nos. 41584-41639) at Guyer Hot Springs, Blaine County, September 18 and 19, 1916.

Forty-one (Nos. 45779-45819) at McCall, Boise County, August 6 to 11, 1918.

11. *Crotaphytus wislizenii* Baird & Girard

Two (Nos. 41275-41276) were taken at Fort Hall, Bingham County, August 11, 1916. Seventeen were collected near Boise, Ada County, as follows: three (Nos. 45421-45423) from May 22 to August 16, 1914; six (Nos. 41366-41371) from August 25 to 29, 1916; three (Nos. 45418-45420) August 21 to 26, 1916; four (Nos. 45424-45427) June 24, 1917; and one (No. 45417) July 15, 1918.

The femoral pores in nineteen specimens vary from sixteen to twenty; being 16 once, 17 six times, 18 eleven times, 19 thirteen times, and 20 seven times. The average of the thirty-eight thighs is 18.5.

13. *Sceloporus graciosus graciosus* (Baird & Girard)

The collections contain fifty-four specimens from Idaho. Of these, two (Nos. 20947, 20948) were collected at Pocatello, Bannock County; one (No. 20949) is from Idaho Falls, Bonneville County; thirty-eight (Nos. 41110-41119 and 41277-41304) were secured at Fort Hall, Bingham County, August 11-16, 1916; and thirteen (Nos. 41385, 45435-45446) were found at Boise, Ada County, in August and September.

The femoral pores in fifty-four specimens vary from eleven to seventeen; being 11 twice, 12 nine times, 13 twenty-five times, 14 thirty-two times, 15 twenty-two times, 16 sixteen times, and 17 twice. The average of the one hundred and eight thighs is 14.1.

14. *Sceloporus occidentalis biseriatus* (Hallowell)

All our Idaho specimens were secured near Boise, Ada County. Here two (Nos. 45449, 45450) were taken September 9, 1914, thirteen (Nos. 41372-41384) August 25-28, 1916, and two (Nos. 45447, 45448) August 16, 1918.

The femoral pores in seventeen specimens vary from thirteen to seventeen; being 13 six times, 14 six times, 15 fourteen times, 16 four times, and 17 four times. The average of the thirty-four thighs is 14.8.

15. *Phrynosoma douglassii* (Bell)

Our three Idaho specimens of this horned-toad were taken one (No. 41305) at Fort Hall, Bingham County, August 11, 1916, and two (Nos. 45433, 45434) at Boise, Ada County, in July and August, 1916.

16. *Phrynosoma platyrhinos* Girard

One specimen (No. 20932) from Bliss, Gooding County, is in the collection. Its femoral pores are 11-11.

17. *Cnemidophorus tessellatus tessellatus* (Say)

Only six Idaho specimens are at hand. These are one (No. 20944) from Upper Salmon Falls, Twin Falls County, and five from Boise, Ada County, where they were taken (No.

41386) on August 26, 1916, and (Nos. 45429-45432) between May 30 and September 30, 1918.

The femoral pores in six specimens vary from eighteen to twenty-two; being 18 four times, 19 three times, 20 twice, 21 once, and 22 twice. The average of the twelve thighs is 19.5.

18. *Plestiodon skiltonianus* Baird & Girard

The two specimens of this skink probably furnish the first record of this species in Idaho. They were taken (No. 41306) at Fort Hall, Bingham County, August 12, 1916, and (No. 41387) at Boise, Ada County, August 29, 1916.

19. *Charina bottæ utahensis* Van Denburgh

Two specimens from Blue Lake and Hood's Valley, Kootenai County, in the collection of Stanford University have been recorded in these Proceedings (Series 4, Vol. X, No. 3, 1920, p. 32).

20. *Coluber constrictor mormon* (Baird & Girard)

The collections include nineteen of these racers from Boise, Ada County. Nine specimens (Nos. 41353-41361) were collected August 26 and 27, 1916; one (No. 45410) May 30, and one (No. 43530) June 21, 1917. Eight specimens (Nos. 45402-45409) were taken June 3 to Sept. 2, 1918.

Number	Sex	Scale Rows	Gastro-steges	Uro-steges	Anal	Supra-labials	Infra-labials	Pre-oculars	Post-oculars	Loreal	Temporals
41353	♀	17	177	86c	÷	8-8	8-8	2-2	2-2	1-1	2+2-2+2
41354	♀	17	179	68+	÷	7-7	8-8	2-2	2-2	1-1	2+1-2+1
41355	♀	17	177	85c	÷	7-7	8-8	2-2	2-2	1-1	2+2-1+2
41356	♂	17	175	95c	÷	7-7	8-8	2-2	2-2	1-1	2+2-2+2
41357	♂	17	178	81c	÷	7-8	8-8	2-2	2-2	1-1	2+3-2+2
41358	♀	17	179	88+	÷	7-7	9-9	2-2	2-2	1-1	2+2-2+2
41359	♀	17	179	87c	÷	7-7	8-8	2-2	2-2	1-1	2+2-2+2
41360	♂	17	174	86+	÷	7-7	8-8	2-2	2-2	1-1	2+2-2+2
41361	♂	17	176	86c	÷	8-8	7-7	2-2	2-2	1-1	2+2-2+2
43530	♀	17	181	90c	÷	7-7	8-8	2-2	2-2	1-1	2+2-2+2
45402	♂	17	173	93c	÷	7-7	8-8	2-2	2-2	1-1	2+2-2+2
45403	♀	17	181	72+	÷	7-7	8-8	2-2	2-2	1-1	1+2-2+2
45404	♀	17	193	97c	÷	7-8	8-8	2-2	2-2	1-1	2+2-2+2
45405	♂	17	172	92c	÷	7-8	8-8	2-2	2-3	1-1	2+2-2+2
45406	♂	17	170	97c	÷	8-7	8-9	2-2	2-2	1-1	2+2-2+2
45407	♀	17	180	88c	÷	7-7	8-8	2-2	2-2	1-1	2+2-2+2
45408	♀	17	176	84c	÷	7-8	8-9	2-2	2-2	1-1	2+2-2+2
45409	♀	17	179	87c	÷	7-7	8-8	2-2	2-2	1-1	2+2-2+2
45410	♂	17	168	98c	÷	7-8	8-8	2-2	2-2	1-1	2+2-2+2

21. *Coluber tæniatus tæniatus* (Hallowell)

Two specimens from Boise, Ada County, August 29, 1916, have scale counts as follows:

Number	Sex	Scale Rows	Gastro-steges	Uro-steges	Anal	Supra-labials	Infra-labials	Pre-oculars	Post-oculars	Loreal	Temporals
41362	♀	15	202	126c	÷	8—8	9—9	2—2	2—2	1—1	2+2—2+2
41363	♀	15	206	114c	÷	8—8	9—9	2—2	2—2	1—1	2+2—2+2

22. *Pituophis catenifer stejnegeri* Van Denburgh?

Two gopher-snakes (Nos. 45129, 45130) taken at Boise, Ada County, June 25 and 29, 1918, have already been recorded. (Proc. Cal. Acad. Sci., Ser. 4, Vol. X, 1920, p. 23).

23. *Rhinocheilus lecontei* Baird & Girard

So far as we know this snake has never been recorded as occurring in Idaho. We have secured no specimens there. The species is added to the list because of a specimen in the Julius Hurter collection, now in the National Museum. This specimen was sent to us, for examination, by Mr. Hurter, who stated that it had been caught in Elmore County, Idaho, October 15, 1910. It is a female with scales in 25 rows; gastrosteges 201; urosteges 43, the second to the twenty-fourth not divided; anal single; supralabials 8-8, the seventh largest, the fourth and fifth reaching eye; infralabials 8-8, the fifth largest; preoculars 1-1; postoculars 2-2; loreal 1-1; temporals 1+3+4—2+3+4; anterior and posterior genials nearly equal; red blotches 29 on body and seven on tail.

This species is as yet unknown from Nevada, Oregon, and Utah.

25. *Thamnophis sirtalis concinnus* (Hallowell)

Our collections include ten specimens of this garter-snake. These are one (No. 45428) taken at Boise, Ada County, July 17, 1918, and nine (Nos. 45770-45778) from McCall, Boise County, August 6-11, 1918. They have the following scale-counts:

No.	Sex	Scale Rows	Gastro-steges	Uro-steges	Anal	Supra-labials	Infra-labials	Pre-oculars	Post-oculars	Loreal	Temporals
45428	♀	19—19—17	164	37+	1	8—7	10—10	1—1	3—3	1—1	1+2—1+2
45770	♀	19—19—17	159	74c	1	7—7	10—10	1—1	3—3	1—1	1+2—1+2
45771	♂	19—19—17	164	93c	1	7—7	9—9	1—1	3—3	1—1	1+2—1+2
45772	♀	19—19—17	159	82c	1	7—7	9—10	1—1	3—3	1—1	1+2—1+2
45773	♂	19—19—17	162	85c	1	7—7	10—10	1—1	3—3	1—1	1+2—1+2
45774	♂	19—19—17	159	89c	1	7—7	10—10	1—1	3—3	1—1	1+2—1+2
45775	♀	19—19—17	157	73c	1	7—7	10—10	1—1	3—3	1—1	1+2—1+2
45776	♂	19—19—17	168	89c	1	7—7	10—10	1—1	3—3	1—1	1+2—1+2
45777	♀	19—19—17	159	66+	1	7—7	10—10	1—1	3—3	1—1	1+2—1+2
45778	♀	19—19—17	156	82c	1	7—7	10—10	1—1	3—3	1—1	1+2—1+2

26. *Thamnophis ordinoides vagrans* (Baird & Girard)

This garter-snake is common in Idaho, whence we have received fifty-two specimens. Many of these have been recorded in our paper on the garter-snakes of western North America (Proc. Cal. Acad. Sci., Ser. 4, Vol. VIII, No. 6, 1918, pp. 241-244).

Since the publication of that paper, thirty-nine specimens have been received as follows: Six (Nos. 45411-45416) collected at Boise, Ada County, June 6 to September 16, 1918; eight (Nos. 45757-45764) from McCall, Boise County, August 10-11, 1918; three (Nos. 45765-45767) from Little Payette Lake, August 11, 1918; two (Nos. 45768, 45769) from North Fork of Lake Fork Creek, Boise County, August 7, 1914; ten (Nos. 45864-45873) from Warm Springs Creek three miles west of Ketchum, Blaine County, August 29-30, 1919; and ten (Nos. 47732-47741) from Bear Lake, Bear Lake County, July 17-22, 1920. The scale-counts of these specimens are given below.

No.	Sex	Scale Rows	Gastro-steges	Uro-steges	Anal	Supra-labials	Infra-labials	Pre-oculars	Post-oculars	Loreal	Temporals
45411	♀	21—21—17	167	83c	1	8—8	10—10	1—1	2—2	1—1	1+2—1+2
45412	♀	21—21—17	165	78c	1	8—8	11—11	1—1	3—3	1—1	1+2—1+2
45413	♀	21—21—17	169	86c	1	8—8	10—10	1—1	4—3	1—1	1+2—1+2
45414	♀	21—21—17	168	81c	1	8—8	10—11	1—1	3—3	1—1	1+2—1+2
45415	♀	21—21—17	174	41+	1	8—8	10—10	2—2	3—3	1—1	1+2—1+2
45416	♂	21—21—17	174	91c	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
45757	♀	21—21—17	165	71c	1	8—8	10—10	1—1	3—3	1—1	1+2—1+3
45758	♀	21—21—17	166	75c	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
45759	♂	21—21—17	171	89c	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
45760	♂	21—21—17	168	89c	1	8—8	10—10	2—1	3—3	1—1	1+2—1+2
45761	♂	21—21—17	171	87c	1	8—7	10—10	1—1	3—3	1—1	1+2—1+2
45762	♂	21—21—17	170	74+	1	7—6	10—10	1—1	3—3	1—1	1+2—1+2
45763	♂	21—21—17	163	76c	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
45764	♀	21—21—17	168	80c	1	8—8	10—10	1—1	4—4	1—1	1+2—1+2
45765	♀	21—21—17	169	60+	1	8—8	10—10	2—1	3—3	1—1	1+2—1+2
45766	♀	21—21—17	160	76c	1	8—8	10—10	1—1	4—4	1—1	1+2—1+2
45767	♀	21—21—17	168	74+	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
45768	♀	21—21—17	164	77+	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
45769	♀	21—21—17	166	77c	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
45864	♂	21—21—17	165	85c	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
45865	♂	21—21—17	172	90c	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
45866	♂	21—21—17	169	80c	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
45867	♂	21—21—17	169	80c	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
45868	♂	21—21—17	166	83c	1	8—8	10—10	2—1	3—3	1—1	1+2—1+2
45869	♀	21—21—17	166	78c	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
45870	♂	21—21—17	167	65+	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
45871	♀	21—21—17	167	82c	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
45872	♂	21—21—17	168	88c	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
45873	♂	21—21—17	167	88c	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
47732	♀	21—21—17	166	80c	1	8—8	9—10	1—1	3—2	1—1	1+2—1+2
47733	♀	21—21—17	167	73c	1	8—8	9—10	1—1	3—3	1—1	1+2—1+2
47734	♀	21—21—17	173	83c	÷	8—8	10—10	1—1	3—3	1—1	1+2—1+2
47735	♂	21—21—17	175	86c	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
47736	♀	21—21—17	172	79c	1	7—7	10—10	1—1	3—3	1—1	1+2—1+2
47737	♀	21—21—17	174	79c	1	8—8	10—10	1—1	4—3	1—1	1+2—1+2
47738	♀	21—21—17	171	78c	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
47739	♀	21—21—17	172	80c	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
47740	♂	21—21—17	173	85c	1	8—8	10—10	1—1	3—3	1—1	1+2—1+2
47741	♀	21—21—17	170	79c	1	8—8	10—10	1—1	4—4	1—1	1+3—1+2



Van Denburgh, John and Slevin, J R. 1921. "A list of the amphibians and reptiles of Idaho, with notes on the species in the collection of the academy." *Proceedings of the California Academy of Sciences, 4th series* 11, 39-47.

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