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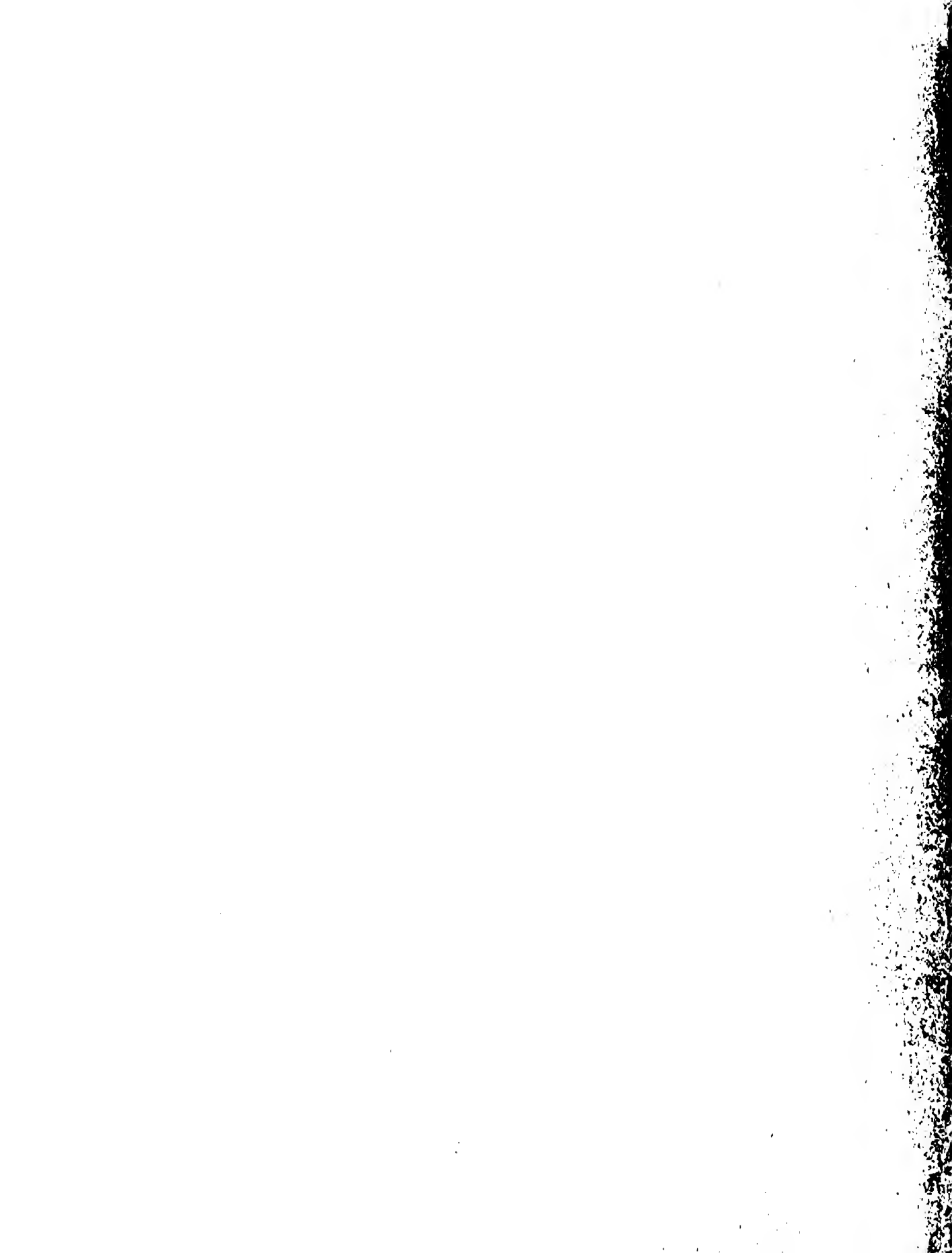
**BIBLIOGRAPHY OF THE
NORTH AMERICAN LAND
TORTOISES (GENUS *GOPHERUS*)**

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**UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
Special Scientific Report—Wildlife No. 190**



UNITED STATES DEPARTMENT OF THE INTERIOR
Fish and Wildlife Service

BIBLIOGRAPHY OF THE NORTH AMERICAN LAND TORTOISES (GENUS *GOPHERUS*)

JOHN F. DOUGLASS

Archbold Biological Station
of The American Museum of Natural History
Route 2, Box 180
Lake Placid, Florida 33852



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INTRODUCTION

Land tortoises of the genus Gopherus are an important element of the fauna of southern North America. Information on the four living species is widely scattered in various popular and scientific books and periodicals.

An extensive search was made for literature on behavior and ecology of tortoises in this group. This compilation is intended as an aid to herpetologists and conservationists interested in these animals; it is hoped that it will serve as a directory to available information, prevent unnecessary duplication of effort, and help illuminate research needs.

Major sources checked for references on Gopherus were the following:

Biological Abstracts, through Vol. 59, No. 5(1975).
BioResearch Index(including BioResearch Titles), through Vol. 10(1974).
Copeia, through 1974.
Herpetologica, through Vol. 30(1974).
International Turtle & Tortoise Society Journal, through Vol. 7,
No. 2(1973).
Journal of Herpetology, through Vol. 8(1974).
The Zoological Record, through Vol. 108(1971).

No thorough effort has been made to include papers dealing strictly with morphology, taxonomy, fossil forms, or distribution.

Each numbered item in the bibliography has been read and its contents indexed by subject. The references cited in each article have also been checked. A copy of each paper listed is on file in the Library of Archbold Biological Station.

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SUBJECT INDEX

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flavomarginatus: 281(35). G. polyphemus: 266(228); 403(1218); 475; 488(604).

SEX RATIOS

Gopherus agassizii: 178(190); 464(163); 479(6, 7, 14). G. berlandieri:
48(168, 200); 178(198).

BREEDING SEASON

Gopherus spp.: 377(848). G. agassizii: 49(46); 66(46); 71(9); 81(1268); 89(28); 124(327); 130(10); 140(83); 178(187, 188); 202(227); 241; 255(227, 228); 265(6); 272; 284(71); 303; 304(364); 308(197); 327(67-68); 328(142-143); 358(242); 410(183); 437; 460(33); 463; 464(167-168, 185, 195); 465(2017); 473(4); 477; 479(8); 498(10). G. berlandieri: 178(194); 207(442, 448); 216; 219; 241; 386; 452; 460(33). G. polyphemus: 44(113); 178(202, 203); 249(22); 266(228).

COURTSHIP AND COPULATION

General: 42; 43; 45(9, 10-11); 170(1, 2); 330(52). Gopherus spp.: 44; 45(11-12); 66(46); 125(84); 170(7); 333(229, 273); 376(577); 404; 500.

G. agassizii: 44; 49(46-47); 57(116); 66(46, 47); 71(9); 81(1268); 89(28); 117(514, 515); 124(327); 140(83); 170(7); 178(184, 187-188); 202(226); 241; 252; 255(232); 265(6, 7); 272; 281(31); 297(229); 303(172-174); 304(364); 308(197-198); 309(116, 118); 310(23); 327(65, 67-68); 328(142-143); 342; 351(11); 358(241, 242); 370; 377; 410(183); 437; 444(992-993); 451; 452; 459(123); 460(33); 463; 464(167-168, 169, 185, 196); 465(2017); 473(4, 6, 8-9); 477; 479(8, 10); 493; 498(10, 12, 13).

G. berlandieri: 44; 66(46); 124(332); 170(7); 178(191, 193-195); 219; 241; 252; 281(31); 342(24); 370; 376; 377; 386; 404; 440(441); 452; 460(33).

G. flavomarginatus: 44; 166(147); 170(7); 281(28, 31); 377; 452. G. polyphemus: 44; 45(11); 66(46, 47); 124(338, 339); 161(442); 170(7); 178(200, 202-203); 266; 275(98); 281(31); 342(24); 376(577); 377; 440(441, 445); 452; 500.

NESTING SEASON

Gopherus agassizii: 14(10); 19(11); 49(46, 47); 57(116); 66(46); 81(1268); 85(261); 118(86); 124(327); 178(188); 202(227); 245; 252; 255(228); 272(6); 278; 290; 303(174); 304(364); 308(189, 190, 193); 309(115, 118, Plate I); 327(66, 68, 69); 328(141, 142); 358(242); 396; 397(21); 410(183); 411(87); 422; 439(29); 460(33); 464(163-164, 196); 465(2017); 473(4); 479(5, 17); 484. G. berlandieri: 48(159-164, 200); 102(209); 178(195, 196); 207(442, 445); 355(15); 380. G. polyphemus: 1; 124(338); 156(11); 178(203); 192(372); 217(16, 17); 242(57); 249(22); 251; 266(228); 358(253); 440(445); 464(163); 488(603, 604).

NESTING BEHAVIOR (nest sites, nest construction, egg-laying behavior)

Gopherus spp.: 359(105). G. agassizii: 14(10); 49(47-49); 57(116); 66(46-47); 81(1268); 85(261, 262); 89(28); 102(210); 117(513); 118(86); 124(327); 130(10); 178(188-189); 202(227); 206(400); 245; 255(228, 232); 265(7); 272(6-7); 278; 284(71); 297(229); 303(174); 304(364); 308(189-191, 193); 309(115, 116, 118, Plate I); 310(22, 23); 327(68-69); 328(141-142); 338; 351(11); 355(14); 358(242); 396; 397; 410(183); 422; 439; 444(991); 459(123); 460; 464(163, 196); 473(4); 479(17); 485; 498(13). G. berlandieri: 48(158-163, 199, 200); 81(1269); 102; 124(332); 178(195-196); 207(442); 252; 261; 355(14); 358(246); 380; 419. G. polyphemus: 1; 33; 45(16); 81(1270); 100(102); 105(454); 124(338-339); 156(11); 161(442); 178(203-204); 181(292); 183(47); 187; 192(372); 217(14, 17, 18); 242(57); 249(22); 251; 266; 358(253); 440(445); 464(163); 475.

DESCRIPTIONS OF EGGS

Gopherus agassizii: 16(23); 48(166); 49(48); 57(116); 81(1268); 83(399);

85(261-262); 102(210); 117(513); 118(86); 124(327-328); 130(10); 178(189);
202(227-228); 206(400, 401); 207(441, 442, 443); 208(29, 30); 255(228);
271(5); 272(6); 278(64, 65); 284(71); 290; 303(174); 304(364); 308(189,
191-192); 309(115); 310(22, 23); 327(69); 351(11); 355(14); 358(238-239);
359(104); 396; 397(22); 410(183); 422; 439(29, 31); 444(991); 459(123);
464(152, 160, 163, 195); 498(13). G. berlandieri: 48(166); 81(1269);
83(399); 102(209, 210); 124(332); 178(196); 207(441, 442, 443, 445);
208(29, 30); 261; 348; 355(14, 15); 358(246); 359(104); 380; 419; 421;
440(446); 464(152). G. flavomarginatus: 281(28-29). G. polyphemus: 1; 33;
48(166); 60(183); 81(1270); 83(399); 105(454); 124(338); 150(258); 178(204);
183(51); 192(372); 207(441, 442); 208(29, 30); 217(16, 17-18); 235(45);
242(57); 249(22); 266(229); 358(248, Plate 88); 359(104); 403(1218);
440(445); 464(152); 488(604). G. polyphemus X G. agassizii hybrids: 245.

CLUTCH SIZE (number of eggs per clutch, number of clutches)

Gopherus agassizii: 24; 48(164, 166); 49(48, 49); 57(116); 66(46); 72(8);
81(1268); 85(261); 89(28); 102(210); 109(9-10); 117(513); 118(86); 124(327);
143(31); 178(188, 189); 202(227, 228); 206(400); 252; 255(228); 265(7);
272(6); 278(64); 290; 297(229); 303(174); 304(364); 308(189, 190, 193, 201);
309(115, 118); 327(66, 68, 69); 328(141, 142); 351(11); 354(32); 355(14);
358(242); 359(104); 396; 397(22); 410(183); 422; 439(26, 29); 444(991);
459(123); 460; 464(160, 163, 164, 195, 196); 473(4); 478; 479(5, 18); 485;
498(13). G. berlandieri: 48(158, 160, 161, 163, 164, 200); 81(1269); 102;
124(332); 178(196); 207(442); 252; 261; 348; 355(14, 15); 357; 358(246);
380; 419. G. berlandieri X G. agassizii hybrids: 301; 460. G. flavo-
marginatus: 281(28-29). G. polyphemus: 1; 33; 45(16); 48(166); 100(102);

105(454); 124(338); 156(11); 178(203-204); 181(292); 183(47, 51); 192(372);
217(16, 17, 18); 242(57); 249(22); 266(229); 358(253); 359(104); 440(445);
464(163); 475. G. polyphemus X G. agassizii hybrids: 245.

INCUBATION (conditions required, incubation periods, recommended techniques)

General: 14; 430(175). Gopherus agassizii: 14(10); 16(23); 19(11); 24;
49(46, 49); 57(116); 81(1268); 85(261-262); 89(28); 124(327); 130(10);
178(189); 265(7); 271; 272(7); 284(71); 297(229); 303(174); 304(364);
308(191, 192); 309(115, 116, 118); 310(22, 23); 327(69); 328(141, 142);
351(11); 355(14, 15); 357; 358(242); 396; 397(20, 22); 410(183); 422; 439;
464(164); 465(2017); 498(13). G. berlandieri: 178(196); 261; 355(14-15,
16); 357. G. berlandieri X G. agassizii hybrids: 460. G. polyphemus: 1;
33; 124(339); 217(17, 18); 249(22); 440(445); 475; 481. G. polyphemus X
G. agassizii hybrids: 245.

HATCHING (descriptions of hatching, hatching season)

Gopherus agassizii: 16(23); 32(36); 57(116); 72(8); 81(1268); 85(262);
89(28); 130(10); 132(7); 178(189); 202(227, 228); 206(400); 252; 255(228,
232); 265(7); 271; 272(7); 297(229); 308(192-193); 309(115-116, 118);
327(69); 328(141, 142); 354(32); 358(242); 396; 397(20, 22); 410(183);
422; 439; 464(164, 196); 465(2017); 473(4). G. berlandieri X G. agas-
sizii hybrids: 460. G. flavomarginatus: 281(28). G. polyphemus: 33;
100(102); 178(204); 183(47). G. polyphemus X G. agassizii hybrids: 245.

GROWTH RATES; SIZE AND AGE DATA; GROWTH RINGS; LONGEVITY

Gopherus spp.: 136(156); 492. G. agassizii: 9; 16(22); 17; 22; 25(21);
49(45); 53(373); 57(116); 66(46); 80; 89(26); 90; 104(28); 109(9); 117(513);
124(322, 324, 327); 130(9); 131(12); 132; 135(681); 136(156); 139; 140(83,

84, 91); 145; 161(442); 178(184, 189); 190(600); 202(228); 207; 209; 252;
254(262); 255(228-229, 232); 257(186); 259; 260(276); 262; 265(6); 272(5);
274(1); 281(34); 284(71); 286(230); 297(226); 303(172, 174-175); 304(362);
308(194-195, 198-199, 202, Plate 11); 309; 324(30); 327(65); 328(141); 340;
343; 345; 351(10); 358; 359(104); 362(195); 368; 370; 379(502); 396;
397(22); 398; 410(180, 181); 411(87, Plate 15); 412(162); 422; 439(31);
440(438, 443); 444(988); 459(121); 464; 465(2017); 473(2, 4, 8, 9); 478;
479(4-6, 17-19); 485; 487; 491; 498(10, 13, 14, 15). G. berlandieri:
15(22); 48; 68; 124(330, 331); 136(156); 138(66); 161(444); 178(191, 197);
207; 274(2); 280(69); 286(230); 345; 358; 359(104); 360; 362(195); 370;
432; 440(443); 446(83). G. flavomarginatus: 166(147); 173; 274(2);
279(341-342); 281(33-35, 36); 345; 346(22); 362(195). G. polyphemus: 1;
6; 33; 60(182); 74; 77(104); 105(453); 124(332, 334, 338); 126(247);
135(682); 138(66); 139; 160(292, 293); 161(440-441, 442); 165; 178(200,
204-205, 206); 183(48); 187; 192(371); 197; 211; 218; 224(22); 225(27);
235(42, 44); 242(57); 243(302-303); 249(21); 250; 251; 274(2); 275(98,
100); 281(34); 285; 286(230); 305(231); 323; 330(82); 345; 349; 358;
359(104); 360; 362(195); 375; 403(1218); 408; 440(443, 445); 464(167);
475; 481; 488(603, 604, 605); 495(37).

AGE COMPOSITION OF POPULATIONS

Gopherus agassizii: 109(10); 464(187); 479(6-7, 19-20).

FOODS AND FEEDING

General: 19(12); 161(439); 363(24). Gopherus spp.: 45(13); 117(513);
136(156); 196; 286(230); 324(18); 358(236); 359(104); 360; 470; 492; 499.
G. agassizii: 45(29); 49(45-46); 53(373); 57(115); 67; 71; 72; 73; 81(1267);

85(262); 89(27); 91; 93; 96(553); 104; 117; 124(328); 130(10); 131(12, 14);
132; 135(680); 136(156); 140(83, 84); 144; 145; 153(21); 161(443); 178(189);
180; 190(602); 194; 202(227, 228); 207(448); 241; 254(258, 263); 255(227,
232); 256(87); 260(277); 262; 264; 265; 271(4); 272(5, 7, 8); 278(63); 280;
284(71); 286(230); 291; 297(226); 303(172, 174); 304(9, 363); 308(194,
196-197); 310(22); 311; 313; 327; 328(141, 144); 335; 351(10); 354(32);
358(242, 244); 362(195); 367; 370; 392; 393; 396; 406; 410(182); 411(87);
414; 422(61); 438; 439(30); 440(438, 446); 444(989, 991, 992); 459(122-123);
464(166, 168, 174-175, 179, 185-186, 195); 465(2016); 473(4, 8); 478; 479;
485; 487; 498(9, 11, 13-14, 15). G. berlandieri: 15(22); 48; 61(98); 67;
93; 124(332); 129; 136(156); 138(66); 178(197, 198, 199); 207(441, 442, 444,
447); 231; 280; 286(230); 292; 314; 355(15); 358(246-247); 367; 386;
418(189); 432; 440(446). G. flavomarginatus: 13; 93; 166; 173; 253(35);
279(342); 280; 281(27); 346(36). G. polyphemus: 1; 33(275); 45(16); 62(35);
63; 74; 77(104); 81(1269); 93; 100(102); 105(453); 107; 123(106); 124(337,
339); 133(62); 135(677, 682); 137; 138(66); 142(239); 160(293); 161(441,
442); 178(205); 181(291-292); 183; 187; 192; 199(68); 217(12); 218; 225(27);
235(44); 240(130); 242(57); 249; 250; 275(99); 280; 285; 288; 329; 330(83);
349; 358(253, 254); 367; 374(12); 375(290); 391(276); 402(39); 440(445);
470; 475; 481; 482; 489(408, 409); 495(39); 497(2).

SCATOLOGY

Gopherus agassizii: 53(373); 117(514); 255(229); 260(277); 335; 341;
444(992); 464(175). G. berlandieri: 341. G. flavomarginatus: 281(27).
G. polyphemus: 100(102); 178(201); 199(14, 15); 217(12); 220(359); 243(304).

BODY COMPOSITION

Gopherus agassizii: 140. G. berlandieri: 378. G. polyphemus: 436; 488; 489.

BRAIN CHEMISTRY

Gopherus berlandieri: 364.

HEMATOLOGY

Gopherus spp.: 157(42). G. agassizii: 50; 423; 424; 425. G. berlandieri: 230; 423; 424; 425. G. flavomarginatus: 157(28). G. polyphemus: 157(8, 43); 164; 228(86); 423; 424; 425; 427; 436; 488.

SEROLOGY

Gopherus agassizii: 188(536); 283. G. berlandieri: 188(536, 539, 540); 189(101, 103); 283. G. flavomarginatus: 295. G. polyphemus: 188(536); 394; 436; 488.

CARDIOLOGY

Gopherus spp.: 332. G. berlandieri: 378.

RESPIRATION

General: 228(83). Gopherus spp.: 157(42). G. agassizii: 89(26); 255(228); 425. G. berlandieri: 425. G. polyphemus: 157(8, 43); 425.

THERMOREGULATION (activity rhythm, effects of temperature and rain)

General: 19(12); 82; 88; 97; 363; 462; 464. Gopherus spp.: 39(32, 33); 45; 47(564); 48; 88(113); 196; 220(353). G. agassizii: 32(35, 36); 39(32); 45; 47(564); 48; 49(45-46); 53(372-373); 57(115, 116); 58; 81(1267, 1268); 85(262); 89(26, 27); 96(553, 556); 97; 98; 109(10); 117(514); 124(325-326); 125(21); 127; 130(10); 132; 135(680); 136(156); 140(83, 84); 143(32); 161(443); 178(186); 194; 202(228, 229); 206(400); 207(448); 248;

254(258-259); 255(227, 229); 256(87); 257(102); 260(276-277); 265(6); 267;
 271(5); 272(5, 7, 8); 278(62); 284(71); 286(230); 297(227, 229); 298;
 303(172, 174); 304(364); 308(195, 196, 202); 310; 313; 324(18); 327(65,
 67, 68); 328(143-144); 333(127, 132); 335; 341(215); 351; 355(14); 358(240,
 241, 245); 368; 396; 409; 410(180, 182, 183); 414; 428; 433; 434; 438;
 444(990, 991, 992); 459(122); 462(51); 463; 464(168, 177-187, 195-196);
 465(2016); 473(4); 478; 479; 487; 498(11, 12, 13, 14, 15). G. berlandieri:
 45; 47(564); 48; 124(331); 136(156); 138(66); 178(192, 194); 207(442, 447);
 231; 248; 324(18); 355(14); 358(246, 247); 378; 386; 418; 452(20, 26). G.
flavomarginatus: 47(564); 166(147); 279(342); 346(21, 22, 23). G. poly-
phemus: 1; 45; 47(564); 48; 62(11, 35); 63(27-28); 77(104); 81(1269); 82;
 86; 96(553); 100; 105(453); 107; 124(335, 338); 125(87); 133(11, 12);
 135(677, 682); 136(157); 138(66); 150(258); 160; 161(441, 442); 178(201,
 206); 181(292); 183(47, 50); 187; 192(372); 199; 200; 201; 217(11); 225;
 235(44-45); 242(57); 248; 249(22, 23); 263(196); 268(16); 269(30); 275(99);
 285; 289; 302(122); 324(18); 330(83); 333(127-128, 132, 191); 358(249,
 250); 363; 402(39); 409; 440(444, 445); 441(455); 481; 497(8).

WATER BALANCE (moisture requirements, drinking, water loss)

General: 82; 88; 304(9); 464(175). Gopherus spp.: 45(29-30, 34); 48(191);
 61; 88(113); 246; 344(374); 499. G. agassizii: 3; 9; 28; 32(34); 40;
 45(29-30); 48(197); 49(46); 53; 57(115, 116); 61; 72(9); 73(24); 82; 89(26,
 27); 109(10); 117(514); 124(326-327); 125(21); 130(10); 132(6, 7); 136(156);
 140(84, 85, 92); 144; 147; 148; 149; 161(443); 177; 178(186, 187); 180; 190;
 202(227, 228); 207(448); 254(257, 262); 255(229-230); 256(88); 260(276);
 272; 284(71, 103); 297; 302(71); 303(172); 304(10, 12, 363-364, 365);

308(194, 196, 201-202); 309(115); 310(22); 311; 312; 313; 328(141, 144);
344(374); 351(10); 354; 355; 358(243); 362(195); 389; 390; 396; 409(517);
410(182-183); 411(87); 439(30); 440(446); 444(990, 991-992); 459(122);
464(147, 160, 175-176, 178, 185-186, 195, 196); 465(2016); 479(17); 498(10).
G. berlandieri: 48(197); 61; 124(331-332); 178(192-193); 207(448); 219;
231; 269(32); 317; 355; 358(246); 418(190). G. flavomarginatus: 281(27);
317; 346(23). G. polyphemus: 40; 48(192); 82; 124(337, 338); 157(8);
160(293); 161(442); 167; 177; 178(201-202, 206); 183(52); 213(512); 217(12,
14, 15); 220(355, 356); 225(27); 249(20); 263(190); 285; 349(194); 358(254);
402(39); 409(516, 517); 435; 436; 440(444); 481.

BONE REGENERATION

Gopherus agassizii: 464; 465(2016). G. berlandieri: 233.

BURROW CHARACTERISTICS

Gopherus spp.: 45; 65; 96(553); 107; 161(439); 196; 346(20); 358(236);
452(4). G. agassizii: 19(12); 45; 48; 49(45); 53(373); 57(115); 81(1268);
83(399-400); 89(27); 104(29); 109(10); 117(513); 124; 130(9); 136(156);
178; 194; 202(227); 255(227, 230-231); 256(87); 260(276, 277); 286(230);
291; 297(227); 303(174); 304(362-363); 308(196); 310(23); 327(66-67);
358(241); 359(104); 410(182); 411(87); 444(990-991); 452(4); 459(122); 462;
463; 464; 465(2016); 473(6); 479(2, 10-12, 17); 498(10, 11, 14, 15). G.
berlandieri: 45; 48; 83(400); 96(553); 124; 136(156); 138(66); 178; 208(29);
324(18); 378; 386; 452(4). G. flavomarginatus: 45; 48; 281(27); 346(20,
21-22); 452(5). G. polyphemus: 1; 4; 6; 8; 11; 45; 48; 57(117); 60(183);
63(27); 74; 76(421); 77(103, 104-105); 81(1269); 82(12); 86; 100(101);
105(453); 107; 117(513); 123(106); 124; 135(677, 682); 138(66); 150(258);

160; 161(441); 172; 178; 181(291); 183(49-50); 187; 192(371); 199(14-15);
202(227); 217; 220; 227(230); 242(57); 243(302-303); 249(22, 23); 251;
268(16); 275(98-99); 286(230); 289; 302(122); 333(110, 158); 358(250-252);
359(104-105); 360; 362(195); 375(289); 383(25); 384(207); 391(276);
440(444); 447; 452(4); 466(65, 73); 469(54-55); 470; 475; 495; 497(2, 7).

BURROW TEMPERATURE

Gopherus agassizii: 89(27); 96(556); 124(326); 178(186); 464; 465(2016);
479(11). G. polyphemus: 86; 125(87); 172; 178(201); 199(2); 242(57);
243(308); 251; 466(65); 490(94).

BURROW MOISTURE AND HUMIDITY

Gopherus agassizii: 89(27); 178(186); 202(227); 272(8); 303(172); 358(241);
464(176, 186); 479(11). G. polyphemus: 45(16); 48(191); 74; 77(104);
82(12, 32); 124(336, 337); 172; 178(201); 183(49, 50); 199(2); 202(227);
242(57); 243(308); 251; 289; 358(248-249, 250); 359(105); 383; 466(65);
469(55); 475.

BURROW OCCUPANCY AND CONSTANCY

Gopherus agassizii: 45(25-29); 48; 49(45); 65; 81(1268); 89(27); 104(29);
109(10); 124; 130(9-10); 136(156); 140(83); 178; 194; 202(227); 255(227,
230-231); 260(276); 297(227); 303(174); 308(196); 327(66-67); 328(144);
358(241); 359(104); 410(182); 411(87); 433; 434; 452(4); 462; 463; 464;
465(2016); 473(4, 6); 477; 479(10-12, 17). G. berlandieri: 48; 136(156);
178; 452(4). G. flavomarginatus: 346(21); 452(4). G. polyphemus: 1; 8;
27; 45(20); 48; 81(1269); 86; 100(101, 102); 105(453); 124; 160; 178;
183(47, 50); 186; 192(371-372); 199(14-15, 112); 220; 242(57); 243(303);
249(22); 330(83); 333(110, 158); 358(251); 359(104); 360; 375(289);
440(444); 452(4-5); 469(54); 475.

BURROW ASSOCIATES (commensals and obligates)

Gopherus spp.: 45(34-35); 65. G. agassizii: 45(27, 28); 48(195); 89(27-28); 124(325); 140(83); 178(185); 198(143); 202(227); 260(276); 291; 304(363); 464(171, 172, 179, 182, 185, 191-192, 196); 498(11, 15). G. berlandieri: 48. G. flavomarginatus: 45(22). G. polyphemus: 4; 45(18-19, 20, 32); 57(117); 76; 77(105-108); 86; 95; 100(101); 124(335, 336-337, 337-338); 125(84, 87); 133(11-12); 138(66, 303-304, 305); 142(240); 151; 161(441); 172; 178(201, 205, 206); 181(291); 183(47, 49); 187; 191; 198(143); 202(227); 217(18-20); 225(28); 226(719-720); 227(230); 242; 243; 244; 249(22, 23); 268(16); 273; 276; 277; 286(230); 289; 302(122); 315; 316(15-16, 66); 319; 333(158); 350; 358(252-253); 359(105); 362(195); 375(289); 383; 391; 407; 440(444-445); 445; 447; 466; 469; 475; 496; 497.

HOME RANGE

General: 114. Gopherus agassizii: 9; 45(24-27); 48(173, 193, 197, 198); 65; 89(26); 109(10); 114; 124(326); 130(9, 10); 135(682); 161(443); 178(190); 199(12-13); 255(229); 293; 303(173); 304(362); 308(202); 333(110); 358(240-241); 410(182); 433; 452(4); 463; 464(187-191, 196); 465(2017); 477; 478; 479(8, 9-10, 12); 498(14). G. berlandieri: 45(23); 48(141, 172-176, 180, 198, 200-201); 178(198); 207(447); 378; 452(4, 5). G. flavomarginatus: 45(22); 48(193); 346(21). G. polyphemus: 45(16, 27); 48(191, 197, 198); 100(102); 160; 178(205); 187; 199; 200; 217(11); 249(22); 333(110); 374; 452(5); 475.

POPULATION DENSITY

Gopherus spp.: 346(21). G. agassizii: 252; 260(276); 291; 341; 464(147, 149, 187, 196); 465(2016); 473(9); 477; 478; 479; 484. G. berlandieri:

48(171-172, 198, 200, 201); 178(198); 202(227); 219; 378. G. flavo-marginatus: 346(21). G. polyphemus: 33(274); 74; 81(1269); 105(453); 124(337); 152; 161(441); 181(291); 183(46-47, 48, 50); 217(12, 13); 235(44); 249(23); 358(250); 360; 475; 495(38, 40).

SOCIAL ATTRACTION (see also BURROW OCCUPANCY AND CONSTANCY)

Gopherus spp.: 347(35). G. agassizii: 53(372); 89(27); 255(232); 278(62-63); 327(67, 69); 341; 462; 463; 464(169, 191, 196); 465(2017); 477; 498(10). G. berlandieri: 341; 355(14); 452(39). G. polyphemus: 27; 124(337); 183(46-47); 235(44); 360; 452(37); 475.

MIGRATIONS

General: 114. Gopherus agassizii: 9; 45(25, 26); 48(193, 195); 65; 81(1268); 109(10); 124(325); 136(156); 178(190); 303(172); 333(110); 433; 452(4); 463; 464(186-187). G. berlandieri: 48(180); 124(331-332); 178(198); 202(227); 219; 269(31-32); 358(246). G. polyphemus: 235(44); 333(110).

POSSIBLE TERRITORIALITY (see also AGONISTIC BEHAVIOR)

General: 45(10); 48(197); 103(256); 114; 330(52). Gopherus spp.: 44(117); 302(131); 452. G. agassizii: 48(197); 49(47); 57(116); 71(8-9, 34); 81(1268); 117(514-515); 178(187, 190); 255(228); 303(173); 308(197); 341; 351(11); 358(243-244); 444(992); 464(168-169, 187, 196); 465(2017); 498(13). G. berlandieri: 48(198); 377(850); 452. G. flavomarginatus: 281(27); 347(35). G. polyphemus: 44(117); 178(202); 347(35); 452(37).

ORIENTATION AND HOMING

General: 48(197); 114(6); 175; 199. Gopherus spp.: 45(25, 35). G. agassizii: 202(226-227); 473(8). G. berlandieri: 48(177-180, 198, 201);

178(198); 202(227); 207(447). G. polyphemus: 175; 178(205-206); 183(50); 195; 198(157-158); 199; 200; 201; 374.

DISEASES; DIETARY DEFICIENCIES

General: 246; 330(105); 363. Gopherus sp.: 21; 29; 106. G. agassizii: 3; 49(46); 58; 59; 72; 85(263); 132(7, 24); 180; 190; 272(5, 8); 308(199-200); 309(117); 310(22); 337; 351(11); 369; 439(30); 464(193); 477; 484; 498(15). G. berlandieri: 176; 386. G. flavomarginatus: 253. G. polyphemus: 161(442); 222; 403.

INJURIES

General: 246. Gopherus agassizii: 71; 89(26); 206(400); 308(199, 202); 327(65); 328(143); 351(11); 410(182); 464; 465(2016). G. polyphemus: 250; 322; 402.

PARASITES

GENERAL: 88; 98; 246; 363.

VIRUSES

Gopherus polyphemus: 234; 263.

BACTERIA

Gopherus sp.: 385. G. agassizii: 30; 385. G. berlandieri: 300; 385. G. polyphemus: 385.

MOLD AND MILDEW

Gopherus agassizii: 178(288); 354(32); 464(193).

PROTOZOA

Gopherus polyphemus: 179.

NEMATODES

Gopherus sp.: 111; 112; 353; 467. G. agassizii: 464(175, 195); 465(2016).

G. berlandieri: 178(288); 418(190). G. polyphemus: 282; 353; 449; 467.

MITES

Gopherus polyphemus: 178(288); 242(58); 358(253-254).

TICKS

Amblyomma tuberculatum(parasitic on Gopherus polyphemus): 55; 56; 69; 70; 78; 122; 133; 134; 141; 142; 178(288); 181(291); 237; 238; 239; 240; 242(58); 243(306); 244(300, 301); 247(64); 263(194, 199); 316; 318; 325; 326; 371; 372; 373; 429; 458; 469(57-58); 490(93, 98).

Other ticks: Gopherus agassizii: 89(28); 178(288); 202(227); 221; 379; 464(192-193, 196). G. polyphemus: 78; 122; 178(288); 221; 243(306); 244(300, 301); 247(46); 358(254); 458; 469(57).

INSECTS

Gopherus agassizii: 110; 178(288); 327(65); 464(193). G. berlandieri X G. agassizii hybrids: 460. G. polyphemus: 51; 490; 496.

PREDATORS (see also EGG PREDATORS and USE AS FOOD BY HUMANS)

Gopherus agassizii: 53(373); 89(26); 109(10); 117(515); 135(680, 681); 178(190); 202(228); 206(400); 254(260-261); 255(230); 260(276); 267; 271(5); 272(7); 303(175); 304(328, 365); 308(197, 201); 356; 358(243); 410(183); 412(162); 414; 428; 439(30); 444(993); 459(123); 464(155, 162, 164, 165, 171, 173, 192, 193-194, 196); 473(6); 479(19); 493; 498(13, 15). G. berlandieri: 48(189, 201); 178(197); 356. G. polyphemus: 48(189); 125(87); 178(205); 183(46); 242(57); 375(290).

EGG PREDATORS

Gopherus sp.: 356(27). G. agassizii: 109(10); 327(66); 338; 351(11). G. berlandieri: 48(162-165, 200, 201); 178(197). G. berlandieri X G.

agassizii hybrids: 460. G. flavomarginatus: 281(28). G. polyphemus: 48(162); 74; 105(454); 124(338); 178(205); 183(47); 217(19); 235(45).

HABITAT DESTRUCTION; URBANIZATION

General: 47(563). Gopherus spp.: 108; 476. G. agassizii: 53(372); 89(27); 109; 252; 274(1); 464(194); 473(8, 9); 478; 479; 484; 498(15). G. berlandieri: 48(190, 201); 178(198-199); 252. G. flavomarginatus: 45(32); 281(27). G. polyphemus: 2(38-39, 48); 7; 45(32, 33); 178(205); 475; 489.

HIGHWAY MORTALITY

Gopherus spp.: 108. G. agassizii: 109; 178(190); 252; 255(230); 256(88); 274(1); 303(175); 308(200-201); 351(11); 438; 464(194); 473(6, 8); 478; 498(15). G. berlandieri: 48(190); 124(332); 178(198); 219. G. polyphemus: 178(205).

WANTON KILLING

Gopherus spp.: 108. G. agassizii: 16(23); 109; 252; 255(230); 299; 334; 336; 479(7, 14, 20); 484; 498(15). G. berlandieri: 48(190); 178(198).

GASSING OF BURROWS

Gopherus polyphemus: 2(48); 45(32); 178(205); 407; 496; 497.

USE AS FOOD BY HUMANS (consumption of flesh, eggs, and bladder water)

General: 47(563). Gopherus spp.: 108. G. agassizii: 49(46); 53(373, 374); 96(551); 117(515); 124(328); 140; 144; 145; 178(190); 202(227); 254(260, 263-264); 303(175); 308(200, 201); 310(23); 351(11); 358(245); 412(161, 162); 414; 440(438, 446); 444(989, 993); 459(123); 464(194); 498(10). G. berlandieri: 252; 440(447). G. flavomarginatus: 45(32); 182(328); 279(342); 281(27, 28); 346(36). G. polyphemus: 11; 37(138);

45(32); 60(183); 74; 77(104); 105(454); 124(339); 136(157); 138(66); 145;
150(258); 178(205, 206); 181(292-293); 183(52); 187; 217(12); 218; 227(230);
235(44, 45); 242(57); 249; 275(99); 288; 289; 333(19); 358(254); 362(195);
366; 375(290); 420; 440(438, 447); 475; 481.

USE AS PETS; CARE IN CAPTIVITY (not all accounts of captives included)

Gopherus spp.: 45(32); 108; 163; 447; 476. G. agassizii: 10; 15(23);
16(23); 18; 19; 20; 22; 25(21); 31; 45(32-33); 49; 81(1267-1268); 109(12);
116; 117(514); 124(328); 127; 130(10); 132; 143(31); 153; 161(442-443);
178(187, 190); 182(327); 202(225, 226); 207(448); 252; 254(263); 255(230,
232); 256(88); 259; 262; 265(6, 7, 8); 272(5, 8); 274(1); 278; 299;
303(173, 175); 308(200-201); 309(116); 310(23); 328; 351(10, 11); 354;
355(14); 358(244, 245); 382; 396; 438; 444(992); 453; 464(194, 196); 473(6);
478; 479(7, 20); 483; 484; 485; 498(15). G. berlandieri: 15; 23; 45(33);
48(190); 94(8); 146; 178(198); 182(327); 216; 231; 252; 274(1); 320;
355(14); 358(246); 382; 386; 432; 483; 485. G. flavomarginatus: 25(25);
166; 173; 174; 457. G. polyphemus: 11; 62(11, 35); 63; 86; 160(293);
161(442); 178(205, 206); 183(50, 51); 225(27); 235(44); 249(24); 263(190);
270; 275(99); 285; 349(195); 358(254); 381; 401; 402; 440(447); 481.

OTHER ECONOMIC IMPACTS AND USES

Gopherus spp.: 45(32); 352; 476. G. agassizii: 53(374); 79; 124(328);
178(190); 202(227); 272(5); 310(23); 351(11); 358(245). G. berlandieri:
207(442); 216. G. flavomarginatus: 279(342); 346(20, 36). G. poly-
phemus: 1; 74; 77(104); 105(453); 124(339-340); 155; 156; 178(206);
181(291); 235(44); 242(57); 275(99); 285; 289; 358(254); 440(445);
490(94, 98).

CONSERVATION (legislation, recommendations)

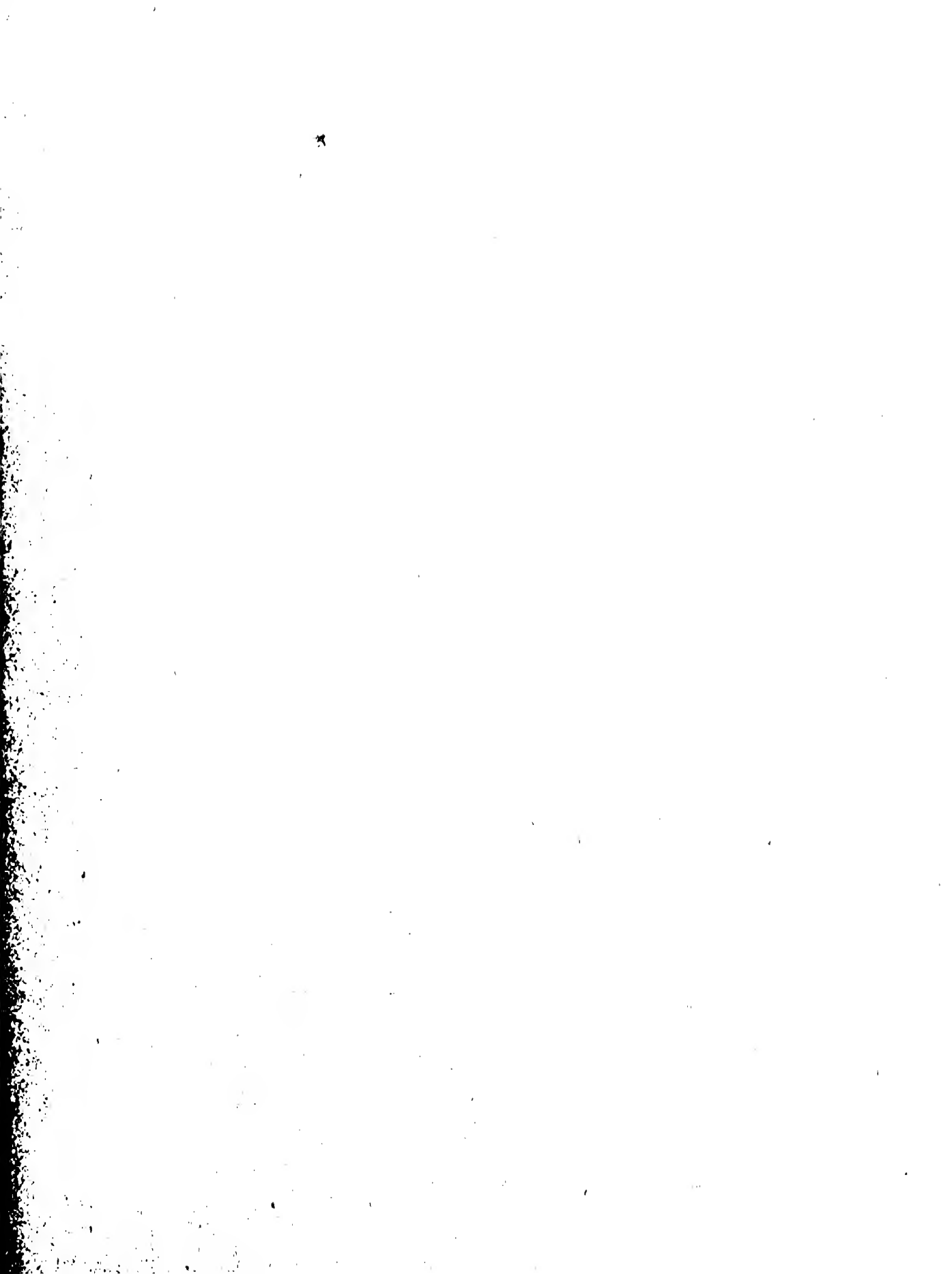
Gopherus spp.: 45(35); 108; 109(10, 12); 252; 448; 476; 483. G. agassizii: 9; 12; 15(23); 22; 25; 26; 34; 45(32); 49(46); 89(28); 90; 94(8); 104(29); 109(10, 12); 127; 143; 162; 169; 178(190); 182(327); 206(399); 231; 232; 252; 265(7, 8); 271(4); 274(3); 286(231); 303(173); 308(202); 336; 358(245); 382; 396; 415; 438; 464(194, 196); 473(6, 8, 9); 477; 478; 479; 483; 484; 498(15). G. berlandieri: 2(48); 12; 15; 26; 45(33); 48(190); 94(8); 158; 162(21); 168; 169; 178(198); 182(327); 231; 252; 274(4); 382; 432; 485. G. flavomarginatus: 45(32); 94(8); 281(27); 346(36). G. polyphemus: 11; 12; 26; 94(8); 124(340); 181; 184; 185; 227(230); 274(4); 475; 497(2, 12-13).

METHODS OF CAPTURE

Gopherus agassizii: 53(373); 117(513); 178(185-186); 202(229); 464(149, 151). G. berlandieri: 446(83). G. flavomarginatus: 281(27). G. polyphemus: 1; 45(32); 105(453); 133(10-11, 12-13); 142(239); 161(441); 181; 183(49); 192(372); 217(11); 227(230); 249; 358(254); 362(195); 440(445-446).

MARKING SYSTEMS

General: 99; 113; 175(60-62); 461(89-90). Gopherus agassizii: 143(31-32); 202(228); 309(116-117, 118); 461(89); 463; 464(147, 149-151, 195); 465(2016); 473(1, 8); 486. G. polyphemus: 99; 142(239); 217(11).



As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.



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