

# THE GRAND CANON

A Worldwide Bibliography

*of the*

Grand Canyon *and* Lower Colorado River  
Regions in the United States and Mexico

16<sup>th</sup> to 21<sup>st</sup> Centuries

**Volume 1, Part B: Bibliography**

FIFTH EDITION

111,000 CATEGORIZED AND AUGMENTED CITATIONS FOR  
PUBLICATIONS FROM AROUND THE WORLD IN 115 LANGUAGES

Earle E. Spamer



A Raven's Perch Digital Production



**RAVEN'S PERCH MEDIA**

BIBLIOGRAPHICAL AND HISTORICAL RESOURCES ON THE  
GRAND CANYON AND LOWER COLORADO RIVER REGIONS OF THE  
UNITED STATES AND MEXICO

THE GRAND CANON : A WORLDWIDE BIBLIOGRAPHY OF THE GRAND CANYON AND LOWER  
COLORADO RIVER REGIONS IN THE UNITED STATES AND MEXICO, 16th TO 21st CENTURIES  
Volume 1, Part B: Bibliography  
Fifth Edition

CATALOGERS NOTE  
canon: *a standard or  
essential list of works*

---

**The Grand Canon**  
*not* The Grand Canyon

© 2025 Earle E. Spamer

**HYPERLINKS IN THIS EXTRACTED FILE ARE FUNCTIONAL ONLY FOR URLS THAT MAY DIRECT TO EXTERNAL  
SOURCES ON THE WEB, AND TO ANY LINKED LOCATIONS THAT MAY BE WITHIN THIS EXTRACT.  
HYPERLINKS TO LOCATIONS THAT MAY BE IN OTHER PARTS OF THE GRAND CANON ARE NOT FUNCTIONAL.**

**THIS EXTRACT IS FOR NON-COMMERCIAL, ADMINISTRATIVE, AND SCHOLARLY USES**

**REPRODUCTION AND FAIR USE** • No commercial or for-profit use of this work, in whole or in part, is allowed without the author's permission. Not-for-profit organizations, educational institutions, government agencies, and Indigenous communities may with credit extract from this work for purposes of resource management and interpretation, education, and public outreach; they also may download the entire document for cataloging and inclusion in their digital products collections, and they may freely allow users to copy this document for their use if it does not violate either the conditions given here or specific limits of copyright law that may not be waived by this fair-use statement. Reuse of this work, in whole or in part, for any purpose, must cite author, title, publisher, and notice of copyright. Academic or other individual researchers may copy selections for personal reference and may quote from this work following best practices of acknowledgment in scholastic research.

Replication of the entire document is permitted in order to ensure preservation or to migrate to different software, or medium not now in existence, when the technology to use the original digital copy is unsupported, inadequate, or obsolete. Documentary copies of this work in a non-digital medium are permitted for reference use or to preempt the loss of the work due to technological change that may no longer permit this work to be accessed by the means for which it was originally designed.

This statement does not supersede copyrights held by the original sources of items cited or quoted in this work.

# THE GRAND CANON

A WORLDWIDE BIBLIOGRAPHY OF THE GRAND CANYON AND LOWER COLORADO RIVER REGIONS  
IN THE UNITED STATES AND MEXICO

## 15

### HEALTH AND SAFETY IN THE GRAND CANYON-LAKE MEAD REGION

**Issues relating to human health and safety and the well-being of the public and professional community in the Grand Canyon region or on the Colorado River through the Grand Canyon, and on Lake Mead; including items pertaining to accidents and mishap**

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**OVERVIEW.** This part lists items relating to human health, safety, and public well-being in the Grand Canyon National Park and immediate vicinity. Because the waters of Lake Mead encroach upon the lower portion of Grand Canyon, for bibliographical convenience this part is expanded to include all items that relate to public health and safety in the Lake Mead region overall. Included here are human-health studies made during the building of Hoover Dam. However, issues relating to Lake Mead pollution and its attendant concerns are relegated to [Part 11, Section 1](#) of this bibliography. Items pertaining to issues of workplace harassment are included in Part 15. Items pertaining to infrastructure that has direct bearing on the topics of health and safety are included here as well. This part also lists documents on therapeutic programs, mishaps, rescues, accident investigations, missing persons, and cautionary reports by example.

**RELATED MATERIAL**

[PART 3.](#) *THE NEW YORK TIMES* for additional items that relate to this part of the bibliography

[PART 4.](#) MEMORIALS for items reporting the deaths of individuals

[PART 11, SECTION 1.](#) LOWER COLORADO RIVER—SPECIAL ISSUES for occasional publications on health- or safety-related affairs in the greater region of the lower Colorado River below Lake Mead, to Mexico

[PART 17.](#) NATIVE AMERICANS for aspects of health concerns, and of legal litigation relating to human-health research among tribal members, and for reports and studies pertaining to safety responses in the wake of flooding events on Havasu Creek

---

**Also consult the following separately available productions from  
Raven’s Perch Media**

**1956 — A Resource Guide to the Grand Canyon Midair Collision of Trans World Airlines Flight 2 and United Air Lines Flight 718, June 30, 1956.** *2nd Edition* (2025).

5.3 MB, 116 pp.

[https://ravensperch.org/wp-content/uploads/2025/01/1956\\_2nd-ed.pdf](https://ravensperch.org/wp-content/uploads/2025/01/1956_2nd-ed.pdf)

---

[GO TO END OF ANONYMOUS IN THIS PART](#)

## ANONYMOUS

### PUBLICATION DATE NOT SEEN

- 
- \_\_\_\_\_ 15.492 General Aviation works for America. *Avfuel Corporation's Advisor* (Ann Arbor, Michigan), \_\_: 9-10. [Seen only as the article, lacking issue information and date on individual pages.] [See "Grand Canyon National Park", p. 9.]
- 

### PUBLICATION NOT DATED: DATE NOT DETERMINED NOR ESTIMATED

- 
- NO DATE 15.470 Good hydration for outdoor recreation; prevents heat stress dehydration. *Hydration* (Cera Products, Inc., Columbia, Maryland), 7(2): 3. [Includes brief item, "Grand hydration at the Grand Canyon".]
- 

### PUBLICATION NOT DATED: DATE ESTIMATED, ATTRIBUTED, OR KNOWN FROM ORIGINAL RECEIPT

- 
- NO DATE 15.499 A grand adventure. *Well Aware* (Overlook Hospital, Atlantic Health System, Morristown, New Jersey), 1(3): 11. [2006; no date printed in magazine.] [Hannah Attermann hiked to bottom of Grand Canyon after double hip-replacement surgery.]
- 

### DATED PUBLICATIONS, GROUPED BY YEAR

- 
- 1905 15.636 [Note.] *In: Personals* [SECTION]. *Pacific Medical Journal*, 48(4) (April): 216. ["Dr. A. G. Roundville has been appointed house physician and surgeon at Cameron's Hotel in the Grand Canyon, Arizona." (ENTIRE ITEM)] [Cameron Hotel.]
- 
- 1909 15.607 Aeronauts' fate remains unknown. Men who went up in balloon America from Pasadena probably perished. Terrible blizzard raging. Last seen of them was when they disappeared through the clouds of Grand Canyon. If they landed anywhere, small chance of escape—Balloon to be sent out to trace party. *Deseret News*, (March 22): 1 [issue pagination]. [Possibly not Grand Canyon of Arizona.]
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

1910	15.526	Sewage disposal works, Grand Canyon, Arizona. <i>Engineering Record</i> , 61 (January 29): 141.
1910	15.652	Sewage disposal works in Arizona. <i>In</i> : Technical Reviews [SECTION]. <i>Cornell Civil Engineer</i> , 18(5) (February): 188. [Grand Canyon.]
1911	15.530	The Los Angeles meeting. <i>Colorado Medicine</i> , 8(7) (July): 238-239. [See p. 239; mass visit to Grand Canyon, citing "numerous instances" of "heat, hunger and thirst" in tourists taking to trails when insufficient numbers of horses were available.]
1911	15.708	Pointers. <i>The Medical Council</i> (Philadelphia), 16(6) (June): 206. [Includes note, "When you go to Los Angeles take in the Grand Canyon of Arizona on your way back. Horseback on the canyon trails will make you sore for a week."]
1913	15.527	Septic tanks and sewage disposal; as presented by the Committee on Research before the American Society of Inspectors and Sanitary Engineers at the Louisville meeting. <i>Domestic Engineer</i> , 65(11) (December 13) (1096): 330-334. [See p. 332; "a Cameron installation" serving El Tovar and Bright Angel Hotels at Grand Canyon (illustrated).]
1916	15.600	Army hospital trains. <i>In</i> : News Items [SECTION]. <i>The Chicago Medical Reporter</i> (Journal of the Medico-Legal Society, New Series), 38(8) (August 15): 22. ["Negotiations have about been completed by which the army medical corps is to have two hospital trains for service on the border. The trains are to be operated between the field hospitals and a base or general hospital at Grand Canyon, Colo. [ <i>sic</i> ], or some other desirable location."]
1921	15.579	Making national parks safe for democracy. <i>Public Health Nurse</i> , 13(9) (September): 447. [U.S. Public Health Service addressing post-war increases in camping public in national parks; ". . . on May 15th, it sent its first sanitary engineers into Yellowstone, Mount Ranier [ <i>sic</i> ], Yosemite, and Grand Canyon Parks." (SOLE NOTE OF GRAND CANYON)]
1922	15.796	Daylight saving at Boulder Canyon. <i>The Reclamation Record</i> , 13(3) (March): 51. ["In order to carry on the work of making borings at the Boulder Canyon dam site with economy and safety, the time of the camp has been advanced one and one-half hours in order that daylight can be used to advantage in prosecuting this hazardous work in the canyon which has a depth of approximately 2,000 feet at this point. [¶] The volume of water in the river at this point is subject to considerable fluctuation, especially as the spring freshets are due in a few weeks, and arrangements have been made for telegraphing advance notice of the rise in water from Grand Canyon Park about 200 miles farther up the river." (ENTIRE ITEM)]
1924	15.1182	Water supply at Grand Canyon. <i>Santa Fe Magazine</i> , 18(2) (January): 30. [Describes the acquisition and daily transport by rail of "100,000 gallons of fresh spring water" from "Jack Smith and Flagstaff springs".]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

1926	15.732	[Humor.] <i>Stephenson County Farm Monthly</i> (Stephenson County Farm Bureau, Freeport, Illinois), 9(5) (June): 1. [“This seems to be a very dangerous precipe [ <i>sic</i> ],’ remarked the tourist at the Grand Canyon. ‘I wonder that they don’t put up a warning board.’ [¶] ‘Yes,’ answered the guide, ‘it is dangerous. They kept a warning board up for two years, but no one fell over, so it was taken down.” (ENTIRE ITEM)] • [This anecdote, while a work of fiction, is included here for the subject matter relating to safety at Grand Canyon. In fact, the note of Grand Canyon is added in this particular item. This anecdote first appeared, without note of Grand Canyon, in <i>Harper’s Magazine</i> for May 1917 (Volume 134, p. 907), and it was widely repeated in other serials, particularly during 1917 and 1918, sometimes with minor modifications. The one cited here is the only one thus far found to include “Grand Canyon”. The original in <i>Harper’s</i> appears in the “Editor’s Drawer” section under the heading, “Proved Unnecessary”, as follows: “This seems to be a very dangerous precipe,’ remarked the tourist. ‘I wonder that they have not put up a warning-board.’ [¶] ‘Yes,’ answered the guide, ‘it is dangerous. They kept a warning-board up for two years, but no one fell over, so it was taken down.”]
1929	15.427	Sewage reclaimed for industrial use at Grand Canyon National Park. <i>In</i> : News From the Field [SECTION]. <i>American Journal of Public Health</i> , 19 (February): 254.
1930	15.429	Sewage and conservation. <i>In</i> : Editorial Section. <i>American Journal of Public Health</i> , 20 (May): 520-521. [Grand Canyon, see p. 521.]
1930	15.1163	Western Branch, A. P. H. A., meets in Salt Lake City. <i>In</i> : Association News [SECTION]. <i>American Journal of Public Health</i> , 20(7) (July): 765-766. [See p. 765: “One session was devoted to the public health aspect of the Boulder Dam. This is the first time that consideration has been given to this phase of the Boulder Dam project in public meeting and was followed by the preparation of a resolution requesting the Secretary of the Interior to confer with the Surgeon General regarding the entire problem.” (Regarding the resolution, see in October issue this serial, American Public Health Association, Western Branch, 1930, ITEM NO. 15.1162.)]
1931	15.1065	[Overview of deaths on the Hoover Dam project.] <i>Building and Engineering News</i> (San Francisco): 35(34) (August 22): 5.
1934	15.676	Rescue. <i>Time</i> , (May 7):. [“In Grand Canyon, Ariz., when a fractured leg trapped H. W. Moulton in a canyon bottom, rescuers hoisted his stretcher high above their heads, toiled along a river bed for 36 hours, sometimes up to their necks in water, lugged him to safety.” (ENTIRE ITEM)]
1939	15.733	Grand Canyon. <i>In</i> : Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 2(6) (April): 32. [“When they disregarded rangers’ warnings and set down Bright Angel Trail into the Grand Canyon during a February blizzard two tourists met disaster. Casimir Poltark, 22, of Detroit, was caught in the storm 1,000 feet below the rim and froze to death. Desjardins sought refuge in a cave, was removed to a hospital so badly frozen it was feared amputation of his feet would be necessary.” (ENTIRE ITEM)] <span style="color: #800000;">≡</span> CROSS-LISTINGS   CITED » GCNHA Monograph 8: page 1-53

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

1939	15.734	Grand Canyon. <i>In</i> : Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 2(9) (July): 34. ["Berle C. Putnam, Prescott mail carrier, took a postman's holiday. National park officials talked him out of a hike from Bright Angel Point [ <i>sic</i> ] to Lake Mead, 140 miles of unmapped country. Berle compromised by loading a 40 pound sack, set off along the abandoned Grand View trail, to cross over the Tonto plateau and return by Bright Angel." (ENTIRE ITEM)]
1944	15.735	Fliers rescued from Grand Canyon. <i>Desert Magazine</i> , 7(10) (August): 22. [Maurice J. Cruickshank, Charles Goldbloom, and Roy W. Embanks, who parachuted from a distressed Army Air Force bomber over Grand Canyon.]
1947	15.736	Canyon voyager is missing. <i>Desert Magazine</i> , 10(4) (February): 22. [According to Harry L. Aleson, one Charles Roemer, "identified only as a Hungarian engineer" possibly of New York, was running the Colorado River from Lees Ferry in a rubber boat. He was last seen passing the foot of Bright Angel Trail. "His fate remains a mystery."]
1949	15.737	Visitors must be careful. <i>In</i> : Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 12(5) (March): 34. [Eight persons drowned in Lake Mead and the Colorado River during 1948.]
1950	15.738	Rescue by helicopter. <i>In</i> : Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 13(10) (August): 35. [Regarding the downrun through Grand Canyon of the <i>Esmeralda</i> and <i>Hudson</i> . Item credited to <i>Tucson Daily Citizen</i> .]
1951	15.744	Woman leaps from canyon. <i>In</i> : Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 14(14) (December): 25. [Mildred Violet Allen of Pasadena, California, leaped from Maricopa Point. Item credited to <i>Tucson Daily Citizen</i> .]
1953	15.800	Third National Boy Scout Jamboree—Sanitation en route. <i>Morbidity and Mortality Weekly Report</i> (U.S. Public Health Service), 2(35) (September 11): 1. [Includes notice of 35 boys sickened from "very poor" refrigeration facilities in an Army field kitchen train car, at or after leaving Grand Canyon.]
1954	15.745	Lake hazards appear. <i>In</i> : Here and There on the Desert [SECTION]. <i>Desert Magazine</i> , 17(10) (October): 31. [Lower lake level in Lake Mead. Item credited to <i>Las Vegas Review-Journal</i> .]
1955	15.524	Windshield TV screen to aid blind flying. <i>Popular Mechanics Magazine</i> , 103(3) (March): 101. ["Heads-up" type cockpit display. "Eventually the Office of Naval Research and Development expects that the tube will be so perfected that 'a relatively untrained pilot will be able to fly a high-speed jet down the winding Grand Canyon in zero-zero weather and in perfect safety.'" (ENTIRE NOTE)]



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

- 1956 15.1327 Eine schreckliche Flugzeugkatastrophe. *In*: Politisches und anderes [SECTION]. *Schweizer Frauenblatt* (Bern), 35(27) (July 6): [2]. [Grand Canyon air crash.]
- 1956 15.1339 De Suiza a USA en obra de salvameno. *La Nacion* (Santiago, Chile), 40(14,094) (July 7): 1. [United Press radiophoto, with longer legend, showing eight Swiss mountain climbers led by Max Stamfli, arriving in New York en route to Grand Canyon, to aid in recovery efforts following the Grand Canyon air crash.] [In Spanish.]
- 1956 15.677 Painted Desert: 11:31. *Time*, (July 9):. [Air crash.]
- 1956 15.1064 Son haber. *In*: Ulaştırma [SECTION], Kazalar [SUBSECTION]. *Akis* (Haftalık Aktüalite Mecmuası) (Ankara), 3(7)(114) (July 14): 27. [Grand Canyon air crash.] [In Turkish.]
- 1956 15.1 A perilous searching operation. *Life*, 41(3) (July 16): 19-25. [Air crash.]  
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 2: page 100] [CITED» GCNHA Monograph 8: page 7-7]
- 1956 15.1328 [Recovery work at Grand Canyon air crash.] *In*: News At Random [SECTION]. *The Swiss Observer* (Swiss Colony in Great Britain), 41(1279) (August 17): 8457. [“A Swiss team of five, specially trianed in mountain rescue work, flew to the spot where the air disaster occurred in the Grand Canyon to help in rescue work. [¶]Amongst the victims of the disaster is a Swiss, Dr. Albert Vogt-Schoch, Director of the Zurich Insurance Company, in Chicago.” (ENTIRE NOTE)]
- 1956 15.535 Action is needed on air safety. *Life*, 40(3) (July 16): 32. [Editorial.]
- 1956 15.822 Another collision; an editorial. *The AOPA Pilot* (Aircraft Owners and Pilots Association, Washington, D.C.), (September): 50-a to 50-b. [*The AOPA Pilot* is an insert in *Flying*, 59(3) (September).] [Regarding the 1956 Grand Canyon air crash.]
- 1956 15.823 Congress gets AOPA’s views on collision. *The AOPA Pilot* (Aircraft Owners and Pilots Association, Washington, D.C.), (September): 50-b to 50-c. [*The AOPA Pilot* is an insert in *Flying*, 59(3) (September).] [See also ITEM NO. 15.822 (Anonymous).] [Regarding the 1956 Grand Canyon air crash.]
- 1956 15.1326 Sinestres et catastrophes dans le monde. *La Croix-Rouge Suisse* (Berne), 65(6) (September 1): 3-7. [See “Catastrophe aerienne aux Etats-Unis; les deux avions ecrases dans le Grand Canyon” (pp. 3, 5-6).] [Regarding the 1956 Grand Canyon air crash.] [In French.]
- 
- 1957 15.1075 La Garde Aérienne Suisse de Sauvetage. *Revue Internationale de la Croix-Rouge* (Comité International de la Croix-Rouge, Genève), 39(467) (November): 593-601. [1956 Grand Canyon air crash, see pp. 593, 600.] [In French.]
- 
- 1958 15.1050 Accepted ignorance. *College of Universal Wisdom, Proceedings* (Yucca Valley, California), 5(10 (February/March): 10-12. [See pp. 11-12, regarding proposed stronger atomic-bomb tests, seismographic effects of which will endanger the rocks in which Hoover Dam was built. The failure of Hoover Dam will cause also failure of Davis Dam and Parker Dam, with the inundation of the Imperial Valley and the destruction of Indio, California, and other places.] [The college is a “non-sectarian

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

and non-profit organization for para-psycho-physical research” with business and editorial offices at the Van Tassel Ranch, Yucca Valley.]

1961	15.1186	First-aid stretcher improvement. <i>Grist</i> (National Conference on State Parks, with U.S. National Park Service), 5(1) (January/February): 4. [“The Army field stretcher used in many parks may be made considerably more useful and easier to handle by the addition of two rubber casters at one end, says Phillip R. Iversen, Supervisory Park Ranger at Grand Canyon National Park.” For easier loading and unloading of stretcher cases in a vehicle.]
1968	15.195	Radioactivity in surface waters of the Colorado River basin, 1965-1966. <i>Radiological Health Data and Reports</i> , 9(5): 268-271.
1968	15.196	Radioactivity in surface waters of the Colorado River basin, 1967. <i>Radiological Health Data and Reports</i> , 9(12): 752-755.
1969	15.1317	Zion. <i>The Smoke Signal</i> (U.S. National Park Service, Southwest Region, Women’s Organization), (May): [unpaginated]. [“Mr. and Mrs. BRUCE KNUDSEN, U. S. Public Health Service, have moved into the residence at the Grotto Picnic area. Bruce, who has his office located in Zion, is public health consultant for Zion, Bryce, Grand Canyon and Cedar Breaks.” (ENTIRE NOTE)]
1971	15.223	Save your sweat . . . and save your life. <i>In</i> : Niehuis, Charles C. (ed.), <i>Colorado River Adventures : special vacation guide</i> . Phoenix: Colorado River Adventures, 1971-1972 ed., pp. 56-59. [Ellipsis is part of title.]
1973	15.1076	Relapsing fever. Fièvre récurrente. <i>Weekly Epidemiological Record / Relevé Épidémiologique Hebdomadaire</i> (World Health Organization, Geneva), 48(44) (November 2): 419-420. [See “Arizona” (pp. 419-420), pertaining to a case at North Rim of Grand Canyon, July 1973. Based on Luckey <i>et al.</i> (1973, ITEM NO. 15.801), White <i>et al.</i> (1973, ITEM NO. 15.802), Friedlander <i>et al.</i> (1973, ITEM NO. 15.803).] <b>[In parallel English and French texts.]</b>
1974	15.843	Water vital to park. <i>Grand Canyon Sama</i> , 1(1) (April 1-21): 2.
1974	15.2	Relapsing fever, 1973, in Grand Canyon National Park. <i>Clinical Pediatrics</i> , 13(5): 408.
1974	15.229	North Rim free of ticks. <i>Grand Canyon Sama</i> , 1(3) (May 12-26): 2.
1976	15.1333	Swiss Air Rescue; 01/47 47 47. <i>In</i> : Features [SECTION]. <i>The Swiss Observer</i> (Swiss Colony in Great Britain), 62(1719) (Special Issue No. 2/76): 6-8. [Includes note of Swiss Air-Rescue Service role in recovery operations following the 1956 Grand Canyon air crash (p. 6).]
1978	15.724	Lake Mead’s water safety campaign. <i>Courier</i> (U.S. National Park Service), 1(4) (March): 2.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

1978	15.725	Lake Mead NRA, Nev. <i>In</i> : Park briefs [SECTION]. <i>Courier</i> (U.S. National Park Service), 1(5) (April): 11. [Underwater trash collection competitive “ecology dive”.]
1979	15.624	“Retired” physiologist breaks own records. <i>The Physiologist</i> (American Physiological Society), 22(5) (October): 7. (“Reprinted from Medical World News/August 20, 1979.”) [David Bruce Dill. Includes paragraph on early physiological work on workers building Hoover Dam.]
1980	15.726	Grand Canyon NP. <i>In</i> : Park Briefs [SECTION]. <i>Courier</i> (U.S. National Park Service), 3(3) (February): 11. [“A tourist plane crashed here in mid-November and burst into flames minutes after its 44 passengers climbed from the wreck. Eight persons were injured. Many of the passengers were part of a French-speaking tourist group, and the plane was returning to Las Vegas after visiting the canyon. FAA spokesmen said the cause of the Nevada Airlines crash was ‘mechanical failure.’” (ENTIRE ITEM)]
1981	15.727	Grand Canyon NP. <i>In</i> : Park Briefs [SECTION]. <i>Courier</i> (U.S. National Park Service), 4(6) (June): 13. [English tourist, John E. Haftrick, died in a fall from a rock retaining wall.]
1982	15.728	Grand Canyon NP. <i>In</i> : Park Briefs [SECTION]. <i>Courier</i> (U.S. National Park Service), 5(2) (February): 13. [“A jet-driven motor boat carrying three people capsized and sank in the Colorado River Dec. 2. Two of the passengers—Michael Reese and Barbara Theunissen were rescued by park rangers—and a third, Terry Evans was missing and presumed drowned. The three were affiliated with the University of Nevada and were conducting water quality research for the Bureau of Reclamation. A massive search for the missing boatman, including helicopters, boats and ground crews, proved fruitless.” (ENTIRE ITEM)]
1982	15.729	Grand Canyon NP. <i>In</i> : Park Briefs [SECTION]. <i>Courier</i> (U.S. National Park Service), 5(3) (March): 12. [“Phantom Ranch, closed for more than a year, has re-opened to visitors after the installation of a new sewage system. The Arizona Public Health Service ordered the lodge be closed, citing its overloaded and outdated septic system. Many difficulties were encountered in completing the work due to the location of the site at the bottom of the canyon. Heavy equipment, trucks, backhoe and a bulldozer were rafted down the Colorado more than 90 miles to the site. Cement came in by helicopter.” (ENTIRE ITEM)]
1982	15.209	Colorado cleanses kidneyless. <i>American Whitewater</i> , 27(5) (September/October): 8.
1983	15.960	Ranger information and safety. <i>In</i> : Safety [SECTION]. <i>Grist</i> (U.S. National Park Service, and National Recreation and Park Association), 27(4) (Fall): 42. [Regarding receipt and distribution of law enforcement wanted lists at Grand Canyon National Park.]
1985	15.1259	Rangers through history. <i>Ranger</i> (Association of National Park Rangers, Journal), 1(2) (Spring): 14, 22. (“The following is an excerpt from an article entitled ‘Ranger Heroes: The Dignity of Labor,’ which appeared some time in the 1940s (the exact date is not available) in <i>the American Weekly</i> . It was submitted by Bill Binnewies of Big

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

Horn Canyon.”) [Begins with a Grand Canyon incident when “Chief Park Ranger Perry Brown eased himself over the rim of the Grand Canyon to a narrow ledge 20 feet below where Mrs. Dede Johnson lay only a foot or two from a sheer drop of 700 feet . . . .”]

---

1986	15.4	NTSB cites air tour rules in canyon crash. <i>Aviation Week and Space Technology</i> , 126 (March 30): 40. [National Transportation Safety Board.] <span style="color: #A52A2A;">≡</span> CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 12-21]
1986	15.3	Din and death in the Grand Canyon. <i>The Economist</i> (London), 299 (June 28): 29. [Airplane-helicopter collision.] <span style="color: #A52A2A;">≡</span> CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 12-21]
1986	15.678	Collision over the canyon. <i>Time</i> , (June 30):.
1986	15.1235	Grand Canyon. <i>Ranger Activities Information Exchange</i> (U.S. National Park Service), 2(8) (August): 3. [“On June 29th, the park had an apparent homicide/suicide in which a pickup truck was driven 200 yards across country from a road near Desert View Junction and over the canyon rim. The driver made no attempt to brake or reduce speed. The bodies were recovered from a point approximately 1000’ below the rim.” (ENTIRE NOTE)]
1986	15.5	NTSB fixes position of Grand Canyon midair. <i>Aviation Week and Space Technology</i> , 125 (September 15): 34. [National Transportation Safety Board.] <span style="color: #A52A2A;">≡</span> CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 12-21]

---

1987	15.1236	Grand Canyon. <i>Ranger Activities Information Exchange</i> (U.S. National Park Service), 3(7) (July): 3. [“Gasoline leaking from a camper parked at Desert View on June 30th led to a flash fire, second degree burns to the French driver, and total destruction of both his camper and the two campers parked adjacent to him. Damage was estimated at \$60,000 to \$70,000.” (ENTIRE NOTE)]
1987	15.6	Grand Canyon collision. <i>Flying</i> , 114 (September): 22+. [Air traffic control stemming from June 30, 1956, air crash. For details of that accident, see <i>New York Times</i> newspaper records.] <span style="color: #A52A2A;">≡</span> CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 12-21]

---

1988	15.1237	Lake Mead. <i>Ranger Activities Information Exchange</i> (U.S. National Park Service), 4(5) (May “1987” [sic]): 2. [“As a result of the explosion which destroyed the American Pacific rocket fuel plant in Henderson on May 4th, Lake Mead closed all park roads which were in the direct path of the chemical cloud. Once it was learned that the cloud was not toxic, the roads were reopened and employed to route traffic diverted away from Henderson. Three fire trucks and 22 park rangers from Lake Mead were dispatched to provide emergency firefighting, law enforcement and EMS assistance.” (ENTIRE NOTE)]
1988	15.1238	Grand Canyon. <i>Ranger Activities Information Exchange</i> (U.S. National Park Service), 4(5) (May “1987” [sic]): 3. [“A single-engine Cessna 182 overwing aircraft struck the base of trees on the rim at Vista Encantata (8,400 ft. MSL) on May 17th, killing both persons aboard. Wreckage was scattered across the Cape Royal Road. The plane was enroute form Tucson to Page, and had been reported missing on the 17th.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

- Identification found at the scene belonged to pilot Charles Arnold. The passenger was Wesley Frensdorff, an Episcopal minister from Tucson.”]
- 1988 15.1239 Grand Canyon. *Ranger Activities Information Exchange* (U.S. National Park Service), 4(6) (June “1987” [sic]): 1. [“A one-engine fixed-wing aircraft experienced engine failure while flying at 10,500’ en route from Denver to North Hollywood on June 5th. The pilot contacted Grand Canyon tower and was advised to attempt an emergency landing on the East Rim Drive. He landed successfully, but the plane’s wing struck a tree, causing considerable damage to the aircraft. One lane of the road was temporarily closed, but was later reopened.” (ENTIRE NOTE)]
- 
- 1989 15.8 Scenic tours. *Air Progress*, 51 (March): 21.  
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 12-21]
- 1989 15.9 AIDS in the Grand Canyon?? *Grand Canyon River Guides* [newsletter], 2(1) (May): 2-3. [Issue number erroneously marked 2(2).]
- 1989 15.1240 Grand Canyon. *Ranger Activities Information Exchange* (U.S. National Park Service), 5(2) (May): 2. [Deaths. Gisela Elixmann, 34, of Hasbergen Germany, fell from Mohave Point on March 9. About four days later, Yuri Nakata, 22, of Japan fell from Second Trail View on Wet Rim Drive.]
- 1989 15.10 Oh shit. *Grand Canyon River Guides* [newsletter], 2(2) (December): 2.
- 1989 15.11 Huh . . . what did `ya say? *Grand Canyon River Guides* [newsletter], 2(2) (December): 2. [Hearing protection (including Georgie White anecdote). Ellipsis is part of title.] [Submitted by Richard Quartaroli.]
- 
- 1990 15.844 Am. Red Cross Advanced First Aid refresher and CPR classes. *Grand Canyon River Guides* [newsletter], 3(1) (February): 4. [American Red Cross. Cardiopulmonary resuscitation.]
- 
- 1991 15.12 Charting the Grand Canyon. *FAA Aviation News* (Federal Aviation Administration), 30(4): 12-.  
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 12-21]
- 1991 15.13 Booze news. *The News* (Grand Canyon River Guides), 4(2) (Summer): 4.
- 1991 15.14 Outbreak of relapsing fever—Grand Canyon National Park, Arizona, 1990. *Morbidity and Mortality Weekly Report* (U.S. Public Health Service), 40(18) (May 10): 296-297, 303.
- 1991 15.980 Valenta receives lodge valor award: Lake Mead chapter forms. *The Protection Ranger* (Fraternal Order of Police, National Park Rangers Lodges, Lodge 23, Newsletter, Yosemite, California), (June/August): 1. [Notes the formation of the Lake Mead Chapter (Lake Mead National Recreation Area).]
- 1991 15.15 Relapsing fever; outbreak at the Grand Canyon National Park, Arizona, 1990. Fièvre récurrente; flambée dans le parc national du Grand Canyon, Arizona, 1990. *Weekly Epidemiological Record / Relevé Épidémiologique Hebdomadaire* (World Health

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

		Organization, Geneva), 66(35) (August 30): 261-262. [Based on Anonymous (1991, ITEM NO. 15.14).] [In parallel English and French texts.]
1991	15.16	Sex, lies and mental health; a GCRG interview. <i>The News</i> (Grand Canyon River Guides), 4(4) (Fall): 4-6. [Interview with Elena Kirschner, regarding "Health Needs Assessment and Demographic Questionnaire for Grand Canyon River Guides".]
1992	15.845	First aid and CPR. <i>The News</i> (Grand Canyon River Guides), 5(1) (Spring) (Interim Edition): 3. [Courses.]
1992	15.846	First aid. <i>The News</i> (Grand Canyon River Guides), 5(4) (Fall): 26. [Course.]
1993	15.853	First aid. <i>The News</i> (Grand Canyon River Guides), 6(1) (Winter 1992/1993): 20. [Course.]
1993	15.17	Day tripper. <i>The News</i> (Grand Canyon River Guides), 6(1) (Winter 1992/1993): 30.
1993	15.18	Na na na na na na na na na na na na na na . . . Scatman! <i>The News</i> (Grand Canyon River Guides), 6(1) (Winter 1992/1993): 30. [Ellipsis is part of title.] [NOTE: The "na's" are meant to be sung to the theme song of the 1960s television show, "Batman". The song does begin and is nearly entirely, "Na na . . ."; in fact, the only words of the entire theme song, repeated, are "Na na . . . Batman!" I thought you of the future would like to know a little bit of contemporary humor, such as it is. —E.E.S.]
1993	15.19	Potty humor. <i>The News</i> (Grand Canyon River Guides), 6(2) (Summer): 20.
1993	15.20	Piddle. <i>The News</i> (Grand Canyon River Guides), 6(3) (Late Summer): 17.
1993	15.21	Wuddyathink? <i>The News</i> (Grand Canyon River Guides), 6(4) (Fall): 23. [Comments on water quality and backcountry waste.]
1993	15.22	Fatal canyon crashes prompt air tour safety concerns. <i>Aviation Week and Space Technology</i> , 139 (December 6): 58-59.
1994	15.23	First aid. <i>The News</i> (Grand Canyon River Guides), 7(1) (Winter 1993/1994): 11.
1994	15.24	Patty wins. <i>The News</i> (Grand Canyon River Guides), 7(1) (Winter 1993/1994): 11. [Soap dispensers at Lees Ferry.]
1994	15.520	Visiting the Grand Canyon can kill you! <i>Weekly World News</i> , (April 5): 29. [Falls.]
1994	15.25	Flu-ing with the river. <i>High Country News</i> , (September 5): 4.
1995	15.26	Plane crash, new rules fuel overflights debate. <i>National Parks</i> , 69 (May/June): 20.
1996	15.919	The Whale Foundation. <i>Boatman's Quarterly Review</i> , 9(2): 10. [Mental health-service foundation for members of the boating community.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

1996	15.27	Drug testing, lawsuits and rumor control. <i>Boatman's Quarterly Review</i> , 9(4): 12.
1996	15.28	Safety first. <i>Canyon Views</i> (Grand Canyon Association), 11(4): 4. [Backcountry hiking safety. Also brief memorial to John Holforty.]
1997	15.847	Swiftwater rescue. <i>Boatman's Quarterly Review</i> , 10(1): 53. [Note of swiftwater rescue course at Lees Ferry. Issue "Winter 1996-1997" mailed February 1997.]
1997	15.848	An accident on Bright Angel Trail. <i>In: Pioneer Footprints</i> [SECTION]. <i>The Ol' Pioneer</i> (Grand Canyon Pioneers Society, Newsletter), 8(4): 2. [Recounting accident on January 21, 1921.]
1997	15.29	Cool idea. <i>The Waiting List</i> (Grand Canyon Private Boaters Association), 1(3) (April): 6. [Food handling.]
1997	15.30	Deep schist. <i>Boatman's Quarterly Review</i> , 10(3): 5. [Item signed "G.A.G. (Guides Against Grossness)".]
1997	15.1180	Stor redningsaksjon. <i>NHF nytt</i> (Norsk Helikopteransattes Forbund, Sola, Norge), 8(4): 5. [Brief news item regarding two UH-60 National Guard helicopters and four private aircraft used to evacuate 400 people from Supai, Havasupai Indian Reservation, following floods.] <i>[In Norwegian.]</i>
1998	15.31	Unlikely angel. <i>Boatman's Quarterly Review</i> , 11(1) (Winter 1997-1998): 31. [Rescue at Havasu Creek.] [Issue mailed late January or early February, 1998.]
1998	15.32	NPS emergency radio. <i>Boatman's Quarterly Review</i> , 11(1) (Winter 1997-1998): 48. [Issue mailed late January or early February, 1998.]
1998	15.849	Food handlers unite! <i>Boatman's Quarterly Review</i> , 11(1) (Winter 1997-1998): 48. [Issue mailed late January or early February, 1998.]
1998	15.33	Hiker safety video. <i>Canyon Views</i> (Grand Canyon Association), 4(1) (Spring): 4.
1998	15.811	Phoenix composting toilet sets new standard. <i>Environmental Building News</i> , 7(6) (June):. [Includes Grand Canyon.]
1998	15.477	West—Arizona. <i>In: Water Supply Across the USA</i> [SECTION]. <i>Waterline</i> (Minnesota Department of Health), 6(1) (Summer): 5. [Features Grand Canyon water supply.]
1999	15.850	Wilderness first aid courses 2000. <i>Boatman's Quarterly Review</i> , 12(4) (Winter): 27. [Announcement.]
1999	15.34	[Comments.] <i>In: Shigellosis, Giardia, and dehydration</i> [FEATURE]. <i>The Waiting List</i> (Grand Canyon Private Boaters Association), 3(1) (February): 25. [Item signed "Kestrel"; "compiled from <a href="mailto:gcboaters@songbird.com">gcboaters@songbird.com</a> ".]
1999	15.35	Fly a little lower, will ya? I want to get a shot of the ledge hole. <i>Boatman's Quarterly Review</i> , 12(3) (Summer): 13. [Illegal overflight.]



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

1999	15.167	Going with the flow; identifying appropriate health programs for Colorado River runners. <i>Coconino County, Report to Citizens</i> , (November): 8.
1999	15.851	Spring 2000—wilderness advanced first aid course to be offered by GCRG. <i>The Waiting List</i> (Grand Canyon Private Boaters Association), 3(4) (December): 7.
<hr/>		
2000	15.177	[Comments.] <i>In</i> : Off the internet: From gcpba@egroups.com [FEATURE]. Helicopter rescues . . . Are they appropriate in a wilderness? <i>The Waiting List</i> (Grand Canyon Private Boaters Association), 4(1) (Spring): 10. [Item signed "Boater". Ellipsis is part of title.]
2000	15.178	[Comments.] <i>In</i> : Off the internet: From gcpba@egroups.com [FEATURE]. Helicopter rescues . . . Are they appropriate in a wilderness? <i>The Waiting List</i> (Grand Canyon Private Boaters Association), 4(1) (Spring): 10. [Item signed "Gary". Ellipsis is part of title.]
2000	15.179	[Comments.] <i>In</i> : Off the internet: From gcpba@egroups.com [FEATURE]. Helicopter rescues . . . Are they appropriate in a wilderness? <i>The Waiting List</i> (Grand Canyon Private Boaters Association), 4(1) (Spring): 10. [Item signed "Charlie -()->". Ellipsis is part of title.]
2000	15.197	Fateful Journey: Injury and Death on Colorado River Trips in Grand Canyon <i>The Waiting List</i> (Grand Canyon Private Boaters Association), 4(2) (Summer): 5-6. [Book announcement. Originally distributed electronically via <i>gcpba Newswire</i> , April 7, 2000.]
2000	15.781	County park solves restroom problem. <i>Pipeline</i> (National Small Flows Clearinghouse, Morgantown, West Virginia), 11(3) (Summer): 5. ("Portions of this material were taken from an article in the may 22, 1999, <i>St. Louis Post-Dispatch</i> .) [Quail Ridge Park, St. Charles County, Missouri. Notes that "[Curt] Loupe heard from other park directors and employees from around the country that they had encountered 'the cleanest, neatest restrooms they had ever been in at the Grand Canyon National Park.'" (No further mention of Grand Canyon).]
2000	15.198	Boat naked. <i>Boatman's Quarterly Review</i> , 13(3) (Fall): 43.
2000	15.898	Local clinic offers medical services to Canyon visitors. <i>In</i> : <i>Grand Canyon-Tusayan tourist guide : your guide to what's going on at Grand Canyon and Tusayan : fun at the canyon : Fall 2000</i> . Williams, Arizona: Williams-Grand Canyon News, p. 13.
2000	15.899	Use caution when hiking into Canyon; it can be lot [sic] of fun but can be dangerous. <i>In</i> : <i>Grand Canyon-Tusayan tourist guide : your guide to what's going on at Grand Canyon and Tusayan : fun at the canyon : Fall 2000</i> . Williams, Arizona: Williams-Grand Canyon News, p. 17.
2000	15.203	Search and rescue at the Grand Canyon. <i>The Bulletin</i> (Grand Canyon Pioneers Society), 4(12): 1-2.
<hr/>		
2001	15.210	Injury report. <i>In</i> : River Runner Hot Line [SECTION]. <i>Paddler</i> , (March/April): 54.



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

- |      |        |   |
|------|--------|---|
| 2001 | 15.590 | On the Record [SECTION]. <i>Flying</i> , 128(4) (April): 90-93. [See p. 93, "Cessna T210N, Grand Canyon, Arizona". Excerpt from National Transportation Safety Board report regarding fatal general aviation accident; date not indicated.] |
| 2001 | 15.224 | Spring evacuations keep NPS rescue copter busy. <i>The Waiting List</i> (Grand Canyon Private Boaters Association Quarterly), 5(2) (Summer): 22. ["Gathered from NPS Morning Report".]  |
| 2001 | 15.225 | Dangerous parks. <i>High Country News</i> , 33(16) (August 27): 15.   |
| 2001 | 15.230 | Hikers need to use caution at GC. <i>In: Grand Canyon Tusayan guide : Fall/Winter edition</i> . Williams, Arizona: Williams-Grand Canyon News, p. 15.   |
| 2001 | 15.231 | Clinic serves GC-Tusayan; no appointments needed at walk-in clinic in park. <i>In: Grand Canyon Tusayan guide : Fall/Winter edition</i> . Williams, Arizona: Williams-Grand Canyon News, p. 19.   |
- 
- |      |        |  |
|------|--------|--|
| 2002 | 15.900 | Hikers need to use caution at GC. <i>In: Grand Canyon Tusayan guide : Spring 2002</i> . Williams, Arizona: Williams-Grand Canyon News, p. 15.  |
| 2002 | 15.901 | Medical services; no appointments needed at clinic. <i>In: Grand Canyon Tusayan guide : Spring 2002</i> . Williams, Arizona: Williams-Grand Canyon News, p. 19.  |
| 2002 | 15.902 | Fire restrictions enforced at Canyon; visitors asked to please help protect the forest by following all rules. <i>In: Grand Canyon Tusayan guide : Summer 2002</i> . Williams, Arizona: Williams-Grand Canyon News, p. 8.  |
| 2002 | 15.281 | [Comment.] <i>In: Helicopter rescues . . . Are they appropriate in a wilderness? The Waiting List</i> (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 24. [Item signed "Charlie". From gcpba@yahoo.com; ellipsis is part of feature title.] [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.] |
| 2002 | 15.852 | An accident on Bright Angel Trail. <i>The Ol' Pioneer</i> (Grand Canyon Pioneers Society), 13(4) (October/December): 6. [Event in 1921.]   |
| 2002 | 15.291 | Whale Foundation liaison program and list. <i>Boatman's Quarterly Review</i> , 15(4) (Winter 2002-2003): 9.  |
| 2002 | 15.292 | The First Annual Whale Foundation Wingding. <i>Boatman's Quarterly Review</i> , 15(4) (Winter 2002-2003): 9.   |
| 2002 | 15.294 | Norwalk talk. <i>Boatman's Quarterly Review</i> , 15(4) (Winter 2002-2003): 17. [Norwalk-like virus.]  |
| 2002 | 15.301 | <i>Community fact sheet : Orphan Mine site</i> . U.S. National Park Service, Grand Canyon National Park, 2 pp.   |
- 
- |      |        |  |
|------|--------|--|
| 2003 | 15.753 | Arizona health issues. <i>In: Infectious Disease News [SECTION]. Prevention Bulletin</i> (Arizona Department of Health Services, Bureau of Epidemiology and Disease Control Services), 17(2) (March/April): 2. [Includes notice of outbreak of Norwalk-like virus infection during a Colorado River trip in Grand Canyon.] |
|------|--------|--|

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

2003	15.307	Depression and my life. <i>Boatman's Quarterly Review</i> , 16(3) (Fall): 14.
2003	15.309	The Whale Foundation Hotline Q & A (why haven't you called?). <i>Boatman's Quarterly Review</i> , 16(3) (Fall): 15-16.
2003	15.317	Hikers need to use caution at GC. <i>In: Grand Canyon Tusayan guide : Fall 2003</i> . Williams, Arizona: Williams-Grand Canyon News, p. 9.
2003	15.318	Park Service offers tips for visitors. <i>In: Grand Canyon Tusayan guide : Fall 2003</i> . Williams, Arizona: Williams-Grand Canyon News, p. 15.
2003	15.319	Medical services; no appointments needed at clinic. <i>In: Grand Canyon Tusayan guide : Fall 2003</i> . Williams, Arizona: Williams-Grand Canyon News, p. 19.
<hr/>		
2004	15.458	Topics; August-October 2003. <i>Japan Railway and Transport Review</i> , 38: 68-69. [See p. 69, "20 September—Sightseeing helicopter crashed into western side of Grand Canyon in USA, killing all seven passengers and crew." (ENTIRE NOTE)]
2004	15.338	First aid options. <i>Boatman's Quarterly Review</i> , 17(4) (Winter 2004-2005): 43. [See also Correction, 18(1) (Spring): 7.]
2004	15.339	Wilderness first aid courses 2005: Sponsored by Grand Canyon River Guides; Desert Medicine Institute (Dr. Tom Myers and Dr. Michelle Grua). <i>Boatman's Quarterly Review</i> , 17(4) (Winter 2004-2005): 44.
2004	15.340	The new kids on the WFR block. <i>Boatman's Quarterly Review</i> , 17(4) (Winter 2004-2005): 45. [Desert Medicine Institute.]
<hr/>		
2005	15.363	Proper groover transportation. <i>In: Stephenson, R. J. (ed.), Grand groover chronicles; how's it going? [FEATURE]. The Waiting List</i> , 7(2) (Winter): 53. [Item signed "Wayne".]
2005	15.364	Good times. <i>In: Stephenson, R. J. (ed.), Grand groover chronicles; how's it going? [FEATURE]. The Waiting List</i> , 7(2) (Winter): 53. [Item signed "Becky".]
2005	15.365	Groover justice. <i>In: Stephenson, R. J. (ed.), Grand groover chronicles; how's it going? [FEATURE]. The Waiting List</i> , 7(2) (Winter): 53. [Item signed "Alan".]
2005	15.502	Pertussis in Coconino County. <i>Epi News</i> (Coconino County Health Department), (Winter): [1].
2005	15.1312	N3895D. <i>In: Aviation [SECTION]. Lloyd's Casualty Week</i> (Lloyd's Marine Intelligence Unit, Colchester, Essex, United Kingdom), (May 13): 29. [Monarch Enterprises Bell 206L-1 struck tail and rotors during descent while long-lining sling loads to bottom of Grand Canyon; substantial damage.]
2005	15.466	100 stricken with food sickness. <i>International Travel Insurance Journal</i> , (58) (November): 17.
2005	15.752	Aircraft crash, Grand Canyon, Arizona, United States. <i>In: Awards and Settlements [SECTION]. Lloyd's Casualty Week</i> (Lloyd's Marine Intelligence Unit, Colchester, Essex,

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

United Kingdom), (December 30): 29. [Woman who survived Grand Canyon helicopter sightseeing air crash, August 10, 2001, in terms of settlement with Papillon Grand Canyon Helicopters, Las Vegas, Nevada.]

---

2006	15.368	Wilderness first aid courses 2006; sponsored by Grand Canyon River Guides; Desert Medicine Institute (Dr. Tom Myers and Dr. Michelle Grua). <i>Boatman's Quarterly Review</i> , 19(1) (Spring): 45.
2006	15.516	Colorado River recreational water monitoring. <i>The WADO Report</i> (U.S. Indian Health Service, Office of Environmental Health and Engineering, Western Arizona District Office), 1(1) (April): 6. [Brief note; five sites sampled for waterborne bacteria and viruses, including sample sites at Diamond Creek and Quartermaster.]
2005	15.1313	N270SH. <i>In</i> : Wildfires, United States [SECTION]. <i>Lloyd's Casualty Week</i> (Lloyd's Marine Intelligence Unit, Colchester, Essex, United Kingdom), (September 15): 27. [Jury awards \$3.2 million in damages to Ikuko Hatano, whose daughter, Makiko, died in a September 20, 2003, crash of a Sundance Helicopters AS 350BA (Ecureuil) helicopter, as the result of reckless flying by the pilot, Takashi Mezaki.]
2006	15.478	[Note about 1956 airliner collision over Grand Canyon.] <i>In</i> : Hangar Flying [SECTION]. <i>The Aileron</i> (Southern California Aeronautic Association), (August/September): 7.
2005	15.1314	[News note.] <i>In</i> : Aviation [SECTION]. <i>Lloyd's Casualty Week</i> (Lloyd's Marine Intelligence Unit, Colchester, Essex, United Kingdom), (July 7): 27. [Wildfire on North Rim closes roads in the national park and strands "an unknown number of tourists".]
2006	15.389	Wilderness first aid courses 2007 sponsored by Grand Canyon River Guides; Desert Medicine Institute (Dr. Tom Myers and Dr. Michelle Grua). <i>Boatman's Quarterly Review</i> , 19(4) (Winter 2006-2007): 46.
2006	15.498	In top shape; structural integrity of small airplanes. <i>R&amp;D Review</i> (U.S. Federal Aviation Administration), 2006(3): 20.

---

2007	15.400	Park Service offers tips for visitor safety; caution can mean the difference between a memorable time and tragedy. <i>In</i> : <i>Grand Canyon Tusayan guide : Summer 2007</i> . Williams, Arizona: Williams-Grand Canyon News, p. 6.
2007	15.818	Protecting Mother Nature; saving lives. <i>The Rock</i> (Slippery Rock University, Slippery Rock, Pennsylvania), 9(1) (Fall): 16-17. [Annie Callanian Petersen, '03, park ranger at Grand Canyon National Park.]
2007	15.591	Puffy jackets. <i>In</i> : Gear [SECTION]. <i>Backpacker</i> , 35(8) (October): 92. [Product reviews. See under "Synthetic", review of "REI Spruce Run" jacket, tested "on a weeklong [sic] spring hike in the Grand Canyon".]
2007	15.515	Plague causes death of national park employee; adapted from Grand Canyon National Park, News Release, November 16, 2007. <i>Zoonotic Disease Newsletter</i> (Washington State Department of Health), 1(11) (November): 5.

---

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

- 2008 15.410 HHS honors people making a difference in the lives of persons with disabilities. *Grand Canyon River Runner*, (6) (Spring): 13. [U.S. Department of Health and Human Services.]
- 2008 15.875 1956 年グランドキャニオンでの空中衝突 [1956-nen gurandokya ni on de no kūchū shōtotsu] [1956 aerial collision at the Grand Canyon]. *ALPA Japan News* (日本乗員組合連絡会議 / Air Line Pilots' Association of Japan, Tokyo), No. 31-36 (April 22): [1]-[2]. [Regarding the 1956 airline crash in Grand Canyon.] [In Japanese, with serial title in English, thus.]
- 2008 15.416 MRSA information. *Boatman's Quarterly Review*, 21(2) (Summer): 16. [Methicillin-Resistant *Staphylococcus aureus*.]
- 2008 15.474 Night time boating on Lake Mead can be dangerous. *The Aggregate* (Wells Cargo, Inc., Las Vegas), 19(5) (August):.
- 2008 15.496 Quality assurance programs sought. *In*: Safety News [SECTION]. *Aerosafety World* (Flight Safety Foundation), 3(8) (August): 9.
- 2008 15.497 [Quality assurance programs sought.] *In*: [Safety News] [SECTION]. *Aerosafety World* (Flight Safety Foundation) [Japanese ed.], 3(8) (August): 9. [In Japanese.]
- 2008 15.419 Clinic offers local services. *In*: *Grand Canyon and Tusayan guide : Fall 2008*. Williams, Arizona: Williams-Grand Canyon News, p. 5
- 2008 15.420 Assistance offered for visitors with disabilities. *In*: *Grand Canyon Tusayan guide : Fall 2008*. Williams, Arizona: Williams-Grand Canyon News, p. 9.
- 2008 15.421 Caution can prevent vacation tragedy. *In*: *Grand Canyon Tusayan guide : Fall 2008*. Williams, Arizona: Williams-Grand Canyon News, p. 28.
- 2008 15.422 Vehicles and animals don't mix. *In*: *Grand Canyon Tusayan guide : Fall 2008*. Williams, Arizona: Williams-Grand Canyon News, p. 29.
- 2008 15.423 Avoiding a run-in. *In*: *Grand Canyon Tusayan guide : Fall 2008*. Williams, Arizona: Williams-Grand Canyon News, p. 29. [Animal-vehicle collisions.]
- 2008 15.425 Wilderness first aid courses 2009 sponsored by Grand Canyon River Guides; Desert Medicine Institute (Dr. Tom Myers and Dr. Michelle Grua). *Boatman's Quarterly Review*, 21(4) (Winter 2008-2009): 41.
- 2008 15.448 New ARFF truck to enhance safety at GCN. *Arizona Airways* (Arizona Department of Transportation, Aeronautics Division), 1(1) (December): 1, 3. [Aircraft Rescue and Fire Fighting truck at Grand Canyon National Park Airport.]
- 2008 15.696 Networking and pro-active maintenance prevents an accident. *AirWard News* (Safe Attitude: U.S. Department of Agriculture, Forest Service, and U.S. Department of the Interior, Aviation Management), (January/December): 3. [Richard Gibson, Papillon Grand Canyon Helicopters mechanic, Safe Attitude AirWard recipient.]
- 
- 2009 15.495 Igor I. Sikorsky Award for Humanitarian Service; Grand Canyon National Park Helitack, Papillon Grand Canyon Helicopters, Grand Canyon, Arizona. *In*: "Salute to

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

- Excellence” 2009; HAI’s 48th annual awards celebration. *Rotor* (Helicopter Association International), (Spring): 57.
- 2009 15.517 Grand Canyon NP helitack and search and rescue crew receives Igor I. Sikorsky Humanitarian Service Award. *Burning Issues* (National Interagency Fire Center, Boise, Idaho), (Spring): 4-5.
- 2009 15.824 Grand Canyon NP staff receive humanitarian service award. *In: Kudos and Awards [SECTION]. Arrowhead* (U.S. National Park Service, Employees and Alumni Association), 16(2) (Spring): 4. [Igor I. Sikorsky Humanitarian Service Award to Grand Canyon National Park helitack and search and rescue crew, in recognition of efforts in rescuing 16 boaters stranded on Colorado River, August 17, 2008.]
- 2009 15.506 Air disaster recognized for contributions 52 years later. *Babbitt Times Review* (Babbitt Ranches), (July): 12. [1956 air crash in Grand Canyon.]
- 2009 15.479 Odor alert: Bacteria at work. *The Primer* (U.S. Department of Energy, Office of Science, Joint Genome Institute), 6(2) (Fall): 7. [*Desulfovibrio* anaerobic bacteria proposed as groundwater additive for Orphan Mine drainage, to discourage drinking.]
- 2009 15.762 Grand Canyon West Airport takes flight. *Integrated Water Services, Inc.* (Avon, Colorado), (Fall): 10. [Regarding construction of onsite wastewater facility.]
- 
- 2010 15.560 Clinic offers local services. *In: Grand Canyon Tusayan guide : Spring 2010.* Williams, Arizona: Williams-Grand Canyon News, p. 5. [North Country Community Health Care, at Grand Canyon.]
- 2010 15.561 Vehicles and animals don’t mix. *In: Grand Canyon Tusayan guide : Spring 2010.* Williams, Arizona: Williams-Grand Canyon News, p. 13.
- 2010 15.903 Clinic offers local services; X-ray, pharmacy, massage therapy and chiropractic services available. *In: Grand Canyon Tusayan visitors guide : Fall 2010.* Williams, Arizona: Grand Canyon News, p. 5.
- 2010 15.904 Vehicles and animals don’t mix; a wildlife encounter everyone wants to avoid. *In: Grand Canyon Tusayan visitors guide : Fall 2010.* Williams, Arizona: Grand Canyon News, cover, p. 13.
- 2010 15.575 Airport Pavement Management System (APMS) 2011 preservation projects. *Prop Wash!* (Arizona Department of Transportation, Multimodal Planning Division, Aeronautics Group), 2(1) (December 31): 3. [Grand Canyon National Park Airport listed among “confirmed participants” for projects.]
- 
- 2011 15.770 Grand Canyon Active Trails Program. *Pinyon Press* (Xanterra South Rim, L.L.C., Grand Canyon), 2011(16) (August 10): 7.
- 2011 15.771 Beware of elk during the rutting season. *Pinyon Press* (Xanterra South Rim, L.L.C., Grand Canyon), 2011(20) (October 5): 9.
- 2011 15.772 The Xanterra Heroes award. *Pinyon Press* (Xanterra South Rim, L.L.C., Grand Canyon), 2011(23) (November 16): 8. [Visitor health and safety interaction awards presented to Xanterra employees Jaime Zabala, Ed Plumber, and Dale Ehrich.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

2011	15.773	GRCA rabies alert. <i>Pinyon Press</i> (Xanterra South Rim, L.L.C., Grand Canyon), 2011(26) (December 28): 9. [Two gray fox in Grand Canyon test positive for “rabies (bat strain)”].
2011	15.701	[Papillon Helicopters and Grand Canyon Airlines using spidertracks aircraft tracking system.] <i>Police Aviation News</i> (Special Edition—Heli-Expo 2011): 24.
2011	15.660	<i>Oral rabies vaccination program. Project scoping.</i> U.S. National Park Service, NPS Units in AZ/NM, 4 pp. [Includes Grand Canyon National Park, [Grand Canyon-] Parashant National Monument, Pipe Spring National Monument.]

---

2012	15.758	Radiation exposure. <i>Orthotown Magazine</i> , (January/February): 56. (Graph created by Brad Milde, Blake Hillstead, Ryan Bullen, Shruti Oruganti, Tien Srisurapol, and Trent Cox.) [Regarding dental exposure rates. Graph of comparative typical exposure levels notes in part, “One day visit to Grand Canyon.”]
2012	15.774	Firefighter education program visits daycare. <i>Pinyon Press</i> (Xanterra South Rim, L.L.C., Grand Canyon), 2012(6) (March 21): 9. [Xanterra Fire and Security firefighters provide education classes at Kaibab Learning Center.]
2012	15.982	When parks turn fatal. <i>National Geographic</i> , (May): 26. [Lake Mead National Recreation Area most deadly, 2007-2011; Grand Canyon and Yellowstone National Parks tied for second place; Glen Canyon National Recreation Area, fourth.]
2012	15.775	Fire safety: Evacuation procedures. <i>Pinyon Press</i> (Xanterra South Rim, L.L.C., Grand Canyon), 2012(11) (May 30): 1, 5. [Grand Canyon community.]
2012	15.629	Tolio update. <i>Boatman’s Quarterly Review</i> , 25(3) (Fall): 12.
2012	15.761	Monthly program. <i>The Bulletin</i> (Southern Arizona Hiking Club, Tucson), 54(12) (September 22-October 19): 9. [Announcement for September 18 presentation by Tom McDonald, “Life, Death, and Redemption in the Grand Canyon”, who was stranded for two days at the bottom of the Lava Falls route at Toroweap, and “in spite of his route-finding incompetence, his training as a physiologist ultimately saved his life.”]

---

2013	15.885	Re: Arizona—southern. <i>eNTS</i> (Native Tree Society), 3(1) (January): 235-236. [Item byline is “Don”; communicated by email; in reply to the item by “tsharp”, pp. 199-203 (Anonymous, 2013, <a href="#">ITEM NO. 2.24651</a> ).] [Includes comments on hiking to and sleeping at Phantom Ranch in summer heat.]
2013	15.1035	Virtual (remote) search planning. <i>Mountain Rescue</i> (Mountain Rescue England and Wales, Penrith, Cumbria, England), (43) (January): 61. [Summary of a presentation by Dan Hourihan. Regarding the use of Google Earth Pro online resources during a search for a 16-year old male who attempted to hike in hot weather from Henderson, Nevada, to the Colorado River and then swim across the river. The boy was found dead on the Arizona side of the river after a likely search area was identified by using Google Earth to “fly” over the area.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

2013	15.778	Shelby Marshall receives Hero Award. <i>Pinyon Press</i> (Xanterra South Rim, L.L.C., Grand Canyon), 2013(6) (March 20): 5. [Xanterra corporate award for early work on reducing a fire in Bright Angel Lodge fireplace chimney.]
2013	15.699	[News item.] <i>In</i> : Workforce Management [SECTION]. <i>Arizona Fish and Wildlife Conservation Office, Accomplishment Report</i> , (April): 4. [“Randy Van Haverbeke worked with USGS staff on aviation training and safety for all Grand Canyon projects. As part of this work Randy completed and distributed the final version of the Project Aviation Safety Plan to our cooperators (AGFD, USGS, NPS, and Regional Aviation Managers).” (ENTIRE NOTE)] [Arizona Game and Fish Department; U.S. Geological Survey, U.S. National Park Service.]
2013	15.730	From the American History Museum; life preserver worn by Major John Wesley Powell during exploration of the Green and Colorado Rivers, 1869. <i>Boatman’s Quarterly Review</i> , 26(4) (Winter 2013-2014): 48. [Smithsonian Institution.]
2013	15.790	By God’s grace. <i>In</i> : Driver Stories [SECTION]. <i>The Mile Marker</i> (Compass Coach, Cedar Springs, Michigan), (2) [October?]: [3]. [Regarding a bus passenger’s medical emergency while driving on the Kaibab Plateau toward North Rim. Driver Bob VanDenBrink.]
2014	15.1144	Monsoon season safety tips for visiting Grand Canyon. <i>Southern Utah News</i> (Kanab), 82(49) (July 24): 13.
2014	15.1145	Two bats tested positive for rabies in Grand Canyon National Park. <i>Southern Utah News</i> (Kanab), 82(49) (July 24): 13. [Tusayan Museum and North Kaibab Trail.]
2015	15.984	Missing 5-year-old boy in Arizona. <i>SAR Dog News</i> (National Search Dog Alliance), 9(8) (August): 7. [Regarding Jerald Joseph William of Colorado City, Arizona, who went missing while “chasing grasshoppers” at remote campsite near Jacob Lake, Arizona. Includes “Update”, noting without details the recovery of the boy’s body.] [Search and Rescue.]
2015	15.836	Hike smart. <i>Canyon Views</i> (Grand Canyon Association), 22(3) (Fall): 4.
2015	15.1102	Landia chopper pumps head to Grand Canyon. <i>In</i> : Departments: Projects and Developments [SECTION]. <i>Arab Water World / عالم المياه العربي</i> (CPH World Media s.a.r.l., Beirut, Lebanon) (بيروت، لبنان), 38(9) (September): 62 (see also photo of Grand Canyon, p. 55).] [Firm’s chopper pumps to be installed in South Rim Wastewater Treatment Plant, Grand Canyon.] [In English, with serial title and publisher’s information also in Arabic.]
2015	15.895	Rope access then (Hoover Dam—1930s) . . . and now (Grand Canyon Skywalk 2015). <i>ADOSH Advocate</i> (Arizona Division of Occupational Safety and Health), 4 (October/December): 1, 19. [Grand Canyon Skywalk, Hualapai Indian Reservation.] [Ellipsis is part of title.]
2015	15.905	Tribute to a tragedy. <i>Grand Canyon Journal</i> , 2015: 27. [Dedication of 1956 air crash site as a National Historic Landmark.]



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

- |      |        |  |
|------|--------|--|
| 2016 | 15.865 | Arizona numero uno in materia di servizi alle persone con disabilità. <i>In</i> : La Ricerca [SECTION]. <i>SuperAbile INAIL</i> (Istituto Nazionale per l'Assicurazione contro gli Infortuni sul Lavoro, Roma), (February): 7. [Briefly notes a report by United Cebal Palsy placing Arizona and Grand Canyon first in accessibility to people with disabilities.] [In Italian.] |
| 2016 | 15.874 | How do viruses spread and where do they hide? <i>Boatman's Quarterly Review</i> , 29(1) (Spring): 16.  |
| 2016 | 15.996 | Cave of the Domes reopened in Grand Canyon National Park. <i>Western Outdoor Times</i> , 12(2) (June): 12-13. [The cave had been closed for investigation of a possible source of hantavirus pulmonary syndrome exposure.]   |
| 2016 | 15.887 | U.S. Geological Survey develops approach to assess baseline chemical and radiological conditions prior to uranium mining near Grand Canyon National Park. <i>GeoHealth Newsletter</i> (U.S. Geological Survey), 13(1) (August 2): [unpaginated]. [Online.]   |
- 
- |      |         |   |
|------|---------|---|
| 2017 | 15.1031 | Un turista ebrio cruza nadando la Presa de Hoover. <i>In</i> : Noticias Internacionales [SECTION]. <i>Boletín SPANCOLD / SPANCOLD Newsletter</i> (Comité Nacional Español de Grandes Presas, International Commission on Large Dams/Commission Internationale des Grands Barrages), 5(3) (13): 29. (Issue: <i>Monográfico de la 85ª Reunión Anual de ICOLD, ICOLD-CIGB, Prague, 2017.</i> ) [Regarding an inebriated Welsh tourist swimming near the intake towers at Hoover Dam. Item credited to www.reviewjournal.com (i.e., <i>Las Vegas Review-Journal</i> newspaper).] [In Spanish, with bilingual serial title.] |
|------|---------|---|
- 
- |      |        |   |
|------|--------|---|
| 2018 | 15.998 | This summer, hike smart! <i>Canyon Views</i> (Grand Canyon Association), 25(2) (Summer): 6. |
|------|--------|---|
- 
- |      |         |  |
|------|---------|--|
| 2019 | 15.1094 | United-TWA collision over Grand Canyon. <i>RUPAnews</i> (Retired United Pilots Association), 22(3) (March): 33. [Regarding the 1956 air collision.]  |
| 2019 | 15.1062 | Ala Stanford. <i>In</i> : News from SBAS Women in Surgery Committee [SECTION]. <i>The Society of Black Academic Surgeons, Newsletter</i> (SBAC Membership Committee), (5) (Spring): [2]. ["Ala Stanford, MD, FAAP, FACS was responsible handling ATLS [Advanced Trauma Life Support] for the epic Will Smith: The Jump that occurred at the Grand Canyon. The event raised money for education for urban and underserved youth and commemorated his 50th birthday. Her medical team cleared all airborne participants in the production prior to their involvement in the event. Additionally, they provided medical oversight for local first responders at the Grand Canyon and provided acute care on site." (ENTIRE ITEM)] [NOTE: This relates to the publicized stunt by actor Will Smith, who bungee jumped from a helicopter over the Little Colorado River Gorge on September 25, 2018, which was streamed live on the web via YouTube as part of Youtube Originals. The produced program, "Will Smith—The Jump", is accessible at <a href="https://www.youtube.com/Watch?v=aHCz1ZMI290">https://www.youtube.com/Watch?v=aHCz1ZMI290</a> (accessed May 1, 2019), 1:25:30.] |
| 2019 | 15.1063 | More magic, less mishap: How two volunteers and the Grand Canyon community are heoping more visitors stay safe and inspired on the trail. <i>Canyon Views</i> (Grand Canyon Conservancy), 26(1) (Spring): 3-6. [Clint and KC Pastorius, Preventive Search and Rescue program volunteers.]  |



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Anonymous (continued)**

2019	15.1103	تحفة طبيعية خطيرة : يعتبر غراند كانيون (الأخدود الكبير) ثاني المنتزهات الوطنية الأميركية من حيث عدد الزوار لكنه عرف خلال الربيع ارتفاعا غير مسبوق في الوفيات العرضية ورغم الدعوات إلى الحذر تتواصل التصرفات الخطرة [tuhfat tabieiat khatira : yuetabar ghurand kaniun (aailkhudud alkbyr) thani almutanazihat alwataniat aalamirkiat min hayth eadad alzuwwar lakunah eurif khalil alrbye airtifaeaan ghyr masbuq fi alwafayat aleardiat waraghm aldaaeawat 'iilaa alhidhr tatawasal altasarufat alkhatirat] [A dangerous natural masterpiece : The Grand Canyon is the second US national park in terms of visitor numbers, but during the spring there was an unprecedented rise in accidental deaths, and despite calls for caution, dangerous behavior continues]. الوطن [al-Watan] (Doha, Qatar), (June 24): 28. [In Arabic.]
2019	15.1068	Made for the shade: Structure promises relief for South Kaibab hikers. <i>Canyon Views</i> (Grand Canyon Conservancy), 26(2) (Summer): 3. [Plan for shade and rainfall-collecting structure for the Tipoff on South Kaibab Trail; construction to begin in the fall.]
2020	15.1156	Grand Canyon National Park requests river guides, boaters bypass Havasu Canyon. <i>Western Outdoor Times</i> , 15(8) (August): 7. [Request to avoid Havasupai Indian Reservation due to the COVID-19 pandemic.]
2021	15.1178	Helping hikers stay safe on Grand Canyon Trails. <i>Canyon Views</i> (Grand Canyon Conservancy), 28(1) (Spring/Summer): 20-23. [Preventive Search and Rescue program.]
2021	15.1183	GCRG announces first recipient of Indigenous WFR Scholarship and other important news. <i>Boatman's Quarterly Review</i> , 34(2) (Summer): 4. [Awarded to Jaren Roberson, Hopi-Navajo.] [Grand Canyon River Guides. Wilderness First Responder.]
2023	15.1277	Helping North Rim visitors: Emergency Services volunteers Lori and Bob Derr. <i>Canyon Views</i> (Grand Canyon Conservancy), 30(2) (Spring/Summer): 22-23.
2024	15.1323	Your gift: Keeping visitors safe in the hour of their greatest need with new ambulances. <i>In</i> : Ways To Give; a closer look at two critical projects. <i>Canyon Views</i> (Grand Canyon Conservancy), 31(1) (Summer): 28.
2024	15.1353	The Grand Canyon River Alert System: Request for feedback. <i>Boatman's Quarterly Review</i> , 37(4) (Winter 2024/2025): 3. [Illustrated with a photo by Larkin Carey, "Galloway Creek Flash Flood, August 22, 2024", which shows the debris-laden flood issuing from the mouth of the side canyon, as viewed from the opposite side of the river.]
<b>Multiple Authors</b>		
1998	15.36	Insurance for private trips? <i>The Waiting List</i> (Grand Canyon Private Boaters Association), 2(2) (May): 19. [Individual brief comments; signed McCourt; Bob H.; Ricardo [Richard Martin]; and Bill V. Compiled from discussions on internet website <a href="mailto:gcboaters@songbird.com">gcboaters@songbird.com</a> .]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

A

**Abbott, Rachel C., AND Rocke, Tonie E.**

- 2012 15.972 Plague. *U.S. Geological Survey, Circular 1372*, 79 pp. [See “Box 4; Routes of Transmission of *Y. pestis* to Humans Associated with Infected Animals”, pp. 20-21; specifically, p. 21, “Transmission by Inhalation of Infectious Droplets from an Infected Animal”, which pertains to the pneumonic plague infection event at Grand Canyon, 2007. See also p. 44, reference to the same event.] [*Yersinia pestis*.]
- 

**Aboytes, Iris**

- 2010 15.491 Resolution; can movement and methodical physical exercise save and preserve the human condition? *Sandia Lab News* (Sandia National Laboratories), 62(1) (January 15): 4-5. [Includes Grand Canyon rim-to-rim hike/run.]
- 

**Abrahamson, David**

- 1984 15.638 [Reply to letter by Jim Ohlman.] *In*: Letters [SECTION]. *Backpacker*, 12(5) (September): 8. [Ohlman’s comment (ITEM NO. 2.17929) related to the article by David Abrahamson (ITEM NO. 9.14). Abrahamson’s reply pertains in part to purity of water sources in Grand Canyon.]
- 

**Abruzzo, Dane**

- 2016 15.1087 A faculty insider’s perspective: The Diploma in Mountain Medicine update. *The Mountain Dispatch* (University of New Mexico, International Mountain Medicine Center, Albuquerque), (Summer): 4-5, 14. [See photo, p. 14, “DiMM students at the Grand Canyon National Park assess a simulated patient.” (No text mention.)]
- 

**Abyssus, C. V.** [*pseudonym*] [Quartaroli, Richard D.]

- 1999 15.168 Clearing the waters. *In*: Flipped out! Letters to the GCPBA. *The Waiting List* (Grand Canyon Private Boaters Association), 3(4) (December): 32-33.
- 2000 15.180 Clarification on clarification. *In*: Flipped out! Letters to the GCPBA. *The Waiting List* (Grand Canyon Private Boaters Association), 4(1) (Spring): 33.
- 2012 15.628 Whitneyisms. *Boatman’s Quarterly Review*, 25(3) (Fall): 2. [Tim Whitney field study, possibly with Pablo Hinshaw, on the time required to chill beer to drinking temperature in a river drag bag. Also, Whitney Rule of Alcohol Consumption, regarding grain versus grape derivatives.] [See also Correction by Q. V. Abyssus, 25(4) (Winter 2012-2013): 10 (ITEM NO. 15.641).]
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Abyssus, Q. V.** [*pseudonym*] [Quartaroli, Richard D.]

- 2012 15.641 Correction. *Boatman's Quarterly Review*, 25(4) (Winter 2012-2013): 10. [Correction to C. V. Abyssus' (2012, **ITEM NO.** 15.628) "Whitneyisms".]

**Acha, Pedro N., AND Szyfres, Boris**

- 2001 15.1135 Zoonoses and communicable diseases common to man and animals. Third edition. Volume I. Bacterioses and Mycoses. *Pan American Health Organization, Scientific and Technical Publication 580*, 378 pp. (Pan American Health Organization, Pan American Sanitary Bureau, Regional Office of the World Health Organization, Washington, D.C.) [See "Tick-borne Relapsing Fever; ICD-1-0 A68.1" (pp. 271-274). Includes (p. 272) remarks on outbreaks among cabin tourists at Grand Canyon in 1979 and 1991.]
- 2001 15.1136 Zoonosis y enfermedades transmisibles communes al hombre y a los animales. Tercera edición. Volumen I. Bacteriosis y Micosis. *Organización Panamericana de la Salud, Publicación Científica y Técnica 580*, 398 pp. (Organización Panamericana de la Salud, Oficina Sanitaria Panamericana, Oficina Regional de la Organización Mundial de la Salud, Washington, D.C.) [See "Fiebre Recurrente Transmitida por Garrapatas; CIE-10 A68.1 Fiebre recurrente transmitida por garrapatas" (pp. 139-143). Includes (p. 140) remarks on outbreaks among cabin tourists at Grand Canyon in 1979 and 1991.] **[In Spanish.]**

**Acosta, Martha**

- 2021 15.1310 Working scared; why leaders must continuously cultivate psychological safety. *The Log* (BALPA, British Airline Pilots' Association), (Summer):. [Features retired Chief Ranger Marc Yeston, who spent most of his career as a rescue ranger at Grand Canyon.]

**Adolph, Karen E., AND Kretch, Kari S.**

- 2012 15.639 Infants on the edge: Beyond the visual cliff. **In:** Slater, Alan M., and Quinn, Paul C. (eds.), *Developmental psychology : revisiting the classic studies*. London: Sage Publications, Ltd., pp. 36-55. [Item begins with anecdote about watching small children at the edge of the Grand Canyon.]

**Advanced Composting Systems, LLC**

- 2007 15.812 *Phoenix composting toilet : public facilities application guide*. Whitefish, Montana: Advanced Composting Systems, LLC, 20 pp. [Illustrated examples include Grand Canyon.]

**AECOM** [Architecture, Engineering, Consulting, Operations, and Maintenance] [firm]

- 2017 15.1005 *Final report : I-40 west corridor profile study : California state line to junction I-17*. [No place]: AECOM, for Arizona Department of Transportation, SEPARATELY PAGINATED SECTIONS [327 pp. total]. (ADOT Work Task No. MPD 072C-14; ADOT Contract No. 11-103152.)

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

- 2017 15.1006 *Final report : SR 95 corridor profile study : junction I-8 to junction I-40.* [No place]: AECOM, for Arizona Department of Transportation, SEPARATELY PAGINATED SECTIONS [274 pp. total]. (ADOT Work Task No. MPD 041-15; ADOT Contract No. 11-103152.)
- 2018 15.1007 *Final report : SR 64 corridor profile study : I-40 to Grand Canyon National Park.* [No place]: AECOM, for Arizona Department of Transportation, SEPARATELY PAGINATED SECTIONS [203 pp. total]. (ADOT Work Task No. MPD 0040-17; ADOT Contract No. 18-177972.)
- 2018 15.1008 *Final report : US 89 corridor profile study : Flagstaff to Utah state line.* [No place]: AECOM, for Arizona Department of Transportation, SEPARATELY PAGINATED SECTIONS [254 pp. total]. (ADOT Work Task No. MPD 013-16; ADOT Contract No. 11-013164.)

**Aguirre, A. Alonso; Hansen, Donald; AND Starkey, Edward**

- 1993 15.939 Special initiative project: Animal disease issues in the National Park System. *U.S. National Park Service, Pacific Northwest Region, Technical Report NPS/PNROSU/NRTR-93/16*, SEPARATELY PAGINATED SECTIONS [215 pp. total]. (Cooperative Agreement No. CA-9000-8-0006, Subagreement No. 20, Animal Disease Issues in the National Park System.) [Includes Grand Canyon National Park and Lake Mead National Recreation Area.]

**Aiken, Bruce**

- 2013 15.706 The transcanyon pipeline: A short history. *Canyon Views* (Grand Canyon Association), 20(3) (Summer): 6-7.

**Aircraft Owners and Pilots Association**

- 2004 15.371 Collision avoidance; strategies and tactics. *Safety Advisor, Operations and Proficiency*, (4). [See p. 2, 1956 mid-air collision over Grand Canyon noted in *passing*.]

**Al-Deek, Haitham; Sandt, Adrian; Alomari, Ahmad; Rogers, John; Muhaisen, Nabil; Gordin, Eric A.; AND Vollmer, Derek**

- 2016 15.881 *Final report : FDOT Contract Number: BDV24-977-11 : evaluating the impact and usefulness of Highway Advisory Radio (HAR) and Citizens' Band Radio Advisory Systems (CBRAS) in providing traveler information and improving the user experience on the Florida Turnpike Enterprise's toll road network and the Florida Interstate Highway (FIH) system.* Orlando, Florida: University of Central Florida, Department of Civil, Environmental, and Construction Engineering, for Florida Department of Transportation Research Center, 239 pp. [See pp. 7-8, illustrated examples from Eidswick *et al.* (2009, ITEM NO. 15.882), pertaining to HAR and PDMS (Portable Dynamic Message Signs) used in Tusayan, Arizona.]

**Alexy, John K.**

- 2018 15.1003 Petition for waiver of compliance. *Federal Register*, 83(158) (August 15): 40651. [Grand Canyon Railway petitions for "waiver of compliance from certain provisions of

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

the Federal railroad safety regulations contained at 49 CFR part 230, *Steam Locomotive Inspection and Maintenance Standards*, relating to the operation of “No. 29, a 2-8-0 ‘Consolidation’ type steam locomotive built by the American Locomotive Works in 1906”.]

**Alston, Joseph F.**

2004 15.328 Park 1st aid letter. *Boatman’s Quarterly Review*, 17(2) (Summer): 26. [Response to letter published in *bqr* 17(1), regarding medical control issues (Grand Canyon River Guides, Board of Directors, 2004, [ITEM NO. 15.324](#)).]

**American Public Health Association, Western Branch**

1930 15.1162 Resolution No. V. Adopted by the Western Branch of the American Public Health Association, June 14, 1930. *In*: Boulder Dam Symposium. *American Journal of Public Health*, 20(10) (October): 1093. [Regarding the need for “coördinated activities” addressing “inter-state health and sanitary problems” during construction of Boulder Dam.]

**American Society of Inspectors of Plumbing and Sanitary Engineers, Committee on Research**

1913 15.654 Report of Committee on Research. *In*: *Proceedings, Eighth Annual Meeting of the American Society of Inspectors of Plumbing and Sanitary Engineers held at Louisville, Kentucky, May 20, 21 and 22, 1913. Official report.* Pittsburgh, Pennsylvania: American Society of Inspectors of Plumbing and Sanitary Engineers, Secretary’s Office, pp. 23-. [See “The Disposal of Sewage”, pp. 25-36; Grand Canyon sewage treatment plant, p. 30.]

**American Water Works Association**

2009 15.572 Planning for the distribution of reclaimed water. *American Water Works Association, Manual M24*, 3rd ed., 106 pp. [See Grand Canyon noted under “History”, p. 2.]

**Anderson, C. L. G.**

1890 15.598 Arizona as a health-resort. *Medical Record* (New York), 38(1) (July 5) (1026): 8-10.

1890 15.565 *Arizona as a health resort.* [No imprint], [5] pp. [including wrap cover]. (“Read at the second meeting of the Washington County Medical Society, Hagerstown, Md., April 9, 1890.”) [Considerable attention to the locales of Army forts and lower Colorado River region; Grand Canyon mentioned *in passing*.]

**Anderson, Finn**

2020 15.1152 Despair, whitewater rafting, and the art of getting rescued. *Boatman’s Quarterly Review*, 33(3) (Fall): 10-11.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Andrews, Howard L.**

- 1955 15.764 Radioactive fallout from bomb clouds. *Science*, 122 (September 9): 453-456. [Includes Lake Mead.] [See also comment by I. L. Ophel, (March 1, 1957): 399 (ITEM NO. 15.765).]
- 

**Andrews, William K.**

- 1956 15.1194 Statement of William K. Andrews, Director, Bureau of Safety Investigation, Civil Aeronautics Board. *In: Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956.* Washington, D.C.: U.S. Government Printing Office, pp. 3-24. [Relating to the 1956 Grand Canyon air crash.]
- 

**Annerino, John**

- 1988 15.842 National park cops. *Police*, 12(11): cover, 36-43.  
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 7-8]
- 

**Anspaugh, Lynn R., AND Church, Bruce W.**

- 1985 15.957 *Historical estimates of external gamma exposure and collective external gamma exposure from testing at the Nevada Test Site. I. Test series through HARDTACK II, 1958.* [No place]: U.S. Department of Energy, Nevada Operations Office, 188 pp. (NVO-226.) (DE86 006931.)
- 

**Applebaum, Erin**

- 2018 15.1226 East River helicopter tragedy the latest in a string of charter aircraft accidents. *New York City Bar, Committee on Aeronautics Newsletter*, 2(3) (March): 8-10. [Includes references to aircraft accidents at Grand Canyon.]
- 

**Arizona. Coconino County Department of Public Health**

- 1994 15.45 Coconino County Department of Public Health dispatch (excerpted and edited). [Followed by:] Grand Canyon River Guides dispatch (likewise excerpted and edited). *Boatman's Quarterly Review*, 7(4): 4-5. [July, 1994, illness outbreak.]
- 

**Arizona. Mohave County**

- 2010 15.690 *Mohave County Multi-Jurisdictional Hazard Mitigation Plan, 2010.* [No imprint], SEPARATELY PAGINATED SECTIONS. [With seals displayed for Mohave County, Arizona; Bullhead City; Colorado City; City of Kingman; and Lake Havasu City.]
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Arizona. Statewide Interoperability Executive Committee**

2009 15.540 *Arizona Interagency Radio System (AIRS) State Plan : standard operating procedures and national interoperability shared channels.* [No imprint], 28 pp.

---

**Arizona Department of Environmental Quality; Arizona Department of Water Resources; AND Arizona Corporation Commission**

2010 15.569 *Blue ribbon panel on water sustainability : final report : November 30, 2010.* Arizona Department of Environmental Quality, Arizona Corporation Commission, and Arizona Department of Water Resources, 139 pp. [See p. 5: Sewage treatment and water recycling at Grand Canyon since 1926.]

---

**Arizona Department of Health Services**

1993 15.37 *Guidelines for sanitation on Colorado River trips.* Arizona Department of Health Services, with National Park Service and U.S. Public Health Service, revised, 27 pp.

2014 15.780 *Arizona heat safety resource guide : resources for local health officials and public information officers during extreme heat events.* Phoenix: Arizona Department of Health Services, 19 pp.

---

**Arizona Department of Health Services, Division of Public Health Services, Bureau of Women’s and Children’s Health**

2018 15.1047 *Designation of Arizona medically underserved areas.* [Phoenix]: Arizona Department of Health Services, Division of Public Health Services, Bureau of Women’s and Children’s Health, 29 pp.

---

**Arizona Division of Emergency Management**

2007 15.457 *State of Arizona multi-hazard mitigation plan.* Phoenix: Arizona Division of Emergency Management, 283 pp.

---

**Arnold, Milton W.**

1956 15.1214 Statement of Milton W. Arnold, Vice President of Operations and Engineering, Air Transport Association. *In: Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956.* Washington, D.C.: U.S. Government Printing Office, pp. 316-331. [Relating to the 1956 Grand Canyon air crash.]

---

**Ash, Susan Kelly**

2009 15.493 Mental health in the off-season. *Boatman’s Quarterly Review*, 22(4) (Winter 2009-2010): Whale Foundation unpaginated insert, [2] pp.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Ash, Susan Kelly, AND Ghiglieri, Michael P.**

- 2007 15.403 Responding to psychological emergencies—a quick guide of on-river responses. *Boatman’s Quarterly Review*, 20(4) (Winter 2007-2008): “Whale Foundation Insert”, 3 pp.
- 2008 15.407 Interventions for substance abusers—Definitely not the last resort. *Boatman’s Quarterly Review*, 21(1) (Spring): [unpaginated insert], [3] pp.
- 

**Ashcraft, Audrey Marie**

- 2019 15.1098 *Experiences of subtle sexism among women employees in the National Park Service*. Doctoral dissertation, Walden University, 227 pp. [Grand Canyon National Park noted, pp. 5, 73, 143-145.]
- 

**Audretsch, Bob [Audretsch, Robert W.]**

- 2004 15.335 [Safety guidelines for long runs or hikes.] *In*: The prize. *Canyon Views* (Grand Canyon Association), 10(4) (Winter): 11.
- 

**Austin, Sara A.**

- 2018 15.1085 Who can you depend on? *Solo and Small Firm Section News* (Pennsylvania Bar Association, Solo and Small Firm Section), 33(1) (Winter): 1-2. [The first half of article relates to emergency preparedness during winter hikes in Grand Canyon.]
- 

**Auxier, Patricia**

- 2007 15.1092 Save her! At first, Ian didn’t feel like going with his family to see the Grand Canyon again, but something told him he should. The parents of a two-year-old are grateful he did. *The New Era* (Church of Jesus Christ of Latter-day Saints, Salt Lake City), 37(9) (September): 6-8. [Nineteen-year-old Ian Bagley helps save girl who fell over the edge at North Rim, Grand Canyon.] [Serial is for church youth.]
- 

**Ayers, Anthony**

- 2000 15.232 *Cluster analysis of weather related general aviation accidents in Arizona*. Master’s thesis, Northern Arizona University, 87 pp.
-



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

## B

### Backer, Howard D., AND Collins, Sherrie

- 1999 15.38 Use of a handheld, battery-operated chemistry analyzer for evaluation of heat-related symptoms in the backcountry of Grand Canyon National Park: a brief report. *Annals of Emergency Medicine*, 33(4) (April): 418-422.

### Backer, Howard D.; Shopes, Ellen; AND Collins, Sherrie L.

- 1993 15.795 Hyponatremia in recreational hikers in Grand Canyon National Park. *Journal of Wilderness Medicine*, 4(4) (November): 391-406.

### Backer, Howard D.; Shopes, Ellen; Collins, Sherrie L.; AND Barkan, H.

- 1999 15.169 Exertional heat illness and hyponatremia in hikers. *American Journal of Emergency Medicine*, 17(6) (October): 532-539.

### Baker, Charles A.

- 1960 15.645 Visual aspects in collision avoidance of Air Force aircraft. *In*: Morris, Ailene, and Horne, E. Porter (eds.), *Visual Search Techniques*; proceedings of a symposium sponsored by the Armed Forces–NRC Committee on Vision; held in the Smithsonian Auditorium, Washington, D.C., April 7 and 8, 1959. *U.S. National Academy of Sciences, National Research Council, Publication 712*, pp. 28-31. [See p. 31, note of the crash of “two ill-fated commercial airliners” in Grand Canyon as inspiration for “an effort to develop an airborne collision warning indicator”.]

### Bakke, Oscar

- 1956 15.1197 Statement of Oscar Bakke, Deputy Director, Bureau of Safety Regulation, Civil Aeronautics Board. *In*: *Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956*. Washington, D.C.: U.S. Government Printing Office, pp. 39-48, 144-198. [Relating to the 1956 Grand Canyon air crash.]

### Baldrige, Dave

- 2010 15.577 Larry’s big casino: A rescuer reflects on idiots and angels. *Mountain Gazette*, (174) (December): 22-28. [See p. 27, note on repeat (idiot) rescue calls from Royal Arch Loop in Grand Canyon.]

### Barnes, Gary

- 2019 15.1287 *Surviving Grand Canyon : lost and found : how to keep from getting lost and found if you do*. [No imprint], 272 pp. (“Copyright © 2013 Gary Barnes.”; p. 272 dated “Gary

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

Barnes April 2019”). [Cover title: *Surviving Grand Canyon: Lost and found : how to keep from getting lost and found if you do.*] [An on-demand publication.]

2019 15.1288 *Surviving Grand Canyon : trailside dangers : wilderness philosophy, phobias, and germs that make you sick.* [No imprint], 310 pp. (“Copyright © 2013, 2019 Gary Barnes.”) [Cover title: *Surviving Grand Canyon: Trailside Dangers : how to stay healthy and safe.*] [An on-demand publication.]

2019 15.1289 *Surviving Grand Canyon : it’s all about water.* [No imprint], 311 pp. (“Copyright © 2013, 2019 Gary Barnes.”) [Cover title: *Surviving Grand Canyon: It’s all about water : go dry, you die.*] [An on-demand publication.]

**Barsigian, Carl, AND Kane, Gregory C.**

2000 15.694 Primary coccidioidal cavity in a woman with travel to Arizona. *Clinical Pulmonary Medicine*, 7(5) (September): 285-. [Patient’s travels included Grand Canyon.]

**Bartlett, Peg; Carr, Walt; Chamberlin, Laura; Corbo, Nicole; Donnelly, Lesa; Edwards, Dave; Ewell, Marcia; Gelczis, Lisa; Ghiglieri, Susan; Gitlin, Alicyn; Hall, Dan; Hamilton, Susan; Jansen, Sam; Jones, Bert; Jones, Sam; Marley, Scott; Phillips, Pat; Sadler, Christa; Siemion, Gibby; Tea, Evan; Turner, Barbara; Vandenberg, Kelly; Watters, Kate; AND Winston, Ethan**

2016 15.961 In reference to the article, “Wait Is There More?”, in BQR volume 29 number 2, Summer 2016. *In*: Dear Eddy [SECTION]. *Boatman’s Quarterly Review*, 29(3) (Fall): 6-7. [Comment on the item by Skeen *et al.* (ITEM NO. 15.964), regarding recent issues of charges of sexual harassment during National Park Service river trips on the Colorado River in Grand Canyon.]

**Baughn, H. C., AND Higgins, D. C.**

1926 15.1190 Grand Canyon. *In*: Among Ourselves [SECTION]. *Santa Fe Magazine*, 20(7) (June): 65-66. [Includes note (p. 66), “. . . the new septic and sewage disposal plant at Grand Canyon is practically completed.”]

**Beck, Cliff**

2005 15.348 Welcome back, Doctor Myers. *Footprints*, (13) (September): 3. [Tom Myers.]

2007 15.397 Lessons learned; staying alive in the Grand Canyon. *Footprints*, (17) (August): 2-4.

**Becker, Denise**

NO DATE 15.1039 Denise Becker, nurse/guide. *In*: *Combat Wounded Veteran Challenge : Grand Canyon research expedition—2013 : the effects of extreme heat on the volume of residual limbs, a case study.* Tarpon Springs, Florida: Combat Wounded Veteran Challenge, pp. 29-31, 37-38, 45, 49-50, 55-56, 62. [2014.] [Personal remarks.] [Biographical sketch, p. 84.] [Date obtained from URL of an online posting of this document. Refer to Combat Wounded Veteran Exchange, ITEM NO. 15.1037, and Lehrer, ITEM NO. 15.1038, for descriptions of study.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

---

**Belli, Lawrence A.**

- 1977 15.722 Mountain rescue demonstration has many goals. *In Touch* (U.S. National Park Service, Division of Interpretation), 1(21) (September): 17-18. [Simulated-rescue demonstration at Grand Canyon National Park, Desert View Unit.]

**Belli, Lawrence A., AND Pilk, Robert**

- 1987 15.893 *Boating accidents at Lees Ferry : a boater survey and analysis of accident reports : final report*. [No place]: Glen Canyon National Recreation Area, for [U.S. Bureau of Reclamation], Glen Canyon Environmental Studies, Flagstaff, Arizona, 16 pp. (PB88-183561.)

---

**Bennion, Lee**

- 2000 15.181 [Comments.] *In*: Three helicopter rescues [FEATURE]. *The Waiting List* (Grand Canyon Private Boaters Association), 4(1) (Spring): 13-17.
- 2002 15.286 I've got the Grand Canyon helicopter evacuation blues. *In*: Three helicopter rescues. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 27-31. [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]

---

**Berger, Todd R.**

- 2005 15.347 PSAR program helps hikers enjoy the canyon. *Canyon Views* (Grand Canyon Association), 11(1) (Spring): 4. [Preventative Search and Rescue.]
- 2006 15.382 The 1956 airliner disaster at Grand Canyon. *Canyon Views* (Grand Canyon Association), 12(2) (Summer): 1-3.
- 2006 15.383 The worst commercial airplane accident the world had ever seen. *The Bulletin* (Grand Canyon Historical Society), 10(6): 1, 3.

---

**Bern, Carleton R.; Walton-Day, Katie; AND Naftz, David L.**

- 2017 15.985 Dust from breccia pipe uranium mines in surrounding soils: solubility and mobility [ABSTRACT]. *In*: *14th Biennial Conference of Science and Management for the Colorado Plateau and Southwest Region, September 11-14, 2017, High Country Conference Center, Northern Arizona University, Flagstaff, Arizona*. [No imprint], pp. 14-15. [Grand Canyon region.]
- 2019 15.1056 Improved enrichment factor calculations through principal component analysis: Examples from soils near breccia pipe uranium mines, Arizona, USA. *Environmental Pollution*, 248: 90-100 + Supplementary Data online (Supplementary Figure 1 and data file), <https://www.sciencedirect.com/science/article/pii/S0269749118343975>.
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Bio/West, Inc.**

- 1991 15.932 *Characterization of the life history and ecology of the humpback chub in the Grand Canyon (contract no. 0-CS-40-09110) : boating safety and operations protocol : prepared for: Team members and volunteers, Bio/West field teams.* Logan, Utah: Bio/West, Inc., 16, [4] pp. (Bio/West Report No. TR 250-03.)
- 

**Birmingham, Jay**

- 2005 15.839 Taking the big risk. *Strideright* (Florida Striders Track Club), 24(9) (September): 1, 4. [Regarding the author's debilitating physical effects following a rim-to-rim run across Grand Canyon.]
- 

**Black, Alan W., AND Ashley, Walker S.**

- 2010 15.487 Nontornadic convective wind fatalities in the United States. *Natural Hazards* (International Society for the Prevention and Mitigation of Natural Hazards), 54 (August): 355-366.
- 

**Blakey, Marion C.**

- 2007 15.554 National air tour safety standards; Final Rule. *Federal Register*, 72(29) (February 13): 6884-6914.
- 

**Blau, Christine**

- 2015 15.830 Don't be stupid. *In: Smart Traveler* [SECTION]. *National Geographic Traveler*, (June/July): 29. [Includes two brief notes pertaining to Grand Canyon. See "Don't Play Near the Edge" (regarding an accidental death) and "Don't Hike In Heels" (regarding reminders to "glamorous tourists" not to hike trails in heels).]
- 

**Bledsoe, Bryan E.**

- 2003 15.508 Air medical helicopter accidents in the United States: A five-year review. *Prehospital Emergency Care*, 7(1) (January/March): 94-98.

**Bledsoe, Bryan E.; Loptien, Matt; AND Berkeley, Ross P.**

- 2011 15.746 A desert rash. *Western Journal of Emergency Medicine*, 12(4) (November): 563-564. [Type I decompression sickness in patient following a controlled ascent from a dive to 235 feet in Lake Mead. Also notes that two days earlier the patient had dived to 315 feet without problem.]
- 

**Block, Thomas**

- 2002 15.648 Collisions, Part III. *In: Touchdown* [SECTION]. *Flying*, 129(11) (November): 98-101. [Recounts in part the 1956 mid-air collision of two commercial airliners over Grand Canyon, pp. 98-101.]
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Blynn, Guy**

2011 15.582 Ten steps. *Boatman's Quarterly Review*, 24(2) (Summer): 20-21. [Personal account, stressed Grand Canyon hike.]

---

**Boody, Peter, AND Steele, Randy**

1980 15.949 Arizona beat; a two-man highway patrol crew runs a regular race with death in the rural outback. *Flying*, 107(3) (September): 94-101. [Arizona Department of Public Safety air rescue unit based in Flagstaff. Includes a night medevac from Supai, Arizona.]

---

**Borden, Michael**

2008 15.459 Dealing with the heat! *Canyon Times* (Boy Scouts of America, Troop 97, Chatham, Illinois), (1) (August): [3]. [Pertains to preparations for Grand Canyon hike.] [NOTE: Apparently no further numbers in series.]

---

**Botha, J., AND Pretorius, W. A. [Botha, Johann, AND Pretorius, William Adriaan]**

1998 15.1066 *Die uitvoerbaarheid van dubbelwatervoorsieningstelsels : Finale Verslag aan die Waternavorsingskommissie*. Pretoria, South Africa: Universiteit van Pretoria, Department Chemiese Ingenieurswese, for Waternavorsingskommissie, 47 pp. (WNK Verslag No KV 113/98.) [Regarding dual water systems. Notes Grand Canyon Village in table, p. 12.] [In Afrikaans.]

---

**Bower, Blair T.**

1991 15.525 Economic, engineering, and policy options for waste reduction. *In*: U.S. National Research Council, Commission on Geosciences, Environment, and Resources, Board on Environmental Studies and Toxicology, Committee on Opportunities in Applied Environmental Research and Development, *Opportunities in applied environmental research and development*. Washington, D.C.: National Academy Press, pp. 55-75. ("Paper prepared for National Academy of Science's Committee on Opportunities in Applied Environmental Research and Development Workshop, May 8-9, 1989, Annapolis, MD".) [See p. 70, "The mules in Grand Canyon National Park, under the jurisdiction of the National Park service [*sic*], are major wastes [*sic*] generators and polluters of Bright Angel Creek." No further remark, nor citation.]

---

**Boyd, Robert A., AND Furlong, Edward T.**

2002 15.295 Human-health pharmaceutical compounds in Lake Mead, Nevada and Arizona, and Las Vegas Wash, Nevada, October 2000-August 2001. *U.S. Geological Survey, Open-File Report 02-385*, 18 pp.

---

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Boyer, Kenneth M.; Munford, Robert S.; Maupin, Gary O.; Pattison, Charles P.; Fox, Marshall D.; Barnes, Allan M.; Jones, Wallis L.; AND Maynard, James E.**

1977 15.39 Tick-borne relapsing fever: an interstate outbreak originating at Grand Canyon National Park. *American Journal of Epidemiology*, 105(5): 469-479.

---

**Brandt, Trey**

2003 15.369 *Faded contrails : last flights over Arizona*. Acacia Publishing, Inc., 168 pp. [Military air crashes.]

---

**Braunstein, Mark Mathew**

1988 15.505 Walking on water; the delicious possibilities of a food-free hike. *Backpacker*, (May): 67-70. [Also three letters in response to this article, by Ron Todaro, Scott G. Newman, and Marjorie McNairn, with a reply from Mark Braunstein, none of which mention Grand Canyon; issue(s) not seen but after May.]

---

**Brickler, Stanley K., AND Tunnicliff, Brock**

1980 15.935 Water quality analyses of the Colorado River corridor of Grand Canyon. *University of Arizona, College of Agriculture, Paper 350*, 134 pp.  
 ≡ [CROSS-LISTINGS](#) | [CITED»](#) [GCNHA Monograph 8: page 4-11](#)

---

**Brisken, A. F.; Anderson, R. E.; Frey, R. L.; AND Lewis, J. R.**

1979 15.843 Land mobile communications and position fixing using satellites. *IEEE Transactions on Vehicular Technology* (Institute of Electrical and Electronics Engineers), 28(3) (August): 153-170. [Includes Grand Canyon National Park.]

---

**Bronco** [*pseudonym*] [Bruchek, Bill]

1992 15.844 [Response in] Whuddyathink? *The News* (Grand Canyon River Guides), 5(1) (Spring) (Interim Edition): 4. [Topic: Tarps under the tables?]

---

**Brooke, Wallace S.**

1973 15.537 Arizona scorpion antivenom. *In*: Questions and Answers [SECTION]. *American Medical Association, Journal*, 225(5) (April 30): 637. [Question, regarding "A woman bitten by a scorpion in the Grand Canyon area . . . ."; with answer by Herbert L. Stahnke.]

---

**Brothers, Chris**

2020 15.1132 Clearing the path: Behind the scenes on the canyon's trails. *Canyon Views* (Grand Canyon Conservancy), 27(1) (Spring/Summer): 10-13. [Author is Grand Canyon National Park Trail Crew Program Manager.]

---

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Brown, A. A.**

- 1937 15.841 Does salt affect the stamina of the fire fighters? *In: Fire control notes : a publication devoted to the technique of forest fire control.* Washington, D.C.: U.S. Forest Service, pp. 250-254. [Includes notice of work by R. O. Schofield on heat prostration at Hoover Dam.]
- 

**Brown, Curtis A., AND Hahn, Martha G.**

- 1988 15.930 Effect of flows in the Colorado River on reported and observed boating accidents in Grand Canyon. *In: U.S. Bureau of Reclamation, Glen Canyon Environmental Studies, Glen Canyon Environmental Studies : executive summaries of technical reports : November 1988.* [No place]: Glen Canyon Environmental Studies, pp. 337-344.

**Brown, Curtis A., AND Hahn-O'Neill, Martha G.**

- 1987 15.40 *The effects of flows in the Colorado River on reported and observed boating accidents in Grand Canyon : January, 1987.* Denver: U.S. Bureau of Reclamation, Denver Engineering and Research Center, for U.S. Bureau of Reclamation, Upper Colorado Region, Glen Canyon Environmental Studies, Salt Lake City, 50 pp. (NTIS PB88-183533/AS.)
- 

**Brown, Sarah K.; Sparks, R. S. J.; Mee, K.; Vye-Brown, Charlotte; Ilyinskaya, E.; Jenkins, Susanna F.; AND Loughlin, Susan C.**

- 2015 15.868 Appendix B—Region 12. Country and regional profiles of volcanic hazard and risk: Canada and western U.S.A. *In: Loughlin, Susan C., Sparks, Steve, Brown, Sarah K., Jenkins, Susanna F., and Vye-Brown, Charlotte (eds.), Global volcanic hazards and risk.* Cambridge, United Kingdom: Cambridge University Press, pp. 491-595. [Includes Grand Canyon region.]
- 

**Browning, Shawn**

- 2002 15.262 Dear Eddy. *Boatman's Quarterly Review*, 15(3) (Fall): 4. [Gastrointestinal virus.]
- 

**Bruchek, Bill** *see* **Bronco**

---

**Buccello, Pat**

- 1998 15.1263 The NPS Critical Incident Stress Program. What is it and how do I participate? *Ranger* (Association of National Park Rangers, Journal), 15(1) (Winter 1998/1999): 2-3. [Notes, *in passing*, that the "program evolved in the early 1980s simultaneously in four of our larger parks", including Grand Canyon. Illustrated with photo (without legend) of incident crew carrying a litter up a Grand Canyon trail.]
- 

**Buchanan, Eugene D.**

- 1999 15.41 Hantavirus appears in Grand Canyon. *Paddler*, 19(3) (May/June): 23. [Article signed "edb".]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

---

**Buni, Cathi**

- 1995 15.627 Do women attract bears? No, but they are prey to plenty of similar backcountry medical myths. *Backpacker*, 23(5) (June): 18, 20-22. [Article opens with an anecdote from Grand Canyon, regarding menstrual periods and dehydration.]

---

**Burch, Riley**

- 2023 15.1285 Prez blurb. *Boatman’s Quarterly Review*, 36(3) (Fall): 1-2. [Features reminiscence of a water rescue in Son of Lava rapid and remarks on the sociality of the boating community.]

---

**Burki, Talha**

- 2021 15.1175 COVID-19 among American Indians and Alaska Natives. Limited resources, lack of data, and years of neglect and discrimination are worsening the impact of COVID-19 on American Indians and Alaska Natives. *The Lancet Infectious Diseases* (London), 21 (March): 325-326. [See p. 326, note, *in passing*, quoting Michael Toedt, Chief Medical Officer of U.S. Indian Health Service: “Some of the places we need to get to are really remote; we have a clinic at the bottom of the Grand Canyon . . . .” (Havasupai.)]

---

**Burns, Trish**

- 1996 15.42 One-thousand feet on top of the clouds. *Nature Notes* (Grand Canyon National Park), 12(3) (Fall): 6. [1956 air crash.]

---

**Burrill, T. J.**

- 1909 15.596 Market fruits and disease. *In*: Proceedings of the Thirty-sixth Annual Convention of the Horticultural Society of Central Illinois held in Hoopston, Ill., Wednesday and Thursday, Dec. 18 and 19, 1908. *Illinois State Horticultural Society, Transactions, New Series*, 42 (for 1908): 312-318. [See p. 313: “The potato plant itself contains a very active poison, though there is little or none of the substance in the tubers as they are brought to the table. When, however, these esculents are exposed to the sun, the poison develops rapidly and the acrid taste becomes pronounced. Major Powell relates that in his exploring trip down the canon of the Colorado river when the party had lost most of their food supplies, they boiled some green potato tops, a patch of which they found at a camping place, and ate them as greens. All were made desperately sick—a result that should not be surprising, at least to a botanist.” (ENTIRE NOTE)]

---

**Butler, Thomas**

- 2013 15.869 Plague gives surprises in the first decade of the 21st century in the United States and worldwide. *American Journal of Tropical Medicine and Hygiene*, 89(4) (October): 788-793. [Includes incident of a wildlife biologist at Grand Canyon succumbing to the plague after a mountain lion necropsy in 2007.]
-



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Buttke, Danielle**

- 2021 15.1271 One Health; wildlife, environment, humans; how it's all intereconnected. *Ranger* (Association of National Park Rangers, Journal), 37(1) (Winter): 14-15. [Regarding U.S. Public Health Service "One Health" program. Includes photo, "Cmdr. Danielle Buttke with a bison at Grand Canyon National Park.]

**Buttke, Danielle E.; Raynor, Brinkley; AND Schuurman, Gregor W.**

- 2023 15.1284 Predicting climate-change induced heat-related illness risk in Grand Canyon National Park visitors. *PLoS One*, 18(8): e0288812, 14 pp. (<https://doi.org/10.1371/journal.pone.0288812>) + Supporting Information online.

**Buzacott, Peter; Dolen, William K.; AND Chimiak, James**

- 2017 15.925 Case report: acute facial swelling in a recreational technical diver. *Physiological Reports*, 5(7): e13240, 4 pp. [Post-dive unilateral swelling in the face attributed to a hypersensitive reaction to an elastic rubber cord necklace that was attached to a second scuba regulator. Dive took place on the Arizona side of Lake Mead to a depth of 45 m.]

**Byerley, Erica; Grams, Paul; Gushue, Tom; AND Sartain, Shannon**

- 2024 15.1303 Risk to campsites from debris flows and flash floods project update. *Boatman's Quarterly Review*, 37(1) (Spring): 18-19.

C

**Cadwalader, Mary H.**

- 1957 15.43 Air mystery is solved. *Life*, 42(17) (April 29): 151-152, 154, 156, 158, 163-164. [1956 air crash.] [See also correspondence from Ed Gillet, Max Karant, and Ted Boehner, 42(20) (May 20): 16.]  
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 2: page 100| |CITED» GCNHA Monograph 8: page 7-8|

**Caine, Alicia**

- 2023 15.1279 *Conquer the canyon : rim to rim in a day : a first-timer's 16 week training plan*. [No place]: Wild Path Adventures Publishing, 101 pp. [Pagination with odd-numbered pages on the left.] [An on-demand publication.]

**Calderone, Robert**

- 2009 15.991 Aerospace education update; "Synthetic Vision". *The Fell Swoop* (Civil Air Patrol, Skyhawks Composite Squadron 47, Oceanside, California), 7(2) (March): 8-9.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

[Honeywell Aerospace technology for military and commercial aircraft displays terrain renderings and data. Grand Canyon example illustrated.]

---

**Calhoun, Thomas**

2007 15.402 Masters of disaster. *In*: [LETTERS SECTION]. *Outside*, 32(7) (July): 19. [Comment on June article by Kevin Fedarko.]

---

**Campbell, Debbie**

1990 15.436 *Evaluation of wastewater treatment plant facilities : North Rim, Grand Canyon National Park*. U.S. National Park Service, Denver Service Center, [unpaginated], 2 plates. (GRCA Package 874-15.)

1990 15.438 *North Rim water system update : Grand Canyon National Park*. U.S. National Park Service, Denver Service Center, [unpaginated], 2 plates. (GRCA Package 874-15A.)

---

**Campbell, Mike**

2013 15.719 Grand Canyon: A place of renewal. *Canyon Views* (Grand Canyon Association), 20(4) (Fall): 3-4.

---

**Carey, John P.**

1996 15.557 Hotel and Motel Fire Safety Act national master list, 1996. *Federal Register*, 61(121) (June 21): 32036-32256. [Hotel and Motel Fire Safety Act of 1990. This citation provided as an example. See p. 32041, Grand Canyon hotels: Bright Angel Lodge [as "Bright Angle Lodge", *sic*], El Tovar Hotel, Kachina Lodge, Maswik Lodge, Moqui Lodge, Thunderbird Lodge, Yavapai Lodge.]

---

**Carney, Scott**

2011 15.611 Panic button. Satellite-linked emergency devices give backpackers, skiers, and boaters fingertip power to cry for help. Alas, people often cry wolf. *Outside*, (August): 80-71, 104. [See p. 71, reference to woman backpacker in Grand Canyon being "aided" after a ranger's nighttime hike to find she was concerned her husband's snoring might be a medical problem; and to hikers on Royal Arch Loop calling for help because their water tasted salty.]

---

**Carollo** [firm]

2013 15.840 *Arroyo Seco Canyon Project : final conceptual design report*. Pasadena, California: Carollo, for City of Pasadena, Water and Power Department, SEPARATELY PAGINATED SECTIONS [325 pp. total]. [See pp. 5-17 to 5-18, example of solar-powered composting toilet in Grand Canyon National Park (illustrated).]

---

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Carothers, Steven W.**

- 1977 15.769 Let's carry it all out. *Down River*, (August): 16-18. [Human-waste transport method.]  
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 2: page 87| |CITED» GCNHA Monograph 8: page 4-12|
- 

**Carpenter, Guy W.**

- 2016 15.941 Reusing water for 90 years. *Municipal Water Leader*, (February): 32-34. [Article is about water reuse in Arizona. Begins with a paragraph about America's first dual water distribution system at Grand Canyon Village, 1926; also notes other water reuse purposes.]
- 

**Carter, Robert, III**

- 2008 15.908 Exertional heat illness and hyponatremia: An epidemiological prospective. *Current Sports Medicine Reports*, (Supplement—Sodium Balance and Exercise), pp. S20-S27. [Grand Canyon noted, pp. S22, S23, S25.]
- 

**Carver, Benjamin T.**

- 2010 15.542 *Seeing disaster in Grand Canyon : rethinking the 1956 Grand Canyon mid-air collision*. Master's thesis, Northern Arizona University, 113 pp.

**Carver, Benjamin T., AND Amundson, Michael**

- 2008 15.562 *1956 Grand Canyon mid-air collision crash sites : TWA-United Airlines : National Historic Landmark nomination*. [Flagstaff]: Northern Arizona University, History Department, 25 pp., 26 photos. ("A partnership project of Grand Canyon National Park; Ecological Monitoring and Assessment Program, Northern Arizona University; College of Engineering, Forestry, and Natural Sciences, Northern Arizona University".)
- 

**Cathcart-Rake, William F., AND Myers, Thomas M.**

- 2022 15.1246 Emergency medical evacuations from Grand Canyon National Park. *The Ol' Pioneer* (Grand Canyon Historical Society), 33(3) (Summer): 10-14.
- 

**Cellamare, Daniele**

- 2009 15.1174 *L'acqua : una risorsa strategica una minaccia alla stabilità*. [No place]: Rivista Militare, 304 pp. (Printed by Stilgrafica srl, Roma.) [See photo of Grand Canyon (p. 96), with legend, "Nell'estate del 2008, una ventina di persone hanno perso la vita in seguito alla rottura di una piccola diga e al conseguente allagamento di un'area di diversi km<sup>2</sup> nel Gran Canyon, tra Arizona e Utah [sic]. Si trattava per lo più di turisti, ma anche di indiani havasupai che vivono nella zona. I soccorritori, con elicotteri e gommoni, hanno tratto in salvo più di 170 persone e quasi 500 sono state evacuate." (ENTIRE NOTE)] [In Italian.]
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Chapman, Erin**

2006 15.378 Prepare properly and prevent injuries on your Grand Canyon river rafting trip. *Grand Canyon River Runner*, (2) (Spring): 8-9.

---

**Charnley, Donn**

1957 15.211 Safety as we see it; Grand Canyon safety rules. *American Whitewater*, 3(2) (Summer): 20.

---

**Childs, Craig**

2023 15.1286 When it rains, it pours. In the course of 37 days in the summer of 1997, 22 men and women were killed by five flash floods in Arizona. The tragedy in Antelope Canyon, which claimed 12 lives, made headlines around the world. A month later, a downpour on the North Rim fed another deadly torrent that ripped apart a place known as Phantom Canyon. *Arizona Highways*, 99(7) (July): 36-45. [Excerpt from Childs (2002, ITEM NO. 2.24524), *The Desert Cries*, with added photographs by Rich Rudow.] [See also letter from Phil Million, (10) (October): 4.]

---

**Cisneros, Ashley**

2010 15.910 Personal injury spotlight: Brian Panish and Kevin Boyle talk about their numerous wins in air disaster cases. *In: National Law Journal, Personal Injury Litigators—2010 : special advertising supplement to the Los Angeles Times*, p. 10. [Notes briefly, "Panish and Boyle have handled numerous helicopter crashes, including one involving a family that was killed while taking a helicopter tour over the Grand Canyon." (no further details)] [Related: "Panish, Shea & Boyle LLP", cover, 4-5.] [Specific date of publication not indicated.]

---

**Cisneros, Lauren**

2023 15.1276 Preparedness is key: Living at the North Rim during the winter. *Canyon Views* (Grand Canyon Conservancy), 30(2) (Spring/Summer): 18-21.

---

**Clark County (Nevada) Local Emergency Planning Committee**

2014 15.731 *Hazardous materials emergency response plan : Mesquite, Henderson, Las Vegas, Boulder City, Clark County, North Las Vegas*. [No place]: Clark County Office of Emergency Management, SEPARATELY PAGINATED SECTIONS [226 pp. total].

---

**Clark, Roger**

1993 15.44 Helicopters collide in Tusayan; tour operator tries to shift blame. *Colorado Plateau Advocate*, (Fall): 7.

---

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Clark, Steve**

- 1996 15.879 DARE in the Green and Gray. *Ranger* (Association of National Park Rangers, Journal), 13(1) (Winter 1996-1997): 17. [Includes note of introduction of Drug Abuse Resistance Education program into the National Park Service, first at Grand Canyon National Park in 1988.]
- 

**Clarkson, Priscilla M.**

- 1993 15.489 Exertional rhabdomyolysis and acute renal failure. *Strength and Conditioning Journal* (Strength and Conditioning Association), 13(3) (June): 33-39. [Includes Grand Canyon incident, September 1987.]
- 1993 15.891 Worst case scenarios: Exertional rhabdomyolysis and acute renal failure. *Sports Science Exchange*, (42). [Includes Grand Canyon incident, September 1987.]
- 

**Clayton, Kevin L., AND Brown, Catherine**

- 2010 15.888 Microscopic monsters; just another part of the job. *International Game Warden*, (Spring): 10-13. [See "Scenario #2", pp. 11-12, regarding the death at Grand Canyon of wildlife ecologist Eric York, from the plague contracted during a mountain lion necropsy.]
- 

**Clean Colorado River Alliance**

- 2006 15.691 *Recommendations to address Colorado River water quality*. [No place]: Clean Colorado River Alliance, 112 pp.
- 

**Clean Up the Mines!**

- NO DATE 15.979 *Abandoned uranium mines fact sheet*. [No place]: Clean Up the Mines!, 2 pp. [Includes note of mining and groundwater contamination in Grand Canyon area.]
- 

**Clemans, Scott**

- 2000 15.414 Grand Canyon cleanup. *SAR News* (Search and Rescue, Pima County Sheriff's Department, Tucson), 25(9) (September): 3-4. [Announcement; technical issues and pre-planning for volunteer over-rim trash cleanup operation at Grand Canyon.]
- 

**Cleveland, Danielle, AND Hinck, Jo Ellen**

- 2019 15.1080 Are Native Americans exposed to uranium mining-related elements in smoke particulates during traditional uses of sagebrush? [ABSTRACT]. *In: 15th Biennial Conference of Science and Management for the Colorado Plateau and Southwest Region : theme: "Science and Solutions for Conserving the Southwest's Land, Water, Biodiversity and Cultures" : September 9-12, 2019, High Country Conference Center, Northern Arizona University, Flagstaff, Arizona*, p. 26. [With respect to Grand Canyon watershed.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Cleveland, Danielle; Hinck, Jo Ellen; AND Lankton, Julia S.**

- 2019 15.1021 Assessment of chronic low-dose elemental and radiological exposures of biota at the Kanab North uranium mine site in the Grand Canyon watershed. *Integrated Environmental Assessment and Management*, 15(1) (January): 112-125 + Supporting Information online, <https://seta.onlinelibrary.wiley.com/doi/abs/10.1002/ieam.4095>, 21 pp.
- 2021 15.1169 Elemental and radionuclide exposures and uptakes by small rodents, invertebrates, and vegetation at active and post-production uranium mines in the Grand Canyon watershed. *Chemosphere*, 263 (January): (127908) (<https://doi.org/10.1016/j.chemosphere.2020.127908>) + research data online (Chemical analyses and histopathology of organisms and plants collected from breccia pipe uranium mine sites in the Grand Canyon watershed, 2015-2020, U.S. Geological Survey data release (<https://doi.org/10.5066/P94OVQO9> [also as <https://www.sciencebase.gov/catalog/item/5f40097182ce8df5b6cb4221>])).

**Cline, Bruce H.**

- 2013 15.779 *Never boat alone without having read this guide . . .* (Judy Karasik, ed.) Littleton, Colorado: ReCline Books, 1st ed., 82 pp. [Title cited from title-page. Cover title: *Never Boat Alone\* A Guide to Solo Boating the Colorado River through Grand Canyon. \*Without Having Read This Guide . . .* Ellipses are part of title.] [An on-demand publication.]
- 2024 15.1309 *A guide to solo boating the Colorado River through Grand Canyon.* [No imprint], 2nd ed., revised, 130 pp. (p. 130 is blank except for the page number). [Title-page verso indicates "2nd Addition [*sic*], Revised"; is correct on cover. Page also indicates "Kim" (*i.e.*, Kim Cline, the author's wife) as "principal editor of this edition".] [An on-demand publication.]

**Coconino County (Arizona) Public Health Services District**

- 2013 15.947 *Coconino County community health assessment : June 2013 : v.2.* [No place]: Coconino County Public Health Services District, 46 pp. ["Community Concerns" section (pp. 36-39) includes Page, Fredonia, and Tusayan/Grand Canyon Village.]

**Collins, Richard L.**

- 1986 15.896 *Air crashes : what went wrong, why, and what can be done about it.* New York: Macmillan, 224 pp.
- 1992 15.897 *Air crashes : what went wrong, why, and what can be done about it.* Charlottesville, Virginia: Thomasson-Grant, 244 pp. [See pp. 34-35.]

**Collins, Sherrie L.**

- 1995 15.46 Heat-related injuries in Grand Canyon; or "the human fly trap". *Nature Notes* (Grand Canyon National Park), 11(2) (Summer): 1-3.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

- 2000 15.1265 AEDs: Cming to a visitor center near you. *Ranger* (Association of National Park Rangers, Journal), 17(1) (Winter 2000/2001): 10-11. [Automatic external defibrillators. Includes experiences at Grand Canyon.]
- 2001 15.212 Exertional hyponatremia—too much of a good thing. *Boatman’s Quarterly Review*, 14(1) (Spring): 22-23.
- 2004 15.739 *Evaluation of evacuation planning in wildland-urban interface environments : executive analysis of fire service operations in emergency management*. U.S. National Park Service, Grand Canyon National Park, 44 pp. (“An applied research project submitted to the National Fire Academy as part of the Executive Fire Officer Program“.)

**Collins, Sherrie L., AND Obernesser, Rick**

- 1998 15.1264 Is your incident critical? Setting up a park CISM plan. *Ranger* (Association of National Park Rangers, Journal), 15(1) (Winter 1998/1999): 4-5, 10. [Critical Incident Stress Management.] [Illustrated with photo (without legend) of litter with ranger being lowered over the rim at Grand Canyon.]

**Collins, Sherrie L., AND Reynolds, Bill**

- 2004 15.462 Exertional hyponatremia: The *other* heat-related emergency. *Journal of Emergency Medical Services*, 29(7) (July): 74-76, 78, 80, 82-86, 88; and quiz, 90-91.

**Collins, Starla S.**

- 2018 15.1002 Havasupai hiker healing after dangerous Grand Canyon slip; Jean Balestrery credits orthopedic traumatologist with her ability to walk again. *Flagstaff Business News* (Flagstaff, Arizona), 4(11) (April): 9, 38. [Orthopaedic traumatologist Brandon Clark, Northern Arizona Orthopaedics, Flagstaff.]

**Coltrin, Mike, AND Leavengood, Betty**

- 2000 15.182 Pioneers meet in Flagstaff. *The Bulletin* (Grand Canyon Pioneers Society), 4(3): 1. [Tom Myers address on death in Grand Canyon.]

**Colyer, W. T.**

- 1919 15.603 Aviation and fire protection. *National Fire Protection Association, Quarterly*, 13(2) (October): 114-120. [See p. 119: “Probably hotel or club accommodations will not be long in taking their place as necessary adjuncts to airdromes, particularly such as may be established among the Rocky Mountains or near the Grand Canyon in Arizona—to quote likely spots. It is fairly safe to predict that, unless full weight is given to considerations of fire prevention and protection when such airdromes are planned, a number of serious fires will occur on these properties.” (ENTIRE NOTE)]

**Combat Wounded Veteran Challenge**

- NO DATE 15.1037 *Combat Wounded Veteran Challenge : Grand Canyon research expedition—2013 : the effects of extreme heat on the volume of residual limbs, a case study*. Tarpon

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

Springs, Florida: Combat Wounded Veteran Challenge, 85 pp. [2014.] [Date obtained from URL of an online posting of this document.] [“The team selected the Grandview Trail to Tonto Trail leading down to the Colorado River and the first part of the Escalante Route. According to the National Park Service, this was the first recorded attempt by lower limb amputees to descend to the bottom of the Grand Canyon and return. Their objective: to find medical solutions to further improve the science impacting the advancement of their prosthetics and Traumatic Brain Injury (TBI) treatments.” (p. 8)] [Includes “The Expedition Log—Grand Canyon Challenge, 19-24 June 2013” (pp. 28-67). Personal remarks by some of the team members are cited under their separate authors herein.]

**Conway, Erik**

2004 15.331 Echoes in the Grand Canyon: Public catastrophes and technologies of control in American aviation. *History and Technology*, 20(2): 115-134.

**Conway, F. Michael**

2022 15.1245 Get to the boats! Fatal debris flow at Grand Canyon’s Tatahatso Beach 14 July 2021. *Arizona Geology*, 43(1) (Summer): 1-12.

**Corporación de Fomento de la Producción (CORFO)** [government organization]

2019 15.1338 *Desarrollo de un modelo regulatorio-institucional-financiero que viabilice el reúso de las aguas residuales en Chile*. Santiago: DI Agua, Derecho e Ingeniería del Auga, with ECONSSA Chile, Empresa Concesionaria de Servicios Sanitarios S.A. [See p. 129, under “El Reúso de las aguas residuales en California: Importancia calidades exigidas, aspectos económicos y modelo de negocios”, brief mention that recycled water was around 1926 used for flushing toilets in Grand Canyon National Park.] [In Spanish.]

**Corrigan, Daniel Ray**

1980 15.47 *An empirical investigation of certain organizational climate influences on flying safety*. Doctoral dissertation, University of Arkansas, 277 pp. [Includes 1956 Grand Canyon crash.]  
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 12-9|

**Costello, Billy**

NO DATE 15.1040 SFC Billy Costello (A-K amputee). *In: Combat Wounded Veteran Challenge : Grand Canyon research expedition—2013 : the effects of extreme heat on the volume of residual limbs, a case study*. Tarpon Springs, Florida: Combat Wounded Veteran Challenge, pp. 31-32, 39, 46, 51, 56, 63. [2014.] [Personal remarks.] [Biographical sketch, pp. 77-78.] [Date obtained from URL of an online posting of this document. Refer to Combat Wounded Veteran Exchange, ITEM NO. 15.1037, and Lehrer, ITEM NO. 15.1038, for descriptions of study.]



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Cook, John C.**

1947 15.426 Reclaiming sewage at Grand Canyon. *Arizona Sewage and Water Works Association, Bulletin*, 8[?]:.

---

**Crook, James**

1996 15.760 Water reuse experience in the U.S. *In: Reclaimed Water Conference, April 10, 1996, The Friday Center, Chapel Hill, North Carolina, Sponsored by North Carolina AWWA/WEF*, 20 pp. [See "Grand Canyon Village, Arizona", p. 5, where is noted the "first dual distribution system in the United States" in 1926.]

**Crook, James, AND Okun, Daniel A.**

1987 15.1027 The place of nonpotable reuse in water management. *Water Pollution Control Federation, Journal*, 59(5) (May): 237-241. [Grand Canyon noted briefly, see pp. 239-240, 241.]

---

**Crossey, Laura J.; Karlstrom, Karl E.; Kreamer, David; Lederer, Susan; AND Tilousi, Carletta**

2024 15.1336 Scientific hydrologic perspective on uranium mining at Pinyon Plain Mine near Grand Canyon. *Boatman's Quarterly Review*, 37(3) (Fall): 8-13.

---

**Cummins, Ed**

1998 15.49 New radio frequency. *Boatman's Quarterly Review*, 11(4) (Fall): 29. [Emergency communications at Grand Canyon National Park.]

1999 15.50 Life jacket requirements on the Colorado through Grand Canyon. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 3(3) (August): 2.

---

**Curtis, Thom**

2004 15.370 Fatal aviation accidents in rural communities: Response preparation strategies. *Traumatology*, 10: 189-206.

---

**Cothen, Grady C., Jr.**

2005 15.555 Petition for waiver of compliance. *Federal Register*, 70(179) (September 16): 54801. [U.S. Federal Railroad Administration. Waiver petition from Grand Canyon Railway, regarding regulated requirement for trains to be equipped with FRA-approved rear end marking device. Grand Canyon Railway requested waiver to use historical "Adlake No. 270" marking device on excursion passenger trains, citing historical ambiance.]

---

**Credo, Jonathan; Torkelson, Jaclyn; Rock, Tommy; AND Ingram, Jani C.**

2019 15.1070 Quantification and elemental contaminants in unregulated water across western Navajo Nation. *International Journal of Environmental Research and Public Health* (MDPI: Multidisciplinary Digital Publishing Institute, Basel, Switzerland), 16(2727), 15

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

pp. [Within the scope of this bibliography includes Lechee, Coppermine, Bodaway Gap, and Cameron Chapters of the Navajo Nation.]

---

**Culligan, Tricia**

- |      |        |  |
|------|--------|--|
| 2018 | 15.999 | Drones to the rescue; from fighting fires to delivering medical supplies, drones are helping to save lives all over the world. <i>Scholastic News</i> (Edition 5/6), 86(16) (March 5): cover, 4-5. [See p. 5, brief note of UAVs (unoccupied aerial vehicles) used to locate lost or stranded people in Grand Canyon National Park.] |
|------|--------|--|

---

**Cutler, Sally J.**

- |      |        |   |
|------|--------|---|
| 2010 | 15.894 | Relapsing fever—a forgotten disease revealed. <i>Journal of Applied Microbiology</i> , 108: 1115-1122. [Grand Canyon, see p. 1120.] |
|------|--------|---|
- 

D

**Da Silva, S. L.; Almeida, J. R.; Resende, L. M.; Martins, W.; Henriques, F. A. F. A.; Baldasso, P. A.; Soares, A. M.; Taranto, A. G.; Resende, R. R.; AND Dias-Junior, C. A.**

- |      |         |   |
|------|---------|---|
| 2011 | 15.1001 | Isolation and characterization of a natriuretic peptide from <i>Crotalus oreganus abyssus</i> (Grand Canyon rattlesnake) and its effects on systemic blood pressure and nitrite levels. <i>International Journal of Peptide Research and Therapeutics</i> , 17(3) (September): 165-173. |
|------|---------|---|
- 

**Dąbrowiecki, Zbigniew; Dąbrowiecka, Małgorzata; Olszański, Romuald; Siermontowski, Piotr; AND Józwiak, Dariusz**

- |      |        |  |
|------|--------|--|
| 2015 | 15.880 | Sick boat syndrome. <i>Polish Hyperbaric Research</i> (Polish Hyperbaric Medicine and Technology Society, Journal), 53(4): 81-92. [Overview of gastrointestinal and other diseases encountered on watercraft. Includes record of incident of Norwalk virus infection in Grand Canyon in 2002.] |
|------|--------|--|
- 

**Dale, Ariella P.; Miko, Shanna; Calderwood, Laura E.; King, Ronan F.; Maurer, Matthew; Dyer, Laurie; Gebhardt, Murette; Maurer, Wendy; Crosby, Shawna; Wikswo, Mary E.; Said, Maria A.; AND Mirza, Sara A.**

- |      |         |   |
|------|---------|---|
| 2022 | 15.1253 | Outbreak of acute gastroenteritis among rafters and backpackers in the backcountry of Grand Canyon National Park, April-June 2022. <i>Morbidity and Mortality Weekly Report</i> (U.S. Department of Health and Human Services, Centers for Disease Control and Prevention), 71(38) (September 23): 1207-1211. |
|------|---------|---|
- 

**Daniels, Lillian E. [Daniels, Lily]**

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

- |      |         |  |
|------|---------|--|
| 2022 | 15.1244 | Designing a water system for the future. <i>Canyon Views</i> (Grand Canyon Conservancy, 29(1) (Spring/Summer): 18-21. [Transcanyon Waterline.]   |
| 2023 | 15.1278 | Park projects move forward on the North Rim. <i>Canyon Views</i> (Grand Canyon Conservancy), 30(2) (Spring/Summer): 24-26. [Includes North Rim Wastewater Treatment Plant Upgrades and North Rim Lift Stations and Drying Beds.] |

**Davenport, George L., Jr.**

- |      |        |  |
|------|--------|--|
| 1946 | 15.204 | Grand Canyon's unique water pumping plant. <i>Water and Sewage Works</i> , (October): 875-877. |
|------|--------|--|

**Davidson, Collin, AND Kreamer, David**

- |      |         |  |
|------|---------|--|
| 2023 | 15.1307 | Investigating controls on spatial and temporal variation of uranium in groundwater near an abandoned uranium mine, Grand Canyon National Park, USA [ABSTRACT]. <i>Geological Society of America, Abstracts with Programs</i> , 55(4): abstract 25-4 ( <a href="https://doi.org/10.1130/abs/2023CD-387098">https://doi.org/10.1130/abs/2023CD-387098</a> ). [Orphan Mine; Horn Creek and Salt Creek drainages.] |
|------|---------|--|

**Davis, D. E. [Davis, Daniel Edward]**

- |         |         |  |
|---------|---------|--|
| NO DATE | 15.1122 | <i>River to rim routes: Marble and Grand Canyons</i> . [No imprint], 16 pp. [After 1958.] [“Many of the routes described in this booklet were originally published in ‘Escape Routes from the Colorado River, Lees Ferry to Lake Mead,’ compiled by Ranger D. E. Davis [ <i>i.e.</i> , Davis, 1958, ITEM NO. 15.1125]. Harvey Butchart, author of <i>Grand Canyon Treks</i> , is responsible for most of the revisions contained herein. [ . . . ] This booklet should be used in conjunction with ‘Emergency Evacuation Guidelines for River Parties in the Grand Canyon’ [ <i>i.e.</i> , U.S. National Park Service, Grand Canyon National Park, no date, ITEM NO. 15.1126]. [ . . . ] It is hoped that the routes described herein be used as a guide for interesting hiking rather than as escape routes.” (p. 1)] |
| 1958    | 15.1125 | <i>Escape routes from the Colorado River, Lees Ferry to Lake Mead : Grand Canyon Natl Park</i> . U.S. National Park Service, 16 pp. (“2-20-58 SP”). [Authorship attributed to ranger D. E. Davis.] [Also an undated updated typescript largely with information from Harvey Butchart, 16 pp., without imprint (Davis, no date, ITEM NO. 15.1122).]<br><span style="color: #8B4513;">≡ CROSS-LISTINGS  CITED» GCNHA Monograph 8: page “1–Special Section 1–8”  FQ3:211 FQ10:518</span>  |

**Davis, Dan**

- |      |       |   |
|------|-------|---|
| 1994 | 15.51 | View from the rim. <i>The News</i> (Grand Canyon River Guides), 7(1) (Winter 1993/1994): 21. [SCAT machine at Meadview, and human waste disposal procedures.] |
|------|-------|---|

**Dayton, Peter**

- |      |        |  |
|------|--------|--|
| 2006 | 15.391 | An alternative to the propane campfire for winter camping. <i>The Waiting List</i> (Grand Canyon Private Boaters Association), 7(4) (Winter): 38-39. |
|------|--------|--|

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**deNarvaez, Cynta**

- 1992 15.52 Sacred datura. *The News* (Grand Canyon River Guides), 5(4) (Fall): 18-19.
- 1993 15.53 More on datura. *The News* (Grand Canyon River Guides), 6(1) (Winter 1992/1993): 5.
- 

**Depeceovich, Madison**

- 2019 15.1157 Visited this museum recently? You may have been exposed to radiation. *New York Mineralogical Club, Bulletin* (New York, New York), 133(5) (May): 3. [Grand Canyon National Park Museum Collection.]
- 

**Derickson, Alan**

- 2019 15.1138 "A widespread superstition": The purported invulnerability of workers of color to occupational heat stress. *American Journal of Public Health*, 109(10): 1329-1335. [See p. 1333, discussion of studies of heat stress during the construction of Hoover Dam.]
- 

**DeSantis, Mark K.**

- 2022 15.1251 Federal land management agencies: Search and Rescue (SAR) operations. *In Focus* (Congressional Research Service, Washington, D.C.), (January 19), 2 pp. [See p. 2: "The NPS units reporting the highest number of SAR incidents over this period [FY2016-FY2020] were lake Mead National Recreation Area, Grand Canyon National Park, and Yosemite National Park, in that order." (ENTIRE NOTE)]
- 

**DeVoe, D.**

- 2004 15.463 Comparison of the RT3 Research Tracker and Tritrac R3D accelerometers during a backpacking expedition by a single subject. *Perceptual and Motor Skills*, 99(2) (October): 545-546.

**DeVoe, D., AND Dalleck, L.**

- 2001 15.257 Reliability and validity of the tritrac-R3D accelerometer during backpacking: a case study. *Perceptual and Motor Skills*, 93(1) (August): 37-46.
- 

**Dickey, Shirl**

- 2005 15.357 Disaster at Dubendorf. *In*: Stephenson, R. J. (ed.), Grand groover chronicles; how's it going? [FEATURE]. *The Waiting List*, 7(2) (Winter): 51. [Deubendorff Rapid.]
- 

**Dierker, Dan**

- 1992 15.54 First aid conundrum. *The News* (Grand Canyon River Guides), 5(2) (Spring): 13.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

1994 15.55 Do you want to B hep? *Boatman’s Quarterly Review*, 7(3): 24. [NOTE: Title phrase is a play on the slang term, “to be hip”.]

**Dill, David Bruce**

1938 15.623 *Life, heat, and altitude : physiological effects of hot climates and great heights.* Cambridge, Massachusetts: Harvard University Press, 211 pp. [Includes experimental studies made during the construction of Hoover Dam.]

**Dillon, Jeff**

1996 15.56 Nature’s cruel lessons; summer heat has been especially brutal on Canyon hikers. *Flagstaff Live!*, 2(17) (August 15-28): 22.

**Dimock, Brad, AND Kish, Dawn**

2021 15.1177 Learning the ropes. Back in the ’70s, it didn’t take much to become a river guide: You had to be 18, have three trips under your belt and know enough to tell a story or two about the Grand Canyon. Today, there are 56 pages of detailed regulations that need to be memorized, and guides must maintain a wilderness first responder card, a CPR card and a backcountry food handler’s license. And then there’s the swift-water training. *Arizona Highways*, 97(5) (May): cover, 1, 44-51. [CRP: cardiopulmonary resuscitation.]

**Divis, Kristin M.; Anderson-Bergman, Clifford; Abbott, Rob; Newton, Victoria E.; AND Emmanuel-Aviña, Glory**

2018 15.969 Physiological and cognitive factors related to human performance during the Grand Canyon Rim-to-Rim hike. *Journal of Human Performance in Extreme Environments*, 14(1): Article 5, 15 pp. [“Rim-to-Rim Wearables At The Canyon for Health (R2R WATCH) study at Sandia National Laboratories, funded by the Defense Threat Reduction Agency (Project CB10359)”. Real-time testing of “commercial off-the-shelf physiological and cognitive monitoring technologies for their ability to detect early and accurately the first signs of declining health in extreme environments”.] [For experimental design and methodology see also Emmanuel-Aviña *et al.* (2017, ITEM NO. 15.1088).]

**Dodd, Norris L.; Gagnon, Jeffrey W.; Sprague, Scott; Boe, Susan; AND Schweinsburg, Raymond E.**

2012 15.934 *Wildlife accident reduction study and monitoring: Arizona State Route 64.* Phoenix: Arizona Game and Fish Department, for Arizona Department of Transportation, 99 pp. (*Arizona Department of Transportation, Research Center, Final Report 626.*) (In cooperation with U.S. Federal Highway Administration.)

**Dodson, Susan B.**

1995 15.923 *Water quality on the Colorado River, Glen Canyon Dam to Lee’s Ferry, 1994 fecal coliform monitoring : November, 1994 (Revised May 1995).* Page, Arizona: Glen Canyon National Recreation Area, 11 [13] pp.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

---

**Doemland, M. L., AND Lamm, S. H.**

1999 15.344 Perchlorate in drinking water and risk of congenital hypothyroidism [ABSTRACT]. *Toxicologist*, 48(1-S): 113.

---

**Doggett, Chris**

NO DATE 15.1041 MSG Christ Doggett (TBI). *In: Combat Wounded Veteran Challenge : Grand Canyon research expedition—2013 : the effects of extreme heat on the volume of residual limbs, a case study.* Tarpon Springs, Florida: Combat Wounded Veteran Challenge, pp. 21-22, 34-35, 42, 48, 58, 66-67. [2014.] [Personal remarks.] [Biographical sketch, pp. 79-80.] [Date obtained from URL of an online posting of this document. Refer to Combat Wounded Veteran Exchange, [ITEM NO. 15.1037](#), and Lehrer, [ITEM NO. 15.1038](#), for descriptions of study.] [Traumatic brain injury.]

---

**Doran, Maureen**

2010 15.798 Lessons learned from exposure incidents: Your work can make you ill! *HistoLogic* (Technical Bulletin for Histotechnology) (Sakura Finetek U.S.A., Inc., Torrance, California), 43(2) (December): 37-39, 41-42. [See p. 41, notice of the plague-caused death of Erik York, Grand Canyon wildlife biologist, after performing necropsy on mountain lion.]

---

**Doro-on, Anna**

2011 15.617 *Risk assessment for water infrastructure safety and security.* Boca Raton, Florida: CRC Press, 431 pp. [Includes in part Glen Canyon Dam, Hoover Dam, and lower Colorado River water-management facilities.]

---

**Douglas, Mark L., AND Borrie, William T.**

2016 15.867 Unraveling the coil of the wild: Geospatial technology and wilderness. *In: Carver, Stephen J., and Fritz, Steffen (eds.), Mapping wilderness : concepts, techniques and applications.* Dordrecht: Springer Verlag, pp. 137-144. [Includes the use of Google Trekker imagery in Grand Canyon.]

---

**Doyle, M. Ellin**

2010 15.751 White paper on effectiveness of existing interventions on virus inactivation in meat and poultry products. *FRI Food Safety Reviews* (University of Wisconsin at Madison, Food Research Institute), (June), 32 pp. [See p. 7, brief notice of 2005 incident of Colorado River rafters infected from packaged deli meats.]

---

**Driessen, G. J., AND Fleming, J. P.**

1972 15.1015 *Safety and risk management in selected areas of the National Park System : final report.* Chicago: National Safety Council, Research Department. *Volume 1*, 369 pp.;

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

*Volume 2. Photographs*, 50 pp. [Sponsored in part by the U.S. National Park Service. Includes Grand Canyon National Park and Lake Mead National Recreation Area.]

---

**Dubbs, Frank**

- 1956 15.1205 Statement of Capt. Frank Dubbs, Trans World Airline pilot. *In: Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956.* Washington, D.C.: U.S. Government Printing Office, p. 129. [Relating to the 1956 Grand Canyon air crash.]

---

**Dubit-Weiss, Gretchen L.**

- 1998 15.213 Great Grand Canyon rescue episode. *American Whitewater*, 38(6) (November/December): 58.

---

**Duncan, T. C.**

- 1892 15.543 The winter climates of California and New Mexico. *The Medical Visitor*, 8(5) (May): 145-154. [". . . the section from Flagstaff to Peach Springs [is] a desirable summer section [where] There are many points here to interest the invalid. Canon Diablo, Grand Canon of the Colorado, Cave and Cliff dwellers, etc." Proposes a sanitarium in Flagstaff for those with "diseased lungs". (ENTIRE NOTE)]

---

**Duncan, Tom**

- 2000 15.183 [Comments.] *In: Off the internet: From gcpba@egroups.com* [FEATURE]. Helicopter rescues . . . Are they appropriate in a wilderness? *The Waiting List* (Grand Canyon Private Boaters Association), 4(1) (Spring): 10. [Ellipsis is part of title.]
- 2002 15.285 [Comment.] *In: Helicopter rescues . . . Are they appropriate in a wilderness? The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 24. [From gcpba@yahoogroups.com; ellipsis is part of feature title.] [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]

---

**Duniway, M. C.; Hinck, J. E.; AND Walton-Day, K.**

- 2015 15.856 Dust emissions from uranium mines in the Grand Canyon Region [ABSTRACT]. *In: 13th Biennial Conference of Science and Management on the Colorado Plateau and Southwest Region, October 5-8, 2015, Northern Arizona University, High Country Conference Center : oral and poster abstracts*, p. 26.

---

**Dunlap, H. M.**

- 1899 15.546 The relation of climatic to other methods of treatment in pulmonary tuberculosis. *Michigan State Medical Society, Transactions*, 23: 348-352. [See p. 350, "As the season advances those cases who can stand an altitude of five or six thousand feet should move northward to the region of Prescott or Flagstaff, or still farther to the region of the Grand canon, where is found the most wonderful scenery in the world, to

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

encourage an out-of-door life in the bright sunshine, and dry, rarified and sterile air.”  
(ENTIRE NOTE)]

---

**DuPrez, Roy**

2018 15.970 Grand Canyon hike aiding in recovery. *Flagstaff Business News* (Flagstaff, Arizona), 11(2) (February): 23. [Aaron D.'s recovery from heroin addiction included a 21-hour rim-to-rim-to-rim Grand Canyon hike.]

---

**Durand, Diane**

2014 15.1282 Don't risk your life for the perfect image. *Lights and Shadows* (Grand Rapids Camera Club, Grand Rapids, Michigan), 116(7) (September): 1. [General admonishment to “watch the edge”, as it were; illustrated with a photo, “Liz at the Grand Canyon”. Liz is seated at the edge of a promontory in the Grand Canyon village area.]

E

**E., Betsi**

2004 15.539 [Note.] *In: Share Your Story* [SECTION]. *Medtronic MiniMed Connection* (Medtronic MiniMed, Northridge, California), (Fall): [4]. [Reports son's use of Paradigm 712 insulin pump while hiking in Grand Canyon during summer. Promotional.]

---

**Earle V. Miller Engineers**

1971 15.437 *Report on sewage facilities at North Rim, Grand Canyon*. San Francisco: Earle V. Miller Engineers (division of IECO/International Engineering Company, Inc.), SEPARATELY PAGINATED SECTIONS.

---

**Eastman Whipstock** [firm]

1979 15.441 [Time and cost estimate for proposed Indian Gardens sewer line, Grand Canyon National Park.] [No place]: Eastman Whipstock, SEPARATELY PAGINATED SECTIONS.

---

**Edgewater, Lydia, AND Ingram, Jani**

2008 15.783 Possible environmental exposures of uranium from sheep [ABSTRACT]. *In: 2008 SACNAS National Conference : Society for Advancement of Chicanos and Native Americans in Science : SACNAS National Conference Abstracts 2008*. Santa Cruz, California: Society for Advancement of Chicanos/Latinos and Native Americans in Science, p. 20. (2008 SACNAS National Conference, Salt Lake City, Utah, October 9-12, 2008.) [Regarding sheep grazing near uranium mines in the vicinity of Cameron, Arizona.] [See also Slinkey and Ingram (2008, ITEM NO. 15.784).]



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Edwards, David**

- 1997 15.57 Guides Defending Constitutional Rights. *Boatman’s Quarterly Review*, 10(1): 7. [Pertaining to organization against drug testing of river guides. Issue “Winter 1996-1997” mailed February 1997.]
- 

**Eidswick, Jaime; Ye, Zhirui; AND Albert, Steve**

- 2009 15.882 *Grand Canyon National Park Dynamic Message Sign (DMS)/Highway Advisory Radio (HAR) pilot deployment/evaluation : final report*. [Bozeman, Montana]: Montana State University, College of Engineering, Western Transportation Institute, for U.S. National Park Service, Grand Canyon National Park [and] U.S. Federal Lands Highway Division, 84 pp. [See also Ye *et al.* (2008, ITEM NO. 15.883).]
- 

**Eisen, Lars; Wong, David; Shelus, Victoria; AND Eisen, Rebecca J.**

- 2013 15.940 What is the risk for exposure to vector-borne pathogens in United States national parks? *Journal of Medical Entomology*, 50(2) (March): 221-230. [Grand Canyon, see pp. 4, 5.]
- 

**Eisen, Rebecca J., AND Gage, Kenneth L.**

- 2009 15.971 Adaptive strategies of *Yersinia pestis* to persist during inter-epizootic and epizootic periods. *Veterinary Research*, 40(1), 14 pp. (page numbers “not for citation purposes”). [See p. [7] of paper, reference to the “mountain lion” plague infection case at Grand Canyon, though not specifically cited as such.]

**Eisen, Rebecca J.; Petersen, Jeannine M.; Higgins, Charles L.; Wong, David; Levy, Craig E.; Mead, Paul S.; Schriefer, Martin E.; Griffith, Kevin S.; Gage, Kenneth L.; AND Beard, C. Ben**

- 2008 15.501 Persistence of *Yersinia pestis* in soil under natural conditions. *Emerging Infectious Diseases*, 14(6) (June): 941-943. [Plague bacterium in Grand Canyon mountain lion.]
- 

**El Dorado Irrigation District**

- 2003 15.573 *Recycled water use guidelines for residential dual plumbed homes*. Placerville, California: El Dorado Irrigation District, 6 pp. [See p. 2: “The El Tovar Hotel at Grand Canyon National Park used recycled water for toilet flushing in 1955.” (ENTIRE NOTE; without citation)]
- 

**Elliott, Sarah M.; King, Kerensa A.; Krall, Aliesha L.; AND VanderMeulen, David D.**

- 2024 15.1346 Trace organic contaminants in U.S. national park surface waters: Prevalance and ecological context. *Environmental Pollution*, 362 (125006) (<https://doi.org/10.1016/j.envpol.2024.125006>), 11 pp. + Supplemental Information online, 6 pp. + Excel file. [Data sources include Grand Canyon National Park and Pipe Spring National Monument.]
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Ellis, Thomas Logan**

1985 15.682 *Field treatment and disinfection of highly turbid natural water for potable use.* Master's thesis, University of Arizona, 59 pp. [Colorado River, Grand Canyon.]

---

**Ellwanger, Patty**

1993 15.58 Soap issue continues to be slippery. *The News* (Grand Canyon River Guides), 6(2) (Summer): 7. [See also reply from John O. Lancaster, and final result in Anonymous, 7(1): 11 (1994).]

---

**Emmanuel-Aviña, Glory; Abbott, Robert; Anderson-Bergman, Cliff; Branda, Catherine; Divis, kristin; Jelinkova, Lucie; Newton, Victoria; Pearce, Emily; AND Femling, Jon**

2017 15.1088 Rim-to-Rim Wearables At The Canyon for Health (R2R WATCH): experimental design and methodology. *In*: Schmorrow, Dylan D., and Fidopiastis, Cali M. (eds.), *AC: International Conference on Augmented Cognition : Augmented Cognition: Neurocognition and Machine Learning : 11th International Conference, AC 2017, held as part of HCI International 2017, Vancouver, BC, Canada, July 9-14, 2017 : proceedings, Part I*. Cham: Springer International Publishing, pp. 263-274. (Volume: Lecture Notes in Computer Science, 10285.) ["The Rim-to-Rim Wearables At The Canyon for Health (R2R WATCH) study examines metrics recordable on commercial off the shelf (COTS) devices that are most relevant and reliable for the earliest possible indication of a health or performance decline." Study is a collaboration between Sandia National Laboratories and the University of New Mexico, which collected "physiological, cognitive, and biological markers from volunteer hikers who attempt the Rim-to-Rim (R2R) hike at the Grand Canyon."] [HCI International: Human-Computer Interaction International.] [See also Divis *et al.* (2017, [ITEM NO. 15.969](#)).]

---

**Emmons, Samuel Franklin**

1907 15.601 Investigations of metalliferous ores. *In*: Emmons, S. F., and Eckel, E. C., Contributions to economic geology, 1906. Part I.—Metals and nonmetals, except fuels. *U.S. Geological Survey, Bulletin 315* (Series A, Economic Geology, 95), pp. 13-19. [See p. 16, regarding Frederick Leslie Ransome: ". . . while examining a geological section on the walls of the Grand Canyon of Colorado River the drum of his ear was accidentally punctured by a twig. What was first thought to be a trivial injury proved later to be so serious that he was obliged to submit to a surgical operation and spent several months in a hospital, where he still remains, incapacitated for work." (ENTIRE NOTE)]

---

**Entivity** [firm]

2002 15.782 *Entivity Facilities Management Success Story #503. Grand Canyon uses wireless communications to link controllers over tough terrain.* Ann Arbor, Michigan: Entivity, [2] pp. [Fact sheet, regarding the use of EntivityLive! personal computer-based control systems for "three wastewater treatment facilities, two potable water stations, and one tank farm and pumping stations located on the North Rim, South Rim and throughout the canyon."]

---

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Erol, Irfan; Tunali, Meriç Pelin; AND Yerlikaya, Nigar**

- 2010 15.1091 Norovirusların gıda güvenliği ve halk sağlığı yönünden önemi. Importance of noroviruses from the point of food safety and public health view. *Türk Veteriner Hekimleri Birliği Dergisi / Journal of Turkish Veterinary Medical Association* (Ankara), 10(3/4): 111-120. [Issue printed 25 January 2011.] [See p. 117, notes on a norovirus outbreak on Colorado River trips in Grand Canyon, citing Malek *et al.* (2009, ITEM NO. 15.432), which reported on a 2005 event.] [In Turkish, with bilingual titles and abstract.]

**Eugster, Rachel**

- 1994 15.258 The smell of the wild. *Walking*, (October):. [Outdoor toilets. Includes Grand Canyon.]

**Evans, Joe**

- 1984 15.1257 Car clouting. *Association of National Park Rangers, Newsletter*, 7[6?](1) (Spring): 17. [Regarding automobile burglaries. Includes signage placed at South Rim locales.]

F

**Falco, Richard C., AND Fish, Durland**

- 1989 15.938 Potential for exposure to tick bites in recreational parks in a lyme disease endemic area. *American Journal of Public Health*, 79(1): 12-15. [Includes note of tick-borne relapsing fever at Grand Canyon (p. 12).]

**Fallon, Laura**

- 2010 15.551 Preventative health. *Boatman's Quarterly Review*, 23(3) (Fall): (Whale Foundation insert), [2] pp. [Includes on verso, "Stretching and Preventative Health On the River".]

**Farabee, Charles R. "Butch", Jr.**

- 1983 15.1256 Charging for rescues. *Association of National Park Rangers, Newsletter*, 6[5?](3) (September): 17. [Search and rescue "wild goose chase" following the abandonment of a Colorado River river trip downstream from Phantom Ranch that left a partially submerged boat and a trail of flotsam suggesting an accident.]
- 1990 15.1261 The first helicopters in search and rescue. *Ranger* (Association of National Park Rangers, Journal), 6(4) (Fall): 13-14. [See p. 13, brief recount of a 1950 event when an Arizona Helicopter Service aircraft crashed during a search for a Colorado River unprun expedition. (No details about the expedition.)]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

- 1992 15.1262 The history of NPS awards for heroism. *Ranger* (Association of National Park Rangers, Journal), 8(3) (Summer): 20-21. [Third in a series of articles. This installment includes (p. 20) notes and quotation regarding a unit award for meritorious service to the Grand Canyon search and rescue team that (before the use of helicopters) located and recovered the body of a “seasonal ranger who fell off a cliff while hiking alone down the Tanner Trail (in July of 1954)”.]
- 1998 15.59 *Death, daring and disaster : search and rescue in the national parks.* (Foreword by Stewart L. Udall.) Boulder, Colorado: Roberts Rinehart Publishers, 504 pp.  
≡ CROSS-LISTINGS  FQ21:306 FQ23:121
- 2005 15.616 *Death, daring and disaster : search and rescue in the national parks.* Lanham, Maryland: Taylor Trade.

**Fedarko, Kevin**

- 2007 15.395 That had to hurt. (Illustrations by Frank Stockton.) *Outside*, 32(6) (July): 118-122. [See also letter to editor by Thomas Calhoun, 32(7): 19.]

**Feeley, Yvonne**

- 2016 15.876 Grand Canyon warriors: Wounded veterans heal on the rapids; it was a moment that changed the lives of two dozen combat-wounded Marines this summer. *Grand Canyon River Runner*, (19) (Spring): 10-11. [Wounded Warriors trip through Grand Canyon.]

**Fehr, Sandro**

- 2012 15.942 *Die Erschliessung der dritten Dimension : Entstehung und Entwicklung der zivilen Luftfahrtinfrastruktur in der Schweiz, 1919-1990.* Zürich: Chronos Verlag, 342 pp. (Verkehrsgeschichte Schweiz, Band 1 [Christian Rohr and Hans-Ulrich Scheidt, eds.].) [See pp. 193-194, regarding the 1956 air crash in Grand Canyon.] [In German.]

**Feito, Yuri**

- 2014 15.890 Unaccustomed exercise causes rhabdomyolysis. *MOJ Orthopedics and Rheumatology* (Malaysian Orthopaedic Journal) (Malaysian Orthopaedic Association and ASEAN Orthopaedic Association), 1(2):. [Editorial. Notes, “A 25-year-old woman required hemodialysis for six-weeks after hiking for hours in the Grand Canyon” (citing Clarkson, 1993, ITEM NO. 15.891).

**Feranec, Ján**

- 2013 15.1049 Drážďanské randevú s mapami; postrehy z medzinárodnej kartografickej konferencie (ICC). *Správysav* (Slovenská Akadémia Vied, Bratislava, Slovakia), 49(9): 12-13. [Includes (p. 13) remarks on “*Smrteľné nehody v Grand Canyon v 3D*”, a digital map that plots the locations of deaths in the Grand Canyon by K. Field and D. Demaj, with reference to the webpage <http://blogs.esri.com/esri/arcgis/2012/09/07/over-the-3d-designing-the-deaths-in-grand-canyon-map>. [In Slovak.] [NOTE: Link to an updated version of the online map: “Over the Edge: Death in Grand Canyon”, by Kenneth Field,

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

<http://carto.maps.arcgis.com/apps/webappviewer/index.html?id=9359a0790ffe4bc09edd6b9c17a43b90> (accessed 3 February 2019). Inspired by the book, *Over the Edge: Death in Grand Canyon* (Ghiglieri and Myers, 2012, ITEM NO. 15.618). A print version of an earlier rendition of the map, “Over the Edge in 3D: Death in Grand Canyon”, by Kenneth Field and Damien Demaj, is online at [http://downloads.esri.com/MappingCenter2007/blog/Jul12Images/GrandCanyon\\_EsriUC2012.pdf](http://downloads.esri.com/MappingCenter2007/blog/Jul12Images/GrandCanyon_EsriUC2012.pdf) (accessed 3 February 2019).]

**Ferguson, Rob**

NO DATE 15.1042 Rob Ferguson, guide. *In: Combat Wounded Veteran Challenge : Grand Canyon research expedition—2013 : the effects of extreme heat on the volume of residual limbs, a case study*. Tarpon Springs, Florida: Combat Wounded Veteran Challenge, pp. 21, 29, 36-37, 44, 49, 54, 60-61. [2014.] [Personal remarks.] [Biographical sketch, p. 85.] [Date obtained from URL of an online posting of this document. Refer to Combat Wounded Veteran Exchange, ITEM NO. 15.1037, and Lehrer, ITEM NO. 15.1038, for descriptions of study.]

**Festi, Luigi**

2016 15.1067 La formazione sanitaria di alto livello in montagna; un’emozionante eccellenza italiana e del Club alpino italiano. *Montagne360* (Club Alpino Italiano, Rivista) (Milano), (October): 52-55. [Regarding the World Congress of the Wilderness Medical Society’s World Congress the International Society of Mountain Medicine in Telluride, Colorado. Includes remarks and photo from the first Master in Mountain Emergency Medicine program conducted at Grand Canyon, 2015.] [In Italian.]

**Field, Kenneth**

2019 15.1053 Mapping death in Grand Canyon [ABSTRACT]. *In: Mapping Grand Canyon Conference : February 28-March 1, 2019 : Arizona State University, Tempe*. [Tempe, Arizona: Arizona State University], p. 25. [NOTE: Video recordings of each presentation at this conference were posted online at this website: <https://lib.asu.edu/mapping-grand-canyon-conference/program> (March 2019).] [NOTE: See the online map, “Over the Edge: Death in Grand Canyon”, by Kenneth Field, <http://carto.maps.arcgis.com/apps/webappviewer/index.html?id=9359a0790ffe4bc09edd6b9c17a43b90> (accessed 9 March 2019). Inspired by the book, *Over the Edge: Death in Grand Canyon* (Ghiglieri and Myers, 2012, ITEM NO. 15.618). A print version of an earlier rendition of the map, “Over the Edge in 3D: Death in Grand Canyon”, by Kenneth Field and Damien Demaj, is online at [http://downloads.esri.com/MappingCenter2007/blog/Jul12Images/GrandCanyon\\_EsriUC2012.pdf](http://downloads.esri.com/MappingCenter2007/blog/Jul12Images/GrandCanyon_EsriUC2012.pdf) (accessed 9 March 2019).]

**Flanagan, Tara**

2011 15.583 Upward. *Mountain Gazette*, (179) (May): 15. [See “Morons”; regarding Grand Canyon hikers activating SPOT device three time for non-emergencies. Spot LLC GPS (Global Positioning System) satellite messenger.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

- 2011 15.610 Footwork. *Mountain Gazette*, (181) (August/September): 14. [See “Got an app for that?”; in part regarding Grand Canyon visitor falling from rim while backing up to take pictures.]

**Fleming, Patrick A.**

- 1990 15.571 Water supply, reclamation and reuse at Grand Canyon: A case study. *In: Proceedings of CONSERV 90 : the national conference and exposition offering water supply solutions for the 1990s : August 12-16, 1990, Phoenix Civic Plaza, Phoenix, Arizona.* Dublin, Ohio: National Water Well Association, pp. 129-133. [Dual water use system.]

**Flexner, Stuart, AND Flexner, Davis**

- 1992 15.60 *The pessimist’s guide to history.* New York: Avon Books, 387 pp. [See item on 1956 air crash, p. 276.]

**Flight Safety Foundation Editorial Staff**

- 2004 15.697 Maneuver cited in AS 350’s uncontrolled descent; the U.S. National Transportation Safety Board said that the pilot on the Grand Canyon air tour apparently flew the helicopter over a cliff and then initiated a descent that he was unable to stop. *Helicopter Safety* (Flight Safety Foundation), 30(4) (July/August): 1-6 [entire issue]. [Eurocopter AS 350B2 crash near Meadview, Arizona, August 10, 2001.]

**Focardi, Dave**

- 2002 15.245 The solution. *The Confluence* (Colorado Plateau River Guides), (25) (February): 21. [Portable toilet system.]

**Fonesca, Felicia, AND York, Matt**

- 2020 15.1147 Tourists enter reopened Grand Canyon despite virus concerns. *Turtle Island* (Okarahshona kenh Onkwewonwene, Six Nations of the Grand [Six Nations Grand River Territory], Ohsweken, Ontario, Canada), 3(22) (May 20): 7. [Credited to Associated Press.] [COVID-19.]

**[Fonesca, Felicia, AND York, Matt]**

- 2020 15.1148 Tourists enter reopened Grand Canyon despite concerns. *Stars and Stripes* (Pacific Stars and Stripes, San Francisco), 79(20B) (Contingency Edition) (May 17): 9. [Credited to Associated Press, without byline.] [COVID-19 concerns.]

**Fontana, Bunny**

- 2001 15.239 San Juan Nepomuceno—Jan Nopomuk in Bohemia; our river running saint. *The Waiting List* (Grand Canyon Private Boaters Association), 5(3) (Fall): 9.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Ford, Bacon and Davis Utah, Inc.** [firm]

- 1981 15.667 *Engineering assessment of inactive uranium mill tailings : Tuba City site, Tuba City, Arizona.* Salt Lake City: Ford, Bacon and Davis Utah, Inc., for U.S. Department of Energy, Albuquerque Operations Office, Uranium Mill Tailings, and Remedial Actions Project Office, Albuquerque, New Mexico, SEPARATELY PAGINATED SECTIONS, and separate Errata sheet. (Contract No. DE-AC04-76GJ01658. DOE/UMT-0120. FBDO 360-05. UC70[A].) [Errata sheet, 1982?] [Includes notes of procesing uranium ore from Orphan Mine, Grand Canyon.]

**Ford, Kitty**

- 2005 15.793 Dangerous encounter. *Wilderness Medicine*, 22(4) (Fall): 12-13. [Scorpion sting at The Ledges on the Colorado River in Grand Canyon. Personal account.]

**Forté, Timothy P.**

- 1993 15.1223 Statement of Timothy P. Forté, Director, Office of Aviation Safety, National Transportation Safety Board. *In: Oversight of Grand Canyon overflights : hearing before the Subcommittee on Aviation of the Committee on Commerce, Science, and Transportation, United States Senate, One Hundred Second Congress, Second Session : July 7, 1992.* Washington, D.C.: U.S. Government Printing Office, pp. 5-18. (S. Hrg. 102-1014.) [Substantially concerning accidents and air safety in the Grand Canyon airspace.]

**Fowler, Gene**

- 2005 15.350 Rim to rim to rim in the summertime. *Footprints*, (13) (September): 4-6.

**Frank, Beryl**

- 1981 15.61 *Plane crashes.* New York: Bell Publishing Co., 80 pp. [See "Salt Lake! United 718! We're going in!", pp. 22-23.]  
 ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 8: page 12-9](#)

**Frank, Joe**

- NO DATE 15.1043 OS2 Joe Frank (TBI). *In: Combat Wounded Veteran Challenge : Grand Canyon research expedition—2013 : the effects of extreme heat on the volume of residual limbs, a case study.* Tarpon Springs, Florida: Combat Wounded Veteran Challenge, pp. 22-25, 32, 41-42, 47, 52, 58, 65-66. [2014.] [Personal remarks.] [Biographical sketch, p. 81.] [Date obtained from URL of an online posting of this document. Refer to Combat Wounded Veteran Exchange, [ITEM NO. 15.1037](#), and Lehrer, [ITEM NO. 15.1038](#), for descriptions of study.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Fransen, Curt**

- 1999 15.62 It is much easier to kayak and next time I'll row. *In*: How hard is it? and related topics; running the "Grand" [FEATURE]. *The Waiting List* (Grand Canyon Private Boaters Association), 3(1) (February): 18.
- 

**Friedlander, Herzl; Billstein, Stephan; Chin, James; Holmes, Chris; Christiansen, Ned; AND Fukushima, Taira**

- 1973 15.803 Follow-up on relapsing fever—United States. *Morbidity and Mortality Weekly Report* (U.S. Public Health Service), 22(32) (August 11): 268. [Follow-up to Luckey *et al.* (1973, ITEM NO. 15.801) and White *et al.* (1973, ITEM NO. 15.802).] [North Rim, Grand Canyon.]
- 

**Friesen, H. N.**

- 1995 15.666 *A perspective on atmospheric nuclear tests in Nevada : fact book.* Las Vegas, Nevada: Raytheon Services Nevada, for U.S. Department of Energy, Nevada Operations Office, Las Vegas, Second Revision, 45 pp. (Contract No. DE-AC08-91NV10833. NVO-296(Rev.2).) [Includes region north and west of Grand Canyon.]
- 

**Frisch, Karl Erik**

- 2000 15.233 *Drownings at Glen Canyon National Recreation Area, 1969-1996 : a Geographic Information System based evaluation.* Master's thesis, Northern Arizona University, 113 pp.
- 

**Fritzsche, A. E.**

- 1994 15.763 *An aerial radiological survey of the Trinity fallout area, White Sands Missile Range, New Mexico. Date of survey: May-June 1992.* [No place]: EG&G Energy Measurements, for U.S. Department of Energy, 28 pp. (contract No. DE-AC08-93NV11265.) (EGG 11265-1037.) [Includes references to the Lake Mead Test Line as calibration for A-100 gamma system sensitivity to point sources (pp. 3, 4, 5; with slightly more elaborative information, p. 7).]
- 

**Frost, F. J.; Muller, T.; Craun, G. F.; Calderon, R. L.; AND Roefer, P. A.**

- 2001 15.240 Paired city *Cryptosporidium* serosurvey in the southwest USA. *Epidemiology and Infection*, 126: 301-307. [Includes Las Vegas, which "uses chlorinated filtered drinking water from Lake Mead".]
- 

**Fuqua, Brad**

- 2004 15.326 Park airlifts 17 people off stuck raft. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(4) (Winter/Spring): 28. [Unkar Rapid, September 11, 2003. Apparently reprinted from *Williams-Grand Canyon News*.]
-



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Furnas, Clifford C.**

- 1956 15.1213 Statement of Dr. C. C. Furnas, Assistant Secretary of Defense, Research and Development, and Chairman, Air Navigation Development Board. *In: Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956.* Washington, D.C.: U.S. Government Printing Office, pp. 293-316. [Relating to the 1956 Grand Canyon air crash.]
- 

G

**Gagne, Joel R.**

- 2019 15.1061 Grand Canyon POTA activation—April 12. *Signals from SARA* (Stillwater Amateur Radio Association, Stillwater, Minnesota), (April): 11. [Item signed “Joel KEØOVH”; identity ascertained through Federal Communications Commission website.] [Brief note that the writer “will be activating Grand Canyon National Park April 12 for Parks On The Air”, operating with portable equipment within the park. (No further details.) The Parks on the Air<sup>SM</sup> program relates to “portable amateur radio operations that promote emergency awareness and communications form national and state/province level parks” (from the POTA website, <https://parksontheair.com>).]
- 

**Gaither, Marlene**

- 1994 15.63 Meet Marlene. *The News* (Grand Canyon River Guides), 7(1) (Winter 1993/1994): 15. [Coconino County Health Department and food inspections.]
- 1994 15.64 Food for thought. *Boatman’s Quarterly Review*, 7(2) (Spring): 11.
- 2002 15.323 *Backcountry environmental health manual.* Flagstaff, Arizona: Coconino County Department of Health Services, Environmental Health, 88 pp.
- 2003 15.299 Food handler’s courses at home. *Boatman’s Quarterly Review*, 16(1) (Spring): 44.
- 2007 15.467 Plague activity in Coconino County. *The Outlook* (Arizona Environmental Health Association), (December): 2.
- 2008 15.471 Norovirus outbreaks of [*sic*] rafting trips in the Grand Canyon [ABSTRACT]. *National Environmental Health Association, 72nd Annual Educational Conference and Exhibition, Tucson, Arizona, June 22-25, 2008.*
- 2009 15.481 Tolio update July 2009. *Boatman’s Quarterly Review*, 22(3) (Fall): 3.
- 2009 15.483 Hantavirus: An update and prevention tips. *Boatman’s Quarterly Review*, 22(3) (Fall): 16.
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Galster, Kellen; Rufin, Kahye; Berkeley, Ross P.; AND Slattery, David**

- 2014 15.835 Helicopter Emergency Medical Service (HEMS) utilization patterns by the National Park Service in Lake Mead National Recreation Area from 2008-2011. *Air Medical Journal*, 33(4) (July/August): 144.

**Garde aérienne suisse de sauvetage Rega** [see also Schweizerische Rettungsflugwacht Rega]

- 2020 15.1172 *Rega 2020 : avec Rapport annuel 2019*. Zurich-Aéroport: Garde aérienne suisse de sauvetage Rega, 40 pp. [including wraps]. [See "Dates clés" (pp. 24-25), which includes (p. 24), "1956. Aide d'urgence aux États-Unis. Après un accident d'avion dans une gorge inaccessible du Grand Canyon, des pionniers de la Garde aérienne suisse de sauvetage dégagent les corps sans vie de 128 passagers." (ENTIRE NOTE)] [In French.]

**Garrison, John A.**

- 1956 15.1196 Statement of John A. Garrison, Chief, Facilities Operations Branch, Fourth Regional Office, Los Angeles, Calif., Civil Aeronautics Administration. *In: Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956*. Washington, D.C.: U.S. Government Printing Office, pp. 30-39. [Relating to the 1956 Grand Canyon air crash.]

**Garrison, Peter**

- 1981 15.647 Crisis at the canyon; if the average twin pilot has a good chance of crashing after an engine failure, is it his fault or the airplane's? *In: Aftermath* [SECTION]. *Flying*, 108(10) (October): 104-106. [Cessna 404 crash after takeoff from Grand Canyon National Park Airport.]
- 1984 15.643 Blind alley. *Flying*, 111 (November): 22. [Piper Navajo crash in Grand Canyon.]  
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 1-23]
- 1993 15.588 Too close to the scenery. *Flying*, 120(8) (August): 48, 50. [See also comment by Frank L. Jensen, Jr., 120(10) (October): 14.]
- 1994 15.644 Bounced landing. *In: Aftermath* [SECTION]. *Flying*, 121(1) (January): 42-43. [de Havilland DHC-6-300 Twin Otter crash at Grand Canyon National Park Airport.]
- 2001 15.234 Numbers game. *In: Aftermath* [SECTION]. *Flying*, 128(2) (February): 86-88. [Cessna 172RG crash north of Grand Canyon National Park Airport.]

**Garthe, Edmund C., AND Gilbert, Wilfred C.**

- 1968 15.656 Wastewater reuse at the Grand Canyon. *Water Pollution Control Federation, Journal*, 40(9) (September): 1582-1585.  
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 2: page 88| |CITED» GCNHA Monograph 8: page 4-15]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

*gcpba Newswire* see [Grand Canyon Private Boaters Association], *gcpba Newswire*

**Geanious, Chris**

- 2006 15.352 In reference to Blair Kuropatkin’s “Dear Eddy” article in BQR 18:3, writing in reference to “The Surprising Truth About Addiction” by Stanton Peele in BQR 18:2. *In*: Dear Eddy [SECTION]. *Boatman’s Quarterly Review*, 18(4) (Winter 2005/2006): 4. [Original items not cited herein because they are out of scope.]

**George, Tiffany**

- 2001 15.214 Tiffany. *In*: Return from Havasu. *Boatman’s Quarterly Review*, 14(2) (Summer): 32-34. [Item pp. 32-35.]

**Ghiglieri, Michael P., AND Myers, Thomas M.**

- 2000 15.205 Tragedy in Little Nankoweap. *Grand Canyon Footprints* (Grand Canyon Hikers and Backpackers Association), 1(1): [6-7]. [Excerpt from forthcoming book, *Over the Edge: Death in Grand Canyon*.] [Issue distributed January 2001.]
- 2001 15.215 *Over the edge: Death in Grand Canyon : gripping accounts of all known fatal mishaps in the most famous of the World’s Seven Natural Wonders*. Flagstaff, Arizona: Puma Press, 408 pp. [Hardbound and paperbound states.] [26 printings during 2001, including 16 with slight but unstated revisions (*fide* Richard D. Quartaroli).]  
 ≡ CROSS-LISTINGS **FORD 91** FQ17A:381A [hardbound], B [paperbound] FQ18:152A [hardbound], B [3rd printing, paperbound] FQ19:234A [hardbound], 234B [paperbound] FQ19A:29A [hardbound], 29B [paperbound] FQ22:124A [1st, hardbound], 124B [paperbound, “later printing”] FQ23:147A [1st, hardbound], 147B [paperbound, 11th printing] FQ24/1:306A [1st, hardbound], 306B [paperbound, 11th printing] FQ26:132 [“2001, 1st edition, 11th printing, 9th revision”] FQ30:115 [1st] THOMAS 747  
 ≡ REVIEWS AND NOTICES *Abyssus*, 2001, ITEM NO. 30.331; *Beard*, 2003, ITEM NO. 30.988; *Coltrin*, 2002, ITEM NO. 30.363; *McGivney*, 2002, ITEM NO. 30.864; *Drifter Smith*, 2001, ITEM NO. 30.339; *Stephanides*, 2002, ITEM NO. 30.1133
- 2012 15.618 *Over the edge: Death in Grand Canyon : gripping accounts of all known fatal mishaps in the most famous of the World’s Seven Natural Wonders*. Flagstaff, Arizona: Puma Press, expanded and revised 2nd ed., 586 pp. [Cover notes: “Newly Expanded 10th Anniversary Edition”.] [Five printings during 2012-2015, including four with slight but unstated revisions (*fide* Richard D. Quartaroli).]  
 ≡ REVIEWS AND NOTICES *Anonymous*, 2012, ITEM NO. 30.1014; *Abonnel*, 2013, ITEM NO. 30.1614. *NEW YORK TIMES*: *Monroe*, 2015 November 15, ITEM NO. 3.1883
- 2024 15.1350 *Over the edge: Death in Grand Canyon : gripping accounts of all known fatal mishaps in the most famous of the World’s Seven Natural Wonders*. Flagstaff, Arizona: Puma Press, revised and expanded 3rd., 659 pp.  
 ≡ REVIEWS AND NOTICES *O’Brien*, 2024, ITEM NO. 30.1674

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Gibbs, Fred**

- 2015 15.832 GAARMS report: August 2015. *Arizona Pilots Association Newsletter*, (August): 12-15. [General Aviation Accident Redudtion and Mitigation Symposium. See "Flying Over the Grand Canyon", p. 14.]
- 

**Gibbs, J. P.; Crump, C.; Michaud, P.; Tälletz, R.; Reyes, C.; Gonzalez, G.; Crump, K. S.; Montgomery, E. L.; Lobo, G.; AND Becerra, C.**

- 2000 15.342 Is thyroid function suppressed among neonates or young school children with perchlorate in their drinking water supply? [ABSTRACT]. *Teratology*, 61(6): 521-522. [Includes lower Colorado River water.]
- 

**Gillet, Ed**

- 1957 15.820 Air mystery is solved. *In*: Letters to the Editors [SECTION]. *Life*, 42(20) (May 20): 16. [Remark on article by Mary H. Cadwalader in April 29 issue (ITEM NO. 15.43).]
- 

**Gilpin, Lyndsey**

- 2016 15.965 Sexual harassment in the Big Ditch. *High Country News*, 48(3) (February 22): 3. [Brief news item regarding National Park Service Office of the Inspector General report on harassment on NPS Colorado River trips in Grand Canyon.]
- 2016 15.966 How the Park Service is failing women; for decades, the agency tasked with safeguarding our greatest public lands has neglected to protect its workers from discrimination and abuse. *High Country News*, 48(21) (December 12): 1 [cover], 2, 10-13, 16-19. [Includes Grand Canyon National Park.]
- 

**Gioia, Gustavo; Chakraborty, Pinaki; Gary, Stefan F.; Zuñiga Zamalloa, Carlo; AND Keane, Richard D.**

- 2013 15.670 Residence time of buoyant objects in drowning machines. *U.S. National Academy of Science*, PNAS Early Edition, doi:10.1073/pnas.1015183108, 3 pp. + Supporting Information online ([www.pnas.org/lookup/suppl/doi: 10.1073/pnas.1015183108/-/DCSupplemental](http://www.pnas.org/lookup/suppl/doi:10.1073/pnas.1015183108/-/DCSupplemental)), 25 pp. [Includes notice of fatal accident in Crystal Rapid, Grand Canyon, 1982, p. 1.]
- 

**Givler, Amy M.**

- 2012 15.759 Surviving childhood. *The Hippocratist* (Ouachita Medical Society, Monroe, Louisiana), 15(2) (Fall/Winter): 26, 28. [Notes death risk factors in Grand Canyon (p. 28).]
- 

**Glickman, Dan, AND Babbitt, Bruce**

- 2001 15.558 Urban wildland interface communities within the vicinity of Federal lands that are at high risk from wildfire. *Federal Register*, 66(3) (January 4): 751-777. [Summary document; "Grand Canyon Village" listed, p. 755.]
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Goff, M. Lee**

2000 15.303 *A fly for the prosecution : how insect evidence helps solve crimes.* Cambridge, Massachusetts: Harvard University Press, 225 pp.

---

**Goldstein, Susan T.; Juranek, Dennis D.; Ravenholt, Otto; Hightower, Allen W.; Martin, Debra G.; Mesnik, June L.; Griffiths, Sean D.; Bryant, Angela J.; Reich, Rick R.; AND Herwaldt, Barbara L.**

1996 15.1010 Cryptosporidiosis: an outbreak associated with drinking water despite state-of-the-art water treatment. *Annals of Internal Medicine*, 124(5) (March 1): 459-468. [See also Erratum, 125(2) (July 15): 158.] [Clark County, Nevada. Includes Lake Mead source water.]

---

**Gorman, Jim**

2005 15.519 Would you survive. *Popular Mechanics*, 182(8): 62-69. [See "Canyon Missteps", p. 67.]

---

**Gorvett, Zaria**

2017 15.994 In a remote region of the US, a town is struggling with a chilling health crisis caused by a recessive gene. The reason? Here, polygamy is still practised. *Institute of Anatomical Sciences Supplement of World News* (United Kingdom), (55) (August): 16-18. [Hildale, Utah, and Colorado City, Arizona.]

---

**Goubau, P. F.**

1984 15.1233 Relapsng fevers. A review. *Société Belge de Médecine Tropicale, Annales*, 64: 335-364. [Under "Epidemiology", brief notes of outbreaks of *Borrelia hermsii* at Grand Canyon (p. 345), including "The largest outbreaks ever recorded occurred in 1973 at Grand Canyon National Park with 62 possible and 16 confirmed cases among visitors and park employees", citing Boyer *et al.* (1977, [ITEM NO. 15.39](#)).]

---

**Goudey, R. F.**

1948 15.1026 Industrial uses of reclaimed sewage effluents—a discussion. *Sewage Works Journal*, 20(1) (January): 13-14. [Discussion of Veatch (1948, [ITEM NO. 15.1025](#)). Grand Canyon, see p. 13.]

---

**Grand Canyon Association**

1997 15.69 *Hiking Grand Canyon.* (With Denise Traver and Mike Buchheit; narrated by Lon Ayers; produced and directed by Environmental Media Corp.; Anita Davis, project coordinator.) Grand Canyon, Arizona: Grand Canyon Association, in cooperation with National Park Service. Video, close-captioned in English, playing time 21:00. Accompanied by Video Companion Brochure, *Hiking Grand Canyon* (1 leaf, folded).

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

- 1997 15.70 *Hiking Grand Canyon*. Grand Canyon, Arizona: Grand Canyon Association, in cooperation with National Park Service, 1 leaf (folded). (Video Companion Brochure accompanying videotape, *Hiking Grand Canyon*.)

**[Grand Canyon Private Boaters Association], *gcpba Newswire***

- 1999 15.65 Radio change. *The Waiting List* (Grand Canyon Private Boaters Association), 3(1) (February): 15-16. [Originally distributed electronically via *gcpba Newswire*, October 15, 1998.]
- 1999 15.66 Search unsuccessful. *The Waiting List* (Grand Canyon Private Boaters Association), 3(1) (February): 16-17. [Robert Tarr, III.]
- 1999 15.67 Man dies after fall into Colorado River. *In*: Newswire quarterly review. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 3(3) (August): 25. [Todd Strickland. Originally distributed electronically via *gcpba Newswire*, May 30, 1999.]
- 1999 15.68 Phantom exchange risk. *In*: Newswire quarterly review. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 3(3) (August): 26-27. [Originally distributed electronically via *gcpba Newswire*, May 6, 1999.]
- 1999 15.170 Western wrecks at Crystal. *In*: Newswire quarterly review. *The Waiting List* (Grand Canyon Private Boaters Association), 3(4) (December): 22-23. [Originally distributed electronically via *gcpba Newswire*, August 21, 1999. See also response from Western River Adventures, p. 23.]
- 2003 15.316 Intestinal illness forces evacuation—Sept. 12, 2003. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(3) (Fall): 44.

**Grand Canyon River Guides, Board of Directors**

- 2004 15.324 Medical control quandaries. *Boatman’s Quarterly Review*, 17(1) (Spring): 12-13. [Letter to Superintendent, Grand Canyon National Park, January 31, 2004. For response, see *bqr*, 17(2): 26 (Alston, 2004, [ITEM NO. 15.328](#)).]

**Grand Canyon Unified School District #4**

- 2022 15.1242 *COVID-19 mitigation plan for the Grand Canyon Unified School District #4 : 2021-2022 school year : revision 1.0, approved, January 21, 2022*. [No imprint], 19 pp.

**Gray, Kurt; Young, Liane; AND Waytz, Adam**

- 2012 15.672 Mind perception is the essence of morality. *Psychological Inquiry*, 23: 101-124. [See p. 110, note on “implicit perceptions of harm [that] drive moral judgment”, with brief example of person standing on the Grand Canyon Skywalk, Hualapai Indian Reservation at Grand Canyon.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Greco, Deanna**

- 2011 15.581 Closure of abandoned mine lands in Grand Canyon National Park. *Boatman's Quarterly Review*, 24(2) (Summer): 12. [Bass Copper Mine, Pinto Mine, Tanner-McCormick Mine, Copper Grant Mine, Grandview Mine adits.]
- 

**Green, Keith**

- 2010 15.563 The demise of the Lost Orphan Mine. *The Ol' Pioneer* (Grand Canyon Historical Society), 21(4) (Fall): 12-14.
- 

**Greenleaf, John E.**

- 1966 15.625 Involuntary hypohydration in man and animals: A review. *U.S. National Aeronautics and Space Administration, Special Publication SP-110*, 34 pp. [See pp. 3-4, notes of early physiological work by David Bruce Dill on workers building Hoover Dam.]
- 

**Greenquist, James C.**

- 1956 15.444 Operation Granite Mountain. *U.S. Army Aviation Digest*, 2(10) (October): 5-9. [Recovery operation following commercial aircraft crash in Grand Canyon.]
- 

**Grua, Kenton**

- 1993 15.71 Poison. *The News* (Grand Canyon River Guides), 6(4) (Fall): 7.
- 

**Grua, Michelle**

- 2004 15.337 WFR time again? *Boatman's Quarterly Review*, 17(4) (Winter 2004-2005): 43. [Wilderness First Responder.]
- 

**Grusy, Bob**

- 1999 15.72 Whale Foundation. *Boatman's Quarterly Review*, 12(3) (Summer): 11.  
 2001 15.235 The Whale Foundation. *Boatman's Quarterly Review*, 14(4) (Winter 2001-2002): 19.

**Grusy, Bob; Hatch, Sarah; Karls, Bill; Pitagora, Robby; AND Reiff, Sandy**

- 1998 15.73 The Whale phone. *Boatman's Quarterly Review*, 11(3) (Summer): 12. [Whale Foundation.]
- 

**Guides Defending Constitutional Rights**

- 1997 15.74 Guides Defending Constitutional Rights. *The Confluence* (Colorado Plateau River Guides), 4(1) (Spring): 18. ["Excerpt from a brochure by the same."]  
 1997 15.75 David Edwards, Plaintiff. *Boatman's Quarterly Review*, 10(2) (Spring): 11.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

---

**Guillou, R. B.; Hand, J. E.; AND Borella, H. M.**

- 1963 15.1079 *Las Vegas area (ARMS-II)*. Santa Barbara, California: Edgerton, Germeschausen and Grier, Inc., for U.S. Atomic Energy Commission, Civil Effects Test Operations, 21 pp., 6 plates. (Civil Effects Study CEX-61.6.1.) [Aerial Radiological Measuring Survey, to establish baseline background radiation. ARMS-II area embraces most of southern Nevada, including Lake Mead region and adjacent northwestern Mohave County, Arizona.]

---

**Gumbo, B.**

- 1998 15.313 Dual water supply systems; "is it just another pipe dream?" *In: WEDO Conference on Small and Medium Size Domestic Water Conservation, Wastewater Treatment and Reuse, Bethlehem, Palestine, 21-24 February 1998.*

---

## H

**H., Roy**

- 2012 15.838 Rim2Rim2Rim: A "Grand" adventure. *In: From Our Athletes* [SECTION]. *Endurance News* (Hammer Nutrition, Whitefish, Montana), (81) (August/September): 66. [Essentially a promotional piece for Hammer Nutrition products carried for rehydration and nutrition during a rim-to-rim run by the author and his son.]

---

**Hage, Rushika**

- 2002 15.249 Cochineal. *Grand Canyon Footprints*, 1(4) (Spring): 5. [NOTE: Issue numeration reversed from convention, as "Issue 1, Volume 4".]

---

**Haines, Richard F.**

- 2000 15.507 *Aviation safety in America—a previously neglected factor*. [Vallejo, California]: National Aviation Reporting Center on Anomalous Phenomena, 88 pp. (NARCAP TR 01-2000.) [Civilian agency. See p. 66, phenomenon "N. of Grand Canyon, Arizona", January 7, 1978.]

---

**Hall, Dan**

- 2016 15.962 In reference to the article, "Wait Is There More?", in BQR volume 29 number 2, Summer 2016. *In: Dear Eddy* [SECTION]. *Boatman's Quarterly Review*, 29(3) (Fall): 5-6. [Comment on the item by Skeen *et al.* (ITEM NO. 15.964), regarding recent issues of charges of sexual harassment during National Park Service river trips on the Colorado River in Grand Canyon.]
-



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Hall, Suzanne**

2002 15.260 Trek tips for navigating the wilderness. *Arthritis Today*, (March/April):.

---

**Halperin, David**

1956 15.1202 Statement of Capt. David Halperin, Chairman, TWA Air Safety Committee. *In: Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956.* Washington, D.C.: U.S. Government Printing Office, pp. 104-116, 117-125. [Relating to the 1956 Grand Canyon air crash.]

---

**Hamilton, Lynn**

2003 15.322 Food handler’s info. *Boatman’s Quarterly Review*, 16(4) (Winter): 13.

2006 15.353 The administration of epinephrine—to legalize or not? *Boatman’s Quarterly Review*, 18(4) (Winter 2005-2006): 12-13.

2006 15.379 Signed, sealed and delivered—an epi law is on the books! *Boatman’s Quarterly Review*, 19(2) (Summer): 6. [Epinephrine.]

2014 15.816 WFR recert. *Boatman’s Quarterly Review*, 27(4) (Winter 2014-2015): 3. [Wilderness First Responder recertification. Announcement for “Canyon and River Medicine” recertification class.]

---

**Haney, P. D., AND Hamann, C. L.**

1965 15.1023 Dual water systems. *American Water Works Association, Journal*, 57(9): 1073-1098. [Potable and gray water. Includes Grand Canyon village.]

---

**Hanson, Mark; McAndrews, Carolyn; AND Berkeley, Emily**

2005 15.700 *History of aviation safety oversight in the United States.* Berkeley, California: University of California at Berkeley, Institute of Transportation Studies, 64 pp. (Research Report NR-2005-001.) [Includes imprint, “NEXTOR, The National Center of Excellence For Aviation Operations Research”.] [Grand Canyon air crash of 1956, see pp. vii, 18.]

---

**Hanson, Norm**

2006 15.367 The Whale Foundation presents—Hitting the wall: Metaphors from the Canyon for mental health. *Boatman’s Quarterly Review*, 19(1) (Spring): 19-20.

---

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Harned, Kristin**

- 2011 15.609 Beating the off-season blues. *Boatman's Quarterly Review*, 24(4) (Winter 2011-2012): 14-15.
- 2012 15.642 Our immune systems: Get rid of the sludge. *Boatman's Quarterly Review*, 25(4) (Winter 2012-2013): 36-37.

**Harned, Kristin, AND Fawcett, Kim**

- 2011 15.597 Aluminum people? *Boatman's Quarterly Review*, 24(3) (Fall): 21.

**Harris, Joe**

- 2013 15.993 (FACILITATOR) *Grand Wash heat-related illness : facilitated learning analysis : Arizona Strip BLM, August 2013*. [No place]: [U.S. Bureau of Land Management, Dixie National Forest, Pine Valley Ranger District?], 12 pp. [Grand Wash Fire, August 2013.]

**Harris (Mr.) [Harris, Oren]**

- 1957 15.1191 [Remarks relating to the 1956 air crash in Grand Canyon.] *Congressional Record—House*, (July 1): 10706-10708. [Includes a reprinting of an article by Robert J. Serling in the *Washington Post* and the *Times-Herald* (Washington) (ITEM NO. 15.1192).]

**Hartsough, Don M.**

- 1988 15.608 Variables affecting duty-related stress after an air crash disaster. *University of Colorado, Natural Hazards Research and Applications Information Center, Quick Response Research Report 26*, 18 pp. [Principally in the aftermath of a mid-air collision of airplane and helicopter over Grand Canyon, June 18, 1986.]

**Harvey, Tim**

- 2010 15.1269 Facility management as a career. *Ranger* (Association of National Park Rangers, Journal), 26(4) (Fall): 2. ["It was through his [former boss Norm Turner at Yosemite National Park] that I found myself at the Grand Canyon where I served as the wastewater treatment plant operator leader. I took advantage of every available opportunity and learned to aggressively seek out and accept new responsibilities and challenges." (ENTIRE NOTE)]

**Hattaway, Patrick**

- 1998 15.76 Cost for a medical evacuation by air. *The Waiting List* (Grand Canyon Private Boaters Association), 2(2) (May): 19.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Havasupai Tribe**

- 2022 15.1254 *Havasupai Tribe Hazard Mitigation Plan : plan to reduce harm from hazards to Havasu Baaja.* [Supai, Arizona]: Havasupai Tribe, 169 pp. + appendices.
- 

**Hawkings, Keith**

- 2000 15.184 [Comments.] *In*: Three helicopter rescues [FEATURE]. *The Waiting List* (Grand Canyon Private Boaters Association), 4(1) (Spring): 12.
- 2002 15.287 [Comment.] *In*: Three helicopter rescues. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 26. [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]
- 

**Háy, György**

- 2013 15.1046 *Légibalesetek pilótaszemmel III.* [No place]: Typotex. [See "Óriásgépek a Grand Canyon mélyén; 1956. június 30-án a Grand Canyon felett fényes nappal egymásnak ütközött a United Airlines DC-7-es és a TWA légitársaság Super Constellation típusú utasszállító repülőgépe", pp. 113-122. [1956 air crash.] *[In Hungarian.]*
- 

**Hayden, Erin**

- 2009 15.494 Prepare your knees! *Grand Canyon River Runner*, (9) (Fall): 14.
- 

**Hays, Hank**

- 2005 15.359 Saved by the toilet. *In*: Stephenson, R. J. (ed.), Grand groover chronicles; how's it going? [FEATURE]. *The Waiting List*, 7(2) (Winter): 51-52.
- 

**Hedrick, Philip W.**

- 1994 15.236 Evolutionary genetics of the major histocompatibility complex. *American Naturalist*, 143(6): 945-964. [Includes Havasupai.]
- 

**Hendrix, Steve**

- 2000 15.997 Search and rescue at Grand Canyon. *Reader's Digest*, 157 (July): 74-83.
- 

**Heggie, Travis W., AND Amundson, M. E.**

- 2009 15.485 Dead men walking: search and rescue in US national parks. *Wilderness and Environmental Medicine*, 20(3) (Fall): 244-249.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Heggie, Travis W.; Heggie, Tracey M.; AND Kliewer, Colin**

2008 15.465 Recreational travel fatalities in US national parks. *Journal of Travel Medicine*, 15(6) (November/December): 404-411. [Survey during 2003-2004. Includes Grand Canyon National Park and Lake Mead National Recreation Area.]

---

**Helin, Nancy**

1995 15.77 The five minute fix-it. *Boatman's Quarterly Review*, 8(3): 43.

---

**Hensel, Doug**

2013 15.791 Happy trails. *Carolina Godiva Track Club* (Durham, North Carolina), 39(3) (December): 1, 5. [A different perspective from the article by Hensel in the July 2013 issue (ITEM NO. 2.21208). An attempt at a rim-to-rim-to-rim run.]

---

**Hew-Butler, Tamara; Rosner, Mitchell H.; Fowkes-Godek, Sandra; Dugas, Jonathan P.; Hoffman, Martin D.; Lewis, Douglas P.; Maughan, Ronald J.; Miller, Kevin C.; Montain, Scott J.; Rehrer, Nancy J.; Roberts, William O.; Rogers, Ian R.; Siegel, Arthur J.; Stuempfle, Kristin J.; Winger, James M.; AND Verbalis, Joseph G.**

2015 15.1234 Statement of the third International Exercise-Associated Hyponatremia Consensus Development Conference, Carlsbad, California, 2015. *Clinical Journal of Sport Medicine*, 25(4) (July): 303-320. [See p. 306, remarks on symptomatic EAH in Grand Canyon hikers who sought medical care.]

---

**Heydari, Mo**

2008 15.468 Meet the recipient of 2007 Arizona Environmental Health Professional of the Year. *The Outlook* (Arizona Environmental Health Association), (July): 7-8. [Marlene Gaither.]

---

**Higgins, Charles L.**

2002 15.289 *Outbreak of gastrointestinal illness in Grand Canyon river rafters. Preliminary report.* [U.S. Public Health Service, assigned to U.S. National Park Service, Public Health Program, Intermountain Region], 6 pp.

2004 15.469 The National Park Service's Public Health Program and the PHS Commissioned Corps. *Commissioned Corps Bulletin* (U.S. Department of Health and Human Services, Division of Commissioned Personnel), 18(3) (March): 2-3. [PHS: U.S. Public Health Service. See note of drinking water supply at Grand Canyon, p. 3.]

---

**Higgins, Charles L.**

2004 15.1055 Virus stopped by alert ranger!! *Public Health Update* (U.S. National Park Service, Visitor and Resource Protection Directorate, Office of Public Health), (March 13): [1]-[2]. [On February 18 Grand Canyon National Park ranger Ivan Kassovic recognized a potential Norovirus outbreak when a hiker presented symptoms at Phantom Ranch.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

- 2005 15.1266 NPS 025 rangers and public health: A natural partnership. *Ranger* (Association of National Park Rangers, Journal), 21(4) (Fall): 8-9. [Features a pilot program that had begun informally at Grand Canyon, regarding the detection of illness connected to a recent park visit.]

**High Road Engineering, Inc.**

- 2014 15.1051 *Tribal Transportation Safety Plan : Kaibab Band of Paiute Indians*. St. George, Utah: High Road Engineering, Inc., for Kaibab Band of Paiute Indians, SEPARATELY PAGINATED SECTIONS [113 pp. total].
- 2015 15.995 *Tribal transportation safety plan : Hualapai Tribe*. St. George, Utah: High Road Engineering, Inc., SEPARATELY PAGINATED SECTIONS [170 pp. total].

**Hinck, Jo Ellen, AND Cleveland, Danielle**

- 2017 15.986 Using ecological risk analysis to screen for health effects: application at uranium mines [ABSTRACT]. *In: 14th Biennial Conference of Science and Management for the Colorado Plateau and Southwest Region, September 11-14, 2017, High Country Conference Center, Northern Arizona University, Flagstaff, Arizona*. [No imprint], pp. 73-74. [Grand Canyon watershed.]

**Hinck, Jo Ellen, AND Linder, Greg**

- 2013 15.926 Effects of mining to biological receptors at the Canyon Uranium Mine, Coconino County, Arizona [ABSTRACT]. *In: 12th Biennial Conference of Science and Management on the Colorado Plateau, September 16-19, 2013, Northern Arizona University, Flagstaff, Arizona : program and abstracts of presented papers and posters*. [Flagstaff, Arizona: Northern Arizona University], p. 72.

**Hinck, Jo Ellen; Brumbaugh, William G.; Cleveland, Danielle; AND Linder, Greg**

- 2015 15.857 Chemical and radiochemical characterization in biota at the Canyon Uranium Mine, Kaibab National Forest, Coconino County, Arizona [ABSTRACT]. *In: 13th Biennial Conference of Science and Management on the Colorado Plateau and Southwest Region, October 5-8, 2015, Northern Arizona University, High Country Conference Center : oral and poster abstracts*, p. 41.

**Hinck, Jo Ellen; Cleveland, Danielle; AND Sample, Bradley E.**

- 2021 15.1331 Terrestrial ecological risk analysis via dietary exposure at uranium mine sites in the Grand Canyon watershed (Arizona, USA). *Chemosphere*, 265(1) (129049), 10 pp. + Supplemental Information online through <https://doi.org/10.1016/j.chemosphere.2020.129049> + metadata and digital datasets online. [Pinenut Mine, Arizona 1 Mine, Little Robinson Tank site, Canyon Mine.]

**Hinck, Jo Ellen; Linder, Greg; Darrah, A. J.; Drost, C. A.; Duniway, M. C.; Johnson, M. J.; Nowak, E. M.; Wolff, S.; Méndez-Harclerode, F. M.; Valdez, E. W.; AND Riper, Charles van, III**

- 2014 15.929 Exposure pathways and biological receptors: Baseline data for the Canyon uranium mine, Coconino County, Arizona. *Journal of Fish and Wildlife Management*, 5(2) (December): 422-440.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Hinck, Jo Ellen; Linder, Greg; Finger, Susan; Little, Edward; Tillitt, Donald; AND Kuhne, Wendy**

- |      |        |   |
|------|--------|---|
| 2010 | 15.858 | Biological pathways of exposure and ecotoxicity values for uranium and associated radionuclides. <i>In</i> : Alpine, Andrea E. (ed.), Hydrological, geological, and biological site characterization of breccia pipe uranium deposits in northern Arizona. <i>U.S. Geological Survey, Scientific Investigations Report 2010-5025</i> , pp. 283-353. |
|------|--------|---|
- 

**Hirsh, Jon**

- |      |        |  |
|------|--------|--|
| 1997 | 15.78  | Swimming in the Colorado River. <i>Boatman's Quarterly Review</i> , 10(2) (Spring): 11.  |
| 1999 | 15.79  | Swimming—with your arms or not? <i>Boatman's Quarterly Review</i> , 12(3) (Summer): 13. [See also response by Drifter Smith (1999, <a href="#">ITEM NO. 15.174</a> ).] |
| 2000 | 15.171 | Tooting the bottle. <i>Boatman's Quarterly Review</i> , 13(1) (Winter): 7.   |
- 

**Hoeschele, Don, AND Fournier, Bill**

- |      |         |  |
|------|---------|--|
| 2021 | 15.1270 | A perspective on field services backcountry. <i>Ranger</i> (Association of National Park Rangers, Journal), 37(1) (Winter): 12-13. [Regarding U.S. Public Health Service backcountry inspections of camper and river-runner sites for sanitary compliance. Includes photo of a "river kitchen setup" on the Colorado River in Grand Canyon.] |
|------|---------|--|
- 

**Hoffman, Martin D.; AND Myers, Thomas M.**

- |      |        |  |
|------|--------|--|
| 2015 | 15.834 | Symptomatic exercise-associated hyponatremia in an endurance runner despite sodium supplementation. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 25(6) (December): 603-606. |
|------|--------|--|
- 

**Holland, Al**

- |      |       |   |
|------|-------|---|
| 1999 | 15.80 | Answer. An historical overview. <i>In</i> : How hard is it? and related topics; running the "Grand" [FEATURE]. <i>The Waiting List</i> (Grand Canyon Private Boaters Association), 3(1) (February): 20. [Response to Ron Youngs.] |
|------|-------|---|
- 

**Holle, Ronald L.; Brooks, William A.; AND Cummins, Kenneth L.**

- |      |         |  |
|------|---------|--|
| 2021 | 15.1297 | Lightning occurrence and casualties in U.S. national parks. <i>Weather, Climate, and Society</i> , 13: 525-540. [Includes Grand Canyon National Park.] |
|------|---------|--|
- 

**Holton, Brandon**

- |      |         |  |
|------|---------|--|
| 2018 | 15.1009 | Bat encounters along the river. <i>Boatman's Quarterly Review</i> , 31(3) (Fall): 24-25. [Colorado River in Grand Canyon.] |
| 2023 | 15.1275 | Bats, bat interactions, and you. <i>Boatman's Quarterly Review</i> , 36(1) (Spring): 24-27.                                |
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Hommon, H. B.**

- 1922 15.651 Sanitation in national parks and monuments; careful inspection and regulations protect tourists to national parks. *The Nation's Health*, 4(7) (July 15): 405-407. [Water delivery to Grand Canyon noted, *in passing*, p. 405, with illustration (p. 406, location not indicated), "Water tank cars for hauling water ninety-eight miles from Flagstaff, Arizona, to the Grand Canyon National Park. No water is available on the top rim of the Canyon."]
- 1928 15.81 Sewage treatment plant at the Grand Canyon National Park. *Public Health Reports*, 43(2): 2583-2598.  
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 7-9|
- 1928 15.332 *Sewage treatment plant at the Grand Canyon National Park*. Washington, D.C.: U.S. Government Printing Office, 1928, 16 pp. ("Reprint No. 1249 from the Public Health Reports.")
- 1930 15.82 Report of Sanitation Division. *In: Report of the Director of the National Park Service to the Secretary of the Interior for the Fiscal Year ended June 30, 1930, and the travel season, 1930*, pp. 198-200. [U.S. National Park Service, 14th annual report.]
- 1930 15.1161 Problems of sanitation at headquarters area during construction of Boulder Dam. *In: Boulder Dam Symposium. American Journal of Public Health*, 20(10) (October): 1086-1091.
- 1935 15.428 Treatment and disposal of sewage in the national parks. *American Journal of Public Health*, 25 (February): 128-144.
- 1940 15.430 Health safeguards in the parks. *Region III Quarterly* (U.S. National Park Service), 2(4) (October): 13-17. [Includes Grand Canyon National Park and Boulder Dam National Recreational Area.]
- 

**Hoogstraal, H.**

- 1979 15.1325 Ticks and spirochetes. *Acta Tropica* (Basel, Switzerland), 36(2) (June): 133-136. [See p. 136, notes on occurrence of relapsing fever among visitors and employees on the North Rim, in 1973.]
- 

**Hopkins, Jay**

- 2005 15.797 Déjà vu. *In: Training and Technique* [SECTION]. *Flying*, 132(3) (March): 62-63. [Simulators in flying. See p. 63, "flying" a Robinson R-22 helicopter along the South Kaibab and Clear Creek Trails, Grand Canyon.]
- 

**Hopkins, Larry**

- 1992 15.83 Action, reaction. *The News* (Grand Canyon River Guides), 5(4) (Fall): 9. [Letter to Glen Canyon National Recreation Area Superintendent, regarding soap availability at Lees Ferry; followed by reply, see Lancaster, John O. See also another comment by Ellwanger, Patty, and response from Lancaster.]
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Howe, Steve**

- 2002 15.534 Five who survived. *Backpacker*, 30(7) (September) (207): 54-60, 62, 112-114. [See pp. 54-55, 57-58; David Whittlesey stranded six days below Mile 232 rapid during winter solo Colorado River trip in Grand Canyon.]
- 

**Howell, W. C., AND Forster, Alexius M.**

- 1921 15.602 Artificial pneumothorax in the treatment of pulmonary tuberculosis. *In: Transactions of the Medical Association of the State of Alabama (the State Board of Health), Meeting of 1921, Montgomery, April 19-21.* Montgomery: Brown Printing Co., pp. 321-331. (Medical Association of the State of Alabama, Transactions.) [See p. 329, note of a patient who traveled from Los Angeles to Grand Canyon immediately after successful treatment and there suffered "intense dyspnoea" due to the elevational change, who became less distressed after being "carried down into the canyon quite a depth".]
- 

**Hualapai Tribe, Department of Natural Resources**

- 2004 15.669 *Hualapai Tribe pre-disaster mitigation plan.* Peach Springs, Arizona: Hualapai Department of Natural Resources, 44 pp. (Submitted to U.S. Federal Emergency Management Agency.)
- 

**[Hubbard, Terry]**

- 1997 15.84 Clean it up! *The Waiting List* (Grand Canyon Private Boaters Association), 1(3) (April): 7, 9. [Water purification.]
- 

**Hunt, Adrian, AND Santucci, Vincent L.**

- 2011 15.1320 World War II military aircraft accidents in National Park Service areas: A preliminary assessment [ABSTRACT]. *In: Rethinking Protected Areas in a Changing World : The George Wright Society Conference on Parks, Protected Areas and Cultural Sites, March 14-18, 2011, New Orleans, Louisiana : abstracts.* [No place]: George Wright Society, p. 198. [Grand Canyon and Lake Mead noted *in passing*.]

**Hunt, Adrian P.; Santucci, Vincent L.; AND Lassman, David**

- 2012 15.615 WWII military aircraft incidents in National Park Service units: A preliminary inventory. *In: Weber, Samantha (ed.), Rethinking protected areas in a changing world: Proceedings, George Wright Society Conference on Parks, Protected Areas, and Cultural Sites, March 14-18, 2011, New Orleans, Louisiana,* pp. 148-154. [See "Grand Canyon National Park", p. 149, B-24 parachutists in Grand Canyon, 1944; "Lake Mead National Recreation Area", p. 151, Vultee BT-13 Valiant crash in lake near Hoover Dam.]
-



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Huppert, George N., AND Ludwig, Gail**

- 1978 15.1153 Human impact on the Inner Gorge of Grand Canyon National Park. *American Biology Teacher*, 40 (January): 13-16. [Colorado River corridor. Includes sections on "Human Waste Disposal" (pp. 14-15) and "Pollution Due to Swimming and Bathing" (p. 16).]
- 

**Hyde, Charles Gilman**

- 1935 15.1029 Sewage treatment problems and trends. *Sewage Works Journal*, 7(2) (March): 222-232. [See p. 232: "Salvage of Sewage for Irrigation and Industrial Use. In the semi-arid sections of the country where water is at a premium and relatively high in cost, the treatment of sewage to the point where it can be utilized for irrigation and industrial use continues to make progress. One of the first installations of that sort was at the Grand Canyon, Arizona, in 1926. Here the sewage is treated by the activated sludge process and by subsequent rapid sand filtration and is wholly utilized in locomotive boilers, for the washing of company automobiles, for the flushing of public toilets, for the sprinkling of lawns and for the irrigation of gardens." (ENTIRE NOTE)]
- 

I

**Iacampo, Mark**

- 2000 15.192 Suck the water. *Sweat Magazine*, 9(4): 10.
- 

**Ingraham, Neil L.; Zukosky, Kim; AND Kreamer, David K.**

- 2001 15.237 Application of stable isotopes to identify problems in large-scale water transfer in Grand Canyon National Park. *Environmental Science and Technology*, 35(7) (April): 1299-1302. [Sewer-pipe leaks.]
- 

**International Civil Aviation Organization**

- 1958 15.1344 No. 22. Trans World Airlines, Inc., Lockheed 1049A, N 6902C and United Air Lines, Inc., Douglas DC-7, N 6324C collided over the Grand Canyon, Arizona on June 30, 1956. Civil Aeronautics Board (USA) Accident Investigation Report, SA-320, File No. 1-0090, released 17 April 1957. *In*: Aircraft Accident Digest No. 8. *International Civil Aviation Organization, Circular 54-AN/49* (Montreal, Canada), pp. 95-111. [Reprinting of U.S. Civil Aeronautics Board (1957, ITEM NO. 15.154).]
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

J

**J. F. Sato and Associates**

- 1998 15.576 *Rapid visual screening of buildings at Grand Canyon National Park for potential seismic hazards.* Littleton, Colorado: J. F. Sato and Associates, for U.S. National Park Service, Denver Service Center.

**Jackson, David M., AND Verscheure, Susan K.**

- 2006 15.440 Back pain in whitewater rafting guides. *Wilderness and Environmental Medicine*, 17: 162-170.

**Jacobs** [firm]

- 2015 15.1004 *Climbing and passing lane prioritization study.* [No place]: Jacobs, for Arizona Department of Transportation, v, 116, 6 pp.

**Jakab, Ákos; Kahlig, Pascal; Kuenzli, Esther; AND Neumayr, Andreas**

- 2022 15.1250 Tick borne relapsing fever—a systematic review and analysis of the literature. *PLoS Neglected Tropical Diseases*, 16(2): e0010212, <https://doi.org/10.1371/journal.pntd.0010212>, 41 pp. + Supporting Information online. [Global perspective. No text mention, but literature includes two publication on Grand Canyon occurrences.]

**Jalbert, Linda M.**

- 1997 15.85 The effects of the 1996 beach/habitat-building flow on observed and reported boating accidents on the Colorado River in Grand Canyon National Park. *Glen Canyon Dam beach/habitat-building flow : abstracts and executive summaries, April 1997* [symposium convened by the Grand Canyon Monitoring and Research Center, Department of the Interior, Flagstaff, Arizona, April 8-10, 1997, Flagstaff]. [No imprint, convenor from separate proceedings volume], pp. 115-122.
- 2001 15.226 The effects of Low Steady Summer Flows on whitewater boating safety in Grand Canyon National Park [ABSTRACT]. *In: Colorado River Ecosystem Science Symposium 2001 : Little America Hotel, Flagstaff, Arizona, April 26 and 27, 2001 : organized by the Grand Canyon Monitoring and Research Center, U.S. Geological Survey. Program and abstracts.* [Flagstaff, Arizona: Grand Canyon Monitoring and Research Center], p. 21. (Glen Canyon Dam Adaptive Management Program.)

**James, George Wharton**

- 1908 15.1084 The Indian as a teacher of exercise. *The Epworth Herald* (Chicago and New York), 19(21) (October 17): 523-524. [See concluding remarks, which relate the author's

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

experience in 1907 of healthful exercise upon returning to Grand Canyon trails. Item is a selection from “What the White Race May Learn from the Indian” (James, 1908, ITEM NO. 17.2061).]

---

**James, Leslie**

2019 15.1319 Tragedy over the Grand Canyon. *WanderAZ* (Northern Arizona Edition) (Phoenix), 4(13) (Summer): 26. [Historical summary of the 1956 air crash.]

---

**Jannik, G. Timothy; Minter, Kelsey M.; Hinck, Jo Ellen; Cleveland, Daneille; AND Kuhne, Wendy W.**

2017 15.1081 Biota dose assessment of small mammals sampled near uranium mines in northern Arizona [ABSTRACT]. *In: 14th Biennial Conference of Science and Management for the Colorado Plateau and Southwest Region, September 11-14, 2017, High Country Conference Center, Northern Arizona University, Flagstaff, Arizona.* [No imprint], p. 81.

---

**Jardine, Kevin**

2006 15.446 Challenge Aspen . . . *Byline* (Colorado Parks and Recreation Association), 2(4) (4th Quarter): 10-11. [Ellipsis is part of title.] [See p. 11, notice of “‘Ultimate Outdoor Adventure’ recently returned with a group of newly injured soldiers—predominately people with amputations—from the Grand Canyon, where they hiked, rafted and climbed together in the rugged terrain.” (ENTIRE NOTE; and possibly also one accompanying illustration).]

---

**Jensen, Frank L., Jr.**

1993 15.1224 Prepared statement of Frank L. Jensen, Jr., President, Helicopter Association International. *In: Oversight of Grand Canyon overflights : hearing before the Subcommittee on Aviation of the Committee on Commerce, Science, and Transportation, United States Senate, One Hundred Second Congress, Second Session : July 7, 1992.* Washington, D.C.: U.S. Government Printing Office, pp. 84-86. (S. Hrg. 102-1014.) [Regarding issues of airlight safety.]

1993 15.589 Don’t blame helicopters. *In: Flying Mail* [SECTION]. *Flying*, 120(10) (October): 14. [Comment on “Too Close To the Scenery” by Peter Garrison, 120(8) (August): 48, 50.]

---

**Jensen, Walter**

1956 15.1215 Statement of Walter Jensen, American Airlines, on special assignment to Air Transport Association. *In: Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956.* Washington, D.C.: U.S. Government Printing Office, pp. 331-336. [Relating to the 1956 Grand Canyon air crash.]

---

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Job, Macarthur**

- 2006 15.817 Grand Canyon collision. It's 50 years since a DC-7 and a Super Constellation collided mid-air over the Grand Canyon. Macarthur Job reviews the accident and its legacy. *Flight Safety Australia* (Australian Civil Aviation Safety Authority) (Canberra), 10(3) (May/June): 37-41. [Cover tease: "Grand Canyon Tragedy. Legacy of a mid-air collision."]

**John Carollo Engineers**

- 1972 15.433 *Wastewater treatment facilities study, Grand Canyon National Park : Indian Gardens, Phantom Ranch.* Phoenix: John Carollo Engineers, SEPARATELY PAGINATED SECTIONS.

**Johnson, Jo**

- 1999 15.172 Thanks to Hatch, Tour West, the Hualapai Nation and Canyon REO. *In: Flipped out! Letters to the GCPBA. The Waiting List* (Grand Canyon Private Boaters Association), 3(4) (December): 33.
- 2001 15.216 (WITH Hazel Clark) How to be comfortable in the Canyon. *The Waiting List* (Grand Canyon Private Boaters Association), 5(1) (Spring): 28-29.

**Johnson, John D.; Simoons, Frederick J.; Hurwitz, Ruth; Grange, Adenike; Sinatra, Frank R.; Sunshine, Philip; Robertson, William V.; Bennett, Peter H.; AND Kretchmer, Norman**

- 1978 15.375 Lactose malabsorption among adult Indians of the Great Basin and American Southwest. *American Journal of Clinical Nutrition*, 31 (March): 381-387.

**Jones, Ellen L.**

- 2006 15.681 *Norovirus in recreational waters in Arizona.* Doctoral dissertation, University of Arizona, 112 pp. [Includes sampling sites from the Colorado River in Grand Canyon.]

**Jones, Ellen L.; Gaither, Marlene; Kramer, Adam; AND Gerba, Charles P.**

- 2009 15.464 An analysis of water quality in the Colorado River, 2003-04; an investigation into recurring outbreaks of norovirus among rafters. *Wilderness and Environmental Medicine*, 20(1) (Spring): 6-13.

**Jones, Lisa**

- 1996 15.86 [Comment on drug-testing policy and Colorado River-running safety.] *In: Heard Around the West* [SECTION]. *High Country News*, 28(22) (November 25): 15.

**Jones, M. C.; Baldwin, J. A.; Ingram, J. C.; Miller, R.; AND Propper, C. R.**

- 2017 15.1159 Arsenic levels in surface and groundwater throughout northern Arizona [ABSTRACT]. *In: 14th Biennial Conference of Science and Management for the Colorado Plateau and*

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

*Southwest Region, September 11-14, 2017, High Country Conference Center, Northern Arizona University, Flagstaff, Arizona.* [No imprint], p. 85.

**Jones, M. C.; Credo, J. M.; Ingram, J. C.; Baldwin, J. A.; Trotter, R. T., Jr.; AND Propper, C. R.**

2020 15.1160 Arsenic concentrations in ground and surface waters across Arizona including Native lands. *Journal of Contemporary Water Research and Education*, (169) (April): 44-60.

---

## K

**Kaman Aerospace**

2020 15.1104 *Power and precision : K-MAX 2020 calendar : Kaman Aerospace.* [No place]: Kaman Aerospace. [See February, "In an area where salvage operations are challenging, Mountain West Helicopters lifts a fallen vehicle out of the depths of the Grand Canyon." Photo courtesy of National Park Service.] [Calendars, as ephemera, are not generally cited in this bibliography, but this item is cited for its unusual contextual illustration in this category, in a source not likely to be easily relocated. "K-MAX twin intermeshing servo flap controlled rotors . . . [eliminate] the need for a tail rotor drive train and hydraulic systems . . . ."]

---

**Kamptner, Erika**

2011 15.1332 *Nuclear power's other tragedy : communities living with uranium mining.* Washington, D.C.: Earthworks, 20 pp. [including wraps]. [See photos (no text mentions): "Kaibab North [*sic*, Kanab North] Mine, Arizona" (p. 4, aerial view); "Arizona 1 Mine operated by Denison located near the Grand Canyon in Arizona. Currently, this is the only operational [*sic*] underground uranium mine in the United States" (p. 5, aerial view); "Orphan Mine, now closed, in Grand Canyon National Park" (p. 6).]

---

**Karant, Max**

1957 15.821 Air mystery is solved. *In*: Letters to the Editors [SECTION]. *Life*, 42(20) (May 20): 16. [Remark on article by Mary H. Cadwalader in April 29 issue (ITEM NO. 15.43).]

---

**Karls, Bill**

2000 15.193 Whale Foundation. *Boatman's Quarterly Review*, 13(2) (Spring): 26.

---

**Kauder, Carol**

2000 15.194 Mr. Salty to the rescue; don't let sodium deficiency trip you up on the trail. *Outside*, 25(4): 30.

---

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Ke, Yong; Smith, Corey W.; Salaru, Gratian; Joho, Kim L.; AND Deen, Malik F.**

- 2006 15.915 Unusual forms of immature sporulating *Coccidioides immitis* diagnosed by fine-needle aspiration biopsy. *Archives of Pathology and Laboratory Medicine*, 130 (January): 97-100. [Case report of patient from New Jersey having had visited only Grand Canyon nine months prior to presenting with symptoms eventually diagnosed as coccidioidomycosis, with endemic areas known in some arid climates of the Southwest.]

**Keene, Ed**

- 2021 15.1222 Barf-o-rama over the Grand Canyon. *Air and Space*, 36(3) (September): 51. [Brief reminiscence of flying commercial Cessna T206s and T207s during summer of 1980 between Las Vegas and Lake Powell, with stops including Dolan Springs and Tuweep, Arizona, and St. George, Utah. Recalls turbulence over Grand Canyon and the effects on passengers. Also notes checking weight and balance of aircraft at remote dirt strip stops.]

**Kelkar, Kaytan**

- 2013 15.716 Geohazards evaluation of mass movements in Grand Canyon National Park, Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 45(7): 279.

**Keller, Trent**

- 2009 15.480 Cooperation goes a long way: The campsite rehabilitation project below Diamond Creek. *Boatman's Quarterly Review*, 22(2) (Summer): 21. [With an editorial introduction.]

**Kelly, Roger E.**

- 1967 15.1036 *Disabled Navajo Indians and rehabilitation: An anthropological overview. Navajo Rehabilitation Project technical report no. 2.* Flagstaff, Arizona: Northern Arizona University, Department of Anthropology, for U.S. Department of Health, Education and Welfare, Vocational Rehabilitation Administration, Washington, D.C., 55 pp. [Under "Cured Disabling Conditions", see (p. 22) "Client D", a 30-year-old woman, the only female of the group. "She was found a job with a Grand Canyon concessionaire, and was reported to be a good employee." (No further details on this remark.)]

**Kennedy Engineers**

- 1962 15.1057 *Report on water facility repair program—Phase II : South Rim, Grand Canyon National Park.* San Francisco: Kennedy Engineers, for U.S. National Park Service, 22 pp., plate. (Contract No. 14-10-0434-889. A Mission 66 project.) [Grand Canyon Village water supply mains.] [Cover letter also indicates, "The set of maps which is numbered NP-GC-3530A and a set of gate valve reference sheets are submitted under separate cover."]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

- 1966 15.87 *Master sewage study, Grand Canyon National Park, Arizona*. San Francisco: Kennedy Engineers (under contract to U.S. National Park Service), [ca. 40 pp.].  
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 4-39]

**Kenny, Ray**

- 2003 15.541 The legacy of the Grand View Mine, Grand Canyon, Arizona. *Park Science* (U.S. National Park Service), 22(1) (Fall): 46-50. [Modern safety issues of radiation and mine waste at the Grandview Mine site.]

**Keyanna, Teracita; Neal, Rebecca; AND Roybal, Carmela**

- NO DATE 15.1293 *The health impacts of uranium mining in Native American communities : policy brief*. [Albuquerque]: University of New Mexico, Native American Budget and Policy Institute, 16 pp. [2024.] [See pp. 9, 10, remarks pertaining to the Pinyon Plain Mine and Havasupai groundwater and health concerns.]

**Kimley-Horn and Associates, Inc.**

- 2012 15.1095 *Compilation of free responses submitted for Bicycle and Pedestrian Plan public survey (May 2012)*. [No place]: Kimley-Horn and Associates, Inc., for Arizona Department of Transportation, 247 pp. (ADOT bicycle and Pedestrian Plan Update Working Paper No. 3.) (ADOT MPD Task Assignment 21-11. PGTD 0725. Contract #T08-49-U0001.) [Cited from document marked "091374045, 2012 08 23 Update WP3, August 2012".] [Includes numerous remarks pertaining to highways in the Grand Canyon area.]

**Kimura, Chris Y.**

- 1992 15.1229 *World commercial aircraft accidents : 1st edition, 1946-1991*. [No place]: Lawrence Livermore National Laboratory, SEPARATELY PAGINATED SECTIONS [268 pp. total]. ("This is an informal report intended primarily for internal or limited external distribution." "Work performed under the auspices of the U.S. Department of Energy by the Lawrence Livermore National Laboratory under Contract W-7405-Eng-48." [cover]) ("This report is a compilation of all accidents world-wide involving aircraft in commercial service which resulted in the loss of the airframe or one or more fatality, or both." [p. iii].) [Comprises computer printouts of statistical data sorted to various categories. Data include those for the 1956 Grand Canyon air crash (pp. 4.2-8, 4.4.3-1, 4.4.5-1, 5-2, 6.4-2), the Grand Canyon Airlines-Helitech crash of 1986 (pp. 3.2-23, 3.5.1-3, 6.4-8), and the 1989 Grand Canyon Airlines crash at Grand Canyon Airport (pp. 3.2-26, 6.5-19).]

**King, Christina**

- 2004 15.334 Grand Canyon evacuation. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 7(1) (Fall): 40-42.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Kirschner, Elena, AND Sadler, Christa**

- 2010 15.523 Eating healthy in the off (and on) season. *In*: Back of the Boat—The Whale Foundation News Bulletin. *Boatman’s Quarterly Review*, 23(1) (Spring): unpaginated insert, pp. [2]-[3].]
- 

**Kitajima, Masaaki; Iker, Brandon C.; Magill-Collins, Anne; Gaither, Marlene; Stoehr, James D.; AND Gerba, Charles P.**

- 2017 15.924 Genetic analysis of norovirus strains that caused gastroenteritis outbreaks among river rafters in the Grand Canyon, Arizona. *Food and Environmental Virology*, 9(2) (June): 238-240.
- 

**Knies, Scott**

- 2005 15.356 “The theory of gapertivity.” *In*: Stephenson, R. J. (ed.), Grand groover chronicles; how’s it going? [FEATURE]. *The Waiting List*, 7(2) (Winter): 51-52.
- 

**Knochel, James P.**

- 1990 15.914 Catastrophic medical events with exhaustive exercise: “White colar rhabdomyolysis”. *Kidney International*, 38: 709-719. [See p. 717, quotation from Pattison *et al.* (1988, ITEM NO. 15.122, then in press), regarding a case of exertional heat stroke in Grand Canyon.]
- 

**Knudsen, A. B.; Johnson, R.; Johnson, K.; AND Henderson, N. R.**

- 1977 15.88 A bacterial analysis of portable toilet effluent at selected beaches along the Colorado River, Grand Canyon National Park. *In*: Proceedings of the river recreation management and research symposium. St. Paul, Minnesota: North Central Forest Experiment Station, U.S. Forest Service, *General Technical Report NC-28*, pp. 290-295.  
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 2: page 89] [CITED» GCNHA Monograph 8: page 4-18]
- 

**Koenig, Pam**

- 2008 15.1268 [Cover photo] Margaret Hodgkins of the Grand Canyon Association, a cooperating partner at the Horace Albright Training Center, participates in general training. *Ranger* (Association of National Park Rangers, Journal), 24(4) (Fall): cover, 1. [Hodgkins with fire extinguisher and fireman.]
- 

**Kraft, James P.**

- 2021 15.1298 *Havoc and reform : workplace disasters in modern America*. Baltimore, Maryland: Johns Hopkins University Press, 272 pp. [See Chapter 3, “Airliners Collide Over the Grand Canyon!” Primary focus is on airline employees as well as post-accident reforms.]  
 ≡ REVIEWS AND NOTICES Sillman, 2023, ITEM NO. 30.1642



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

---

**Krake, Ann M.; McCullough, Joel E.; AND King, Bradley S.**

- |      |        |  |
|------|--------|--|
| 2002 | 15.290 | <i>NIOSH health hazard evaluation report: HETA #99-0321-2873, U.S. Department of the Interior, Grand Canyon National Park, Grand Canyon, Arizona.</i> [No place]: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, 39 pp. [Heat and job stress.] |
| 2003 | 15.300 | Health hazards to park rangers from excessive heat at Grand Canyon National Park. <i>Applied Occupational and Environmental Hygiene</i> , 18(5): 295-317.  |
- 

**Kramer, Kelly**

- |      |        |   |
|------|--------|---|
| 2008 | 15.415 | Man vs. wild; don't mess with Mother Nature. <i>Arizona Highways</i> , 84(11) (November): cover, 3, 14-23. [For Grand Canyon specifically, see cover, pp. 3, 17, 19.] |
|------|--------|---|
- 

**Kreamer, David K.**

- |      |         |   |
|------|---------|---|
| 2017 | 15.987  | Exceedence of maximum contaminant level drinking water standards in Grand Canyon springs and implications for future monitoring [ABSTRACT]. <i>In: 14th Biennial Conference of Science and Management for the Colorado Plateau and Southwest Region, September 11-14, 2017, High Country Conference Center, Northern Arizona University, Flagstaff, Arizona.</i> [No imprint], p. 90. |
| 2019 | 15.1295 | Exceedence of maximum contaminant level drinking water standards in Grand Canyon springs and implications for future monitoring [ABSTRACT]. <i>In: Proceedings of the 2019 UCOWR/NIWR Annual Water Resources Conference, June 11-13, 2019, Snowbird, Utah.</i> [No place]: Universities Council on Water Resources, and National Institutes for Water Resources, p. 29.               |
- 

**Kremer, Stefan**

- |      |        |   |
|------|--------|---|
| 2009 | 15.805 | Grand Canyon: Trübes Trinkwasser unbedenklich. <i>Southwest Chronicle</i> (USA Reporter, Magazin über den Südwesten der USA, Stolberg, Germany), (April): 4-5. [In German.] |
| 2009 | 15.806 | Grand Canyon: Mehr Toiletten. <i>Southwest Chronicle</i> (USA Reporter, Magazin über den Südwesten der USA, Stolberg, Germany), (September): 2. [In German.]                |
| 2012 | 15.808 | Grand Canyon: Phantom Ranch ohne Trinkwasser. <i>Southwest Chronicle</i> (USA Reporter, Magazin über den Südwesten der USA, Stolberg, Germany), (April): 1-2. [In German.]  |
- 

**Kuhne, W. W.; Jannik, G. T.; Paller, M. H.; Mayer, J. J.; Hinck, J. E.; AND Cleveland, D.**

- |      |        |  |
|------|--------|--|
| 2017 | 15.988 | Radioecology and the importance of background characterizations in the determination of risk from uranium mine activities [ABSTRACT]. <i>In: 14th Biennial Conference of Science and Management for the Colorado Plateau and Southwest Region, September</i> |
|------|--------|--|

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

11-14, 2017, High Country Conference Center, Northern Arizona University, Flagstaff, Arizona. [No imprint], p. 91.

**Kuhnlein, Harriet V.**

1981 15.693 Dietary mineral ecology of the Hopi. *Journal of Ethnobiology*, 1(1) (May): 84-94. [Includes dietary aspects of salt gathered from Grand Canyon.]

**Kummerle, Richard P., AND Martella, Edward F.**

2011 15.814 Security; dam security vulnerability assessments require more than just completing a checklist. *Journal of Dam Safety*, 9(3): 35-44. [Includes Hoover Dam and Hoover Dam Bypass (Mike O'Callaghan-Pat Tillman Memorial Bridge).]

L

**Labiner, David M.**

2001 15.460 Status epilepticus after a long day of white-water rafting in the Grand Canyon. *In*: Schmidt, Dieter, and Schachter, Steven C. (eds.), *110 cases of epilepsy*. London: Martin Dunitz Publishers Ltd.

2002 15.461 Status epilepticus after a long day of white-water rafting in the Grand Canyon. *In*: Schmidt, Dieter, and Schachter, Steven C. (eds.), *Puzzling cases of epilepsy*. London: Martin Dunitz Publishers Ltd., 2nd ed., pp. 85-87. (Distributed in U.S. by Taylor and Francis, Florence, Kentucky.)

**Lacagnina, Mark**

2009 15.918 Roller coaster ride; ice buildup on pitot probes caused erroneous airspeed indications. *In*: On Record (COLUMN). *Aerosafety World* (Flight Safety Foundation), (March): 57-63. [See under "Helicopters" (p. 63), "Windshield Shattered by Eagle." Substantial damage to Eurocopter EC 130B4 near Meadview, Arizona, September 27, 2007.]

**Lake Mead Safe Boating Partnership**

NO DATE 15.476 *Stay safe, boat safe!* [No place]: Lake Mead Safe Boating Partnership, folded pamphlet. [Ca. 2005.]

**Lamm, S. H., AND Doemland, M. L.**

1999 15.341 The risk of congenital hypothyroidism and perchlorate in drinking water [ABSTRACT]. *Teratology*, 59(6): 399.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Lancaster, John O.**

- 1992 15.89 Action, reaction. *The News* (Grand Canyon River Guides), 5(4) (Fall): 9. [Response to Larry Hopkins.]
- 1993 15.90 [Response to Patty Ellwanger query regarding soap availability at Lees Ferry.] *The News* (Grand Canyon River Guides), 6(2) (Summer): 7.
- 

**Land, Brenda**

- 1994 15.917 (PROJECT LEADER) SCAT Machine—an alternate technology for sanitizing waste containers. *Recreation Tech Tips* (U.S. Forest Service, Technology and Development Program), (2300. 9423 1308—SDTD) (December), 4 pp. [Sanitizing Containers with Alternative Technology.] [Human-waste management. SCAT Machine pilot project, 1992, installed machines on the Sanke River near Asotin, Washington; in Riggins, Idaho; and at Meadview, Arizona (illustrated, p. 2).]
- 2004 15.992 Micro-flush toilets. *Recreation Tech Tips* (U.S. Forest Service, Technology and Development Program), (2300. 423 1310—SDTDC) (December), 4 pp. [Floating and portable sanitation facilities at Lake Mead National Recreation Area.]
- 

**Lane, Brian J.**

- 2010 15.786 Staying safe when hiking into the Grand Canyon. *Brian Lane's A Sense Of Nature Newsletter* (A Sense of Nature, Sedona, Arizona), [inaugural number] (Summer/Fall): 1-4 [entire issue].
- 

**Langlois, Krista**

- 2013 15.704 En-lightning statistics. *In: Currents* [SECTION]. *High Country News*, 45(13) (August 5): 3. [Notes, "the Grand Canyon has relatively few [lightning] strikes but a disproportionate number of deaths", reported by Ron Holle, meteorologist. Accompanied by map of western United States, "Lightning fatalities, 2003-2012".]
- 2018 15.968 Change the culture. All too often, outdoor workplaces see the same patterns of sexual harassment and assault that have rocked the worlds of entertainment, media, sports, and politics. Krista Langlois reveals the disturbing travails of river guides and proposes possible solutions to problems that are emblematic of the risks women face in the wild. (Work Smart No. 6, in *Work Smart* 2018 [FEATURE].) *Outside*, 43(2) (March): 68-75. [Includes Grand Canyon National Park.]
- 

**Latham, Stephen E.**

- 1998 15.921 *Glen Canyon Dam, Arizona : dam failure inundation study*. Denver: U.S. Bureau of Reclamation, Technical Service Center, 15 pp.
- 2003 15.922 Dam failure study at Glen Canyon Dam. *The Confluence* (Colorado Plateau River Guides), (27): 27-29. [Abridged from an unspecified U.S. Bureau of Reclamation document dated July 1998 (i.e., Latham, 1998, ITEM NO. 15.921).] [Refer also to U.S. Bureau of Reclamation (1988, ITEM NOS. 15.386, 15.387).]
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Laubach, Melinda; Montgomery, Michael; AND Cope, Dale**

- 2007 15.911 *Summary and comparison report on teardown evaluation of Cessna 402A and Cessna 402C airplanes : final report.* Washington, D.C.: U.S. Federal Aviation Administration, Office of Aviation Research and Development, Air Traffic Organization Operations Planning, 64 pp. (DOT/FAA/AR-07/35.) [Destructive evaluation of aged airplanes, “[t]o determine if potential continuing airworthiness problems exist for the small airplane fleet as a function of the aging process” (p. xi). “A 1969 Cessna 402A, tail number N812BW, with 19,698.9 total airframe hours [. . .] purchased from Sunshine Airlines, was primarily used later in life for tours of the Grand Canyon.” (p. xi)]

**Lawaczeck, Elisabeth**

- 2008 15.1143 Tragic loss: Fatal pneumonic and septicemic plague in a wildlife biologist. *Wildlife Disease Association, Newsletter*, (April): 1-3. [Grand Canyon.]

**Ledbetter, Jeri**

- 2004 15.327 Fear and loathing. *Boatman’s Quarterly Review*, 17(2) (Summer): 24-25. [Wilderness First Responders certification requirement.]

**Lee, Christine H.; Wilcox, Lindsay; Chorneyko, Katherine; AND McIvor, Andrew**

- 2008 15.916 *Coccidioides immitis*: Two cases of misidentified mycosis. *Canadian Respiratory Journal*, 15(7) (October): 377-379. [One of two cases reported pertains to a patient presenting symptoms five days after returning from a camping trip to Grand Canyon.]

**Lee, Katie, AND Martin, Richard**

- 1998 15.91 At the confluence of life and time. *The Waiting List* (Grand Canyon Private Boaters Association), 2(3) (August): 10-12. [1956 air crash. Authors listed here as printed at head of article; at end of article authors are signed Martin and Lee.]

**Legrand [firm]**

- 2017 15.956 *Case study : Vantage. Application type: National park, visitor center. Location: Grand Canyon Village, Arizona. Project scope: Parking lots, walking paths. Designer: David Roederer of Clanton & Associates.* [No place]: Legrand, [2] pp. [Fact sheet. LED lighting for safety, plus also control over total illumination for use in nighttime star-gazing events.]

**Lehrer, Cameron**

- NO DATE 15.1038 TAB A. The effects of extreme heat on the volume of residual limbs, a case study. (Arlene Gillis and Jillian Gifford, eds.) *In: Combat Wounded Veteran Challenge : Grand Canyon research expedition—2013 : the effects of extreme heat on the volume of residual limbs, a case study.* Tarpon Springs, Florida: Combat Wounded Veteran Challenge, pp. 68-75. [2014.] [Date obtained from URL of an online posting of this

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

document.] [Study conducted (as noted on p. 8) on “the Grandview Trail to Tonto Trail leading down to the Colorado River and the first part of the Escalante Route.” Specifically (p. 68): “The original case study was to observe the differences between the various residual limb length categories of transtibial amputees. This case study subject was abandoned due to some last minute cancelations with the group’s amputee participants. The decision to monitor the volume fluctuations within the amputee members’ residual limbs was made. The amputee and non-amputee members within the group were also tracked for their falls throughout the trip. In addition to the fall count and residual limb measurements, the number of times an amputee had to stop and remove their prosthesis was counted.”]

NO DATE 15.1044 Cameron Lehrer, CPO. *In: Combat Wounded Veteran Challenge : Grand Canyon research expedition—2013 : the effects of extreme heat on the volume of residual limbs, a case study.* Tarpon Springs, Florida: Combat Wounded Veteran Challenge, pp. 25-26, 35, 43, 48, 52-53, 59, 67. [2014.] [Personal remarks.] [Date obtained from URL of an online posting of this document. Refer to Combat Wounded Veteran Exchange, ITEM NO. 15.1037, and Lehrer, ITEM NO. 15.1038, for descriptions of study.]

**Leimkuehler, Sylvia**

2001 15.217 Sylvia. *In: Return from Havasu. Boatman’s Quarterly Review*, 14(2) (Summer): 34-35. [Item pp. 32-35.]

**Lemus Mayora, Luis Alfredo**

2013 15.1340 *Diseño del sistema de reutilización del efluente de una planta de tratamiento de agua residual, en un complejo industrial dedicado a la fabricación y envasado de bebidas.* Thesis, Universidad do San Carlos de Guatemala, 123 pp. [Under “Antecedentes”, see p. 2: “El empleo en áreas urbanas de redes duales (aguas regeneradas/agua potable) de distribución es una práctica cada vez más extendida. El primer sistema de este tipo de instaló en 1926, en Grand Canyon Village (Arizona), donde la escasa agua potable disponible debía bombearse desde un manantial situado en el fondo del Gran Cañon, salvando un desnivel de 1 000 m el agua regenerada así distribuida, se emplea en la mayoría de los usos urbanos no potables, incluyendo riego de parques, extinción de incendios y uso en cisternas de servicios sanitarios.” (No credit given.)] [Compare Sánchez García (2016, ITEM NO. 15.1341).] [Dual water system.] [In Spanish.]

**Leslie, Elaine; Garding, Emily; Reed, Sarah; AND Culver, Melanie**

2002 15.445 Large carnivore preservation and visitor safety in national parks: A balancing act through DNA analysis [ABSTRACT]. *In: Davies, Kate, Delach, Aimee, Epstein, Liz, and Selden, Mary (compilers), From the Mountains to the Sea: A Conference on Carnivore Biology and Conservation, November 17-20, 2002, Monterey, California. Proceedings and Agenda for Defenders of Wildlife’s Carnivores 2002*, p. 42.

**Lewis, Warren C.**

1990 15.747 Relapsing fever and caves: A review. *NSS News* (National Speleological Society), 48(9) (September): 232-234. [See p. 233, under “Non-cave-associated Relapsing Fever”, note, *in passing*, of the “largest outbreak in America” on the North Rim of Grand Canyon.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

---

**Liestman, Linda**

- 1996 15.705 Does horseback riding provide exercise and physical conditioning benefits? *North American Horsemen's Association, Yearbook of News*, 1996: 48-52. [Regarding NAHA Conference presentation by Michael C. Meyers. During the question period (pp. 51-52), note a question from Ron Clayton, Grand Canyon mule rides manager, pertaining to "fitness or conditioning benefit of English vs Western riding [equipment]". Meyers responded that this is under study, but "thus far no differences could be seen." (no further elaboration)]

---

**Light, W. Greg**

- 1984 15.1258 Ranger service dogs: A program proposal. *Association of National Park Rangers, Newsletter*, 7[6?](3) (Fall): 1, 7-10. [See photo, p. 1 (with no text mention), "WOOF dog team on a search in the Grand Canyon in 1982." WOOF (for Wilderness Finders) is a canine search and rescue program.]

---

**Lloyd, James V.**

- 1945 15.529 Guardians of the wilderness. *Popular Mechanics Magazine*, 84(2) (August): 1-5, 158, 160. [See paragraph on p. 5; author believes "a walkie-talkie would have been useful last summer when Ranger Ed Laws . . . led a rescue party to three Army flyers who had bailed out over the Grand Canyon."]

---

**Lochmoeller, Todd**

- 1994 15.92 Water treatment for rafters. *Boatman's Quarterly Review*, 7(4): 22-23.

---

**Lord, Alexandra M.**

- 2011 15.1227 (ED.) *American aviation heritage : identifying and evaluating nationally significant properties in U.S. aviation history : a National Historic Landmarks theme study*. [Washington, D.C.]: U.S. Department of the Interior, National Historic Landmarks Program, revised, 314 pp. (Produced by the National Historic Landmarks Program, Cultural Resources, National Park Service, U.S. Department of the Interior, Washington, D.C.; United States Air Force, Air Force Materiel Command, Wright-Patterson Air Force Base, Ohio; and National Conference of State Historic Preservation Officers, Washington, D.C.) [Under "1920s Passenger Aircraft" (pp. 78-79), contemporary remarks on flight safety of the Ford Tri-Motor 4-AT in Grand Canyon. Also, regarding the 1956 air crash in Grand Canyon, brief remarks under "The Federal Aviation Act of 1958" (p. 208), and under "Properties Recommended for Further Study" is listed (p. 254) "Grand Canyon Crash Site, Grand Canyon National Park, Arizona" (no details).]

---

**Loven Contracting** [firm]

- 2020 15.1188 *Grand Canyon South Kaibab Trail Tipoff ramada*. [No place]: Loven Contracting, 1 p. ("03/10/20"). [Fact sheet.] [Regarding the installation of a backcountry shade

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

ramada installed at The Tipoff on South Kaibab Trail. Photos include view of Chinook helicopter delivering the structure.]

**Lovett, John A.**

- 1956 15.1204 Statement of Capt. John A. Lovett, Chairman, United Air Lines Central Committee. *In: Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956.* Washington, D.C.: U.S. Government Printing Office, pp. 125-128. [Relating to the 1956 Grand Canyon air crash.]

**Lu, Zachary N.; Briggs, Amy; Aaadat, Soheil; AND Algaze, Isabel M.**

- 2021 15.1255 The association between visitation, social media use, and search and rescue in United States national parks. *Wilderness and Environmental Medicine*, 32(4): 463-467. [Generalized perspective based on data from the Twitter social media platform, although Grand Canyon is mentioned, *in passing*, in the "Methods" section.]

**Lubar, Steven, AND Kendrick, Kathleen M.**

- 2001 15.871 *Legacies : collecting America's history at the Smithsonian.* Washington, D.C., and London: Smithsonian Institution Press, *in association with* National Museum of American History, Behring Center, 256 pp. [See "Life preserver worn by Major John Wesley Powell during exploration of the Green and Colorado Rivers, 1869", p. 242.]

**Luckey, Thomas; McCroan, John E.; Abbott, Dean; Newell, Thomas O.; Hotchkiss, Philip M.; Orr, William; Steckler, Alan; [AND laboratories]**

- 1973 15.801 Relapsing fever—Georgia, Arizona. *Morbidity and Mortality Weekly Report* (U.S. Public Health Service), 22(29) (July 21): 242, 247. [North Rim, Grand Canyon.] [See also follow-up reports by David L. White *et al.* (1973, [ITEM NO. 15.802](#)) and by Herzl Friedlander *et al.* (1973, [ITEM NO. 15.803](#)).]

**Luttrell, Chuck**

- 1998 15.632 (WITH Jean Luttrell) *Heavy weather boating emergencies : the survival guide for what to do when everything goes wrong.* Saint Paul, Minnesota: Marlor Press, Inc., 288 pp. [Cover title: *Heavy weather boating emergencies (what to do when everything goes wrong)*.] [Examples and anecdotes from Lake Mead throughout. See also p. 55, note of Jessie "Shorty" Burton and Upset Rapid in Grand Canyon.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

M

**Maag, Carl; Ponton, Jean; Wilkinson, Martha; AND Rohrer, Steve**

- 1981 15.1077 *Shots WASP to HORNET : the first five TEAPOT tests : 18 February-12 March 1955.* McLean, Virginia: JRB Associates, for U.S. Defense Nuclear Agency, Washington, D.C., 186 pp. [Cover sheet indicates, "United States Atmospheric Nuclear Weapons Tests, Nuclear Test Personnel Review" and "Prepared by the Defense Nuclear Agency as Executive Agency for the Department of Defense".] [Regarding the effects of atmospheric nuclear explosive tests in Nevada. See Chapter 3, "Shot MOTH", notes of cloud tracking by B-50 and B-25 aircraft "until they reached the shores of Lake Mead" and low-altitude aerial survey of terrain by C-47 aircraft that "followed the same route toward Lake Mead" (p. 67). See Chapter 6, "Shot HORNET", notes of cloud tracking by B-50 and B-25 aircraft "as far as the shores of Lake Mead" (p. 151). (ENTIRE NOTES)]

**Macey, Jamie P.; Sharrow, David; AND Unema, Joel**

- 2013 15.662 Water-quality data collected to determine the presence, source, and concentration of lead in the drinking water supply at Pipe Spring National Monument, northern Arizona. *U.S. Geological Survey, Open-File Report 2013-1029*, 15 pp.

**Mackay, Walker David**

- 2020 15.1171 The first trip. *Boatman's Quarterly Review*, 33(4) (Winter 2020-2021): 7-9. [The author's reflections on leading the first trip on the Colorado River through Grand Canyon, a one-boat motorized trip, following the 81-day closure of the river due to the COVID-19 pandemic. Includes notes on social distancing and other precautions.]

**MacNamara, William S.**

- 1956 15.1195 Statement of William S. MacNamara, Investigator, Bureau of Safety Investigation, Operations Group, Civil Aeronautics Board. *In: Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956.* Washington, D.C.: U.S. Government Printing Office, pp. 24-30. [Relating to the 1956 Grand Canyon air crash.]

**Magill-Collins, Anne; Gaither, Marlene; AND Gerba, Charles P.**

- 2013 15.937 Investigations into recurrent norovirus outbreaks in Grand Canyon: Summer 2012 [ABSTRACT]. *In: Selected abstracts from the Wilderness Medical Society's 2013 Winter Scientific Conference. Wilderness and Environmental Medicine*, 24: 291.



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Magill-Collins, Anne; Gaither, Marlene; Gerba, Charles P.; Kitajima, Masaaki; Iker, Brandon C.; AND Stroehr, James D.**

2015 15.826 Norovirus outbreaks among Colorado River rafters in the Grand Canyon, Summer 2012. *Wilderness and Environmental Medicine*, 26(3) (September): 312-318.

---

**Malcolm, Christian J.**

2013 15.658 PSAR at Grand Canyon. *Canyon Views* (Grand Canyon Association), 20(1) (Winter): 9-10. [Preventive Search and Rescue.]

2015 15.837 A day in the life of a PSAR ranger. *Canyon Views* (Grand Canyon Association), 22(3) (Fall): 14-15. [Preventive Search and Rescue.]

**Malcolm, Christian J., AND Heinrich, Hannah**

2017 15.1241 Preventive success! Grand Canyon’s response to search-and-rescue overload. *Park Science* (U.S. National Park Service), 33(1) (Winter 2016/2017): 99-107. [In print June 15, 2017.]

**Malcolm, Christian J.; Heinrich, Hanna; AND Pearce, Emily**

2014 15.1082 Effectiveness of Preventive Search and Rescue: Illness and injury prevention and fiscal impact [ABSTRACT]. *In*: Selected Abstracts From the Wilderness Medical Society’s 2014 Winter Scientific Conference [SECTION]. *Wilderness and Environmental Medicine*, 25(3) (September): 355-356. [Grand Canyon National Park.]

2014 15.1281 Physiological temperature thresholds and heat-related hiker assists: Preventive Search and Rescue in Grand Canyon National Park [ABSTRACT]. *In*: Selected Abstracts From the Wilderness Medical Society’s 2014 Winter Scientific Conference [SECTION]. *Wilderness and Environmental Medicine*, 25(3) (September): 356.

---

**Malek, Mark; Barzilay, Ezra; Kramer, Adam; Camp, Brendan; Jaykus, Lee-Ann; Escudero Abarca, Blanca; Derrick, Greg; White, Patricia; Gerba, Charles; Higgins, Charles; Vinje, Jan; Glass, Roger; Lynch, Michael; AND Widdowson, Marc-Alain**

2009 15.432 Outbreak of Norovirus infection among river rafters associated with packaged delicatessen meat, Grand Canyon, 2005. *Clinical Infectious Diseases*, 48(1): 31-37.

---

**Mal’kevich, A. A. [Mal’kevich, Alexander A.] [Малькевич, А. А.]**

2019 15.1173 *Сшанутые : Смех сквозь слёзы* [Sshanutyye Smekh skvoz’ slozy] [Lost : Laughing through tears]. Омск [Omsk]: [Бертельсманн Медиа Москва [Bertel’smann Media Moscow]], 128 pp. [See p. 121, “«Большой Брат» знает всё. Только иногда забывает. Женщина обвинила GPS-навигатор в том, что она выехала на железнодорожные пути.” [«Bol’shoy Brat» znayet vso. Tol’ko inogda zabyvayet. Zhenshchina obvinila GPS-navigators v tom, chto ona vyyekhala na zheleznodorozhnyye puti.] [Big Brother knows everything. Only sometimes he forgets. The woman accused the GPS navigator of leaving the railroad tracks.] Includes the anecdote of Amber Vanhecke (not the woman mentioned in the item title), who was stranded for five days when using Google Maps to guide her to

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

“Havasu Falls Trail” (as translated), which directed her off road, after which she ran out of gas.] [In Russian.]

**Marcak, Shannan**

2008 15.434 Good decisions lead to fortunate outcome for Grand Canyon backpackers. *Canyon Views* (Grand Canyon Association members newsletter, 14(3) (Fall): 3.

**Marley, Scott**

1999 15.93 “What I say is not the truth, and most of it is made up as I go along”. *In*: How hard is it? and related topics; running the “Grand” [FEATURE]. *The Waiting List* (Grand Canyon Private Boaters Association), 3(1) (February): 19.

**Marquis, Amy Leinbach, AND Kircher, Michael**

2009 15.650 Healing waters; injured soldiers turn to Great Falls Park in Maryland to renew their bodies, minds, and spirits, one paddle stroke at a time. *National Parks*, 83(1) (Winter): 42-45. [See p. 43, “And if you’d seen Brandon Huff paddle technical runs on a recent trip through Grand Canyon National Park in Arizona, you never would have guessed that he lost a leg in Iraq during his tour of duty.” See p. 45, remarks regarding a kayak trip through Grand Canyon by Iraq War veterans Huff, Rob Brown (permanently immobile leg due to war injury), Troy Crawford (double-leg amputee), and Joe Morini, Team River Runner program director).]

**Marston, Betsy**

2013 15.707 [Tour bus returning from Grand Canyon West caught in flash flood.] *In*: Heard Around the West [COLUMN]. *High Country News*, 45(15) (September 2): 28.

2013 15.723 [Phantom Ranch composting toilets.] *In*: Heard Around the West [COLUMN]. *High Country News*, 45(21) (December 9): 28. [During the government shutdown in October, river runners asked for their toilet wastes to restore enzymes in the Phantom Ranch toilets.]

**Martin, Lawrence**

2015 15.1127 Tackling arsenic with adsorption; treatment system brings reservation’s water into EPA compliance. *Water Quality Products*, (January): 26-17. [Water treatment plant at Supai, Havasupai Indian Reservation.] [U.S. Environmental Protection Agency.]

**Martin, Richard (“Ricardo”)**

1998 15.94 Polypro fire danger. *The Waiting List* (Grand Canyon Private Boaters Association), 2(2) (May): 12. [Polypropylene. Item signed “Ricardo”.]

1998 15.95 Helicopter evacuations. *The Waiting List* (Grand Canyon Private Boaters Association), 2(2) (May): 19. [Item signed “Ricardo”.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

- 2000 15.185 [Comments.] *In*: Off the internet: From gcpba@egroups.com [FEATURE]. Helicopter rescues . . . Are they appropriate in a wilderness? *The Waiting List* (Grand Canyon Private Boaters Association), 4(1) (Spring): 10. [Item signed "Ricardo". Ellipsis is part of title.]
- 2002 15.283 [Comment.] *In*: Helicopter rescues . . . Are they appropriate in a wilderness? *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 24. [From gcpba@yahoogroups.com; ellipsis is part of feature title.] [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]

**Martin, Richard, AND Lee, Katie** see "Lee, Katie, AND Martin, Richard"

**Martin, Robyn Slayton**

- 2000 15.186 [Comments.] *In*: Off the internet: From gcpba@egroups.com [FEATURE]. Helicopter rescues . . . Are they appropriate in a wilderness? *The Waiting List* (Grand Canyon Private Boaters Association), 4(1) (Spring): 10. [Ellipsis is part of title.]
- 2002 15.282 [Comment.] *In*: Helicopter rescues . . . Are they appropriate in a wilderness? *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 24. [From gcpba@yahoogroups.com; ellipsis is part of feature title.] [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]

**Martin, Tom [Martin, Thomas C.]**

- 1993 15.96 (WITH Judith G. Stratton) Wrist, forearm, and palm overuse in Colorado River boat rowers. *Journal of Anatomy and Physiology* (Northern Arizona University), (Spring): 17-20.
- 1994 15.97 Do you hurt? *Boatman's Quarterly Review*, 7(4): 20.
- 1995 15.98 Pain and numbness downstream. *The Confluence* (Colorado Plateau River Guides), 2(2) (Spring): 10-11.
- 1995 15.99 Where do you hurt? *Boatman's Quarterly Review*, 8(3): 26-27.
- 1997 15.100 Beat the heat... or... How not to get arrested. *The Waiting List* (Grand Canyon Private Boaters Association), (July): 7. [Ellipses are part of title.]
- 1998 15.101 Hanta virus [*sic*] on the river. *The Waiting List* (Grand Canyon Private Boaters Association), 2(4) (November): 15. [Hantavirus. Originally distributed electronically via *gcpba Newswire*, July 30, 1998.]
- 2001 15.241 The sat-phone option. *The Waiting List* (Grand Canyon Private Boaters Association), 5(3) (Fall): 41. [Satellite phone.]
- 2007 15.1321 Mountain lions on Isis. *Canyon Echo* (Sierra Club, Grand Canyon Chapter), 43(6) (November/December): 9. [Reminiscence of concern for an overdue solo hiker during an attempt to climb Isis Temple.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Martinić, Ivan; Kosović, Mate; AND Grginčić, Ivan**

- 2008 15.721 Upravljanje rizicima pri posjećivanju i rekreacijskim aktivnostima u zaštićenim područjima prirode. Outdoor activities and visitor risk management in protected areas. *Šumarski List* (Znanstveno-stručno i staleško glasilo Hrvatskoga šumarskog društva, Journal of the Forestry Society of Croatia) (Zagreb), 132(1/2): 33-42. [Grand Canyon search and rescue, p. 40.] [In Croatian, with bilingual title and abstract.]

**Massie, Jeannie; Maag, Carl; Rohrer, Stephen; AND Shepanek, Robert**

- 1982 15.384 *SHOT BADGER : a test of the UPSHOT-KNOTHOLE Series, 18 April 1953 : United States atmospheric nuclear weapons tests, nuclear test personnel review.* McLean, Virginia: JRB Associates; "prepared by the Defense Nuclear Agency as Executive Agency for the Department of Defense" (technical report DNA 6015F), 100 pp. [See pp. 68, 71, relating to atomic fallout from Shot BADGER in the Lake Mead and northern Arizona areas.]

**Mater, Rick**

- 2022 15.1249 *Six hours : running for my life in the Grand Canyon : a memoir.* Los Angeles: Boulevard 55 Books, 243 pp. [An on-demand publication.] [The author's experience was running to the bottom of the canyon and up as a "64-year-old cardiac patient with multiple stents in his 'widow-maker' aorta." (from the back cover).]

**Matheis, Gerhard**

- 2009 15.503 Reflections from NEHA Conference 2008. *OEHA Newsletter* (Oregon Environmental Health Association), (January): 1, 3. [Passing mention and comment on norovirus outbreaks on Grand Canyon river trips, p. 3.] [National Environmental Health Association.]

**Mattox, Don**

- 2005 15.349 In trouble in Grand Canyon. *Footprints*, (13) (September): 3.

**Mauk, Ben**

- 2017 15.1032 States of decay; a journey through America's nuclear heartland; letter from the Colorado Plateau. *Harper's Magazine*, (October): 48-59. [Includes Grand Canyon area (pp. 51-52).]

**Maupin, G. O.**

- 1974 15.936 An outbreak of tick-borne relapsing fever at Grand Canyon National Park [ABSTRACT]. *In: Proceedings of the Tenth Biennial Public Health Vector Control Conference*, pp. 31-32.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Maurer, Matt**

2018 15.976 Tolio in Coconino County. *Boatman's Quarterly Review*, 31(1) (Spring): 24-28.

---

**Mayer, Jon**

2008 15.788 More . . . with less; with wildland fires getting bigger and more frequent, and less money available in agency budgets to fight them, operators need a tool to help them do more. *Vertical* (Kitchener, Ontario), 7(4) (August/September): cover, 2-4. [Regarding the helicopter-slung Bambi Bucket for hauling water to wildfires. See p. 3, note regarding first use in Kaibab National Forest on Grand Canyon North Rim.] [Ellipsis is part of title.]

---

**McClellan, J. Mac**

1988 15.646 Too long in the icebox. *In: Aftermath* [SECTION]. *Flying*, 115(1) (January): 22-23. [Crash of Mooney 201 on Kaibab Plateau.]

---

**McComas, Katherine**

2014 15.1164 Risk perception and communication. *From: Using research into the human dimensions of natural resource management to enhance science-informed decisions. In: Weber, Samantha (ed.), Protected Areas in a Changing world : proceedings of the 2013 George Wright Society Conference on Parks, Protected Areas, and Cultural Sites.* Hancock, Michigan: George Wright Society, pp. 88-89. [See p. 89, note of the death of Eric York, wildlife biologist, from pneumonic plague after necropsy of mountain lion at Grand Canyon.]

---

**McComb, Donald B., Jr., AND McComb, Michael B.**

1992 15.102 Final destination; the story of Flight 2 and Flight 718. *Airliners*, 5(1) (Spring): 41-46. [1956 air crash.]

---

**McComb, Michael B. [McComb, Mike]**

2006 15.373 Desert disaster; TWA-United mid-air collision over the Grand Canyon. *America's Flyways*, 7(6) (June): cover, 1, 20-26.

2006 15.374 Collision over the canyon; half a century onward. *Airways*, 13(6) (August): 46-56.

2011 15.592 Collision over Menciis Temple: 25 years onward. *Airways*, 18(6): 40-46.

2025 15.1349 Grand Canyon 1956 mid-air collision—what aviation archaeology reveals. *In: Spamer, Earle E. (ed.), Those Who Made a Difference : proceedings of the 6th Grand Canyon History Symposium, Grand Canyon, Arizona, November 1-4, 2023.* Grand Canyon, Arizona: Grand Canyon Conservancy. *In press.*

---

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**McConnell, Tayloe**

2006 15.377 The science of hydration; it's all about the electrolytes. *Northern Arizona's Mountain Living Magazine*, (June): 26-27, 30.

---

**McCormac, Patty**

2014 15.799 Mike Loven builds safety into projects. *Flagstaff Business News* (Flagstaff, Arizona), 7(9) (September): 9, 17.

---

**McCullough, Amy**

2013 15.689 Angel Thunder; combat search and rescue teams have seen the value of training as they fight. *Air Force Magazine*, (June): 26-34. [Overview of project Angel Thunder. See illustration, p. 33, "USAF pararescuemen practice a high-angle rescue in a mass casualty exercise at the Grand Canyon during Angel Thunder."]

---

**McDaniel, J. R.**

1935 15.1017 Heat stroke at Boulder Dam. *American Medical Association, Journal*, 104(16) (April 20): 1442.

---

**McDonnell, Janet A.**

NO DATE 15.685 *The National Park Service: Responding to the September 11 terrorist attacks*. [No place]: U.S. National Park Service, 132 pp. [Notes relating to Hoover Dam and Davis Dam, and Lake Mead National Recreation Area, see pp. 11, 12, 98.]

---

**McEvoy, Jamie**

2003 15.296 Virus attacks in the Grand Canyon. *High Country News*, 35(1) (January 20): 5. [Norwalk virus.]

---

**McGill, Kelly**

2011 15.622 *River recreation safety and the effects of flow on the Colorado River below the Glen Canyon Dam*. Master's thesis, Northern Arizona University, 98 pp.

---

**McGinnis, Michael**

2001 15.218 First aid changes. *Boatman's Quarterly Review*, 14(1) (Spring): 20.

---

**McGivney, Annette**

1997 15.633 A canyon primer; businessmen with briefcases, 106°F heat, and "dirt medicine" are par for the course when you hike the canyon's trails. *In*: McGivney, Annette, and Archibald, Timothy, *A grand obsession*. *Backpacker*, 25(5) (June): 49.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

- 1997 15.634 “The canyon is different”; just because you’ve hiked the Alps doesn’t mean you’ll sail easily through this grand chasm. *In*: McGivney, Annette, and Archibald, Timothy, A grand obsession. *Backpacker*, 25(5) (June): 54.
- 1999 15.613 No time to be a troop leader? *In*: McGivney, Annette, Be prepared; when it comes to today’s Boy Scouts, the old motto has never meant more—to parents, that is, because as one determined mother learned, the youngsters are only half the equation. *Backpacker*, 27(5) (June): 50. [Includes note of search-and-rescue efforts at Grand Canyon for scouting groups, the result of troop leaders unskilled in wilderness travel.]
- 2007 15.401 Demerit badge; is Boy Scouts of America doing enough to keep kids safe? *Outside*, 32(7) (July): 32-33.
- 2025 15.1352 What the doctor ordered. *Arizona Highways*, 101(1) (January): 32-37. (“Not many people would go through med school and most of an internship and then decide to walk away. But for Tom Myers, his heart was somewhere else—at the Grand Canyon—and following his heart was most important. Turns out, he didn’t have to choose. He found a way to take care of others and himself when he took a job as a doctor on the South Rim.”)

**McGivney, Annette, AND Smith, Mark**

- 2016 15.877 June 30, 1956. *Arizona Highways*, 92(6) (June): 48-51. [Regarding the 1956 air crash in Grand Canyon.] [See also p. 3, “Contributors” section, regarding illustrator Mark Smith.] [See also letter from John R. Regnier, (9) (September): 4.]

**McIntosh, Dave**

- 2017 15.950 Interview with Dave McIntosh, Chief Pilot. *Aero Crew News* (Atlanta, Georgia), (November): 44-45. [As part of the cover article, “Grand Canyon Scenic Airlines”, by Meredith Edwards (2017, ITEM NO. 2.26358). Regarding operations out of Boulder City, Nevada, with emphasis on hiring and training.]

**McIveen, John W.**

- 1987 15.649 *Radiological assessment of the Hermit Project, Kanab Plateau—Arizona Strip, Mohave County, Arizona*. Tempe, Arizona: Radiation and Environmental Monitoring, for Energy Fuels Nuclear, Inc., Denver, 37 pp. [Also included as an attachment in Dames and Moore [firm] (1987, ITEM NO. 21.7543).]
- 1990 15.302 Personnel dosimetry for uranium miners at high-grade, underground mines near the Grand Canyon. *Radiation Protection in Australia*, 8(3): 62-65.
- 1991 15.952 Personnel dosimetry for uranium miners at high-grade, underground mines near the Grand Canyon. *Radiation Protection Management* (Marietta, Georgia), 8(3): 21-29.

**McLean, Robert G.**

- 1994 15.655 Wildlife diseases and humans. *In*: Hygnstrom, Scott E., Timm, Robert M., and Larson, Gary E. (eds.), *Prevention and control of wildlife damage*. [No place]: University of Nebraska at Lincoln, Institute of Agriculture and Natural Resources, University of

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

Nebraska Cooperative Extension; U.S. Department of Agriculture, Animal and Plant Health Inspection Service, Animal Damage Control; and Great Plains Agricultural Council, Wildlife Committee, pp. A-25 to A-38. [See "Relapsing Fever", pp. A-33 to A-34, including brief note of Grand Canyon.]

**Meek, James**

2000 15.304 Drowned in the desert. *London Review of Books*, 22(14) (July 20). [Review of *A fly for the prosecution*, by M. Lee Goff.]

**Megna, Dan**

2018 15.1166 Pulling together; how crews responded to a fatal helicopter crash at the Grand Canyon earlier this year. *Vertical 911* (Kitchener, Ontario, and Fall River, Wisconsin), 11(4) (Fall): 54-57. [Papillon Grand Canyon Helicopters Airbus EC130 B4 crash within Grand Canyon on Hualapai Indian Reservation, February 10, 2018; medevacs under night conditions.]

**Melville, Bob**

1992 15.103 Back country evacuations. *The News* (Grand Canyon River Guides), 5(2) (Spring): 17.

**Menkes, Dove [Menkes, Elchanan Dov]**

2008 15.405 Powell's life preserver. *Canyon Views* (Grand Canyon Association), 14(1) (Spring): 10. [See also comment by Clyde "Ross" Morgan, 14(2): 11.]

**Merrigan, William**

1956 15.1206 Statement of Capt. William merrigan, Chairman, Master Executive Council, TWA Pilots Association. *In: Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956.* Washington, D.C.: U.S. Government Printing Office, pp. 129-132. [Relating to the 1956 Grand Canyon air crash.]

**Merson, Michael H.; Goldmann, Donald A.; Boyer, Kenneth M.; Peterson, Norman J.; Patton, Charlotte; Everett, Lorne G.; Downs, Harry; Steckler, Allen; AND Barker, William H., Jr.**

1974 15.104 An outbreak of *Shigella sonnei* gastroenteritis on Colorado River trips. *American Journal of Epidemiology*, 100(3): 186-196.  
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 4-22]



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Metcalf & Eddy [firm]; AECOM [firm]; Asano, Takashi; Burton, Franklin L.; Leverenz, Harold L.; Tsuchihashi, Ryujiro; AND Tchobanoglous, George**

2007 15.570 *Water reuse : issues, technologies, and applications*. New York, Chicago, San Francisco, Lisbon, London, Madrid, Mexico City, Milan, New Delhi, San Juan, Seoul, Singapore, Sydney, and Toronto: McGraw Hill, 1570 pp. [See in Appendix E, "Review of Water Reclamation Activities in the United States and in Selected Countries": "Grand Canyon Village, Grand Canyon National Park, AZ", pp. 1485-1486. (From Fleming, 1990.)] [AECOM: AECOM Technology Corporation (Architecture, Engineering, Consulting, Operations and Management).]

**Metcalf, Leonard, AND Eddy, Harrison P.**

1916 15.528 *American sewerage practice. Volume III. Disposal of sewage*. New York: McGraw-Hill Book Co., Inc., and London: Hill Publishing Co., Ltd., 2nd ed., 877 pp. [See pp. 516, 518, in chapter on "Contact Beds", brief notices of Grand Canyon installation.]

**Michelson, Irving**

1963 15.1185 Statement of Irving Michelson, Consumers Union. *In: Developments in technical capabilities for detecting and identifying nuclear weapons tests. Hearings before the Joint Committee on Atomic Energy, Congress of the United States, Eighty-eighth Congress, First Session, on developments in technical capabilities for detecting and identifying nuclear weapons tests : 1963 : March 5, 6, 7, 8, 11, and 12, 1963 : printed for the use of the Joint Committee on Atomic Energy*. Washington, D.C.: U.S. Government Printing Office, pp. 495-518. [Subject of session: "Fallout in the Food Chain and Uptake by Man". Michelson begins by referring to new data, which though "relative sparse, I believe the are sufficiently significant to be put into your records at this time." Two tables (pp. 495, 496), both titled "Consumers Union's total diet samples, tentative findings, Aug. 20, 1963 (piccuries per gram of calcium)", reports figures for strontium 90, strontium 89, and cesium 137; nationwide sample points include "Grand Canyon". No text discussion pertaining to specific sampling points.]

**Miller, Aaron**

2017 15.1165 Insider's perspective: Search and rescue at the Grand Canyon. *The Mountain Dispatch* (University of New Mexico, International Mountain Medicine Center, Albuquerque), (Summer): cover, 3, 5-8, 17, back cover.

**Miller, Charlie**

2007 15.488 National parks provide challenging environments for wing EMTs. *Buckeye Flyer* (Wright-patterson Air Force Base, Ohio), 46(10) (October): 4-5. [Emergency Medical Technicians.]

**Miller, J. E.**

1898 15.703 The W-A intestinal antiseptic a winner. *The Alkaloidal Clinic* (Chicago), 5(7) (July): 413-414. [Testimonial for Waugh-Abbott Intestinal Antiseptic Tablets used during "a

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

trip with a companion down the Grand and Colorado Rivers to the Grand Canon.”  
(Out at Lees Ferry?)]

- 1901 15.531 Intestinal Antiseptic (W-A) a winner. *From:* The Alkaloidal Clinic; 1898; 1899. *In:* Abbott, W. C., and Waugh, W. F. (eds.), *American alkalometry. Vol. II. A digest of clinic teachings : 1898 and 1899.* Chicago: Clinic Publishing Co., pp. 533-534. [Testimonial for Waugh-Abbott Intestinal Antiseptic Tablets used during “a trip with a companion down the Grand and Colorado Rivers to the Grand Canon.” (Out at Lees Ferry?)]

**Milner, Samuel, AND Garonzik, Joseph**

- 1983 15.1290 Thunder from the canyon; the birth of the FAA and a modern airways system. *World* (U.S. Federal Aviation Administration, Washington, D.C.), 13(8) (August): 4-10. [Features the event and aftermath of the 1956 Grand Canyon air crash.]

**Minter, Kelsey M.; Jannik, G. Timothy; Hinck, Jo Ellen; Cleveland, Danielle; Kubilius, Walter P.; AND Kuhne, Wendy W.**

- 2019 15.1059 Biota dose assessment of small rodents sampled near breccia pipe uranium mines in the Grand Canyon watershed. *Health Physics*, 117(1) (July): 20-27.

**Mitchell, Gregg S., AND Rucker, Michael L.**

- 2010 15.663 Geotechnical investigation and design of an Americans With Disabilities Act (ADA) compliant ramp along the South Rim of the Grand Canyon at Mather Point, Grand Canyon National Park, Arizona. *In:* *61st Highway Geology Symposium, Oklahoma City, Oklahoma, August 23rd-26th, 2010 : proceedings : hosted by The Oklahoma Department of Transportation, The Oklahoma Geological Survey*, [separately paginated paper in volume, 20 pp.] [See also Abstract, p. 64, which differs somewhat from the abstract in the paper, with the title, “Geotechnical investigation to support design of an ADA compliant access ramp on the South Rim of the Grand Canyon at Mather Point Overlook, Grand Canyon National Park, Arizona”.]

**Mockenhaupt, Brian**

- 2013 15.1273 Dress rehearsal; an emergency at the Grand Canyon provides plenty of lessons for Park Service staff and other federal agencies. *National Parks*, 87(3) (Summer): 24, 26, 28. [Mass-casualty drill at Yaki Point as part of statewide Angel Thunder search-and-rescue exercise.]

**Moeller, Karen**

- 1996 15.259 Clean getaways; Steve Abrams and Guy Grand offer sober vacations to travelers in recovery. *Business Start-Ups*, (November):.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Mohlman, F. W.**

- 1930 15.567 Sewage. *In*: West, Clarence J. (ed.), *Annual survey of American chemistry. Volume IV. July 1, 1928 to December 31, 1929*. New York: The Chemical Catalog Co., Inc., for U.S. National Research Council, pp. 338-350. [See p. 345, brief reference to a “rather unique activated-sludge plant” installed at Grand Canyon.]
- 

**Mohr, Werner**

- 1983 15.564 Nachuntersuchungen bei Amöben-Leber-Lungen-Abszessen nach längerer Zeit. *Österreichischen Gesellschaft für Tropenmedizin und Parasitologie, Mitteilungen*, 5: 107-113. [Includes case study, pp. 108-109, of a woman with amoebic liver-lung abscesses six weeks after having traveled in the western U.S. and in Mexico, including a river trip through Grand Canyon. No further notes pertaining to Grand Canyon.] *[In German.]*
- 

**Molitoris, Jolene M.**

- 1999 15.553 Inspection and maintenance standards for steam locomotives. *Federal Register*, 64(221) (November 17): 62828-62918. [Grand Canyon Railway noted in pp. 62829-62847.]
- 

**Moon, Ellie**

- 2002 15.250 Miracle man; hiker improving quickly after steep fall. *Flagstaff Live!*, (April 25-May 1): 28.
- 

**Morgan, Clyde “Ross”**

- 2008 15.435 Dear Editor: *Canyon Views* (Grand Canyon Association), 14(2): (Summer): 11. [Comment on “Powell’s Life Preserver”, by Dove Menkes, 14(1).]
- 

**Motter, Roberta, AND Riccio, Nancy**

- 2007 15.967 Sexual harassment prevention: A recap of the recent training sponsored by the Whale Foundation. *Boatman’s Quarterly Review*, 20(1) (Spring 2006-2007) [*sic*]: unpaginated insert, [2] pp.
- 

**Muller, Seth**

- 2006 15.376 Lessons from a tragedy; the 50th anniversary of the big canyon crash. *Northern Arizona’s Mountain Living Magazine*, (June): 18-21.
- 2008 15.411 Knowing better; the National Park Service on Grand Canyon day hikes. *Northern Arizona’s Mountain Living Magazine*, (May): 26.
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Murphy, Gordon K.**

- 1990 15.105 The Grand Canyon midair collision: A stimulus for change. *American Journal of Forensic Medicine and Pathology*, 11(2) (June): 102-105.
- 

**Murphy, Seán Óg; Sreenan, Cormac; AND Brown, Kenneth N.**

- 2019 15.1345 Autonomous unmanned aerial vehicle for search and rescue using software defined radio. *In: 2019 IEEE 89th Vehicular Technology Conference (VTC2019–Spring), Kuala Lumpur, Malaysia, 28 April-1 May*, 6 pp. [See Figure 2 (p. 3), “Example propagation maps for Cork, Grand Canyon, Swiss Alps, South Australia”.]
- 

**Murphy, Shane**

- 1993 15.106 Yo, Leroy! *The News* (Grand Canyon River Guides), 6(1) (Winter 1992/1993): 27. [Drinking.]
- 2009 15.482 Scouts to the rescue—a true story. *Boatman’s Quarterly Review*, 22(3) (Fall): 9-10. (“Written by Shane Murphy from the perspective of the Trip Leader.”)
- 

**Musselman, Warren**

- 2000 15.187 [Comments.] *In: Off the internet: From gcpba@egroups.com* [FEATURE]. Helicopter rescues . . . Are they appropriate in a wilderness? *The Waiting List* (Grand Canyon Private Boaters Association), 4(1) (Spring): 10. [Ellipsis is part of title.]
- 2002 15.284 [Comment.] *In: Helicopter rescues . . . Are they appropriate in a wilderness? The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 24. [From gcpba@yahoo.com; ellipsis is part of feature title.] [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]
- 

**Myers, Thomas M. [Myers, Tom]**

- 1996 15.107 Medical alert! Water intoxication . . . It’s for real, and the problem is getting worse. *Boatman’s Quarterly Review*, 9(3): 10-11. [Ellipsis is part of title.]
- 1997 15.108 “The mysterious foot rot”. *The Waiting List* (Grand Canyon Private Boaters Association), 1(9): 3.
- 1998 15.109 Immersion hypothermia. *The Waiting List* (Grand Canyon Private Boaters Association), 2(1) (February): 14, 18.
- 1998 15.110 “Canyon toes”. *The Waiting List* (Grand Canyon Private Boaters Association), 2(2) (May): 18.
- 1998 15.111 Rattlesnakes [*sic*] bites and testosterone poisoning. *The Waiting List* (Grand Canyon Private Boaters Association), 2(3) (August): 18-19.
- 1998 15.112 Deadly virus infects Grand Canyon. *Boatman’s Quarterly Review*, 11(4) (Fall): 20-21. [Hantavirus.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

- 1998 15.113 Hanta: Deadly virus infects Grand Canyon. *The Waiting List* (Grand Canyon Private Boaters Association), 2(4) (November): 18-19. [Hantavirus.]
- 1999 15.114 Seen any good fatalities lately? *Boatman's Quarterly Review*, 12(1) (Winter 1998-1999): 45.
- 1999 15.115 A river runs through me; (Part I) Waterborne disease in Grand Canyon. *The Waiting List* (Grand Canyon Private Boaters Association), 3(1) (February): 24-25.
- 1999 15.116 A river runs through me; Part II; Waterborne disease in Grand Canyon. *The Waiting List* (Grand Canyon Private Boaters Association), 3(2) (May): 26-27.
- 1999 15.173 Scorpions: "All bark, no bite?" *The Waiting List* (Grand Canyon Private Boaters Association), 3(4) (December): 28, 30.
- 2000 15.188 Golden rules for helicopter evacuations. *The Waiting List* (Grand Canyon Private Boaters Association), 4(1) (Spring): 18-19.
- 2000 15.199 Golden rules for helicopter evacuations. *The Waiting List* (Grand Canyon Private Boaters Association), Special Issue: 12-13. [NOTE: "A Special Edition of the Grand Canyon Private Boaters Association Quarterly Courtesy of Power Bar"; issue not mailed but distributed at Lees Ferry.]
- 2000 15.200 River bondage. *The Waiting List* (Grand Canyon Private Boaters Association), 4(2) (Summer): 28-29.
- 2000 15.201 The kayaker special. *The Waiting List* (Grand Canyon Private Boaters Association), 4(3) (Fall): 32-33.
- 2000 15.206 Tips for the trail; summer hiking: ready or not? *Grand Canyon Footprints* (Grand Canyon Hikers and Backpackers Association), 1(1): [1]. [Issue distributed January 2001.]
- 2001 15.207 Tragedy at Little Nanko. *The Waiting List* (Grand Canyon Private Boaters Association), 4(4) (Winter 2000-2001): 30-31. [Excerpt from forthcoming book, "Over the Edge: Death in Grand Canyon" by Michael Ghiglieri and Thomas Myers.]
- 2001 15.219 Moonflower madness. *The Waiting List* (Grand Canyon Private Boaters Association), 5(1) (Spring): 30-31. [Datura.]
- 2001 15.227 Drowning and the hormonal challenge. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 5(2) (Summer): 32-33.
- 2001 15.242 Casinos of stone: Monsoon gambling and playing the slot canyons. *The Waiting List* (Grand Canyon Private Boaters Association), 5(3) (Fall): 2-5.
- 2002 15.246 Doc in the box. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 5(4) (Winter 2001-2002): 18-21. [Recommended medical kit supplies. Issue distributed March 2002.]
- 2002 15.266 The mysterious foot rot. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 4. [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON—LAKE MEAD REGION

- 2002 15.267 "Canyon toes". *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 4. [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]
- 2002 15.268 Immersion hypothermia. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 5. [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]
- 2002 15.269 Rattlesnakes [*sic*] bites and testosterone poisoning. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 6-7. [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]
- 2002 15.270 Doc in the box. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 10-13. [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]
- 2002 15.271 A river runs through me; parts I and II waterborne disease in the Grand Canyon. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 14-17. [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]
- 2002 15.273 Scorpions: All bark, no bite? *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 22-23. [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]
- 2002 15.274 Golden rules for helicopter evacuations. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 32. [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]
- 2002 15.275 River bondage. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 38-39. [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]
- 2002 15.276 Tragedy at Little Nanko. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 48-49. [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]
- 2002 15.277 Moonflower madness. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 53-54. [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]
- 2002 15.278 Drowning and the hormonal challenge. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 54-55. [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]
- 2002 15.279 Casinos of stone: Monsoon gambling and playing the slot canyons. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 56-59. [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]
- 2002 15.280 The kayaker special. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 60-61. [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

- 2003 15.297 The unforgiven: Dry heat and the desert crucible. Part I—Don't sweat the small stuff: The minor heat syndromes. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(2) (Winter 2002-2003): 18-19.
- 2003 15.314 The unforgiven: Heat and the desert crucible, dying of thirst and getting drunk in the desert. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(3) (Fall): 20-23.
- 2004 15.325 The silence of death and heatstroke. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(4) (Winter/Spring): 6-10.
- 2004 15.333 The canyon shuffle and overuse syndromes. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 7(1) (Fall): 38-39.
- 2005 15.366 Casinos of stone: Monsoon gambling and playing the slot canyons. *In*: Anderson, Michael F. (compiler, ed.), A gathering of Grand Canyon historians; ideas, arguments, and first-person accounts; proceedings of the inaugural Grand Canyon History Symposium, January 2002. *Grand Canyon Association, Monograph 13*, pp. 177-180.
- 2020 15.1150 *How not to die at Grand Canyon : includes prevention and first aid tips.* (Susan Tasaki, ed.; design by David Jenney Design.) Grand Canyon, Arizona: Grand Canyon Conservancy, 6-panel [12-p.] gatefold pamphlet, laminated. [When folded, an in-design narrow fold serves as spine title for shelving.]
- 2020 15.1151 Tom Myers, doctor, author. *From*: Interviews [SECTION]. *In*: Dundas, Zach (ed.), *Grand Canyon : "the ages at work"*. Austin, Texas: Wildsam Field Guides, p. 102.

**Myers, Thomas M., AND Hoffman, Martin D.**

- 2015 15.827 Hiker fatality from severe hyponatremia in Grand Canyon National Park. *Wilderness and Environmental Medicine*, 26(3) (April): 371-374.

**Myers, Thomas M., AND Stevens, Larry** [Stevens, Lawrence E.]

- 1996 15.117 Injury frequency of commercial Grand Canyon river running and 17 other sports. *Boatman's Quarterly Review*, 9(2): 15.

**Myers, Thomas M.; Becker, Christopher C.; AND Stevens, Lawrence E.**

- 1999 15.189 *Fateful journey : injury and death on Colorado River trips in Grand Canyon.* Flagstaff, Arizona: Red Lake Books, 178 pp.  
     ≡ CROSS-LISTINGS FQ15:376 FQ16:146 FQ17:312 FQ21:178 FQ22:253  
     FQ23:246 FQ24/1:559  
     ≡ REVIEWS AND NOTICES Quartaroli, 2000, ITEM NO. 30.315
- 2000 15.190 [Comments.] *In*: Three helicopter rescues [FEATURE]. *The Waiting List* (Grand Canyon Private Boaters Association), 4(1) (Spring): 12-13. [Excerpt from Myers *et al.* (1999), *Fateful journey*.]
- 2002 15.288 [Comment.] *In*: Three helicopter rescues. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 26-27. [Excerpt from Myers *et al.*, (1999), *Fateful journey*.] [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Myers, Thomas M.; Bigler, Carl J.; Maurer, Matthew B.; Gaither, Marlene E.; AND Taylor, Walter M.**

2020 15.1130 Tolio: Foot rot in Grand Canyon river runners. *Wilderness and Environmental Medicine*, 31(1): 82-86.

**Myers, Thomas M.; Stevens, Larry** [Stevens, Lawrence E.]; **AND Becker, Chris**

1996 15.118 More pie charts. *Boatman's Quarterly Review*, 9(3): 8. [Excerpts from a study on injuries during Grand Canyon river trips.]

---

N

**Naftz, D. L.; Walton-Day, K.; Gardner, W. P.; Goble, D.; Duniway, M. C.; AND Bills, D.**

2017 15.989 Utilizing radon monitors, time-lapse photography, and on-site meteorological data to understand changes in radon concentration during mining and reclamation, Pinenut uranium mine, AZ [ABSTRACT]. *In: 14th Biennial Conference of Science and Management for the Colorado Plateau and Southwest Region, September 11-14, 2017, High Country Conference Center, Northern Arizona University, Flagstaff, Arizona.* [No imprint], p. 116.

---

**Nakai, Richard**

2022 15.1337 Practice makes perfect; what I've learned from my HG bumps. *USHPA Pilot* (United States Hang Gliding and Paragliding Association, Colorado Springs, Colorado), 52(4) (Fall): 30-33. [The author was injured in a hang gliding accident and realized "the root cause of the crash was clear to me. The day prior, I had hiked a 16-mile route in the Grand Canyon which left me mentally and physically drained. I was exhausted and never should have been flying." Yet another example of the physical stress of Grand Canyon hiking.]

---

**Napoletano, Denice**

1994 15.119 Back to the cutting board. *Hibernacle News*, 1994: 20. [Coconino County Health Department food preparation guidelines.]

---

**Nardizzi, Ariella**

2021 15.1170 Climbing the walls. *Arizona Highways*, 97(1) (January): 23. [Brief notes on safety during Grand Canyon rock climbing; as a sidebar to Noble and Burcham (2021, [ITEM NO. 2.29916](#)), an item about brothers Pernell and Aaron Tomasi climbing Grand Canyon summits.]

---



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**National Disability Rights Network**

- 2006 15.452 *The Protection and Advocacy for Individual Rights Program : report of 2005 activities.* Washington, D.C.: National Disability Rights Network. [See p. 2, “The Arizona P&A assisted an individual who uses a wheelchair and works for the National Park Service at the Grand Canyon.”]

**Natural Park Foundation [Japan] [一般財団法人 自然公園財団]**

- 2013 15.1090 平成24年度総合的山岳環境保全対策推進事業実施業務報告書 [Heisei 24-nendo sōgō-teki sangaku kankyō hozen taisaku suishin jigyō jisshi gyōmu hōkoku-sho] [2012 comprehensive mountain environment conservation measure promotion business implementation business report]. Tokyo: 一般財団法人 自然公園財団 [Ippan zaidanhōjin ji shika kō-en-zai-dan] [Natural Park Foundation], 161 pp. [Regarding compost toilets in the Grand Canyon, see in “第3章 調査結果の詳細” [dai 3-shō chōsa kekka no shōsai] [Chapter 3, Details of Survey Results], “③ 海外の山岳トイレの事例写真” [3, kaigai no sangaku toire no jirei shashin] [No. 3, Case photos of mountain toilets overseas]: “グランドキャニオンにあるコンポストトイレ (Grand Canyon Compost 01~05)。中は二段式になっており、分解されたあと二酸化炭素を排気する仕組みになっている。(Grand Canyon Compost06)。” [Gurandokyanion ni aru konposutotoire (Grand Canyon Compost 01 ~ 05).—Chū wa ni-danshiki ni natte ori, bunkai sa reta ato nisankatanso o haiki suru shikumi ni natte iru. (Grand Canyon Compost 06)] [Grand Canyon Compost 01-05 in the Grand Canyon. The inside is a two-stage system, which is configured to exhaust carbon dioxide after being decomposed. (Grand Canyon Compost 06)] [illustrated] [ENTIRE NOTE].] [In Japanese.]

**Nelson, Abel O.**

- 1993 15.120 Poop. *The News* (Grand Canyon River Guides), 6(3) (Late Summer): 16.

**Nelson, Carlyle LaMar**

- 1974 15.1167 Flying the tunnel; “underground” in the Grand Canyon. *Journal of Arizona History*, 15(4) (Winter): 319-324. [The author piloted Western Air Express Flight 2 (Los Angeles to Albuquerque), January 12, 1930, in a Fokker F-10 aircraft, encountering blizzard conditions in northern Arizona. A white-knuckle series of events with notes of historical interest, with the flight eventually forced into and west through the Grand Canyon to return to Kingman.]  
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 1-70]

**Nelson, Kathy**

- 2011 15.1146 *National Rabies Management Program : summary report 2011.* Concord, New Hampshire: U.S. Department of Agriculture, Animal and Plant Health Inspection Service, National Rabies Management Program, 11 pp. [See p. 5: Rabies cases in Coconino County, Arizona, included “2 gray foxes from a ranch within Grand Canyon National Park . . . were confirmed with a rabies variant associated with big brown bats”. (Phantom Ranch.)]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Nelson, Mike**

- 2012 15.854 *We are going in : the story of the Grand Canyon disaster.* Bloomington, Indiana: AuthorHouse, 455 pp. [Aircraft disaster of 1956.] [An on-demand publication.]
- 2017 15.933 *We are going in : the story of the 1956 Grand Canyon midair collision.* Tucson: Rio Nuevo Publishers, 2nd ed., 455 [456] pp.
- 2020 15.1131 New group: *Patrons of the 1956 Grand Canyon Midair Collision.* *In:* The Bulletin [NEWSLETTER SECTION]. *The Ol' Pioneer* (Grand Canyon Historical Society), 31(2) (Spring): 12-13. [Announcement.]

**Netafim USA**

- 2007 15.688 *Hualapai Tribe's Grand Canyon Skywalk.* Fresno, California: Netafim USA, [2] pp. (Solutions by Netafim™.) [Fact sheet.] [Regarding wastewater treatment system.]

**Neu, Kelly**

- 2006 15.878 River Rx: Dr. Turvy's guide to a carefree ride. *Sundog Expeditions Convergence* (Deary, Idaho), 1(2) (Fall): 5. [Promotional piece for Dr. Turvey's Special Formula, or G.I.N., from the "African desert". See testimonial by Huo Xiang Zheng Qi Wan, which notes, "It is for thowse times when you've spent days eating greasy fast-food on your way to Lee's Ferry put-in on the Colorado River . . . ." (ENTIRE NOTE)]

**Neufeldt, Debbie**

- 1997 15.1054 Memories of an emergency nurse who attempted to "get away from it all". *Journal of Emergency Nursing*, 23(6) (December): 521-523. [Letter to the editor, recounting a situation during a Grand Canyon hike that found her at Phantom Ranch treating a 78-year-old woman with head injuries.]

**Neville, Tim**

- 2024 15.1351 Paige McClanahan: The author of one of the year's most compelling books on overtourism lays out exactly how we can travel better. *In:* Be So Bold: 13 Adventurers, Athletes, and Other Renegades Making a Difference and Shaking Up the Outdoors [FEATURE]. *Outside*, (November/December): 58. [Quoting McClanahan: "You can control your partying in Amsterdam and stay behind the fence at the Grand Canyon." (ENTIRE NOTE)]

**Newcomer, B. R.; Sirikul, B.; Hunter, G. R.; Larson-Meyer, E.; AND Bamman, M.**

- 2005 15.549 Exercise over-stress and maximal muscle oxidative metabolism: a <sup>31</sup>P magnetic resonance spectroscopy case report. *British Journal of Sports Medicine*, 39: 302-306. [Includes one episode during a Grand Canyon rim-to-rim run.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Newell, Suzann**

- 2020 15.1176 Blast from the past; September/October, 1994. Meadview hits national media. 1984 helicopter crash and rescue. *Meadview Monitor*, (September/October): 7. [Repeating a 1994 recounting of the events of the 1984 crash above the Grand Wash Cliffs.]
- 

**Newman, Sara**

- 2007 15.1267 Recognizing parks for outstanding efforts to prevent visitor injuries. *Ranger* (Association of National Park Rangers, Journal), 23(4) (Fall): 13-14. [Includes notes on the Hike Smart program initiated at Grand Canyon.]

**Newman, Sara; Rizek, Jamla; AND Basch, Annalise**

- 2024 15.1354 Up close and personal: The Deputy US Surgeon General sees the impact of Arizona officers. *COA Frontline* (Commissioned Officers Association of the U.S. Public Health Service, and U.S. Public Health Service Commissioned Officers Foundation, Cheltenham, Maryland), 62(5) (June/July): 12. [RADM Denise Hinton and others attended an event at Grand Canyon to commemorate the partnership between the U.S. Public Health Service Commissioned Corp and U.S. National Park Service. Note photo of group on South Rim: "Retired Officer Rear Admiral Pam Schweitzer and her husband, Paul, join a hike with current USPHS officers and NPS staff including LCDR Rizek, RADM Denise Hinton, Havasupai tribal spiritual leader James Uqualla, Grand Canyon Superintendent Ed Keable, CAPT Sara Newman, Annalise Basch, and CDR Ronan King."]
- 2024 15.1355 Connection, healing, and of protection of health for future generations: USPHS and Park Service more than 100 years of partnership. *COA Frontline* (Commissioned Officers Association of the U.S. Public Health Service, and U.S. Public Health Service Commissioned Officers Foundation, Cheltenham, Maryland), 62(5) (June/July): 33. [Event at Grand Canyon to commemorate the partnership between the U.S. Public Health Service Commissioned Corp and U.S. National Park Service. Note indoor group photo: "National Park Service employees, USPHS officers, and tribal leaders with Deputy Surgeon General, RADM Denise Hinton during her visit to Grand Canyon National Park in May 2024."]
- 

**Nichols, Marshall**

- 2006 15.393 EZ campfire; time for a different way. *The Waiting List* (Grand Canyon Private Boaters Association), 7(4) (Winter): 40-41.
- 

**Nicholson, Doc**

- 1997 15.121 [Letter pertaining to drug testing of river guides.] *Boatman's Quarterly Review*, 10(1): 10. [Issue "Winter 1996-1997" mailed February 1997.]
- 

**Nicolai, Daniel**

- 2012 15.776 A warning about rutting season. *Pinyon Press* (Xanterra South Rim, L.L.C., Grand Canyon), 2012(20) (October 3): 9.
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Nida Corporation, Technical Staff**

- 2005 15.599 *Radar basics (PC130-231) : lab/text manual.* Melbourne, Florida: Nida Corporation, updated, SEPARATELY PAGINATED SECTIONS [51 pp. total]. (NIDA Series 130.) [See page 1-3; passing reference to "1959 [*sic*] mid-air collision over the Grand Canyon by two airliners".]

**Noe, Rebecca S.; Choudhary, Ekta; Cheng-Dobson, Jennifer; Wolkin, Amy F.; AND Newman, Sara B.**

- 2013 15.1225 Exertional heat-related illnesses at the Grand Canyon National Park, 2004-2009. *Wilderness and Environmental Medicine*, 24: 422-428.

**Nothnagel, Jim**

- 2000 15.208 2000 river season illness report. *Boatman's Quarterly Review*, 13(4) (Winter): 4. [Issue distributed late January 2001.]
- 2001 15.220 Illness protocols. *Boatman's Quarterly Review*, 14(1) (Spring): 13.
- 2002 15.252 The 2002 river season. *Boatman's Quarterly Review*, 15(2) (Summer):
- 2002 15.263 Dear Eddy. *Boatman's Quarterly Review*, 15(3) (Fall): 5. [Gastrointestinal virus.]

**Novruzova, L. R.**

- 2023 15.1311 Keçmişdən günümüə aviasiya qəzalarının səbəblərindəki dəyişikliklər. Changes in the causes of aviation accidents between the past and the present. *In*: Quliyev, H. İ. [Guliyev, H. I.] (ed.), "Fevral məruzələri 2023: Aviakosmik məsələlərin həllində gənclərin yaradıcı potensialı" : VIII Beynəlxalq elmi-praktiki gənclər konfransının : Materialları : Bakı, Milli Aviasiya Akademiyası, 1-3 fevral 2023-cü il. : "Azərbaycan Hava Yolları" QSC-nin Poliqrafiya Mərkəzi / Proceedings of VIII International Scientific and Practical Youth Conference : "February Readings 2023 Creative Potential of the Youth in Solving of Aerospace Problems" : Bakı, Azerbaijan, 1-3 February 2023 : Polygraphy Center of "Azerbaijan Airlines" CJSC. [No imprint], pp. 286-288. (Volume title-page with bilingual captions: Azərbaycan Respublikası Elm və Təhsil Nazirliyi, "Azərbaycan Hava Yolları" QSC-nin Milli Aviasiya Akademiyası, Azərbaycan Respublikası Rəqəmsal İnkişaf və Nəqliyyat Nazirliyi, Azərbaycan Respublikasının Kosmik Agentliyi (Azarkosmos), Azərbaycan Mühəndislik Akademiyası / Ministry of Science [*sic*] and Education Republic of Azerbaijan, National Aviation Academy "Azerbaijan Airlines" CJSC, Ministry of Digital Development and Transport of the Republic of Azerbaijan, Azerbaijan Space Agency (Azerecosmos), Azerbaijan Engineering Academy.) [See p. 287 in section, "Təyyarə qəzalarına nümunələr" [Examples of plane crashes] (somewhat poorly composed): "Təyyarələrin qəzaya uğraması müxtəlif səbəblərdən baş verir. Bu səbəblər bəzən insan, bəzən də texniki nasazlıq nəticəsində yarana bilər. İnsan səhvlərindən yaranan təyyarə qəzaları özlüyündə olduqca müxtəlifdir. Məsələn, bəzən mədəni fərqliliklər, bəzən də dil problemləri qəzalara səbəb ola bilər. Texniki nasazlıqların səbəb olduğu qəzalar tamamilə fərqli səbəblərə əsaslanır. 1956-cı ildə bir DC-7 təyyarəsi və bir L1049 təyyarəsi Amerikada Böyük Kanyon üzərində təxminən 20.000 fut yüksəklikdə bir ərazidə toqquşmuşdu və bu qəza 128 sərnişinin ölümünə səbəb olmuşdu." [Airplane crashes happen for a variety of reasons. These reasons can sometimes be caused by

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

human and sometimes by technical failure. Aircraft accidents caused by human error are quite diverse in themselves. For example, sometimes cultural differences and sometimes language problems can cause accidents. Accidents caused by technical malfunctions are based on completely different reasons. In 1956, a DC-7 and an L1049 collided at about 20,000 feet above the Grand Canyon in America, killing 128 passengers.]. [In Azerbaijani with bilingual titles.]



**Odem, Willie**

2003 15.315 The virus formerly known as Norwalk; preparing your drinking water. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(3) (Fall): 42-44.

**Okun, Daniel A.**

1996 15.1342 A history of nonpotable urban water reuse. *In: 1996 Water Reuse Conference Proceedings, February 25-28, San Diego, CA.* Denver: American Water Works Association, pp. 41-54. [Includes the first dual-distribution system in the U.S., at Grand Canyon.]

1997 15.912 Distributing reclaimed water through dual systems; dual distribution systems for nonpotable water reuse can help preserve high-quality water supplies and reduce treatment costs. *American Water Works Association, Journal*, 89(11) (November): 52-64. [Grand Canyon village, see pp. 54-55; the first dual-distribution system in the U.S., 1920s.] [Erratum: Page 59, column 2, last paragraph, for sentence beginning "The LACSD", read "The LACSD, which wholesales reclaimed water throughout the county other than to Los Angeles itself . . . ."]

**Oldham, Jennifer**

2006 15.408 Historic disaster led to air traffic control system; in 1956, radarless airliners collided above Grand Canyon, killing 128 aboard. *Disasters Update* ([India] National Institute of Disaster Management), (347) (June 5): 3-5. [From *Los Angeles Times*, June 3, 2006.]

**Oliver, Bill**

2015 15.870 "Dirty Ass" revisited: Preparation H Totables to the rescue. *The Sierra Echo* (Sierra Club, Sierra Peaks Section), 59(3) (July/September): 18-19. [Includes "Update by Bill, May 31, 2015", with photo (p. 19).] [A reprint of an article from the July/August 1997 issue of *The Sierra Echo*, which pertained to a six-day trip through The Maze in Canyonlands National Park, Utah, and the hygienic use of Rantax. The update relates to a Grand Canyon trip, which, although not indicated there, is identified here from the photo, taken on Cheops Pyramid, which also appeared in a trip report by Oliver in *The Desert Sage* (July/August 2015, ITEM NO. 2.23683). Rantax is noted as no longer available, substituted by Preparation H® Tōtables™ "Irritation Relief Wipes".]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

---

**O’Neil, Devon**

- 2018 15.1343 CF-historien: flight risk. Emergency helicopter crews race crash victims to the E.R. and pluck adventurers from remote mountaintops. But the most dangerous part of the job may be the choppers themselves. *Cockpit Forum* (Norsk Flygerforbunds medlemsmagasin, Norway), (December): 21-. [Regarding medevac helicopter pilot Patrick Mahany and flight nurses Dave Repsher and Matt Bowe, involved in a low-altitude crash soon after taking off from in San Francisco. Notes Repsher’s rowing the Colorado River in Grand Canyon, with a 2007 photo. See also extended remarks concerning the 2018 crash of a Papillon Airways sightseeing helicopter in Grand Canyon, which (like the other helicopters mentioned) did not have crash-resistant fuel systems, which allowed them to explode and burn on impact.] [This item in English; the remainder of the serial is in Norwegian.]

---

**Ongerth, Henry J.**

- 1990 15.486 L’eau, l’environnement et la santé, 1914-1986. *Les Cahiers du MURS* (Mouvement Universel Responsabilité Scientifique, Cahiers [France]), nos. 19-20 (trimesters 1/2): 21-35. [Grand Canyon recycled sanitation water, 1926, mentioned *in passing*, p. 33.] [In French.]

---

**Ophel, I. L.**

- 1955 15.765 Fallout and the strontium-90 hazard. *Science*, (March 1): 399. [Includes Lake Mead.] [Comment on article by Howard L. Andrews (September 9, 1955, [ITEM NO. 15.764](#)).]

---

**Organisation de Coopération et de Développement Économiques**

- 2002 15.711 *La demande de trafic routier : relever le défi*. Paris: Organisation de Coopération et de Développement Économiques. [In French.] [For English ed. see [ITEM NO. 15.712](#) (Organisation for Economic Co-operation and Development).]

---

**Organisation for Economic Co-operation and Development**

- 2002 15.712 *Road travel demand : meeting the challenge*. Paris: Organisation for Economic Co-operation and Development, 194 pp. [See in Chapter 4, “Traveller Information Services”, under “Examples”: “I-40 Traveller and Tourist Information System—Northern Arizona, United States” (p. 74). Highway electronic signage for special messages. Mentions Grand Canyon National Park, *in passing*.] [For French ed. see [ITEM NO. 15.711](#) (Organisation de Coopération et de Développement Économiques).]

---

**Organisation for Economic Co-operation and Development, Nuclear Energy Agency; AND International Atomic Energy Agency**

- 2002 15.675 *Environmental remediation of uranium production facilities : a joint report by the OECD Nuclear Energy Agency and the International Atomic Energy Agency*. Paris: Organisation for Economic Co-operation and Development, 323 pp. (OECD Publication

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

2.) [See “Arizona”, p. 292, which includes note of uranium mining “in underground breccia pipe mines north of and within the Grand Canyon National Park.”]

**Orosz Coghlan, P. A.; Gaither, M.; AND Gerba, C. P.**

1998 15.310 Impact of recreational activities on the occurrence of enteric viruses and protozoan parasites in a national park. *American Society for Microbiology, 98th General Meeting, Georgia, USA, May 17-21, 1998 : abstracts of the General Meeting of the American Society for Microbiology*, p. 462.

**Owens, Jesse L.**

2008 15.1218 A novel rugged all-terrain wheelchair: Opening the door to outdoor recreation and off-road travel for people with mobility impairments. *In: Thajchayapong, Pairash, and Koh, Zen (general chairs), iCREATE '08: proceedings of the 2nd International Convention on Rehabilitation Engineering and Assistive Technology*. Singapore: Singapore Therapeutic, Assistive and Rehabilitative Technologies (START) Centre, pp. 43-46. (Conference in Bangkok, Thailand, May 13-15, 2008.) [Regarding the *Kilikart*™ wheelchair system. See p. 44, note that the *Kilikart* “has now been successfully tested on Alaskan mountains . . . , boulder-strewn beaches, jungle trails, volcanic craters, the hill country in northern Thailand, and even the wall of the Grand Canyon.” (ENTIRE NOTE)] [NOTE: The reference to Grand Canyon relates to Brian Beveridge, who in Fall 2004 was the first to travel down and up Grand Canyon trails in the wheelchair. See a narrated slideshow online, “The Grand Canyon”, by Jason Showalter, <https://www.youtube.com/watch?v=baGJVtiAhwo> (9:44; accessed August 26, 2021).]

P

**Pandolf, Kent B., AND Burr, Robert E.**

2001 15.626 (SPECIALTY EDS.) *Medical aspects of harsh environments. Volume 1*. Falls Church, Virginia: U.S. Army, Office of the Surgeon General; Washington, D.C.: Walter Reed Army Medical Center, Borden Institute; Fort Sam Houston, Texas: U.S. Army Medical Department Center and School; and Bethesda, Maryland: Uniformed Services University of the Health Sciences. (Textbooks of Military Medicine, Dave E. Lounsbury, ed.-in-chief and director.) [See p. 186, notes on early physiological studies by David Bruce Dill on workers building Hoover Dam.]

**Parnell, John**

2012 15.640 Survival communications in Arizona; Colorado Plateau region. [No place]: Tutor Turtle Press, SEPARATELY PAGINATED SECTIONS [362 pp. total].

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Pattison, M. E.; Logan, J. L.; Lee, S. M.; AND Ogden, D. A.**

1988 15.122 Exertional heat stroke and acute renal failure in a young woman. *American Journal of Kidney Disease*, 11(2): 184-187.

---

**Patzer, R. G.; Fontana, C. A.; Grossman, R. F.; Black, S. C.; Dye, R. E.; Smith, D. D.; Thomé, D.J.; Mullen, A. A.; AND Nuclear Radiation Assessment Division**

1987 15.766 (COMPILERS) *Off-site environmental monitoring report : radiation monitoring around United States nuclear test areas, calendar year 1986*. Las Vegas: U.S. Environmental Protection Agency, Office of Research and Development, Environmental Monitoring Systems Laboratory, for U.S. Department of Energy, SEPARATELY PAGINATED SECTIONS [186 pp. total]. (Interagency Agreement No. DE-AI08-76DP00539.) (EPA-600/4-87/017. DOE/DP/00539-058.) [Includes notes of Lake Mead and northwestern Arizona, pp. 8, 26, A-6, E-22.]

---

**Paul, W. S.; Maupin, G.; Scott-Wright, A. O.; Craven, R. B.; AND Dennis, D. T.**

2002 15.256 Outbreak of tick-borne relapsing fever at the North Rim of the Grand Canyon: evidence for effectiveness of preventive measures. *American Journal of Tropical Medicine and Hygiene*, 66(1): 71-75.

---

**PBS&J, Inc.**

2004 15.388 (WITH LTM Engineering, Inc., and Entellus, Inc.) *Mohave County Multi-Jurisdictional Hazard Mitigation Plan : draft September 2004*. [No place]: PBS&J, Inc., SEPARATELY PAGINATED SECTIONS [191 pp. total]. ("Authorized by Mohave County Emergency Management Department under Contract Number 28025.01".) [NOTE: Cover illustration shows a photograph of Grand Canyon in Coconino County.]

---

**Pearce, Emily A.; Farney, Aaron N.; Banks, Laura; AND Harrell, Andrew J.**

2018 15.943 Multi-patient rabies exposure on a Colorado River rafting expedition: Urgent vs. emergent transport decision making in an austere setting. *Prehospital Emergency Care*, 22(2): 276-279.

**Pearce, Emily A.; Jelinková, Lucie; Fullerton, Lynne; Malcolm, Christian J.; Heinrich, Hannah L.; Norweill, Evan J.; Plate, Adam; Hall, Meryn; Bossart, Christopher S.; Schaller, Eric; Harrell, Andrew J.; AND Femling, Jon K.**

2019 15.1030 Observational study of Grand Canyon rim-to-rim day hikers: Determining behavior patterns to aid in preventive search and rescue efforts. *Wilderness and Environmental Medicine*, 30(1) (March): 4-11. [See also erratum, 30(3) (September): 339; corrects Table 3.]

**Pearce, Emily A.; Myers, Thomas M.; AND Hoffman, Martin D.**

2015 15.825 Three cases of severe hyponatremia during a river run in Grand Canyon National Park. *Wilderness and Environmental Medicine*, 26(2) (June): 189-195.

---



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Peate, Wayne F., AND Mullins, Jennie**

- 2008 15.692 Disaster preparedness training for tribal leaders. *Journal of Occupational Medicine and Toxicology*, 3(2), doi:10.1186/1745-6673-3-2, 5 pp. [The “initial target audience” included, among others, Cocopah Tribe, Ft. Mohave Indian Tribe, Hualapai Tribe, Kaibab-Paiute Tribe, Navajo Nation.]
- 

**Peglar, Tori**

- 2020 15.1097 Search and rescue; two of Grand Canyon’s search-and-rescuers share their stores and experience. *Grand Canyon National Park Journal* (Active Interest Media/National Park Trips, Boulder, Colorado), 2020: 41-42. [Brandon Torres and Meghan Smith.]
- 

**Perry, Bev**

- 1987 15.1316 “Yes, Virginia, there is a rim”: Visitor protection in the inner canyon. *In*: Grand Canyon—Managing over the edge [FEATURE]. *Courier* (U.S. National Park Service, Washington, D.C.), 32(10) (October): 10.
- 

**Perry, Earl**

- 1999 15.123 [Comments.] *In*: Shigellosis, Giardia, and dehydration [FEATURE]. *The Waiting List* (Grand Canyon Private Boaters Association), 3(1) (February): 25. [“compiled from [gcboaters@songbird.com](mailto:gcboaters@songbird.com)”]
- 

**Peterson, Arthur C.**

- 1956 15.1207 Statement of Arthur C. Peterson, Chief, Domestic Aviation Section, Forecasts and Synoptic Reports Division, United States Weather Bureau, Washington, D. C. *In*: *Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956*. Washington, D.C.: U.S. Government Printing Office, pp. 135-144. [Relating to the 1956 Grand Canyon air crash.]
- 

**Pettit, James; Lusher, Jay; Reinarz, Joe; Ebersole, Michael J.; Mertz, David; AND Oltrogge, Dan**

- 2009 15.787 *Helitack module interaction plan*. [No place]: U.S. National Park Service, Grand Canyon National Park; and U.S. Forest Service, Kaibab National Forest, 4 pp.
- 

**The Pew Charitable Trusts**

- 2017 15.954 *Grand Canyon National Park, Arizona : the 16-mile pipeline that supplies drinking water for millions of Grand Canyon visitors each year needs \$150 million worth of repairs*. [No place]: The Pew Charitable Trusts, [4] pp. [Fact sheet.]
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Phair, Scott**

- 2005 15.355 Why groovers are important to me. *In*: Stephenson, R. J. (ed.), Grand groover chronicles; how's it going? [FEATURE]. *The Waiting List*, 7(2) (Winter): 50.
- 

**Phelps, Mark**

- 1986 15.637 On the record. *Flying*, 113(9) (September): 102-103. [See p. 103, note of collision of de Havilland Twin Otter and Bell 206 JetRanger in Grand Canyon, killing 25.]
- 

**Phillips, Annie**

- 2009 15.455 A sweet journey. *In*: Back of the Boat—The Whale Foundation News Bulletin. *Boatman's Quarterly Review*, 22(1) (Spring): [unpaginated insert], [3-4]. [Diabetes-related concerns on river trips.]
- 

**Phillips, Ken**

- 2001 15.619 Foreword. *In*: Ghiglieri, Michael P., and Myers, Thomas M., *Over the edge: Death in Grand Canyon : gripping accounts of all known fatal mishaps in the most famous of the World's Seven Natural Wonders*. Flagstaff, Arizona: Puma Press, pp. xi-xii.
- 2007 15.396 Responding to critical situations—an incomplete guide to river emergencies. *Boatman's Quarterly Review*, 20(3) (Fall): separate insert, 4 pp.
- 2011 15.584 Grand Canyon hiking safety; how not to become a rescue headline. *Canyon Views* (Grand Canyon Association), 18(2) (Summer): 8.
- 2012 15.620 Foreword. *In*: Ghiglieri, Michael P., and Myers, Thomas M., *Over the edge: Death in Grand Canyon : gripping accounts of all known fatal mishaps in the most famous of the World's Seven Natural Wonders*. Flagstaff, Arizona: Puma Press, expanded and revised 2nd ed., pp. xi-xii.
- 2012 15.1142 *Swiftwater rescue manual*. [No place]: U.S. National Park Service, 86 pp. [Stated 1st ed., September 2012.] [Photos from Colorado River in Grand Canyon, pp. 44, 48, 49, 66, 69. See also "Appendix C—Sample Swiftwater Rescue Preplan. Grand Canyon National Park SAR Plan. River Rescue Incident Pre-Plan, Extreme High or Low Flow Event" (pp. 81-85).] [SAR: Search and Rescue.]
- 

**Phillips, Rich**

- 2003 15.298 Duuuuuh! *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(2) (Winter 2002-2003): 19.
- 

**Phillips, Robert A., AND Lynch, Cynthia Sartor**

- 1977 15.124 *Human waste disposal on beaches of the Colorado River in Grand Canyon*. University of Arizona, Engineering Experiment Station: *Colorado River Research Program, Technical Report 11* (Grand Canyon National Park, Colorado River Research Series, Contribution 39), 79 pp. (National Technical Information Service PB 267733/AS. )

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 4-24|

---

**Picard, Blu**

1993 15.125 Report from Lees Ferry. *The News* (Grand Canyon River Guides), 6(3) (Late Summer): 13. [Includes report on "SCAT machine" at Meadview.]

---

**Pitagora, Robby**

2004 15.329 Back of the Boat—The Whale Foundation News Bulletin. *Boatman's Quarterly Review*, 17(2) (Summer): 34-35.

---

**Pittman, Darrel**

2013 15.1318 Reminiscing FAA history. *North Dakota Aviation Quarterly* (North Dakota Aviation Council, Bismarck, North Dakota), 25(4) (Fall): 9. [Includes brief notice of the accident and aftermath of the 1956 aircraft collision in Grand Canyon, and brief note of the author's station at Hill Air Force Base, Utah, while in the U.S. Air Force, and training with the Federal Aviation Administration at the Farmington (Utah) Sector of the Salt Lake City Center, requested because that sector encompasses the Grand Canyon.]

---

**Pleus, R. C., AND Bruce, G. M.**

2004 15.343 Adverse effect levels for neurodevelopmental effects associated with maternal perchlorate exposure: What do existing data indicate? [ABSTRACT]. *Neurotoxicology*, 25(4): 682.

---

**Poirier, Bob**

1998 15.126 Danger on the San Juan. *The Waiting List* (Grand Canyon Private Boaters Association), 2(3) (August): 19. [Includes comments on Colorado River in Grand Canyon.]

---

**Ponton, Jean; Maag, Carl; Wilkinson, Martha; AND Rohrer, Steve**

1981 15.1078 *Shots ESS through MET and Shot ZUCCHINI : the final TEAPOT tests : 23 March 1955-15 May 1955*. McLean, Virginia: JRB Associates, for U.S. Defense Nuclear Agency, Washington, D.C., 258 pp. [Cover sheet indicates, "United States Atmospheric Nuclear Weapons Tests, Nuclear Test Personnel Review" and "Prepared by the Defense Nuclear Agency as Executive Agency for the Department of Defense".] [Regarding the effects of atmospheric nuclear explosive tests in Nevada. See Chapter 8, "Shot ZUCCHINI", note of cloud tracking by a B-25 aircraft "to a point southeast of Lake Mead" (p. 217) (ENTIRE NOTE)]

---

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Pope, Evans, AND Robbins, Inc.**

- 1972 15.431 *Solid waste study, Grand Canyon National Park : water supply and sanitary waste study, Havasu Canyon Campground.* San Francisco: Pope, Evans and Robbins, Inc., for U.S. National Park Service, Denver Service Center, SEPARATELY PAGINATED SECTIONS.
- 

**Porter, Brenda**

- 2011 15.789 Blisters in the sun; learning from the English Patients. *Trail and Timberline* (Colorado Mountain Club, Denver), (1011) (Summer): 14-15. [Regarding blisters suffered by the "English Patients", hiker companions on Bright Angel Trail.]
- 

**Porter, Sue**

- 2006 15.381 Virus vs. river trip; germ paranoia or common sense? *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 7(3) (Spring/Summer): 9.
- 

**Pratley, Dirk**

- 1992 15.127 On drinking too much . . . water: Dehydration, water toxicity and hyponatremia. *The News* (Grand Canyon River Guides), 5(4) (Fall): 20-21. [Ellipsis is part of title.]
- 

**Preston, Edmund**

- 1998 15.913 (ED.; WITH CONTRIBUTORS John R. Breihan, Arnold E. Briddon) *FAA historical chronology : civil aviation and the federal government, 1926-1996.* Washington, D.C.: U.S. Department of Transportation, Federal Aviation Administration, Office of Public Affairs, 2nd ed., 361 pp. [See p. 54, "Jun 30, 1956: A Trans World Airlines Super Constellation and a United Air Lines DC-7 collided over the Grand Canyon".]
- 

**Price, Tom**

- 2002 15.255 Self help; a new, portable search-and-rescue beacon may save dozens of lives—and cause dozens of headaches. *Outside*, 27(8): 18.
- 

**Proctor, Jon**

- 1989 15.128 TWA's Connies. *Airliners*, (Summer): 28-34. [Includes 1956 air crash.]
- 1991 15.129 Lest we forget. *Propliner*, (48): 41-42. [1956 air crash.]
- 

**Proffitt, Sabrina**

- 2021 15.1243 Flagstaff natural skincare brand opens doors to new opportunity. *FlagLive.com* (Flagstaff, Arizona), 27(4) (November): 16-17. [DeAnn Tracy developed Peak Scents natural skincare products. Includes remarks about her issues with skin care while a river guide in Grand Canyon.]
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Puffer-Rothenberg, Maureen J.**

- 2005 15.451 Grand Canyon airliner collision. *In*: Super, John C. (ed.), *The fifties in America*. Pasadena, California: Salem Press, Vol. 2, pp. 393-394.
- 

**Pyle, James T.; Thomas, David; Tippetts, Joseph; AND Davis, William**

- 1956 15.1208 Statements of James T. Pyle, Acting Administrator, Civil Aeronautics Administration; David Thomas, Director of Air Traffic Control Division; Joseph Tippetts, Director of the Office of Air Navigation Facilities; and William Davis, Director of the Office of Flight Operations and Airworthiness. *In*: *Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956*. Washington, D.C.: U.S. Government Printing Office, pp. 199-237. [Relating to the 1956 Grand Canyon air crash.]

**Pyle, James T.; White, Gerald F.; Tippetts, Joseph H.; Davis, William; Thomas, David D.; Meisel, Jay; AND Howell, Herbert H.**

- 1956 15.1209 Statements of James T. Pyle, Acting Administrator; Gerald F. White, Chief, Enforcement and Litigation, General Counsel's Office; Joseph H. Tippetts, Director, Office of Air Navigation Facilities; William Davis, Director, Office of Flight Operations and Airworthiness; David D. Thomas, Director, Office of Air Traffic Control; Jay Meisel, Personnel Officer, and Herbert H. Howell, Director of Airports, Civil Aeronautics Administration—resumed. *In*: *Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956*. Washington, D.C.: U.S. Government Printing Office, pp. 238-257. [Relating to the 1956 Grand Canyon air crash.]
- 

Q

**Quartaroli, Richard D.**

- 2006 15.380 June 30, 1956 Grand Canyon mid-air collision—50th anniversary. *Boatman's Quarterly Review*, 19(2) (Summer): 47.
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

## R

### Ramirez, René

- 2013 15.819 UCSF Fresno’s Parkmedic program; the Parkmedic/EMS Program is another one of UCSF Fresno Medical Education Program’s shining stars. *Physicians’ Edition* (Community Medical Centers, Clovis and Fresno, California), 14(8) (September): 6. [National training center for Parkmedics from national parks across the nation. Notes, *in passing*, that Emergency Medicine resident physicians “take live radio calls not only from Sequoia & Kings Canyon National Parks, but also from the Grand Canyon.”]

### Ramos, Joseph P.; Carrison, Dale; AND Phillips, David L.

- 1998 15.1016 Unusual vaginal laceration due to a high-pressure water jet. *In: Alerts, Notices, and Case Reports* [SECTION]. *Western Journal of Medicine*, 169: 171-172. [Jet-Ski accident at Lake Mead.]

### Rampton, Thomas

- 2005 15.361 Rattlesnakes and groovers II. *In: Stephenson, R. J. (ed.), Grand groover chronicles; how’s it going?* [FEATURE]. *The Waiting List*, 7(2) (Winter): 52. [For Part I see Rhodes (2005, [ITEM NO. 15.360](#)).]

### Ranney, Wayne

- 2022 15.1248 An aptly named camp. *Boatman’s Quarterly Review*, 35(3) (Fall): 24-25. [Regarding a river trip passenger bitten by a rattlesnake, at the “aptly named” Rattlesnake Camp at river mile 74.6.]

### Rawn, A. M., AND Bowerman, F. R.

- 1956 15.809 Sewage—a raw water supply. *Water and Sewage Works*, 103: 463-467. [Includes Grand Canyon as historical example.]

### Regan, Shawn

- 2010 15.815 Yuppie 911. *Regulation*, 33 (Spring): 5-7. [Begins with a recounting of three false emergency-beacon transmissions by a Grand Canyon hiking party in September 2009.]

### Reiff, Sandy Nevills

- 2002 15.247 Transitions and depression. *Boatman’s Quarterly Review*, 15(1) (Spring): 8-9.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

- |      |        |  |
|------|--------|--|
| 2002 | 15.263 | From the back of the boat—the reentry blues. <i>Boatman’s Quarterly Review</i> , 15(3) (Fall): 13.                                     |
| 2004 | 15.336 | The Whale Foundation presents—acute stress disorder on the river. <i>Boatman’s Quarterly Review</i> , 17(4) (Winter 2004-2005): 40-41. |
- 

**Reilly, P. T. [Reilly, Plez Talmadge]**

- |      |        |   |
|------|--------|---|
| 1969 | 15.585 | How deadly is Big Red? <i>Utah Historical Quarterly</i> , 37: 244-260.<br><span style="color: #A52A2A;">≡</span> <span style="color: #A52A2A;">CROSS-LISTINGS</span>   <span style="color: #A52A2A;">CITED»</span> GCNHA Monograph 2: page 25    <span style="color: #A52A2A;">CITED»</span> GCNHA Monograph 8: page 1-40 |
|------|--------|---|
- 

**Reimondo, Amber**

- |      |         |   |
|------|---------|---|
| 2024 | 15.1335 | Pinyon Plain Mine: A long-term threat. <i>Colorado Plateau Advocate</i> , (Fall/Winter): 32-35. [Formerly Canyon Mine.] |
|------|---------|---|
- 

**Renner, Mia**

- |      |         |   |
|------|---------|---|
| 2018 | 15.1089 | Gefährliche Selfies im Canyon. <i>Kieler Nachrichten</i> (Schleswig-Holstein, Germany), (292) (50. Woche) (December 15): 12. [Author, 14, writes about safety in taking “selfie” pictures at Grand Canyon.] |
|------|---------|---|
- 

**Rhodes, Douglas**

- |      |        |   |
|------|--------|---|
| 2005 | 15.360 | Rattlesnakes and groovers. <i>In</i> : Stephenson, R. J. (ed.), Grand groover chronicles; how’s it going? [FEATURE]. <i>The Waiting List</i> , 7(2) (Winter): 52. [For Part II see Rampton (2005, <span style="color: #A52A2A;">ITEM NO.</span> 15.361).] |
|------|--------|---|
- 

**Rickard, Laura N.; McComas, Katherine A.; Clarke, Christopher E.; Stedman, Richard C.; AND Decker, Daniel J.**

- |      |        |   |
|------|--------|---|
| 2013 | 15.661 | Exploring risk attenuation and crisis communication after a plague death in Grand Canyon. <i>Journal of Risk Research</i> , 16(2): 145-167. |
|------|--------|---|
- 

**Ridenour, James M.**

- |      |        |   |
|------|--------|---|
| 1992 | 15.884 | Maintenance workers—providing the lifeblood. <i>In</i> : The Director’s Report [COLUMN]. <i>Courier</i> (U.S. National Park Service), 37(4) (April): 1. [Includes: “At Grand Canyon, husband and wife Delores and Pat Casaus make park visitors feel welcome by seeing to it that the restrooms are clean and in good condition. Bobby Martinez, the Canyon’s heating mechanic, is on call 24 hours a day, keeping aging boilers working through cold Grand Canyon winters.” (ENTIRE NOTE)] |
|------|--------|---|
- 

**Riesenberg, Mindy**

- |      |         |   |
|------|---------|---|
| 2020 | 15.1133 | Humans and elk; learning to live with each other. <i>Canyon Views</i> (Grand Canyon Conservancy), 27(1) (Spring/Summer): 14-15. |
|------|---------|---|

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

---

**Rink, Glenn**

- 2016 15.963 In reference to the article, “Superintendent Dave Uberuaga Announces Retirement”, in BQR volume 29 number 2, Summer 2016. *In: Dear Eddy* [SECTION]. *Boatman’s Quarterly Review*, 29(3) (Fall): 7. [Regarding U.S. National Park Service, Grand Canyon National Park, Public Affairs Office (2016, ITEM NO. 13.3630). Pertains to recent issues of charges of sexual harassment during National Park Service river trips on the Colorado River in Grand Canyon.]

**Rink, Glenn, AND Corbo, Nicole**

- 2008 15.418 Back up, buddy!—A call to action. *Boatman’s Quarterly Review*, 21(3) (Fall): 16-18. [Back-health issues. “This article is a compilation by Nicole Corbo and Glenn Rink, with help from Brad Dimock, Robert Miller, and Lynn Hamilton.”]
- 

**Roadway Safety Consortium**

- NO DATE 15.767 *Guidelines on improving work zone safety through public information and traveler information*. [Washington, D.C.]: Roadway Safety Consortium. [See pp. 7, 12, Arizona Department of Transportation example, illustrated by “93; Arizona’s US 93 Corridor Newsletter”.]
- 

**Robbins, Jim**

- 1992 15.587 A day in the life of the Grand Canyon. *USA Weekend*, (May 22-24):. [Manhunt for escaped prisoner in Grand Canyon.]
- 

**Roberts, Aaron**

- 2011 15.831 Would my wings hold? *In: ORM Corner* [SECTION]. *Approach* (The Navy and Marine Corps Aviation Safety Magazine) (Naval Safety Center, Norfolk, Virginia), 56(3) (May/June): 12-15. [Recounting a navigation flight from Naval Air Station Jacksonville to Nellis Air Force Base, encountering severe weather in the Grand Canyon region that damaged the aircraft.] [Operational Risk Management.]
- 

**Roberts, Clair A.**

- 2016 15.1033 Grand Canyon National Park; night rescue on the Lava Falls Route. *In: Yosemite Conservancy* (ed.), *The wonder of it all : 100 stories from the National Park Service*. Yosemite National Park, California: Yosemite Conservancy, pp. 161-163.
- 

**Rochester, Stuart I.**

- 1976 15.385 *Takeoff at mid-century: Federal civil aviation policy in the Eisenhower years, 1953-1961*. Washington, D.C.: U.S. Department of Transportation, Federal Aviation Administration, 352 pp.
-



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Rock, Tommy; Lister, Andee; AND Ingram, Jani**

- 2013 15.927 Pathway of exposure through sheep in a contaminated site [ABSTRACT]. *In: 12th Biennial Conference of Science and Management on the Colorado Plateau, September 16-19, 2013, Northern Arizona University, Flagstaff, Arizona : program and abstracts of presented papers and posters.* [Flagstaff, Arizona: Northern Arizona University], p. 108. [Uranium contamination in sheep on Navajo Indian Reservation. Includes Cameron area.]

**Rogerson, Josiah**

- 1893 15.606 Faint and thirsty. *Deseret News*, (July 15): 31 [issue pagination]. [Edgar Clark and party's travels from Parawan, Utah, to Parashant's Ranch in Arizona, including a trip to view the Grand Canyon that went badly having overestimated the distance. Describes a treacherous descent to the Colorado River by some members of the party to collect water. Also note of a vein of "mineral wax" containing gold, some 25 miles south of St. George.]

**Ross, Doug**

- 1998 15.130 Safe boating note. *The Waiting List* (Grand Canyon Private Boaters Association), 2(3) (August): 16.

**Rothschild, Louis S.**

- 1956 15.1212 Statement of Hon. Louis S. Rothschild, Under Secretary of Commerce, and Chairman, Air Coordinating Committee. *In: Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956.* Washington, D.C.: U.S. Government Printing Office, pp. 277-292. [Relating to the 1956 Grand Canyon air crash.]

**Royal Aero Club**

- 1981 15.1096 Accidents. *In: Private Flight* [ROYAL AERO CLUB SECTION]. *Flight International*, (January 24): 216. [Brief item regarding the fatal crash of a Beechcraft Bonanza "in a smaller canyon about 20 miles from the Grand Canyon", killing "[a] British father, his three sons, and both pilots". They had been on a flight over the Grand Canyon.]

**Russell, Andy**

- 1998 15.550 *A Steeler odyssey.* Champaign, Illinois: Sports Publishing, 272 pp. [See Chapter 3, "Ray Mansfield", pp. 63-76; Chapter 11, "Playing Hurt", pp. 153-167; and in illustrations following p. 114. Selections regarding hiking in Grand Canyon and the 1996 death there of Pittsburgh Steeler football player Ray Mansfield.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Russell, Findlay E.**

- 1969 15.1000 Clinical aspects of snake venom poisoning in North America. *Toxicon*, 7(1) (June): 33-37. [Includes *Crotalus viridis abyssus*, Grand Canyon rattlesnake.]
- 

S

**S., H.**

- 1956 15.1334 Radar denkt, warnt und lenkt. Mit Radar wurde ein Krieg fewonnen. Können mit Radar Katastrophen verhütet werden? *Bauen, Wohnen, Leben* (Zürich), (Autumn): 15. [Includes brief note on the 1956 air crash over Grand Canyon. "Fachleute erklären, Radar hätte das Unglück verhindern können." (transl. 'Experts say radar could have prevented the accident.')] [In German.]
- 

**Sadler, Christa**

- 2011 15.580 Back into the current. *Boatman's Quarterly Review*, 24(2) (Summer): Whale Foundation insert, 2 pp. [Whale Foundation; mental health issues in the boating community.]
- 

**Sage, Kylie M.; Johnson, Tammi L.; Teglas, Michael B.; Nieto, Nathan C.; AND Schwan, Tom G.**

- 2017 15.977 Ecological niche modeling and distribution of *Ornithodoros hermsi* associated with tick-borne relapsing fever in western North America. *PLoS Neglected Tropical Diseases*, 11(10): e000647, 18 pp. + Supporting Information (Table S1, 5 pp.), doi:10.1371/journal.pntd.0006047. [Zoonosis caused by the spirochete bacterium, *Borrelia hermsii*, transmitted by the bite of infected *Ornithodoros hermsi* ticks. Data include North Rim, Grand Canyon.]
- 

**St. John, Dalles**

- 2000 15.1083 *Wreckage examination of a Model 206L-3 helicopter that crashed on April 18, 2000 at the Grand Canyon National Park Airport, Tusayan, Arizona.* [No place]: Bell Helicopter, and Textron, SEPARATELY PAGINATED SECTIONS [63 pp. total]. (Report No. 20000418-206L3-5102-AZ-ST.) ["Technical Data" sheet indicates 107 pp.]
- 

**Sanchez, Lucio; Yazzie, Crystal; Lister, Andee; Bitsui, Marsha; AND Ingram, Jani**

- 2013 15.928 Quantification of uranium in sheep meat and soft tissue [ABSTRACT]. *In: 12th Biennial Conference of Science and Management on the Colorado Plateau, September 16-19, 2013, Northern Arizona University, Flagstaff, Arizona : program and abstracts of presented papers and posters.* [Flagstaff, Arizona: Northern Arizona University], p. 109. [Uranium contamination in sheep on Navajo Indian Reservation. Includes Cameron area.]
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Sánchez García, María Alejandra**

- 2016 15.1341 *Estudio y análisis de factibilidad para reutilización del agua en enjugador de botellas en una línea de producción en empresa envasadora de bebidas.* Thesis, Universidad do San Carlos de Guatemala, 123 pp. [Under "Antecedentes", see p. 2: "El empleo en áreas urbanas de redes duales (aguas regeneradas/agua potable) de distribución es una práctica cada vez más extendida. El primer sistema de este tipo de instaló en 1926, en Grand Canyon Village (Arizona), donde la escasa agua potable disponible debía bombearse desde un manantial situado en el fondo del Gran Cañón, salvando un desnivel de 1 000 m. El agua regenerada así distribuida, se emplea en la mayoría de los usos urbanos no potables, incluyendo riego de parques, extinción de incendios y uso en cisternas de servicios sanitarios." (No credit given.)] [This is identical, except for the insertion of the diacritical mark on the "o" in Cañón, and the sentence stop after "1 000 m", with the same paragraph in Lemus Mayora (2013, *ITEM NO.* 15.1340). Other identical passages are likewise noted (*here*). The theses are on similar topics, from the same institution.] [Dual water system.] [In Spanish.]
- 

**Saucier, John R.**

- 2004 15.768 Arachnid envenomation. *Emergency Medicine Clinics of North America*, 22: 405-422. [See pp. 407, 409, regarding *Centruroides exilicauda*; notes range "limited to southern Arizona, the bottom of the Grand Canyon, and the area surrounding Las Vegas and western New Mexico". No further locality-specific information.]
- 

**Sayen, Clarence N.**

- 1956 15.1199 Statement of C. N. Sayen, President of the Air Line Pilots Association, Chicago, Ill. *In: Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956.* Washington, D.C.: U.S. Government Printing Office, pp. 52, 93-104. [Relating to the 1956 Grand Canyon air crash.]
- 

**Schlebach, Michael**

- 2011 15.807 Grand Canyon: Indian Garden Campground. *Southwest Chronicle* (USA Reporter, Magazin über den Südwesten der USA, Stolberg, Germany), (October): 3. [All toilets to be replaced.] [Credited to nps.gov.] [In German.]
- 

**Schmidt, Curtis J.**

- 1975 15.810 Current municipal wastewater reuse practices. *In: Lindstedt, K. Daniel, and Bennett, Edwin R. (eds.), Research Needs for the Potable Reuse of Municipal Wastewater : proceedings of a workshop sponsored by the: U.S. Environmental Protection Agency, American Water Works Association, Water Pollution Control Federation, in cooperation with the University of Colorado, March 17-20, 1975, Boulder, Colorado.* Cincinnati, Ohio: U.S. Environmental Protection Agency, Office of Research and Development, Municipal Environmental Research Laboratory, pp. 15-28. (Volume: EPA-600/9-75-007.) [See p. 24, the section, "Domestic Reuse", which notes the domestic reuse operation at Grand Canyon National Park.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Schmidt, Curtis J., AND Clements, Ernest V., III**

- 1975 15.653 *Demonstrated technology and research needs for reuse of municipal wastewater.* Cincinnati, Ohio: U.S. Environmental Protection Agency, Office of Research and Development, National Environmental Research Center, 320 pp. [Grand Canyon, see pp. 36, 92, 98-101, 125, 138; and "Appendix A. Field Investigation Reports, Grand Canyon Village, Arizona", pp. 169-174.]

**Schmidt, Curtis J., AND Ross, D. E.**

- 1975 15.657 *Cost-effectiveness analysis of municipal wastewater reuse.* Washington, D.C.: U.S. Environmental Protection Agency, Water Planning Division, 166 pp. + appendices [233 pp. total]. (Water Quality Management Guidance , WPD-4-76-01.) [Includes Grand Canyon.]

**Schmidt, Curtis J.; Kugelman, Irwin; AND Clements, Ernest V., III**

- 1975 15.1024 Municipal wastewater reuse in the U.S. *Water Pollution Control Federation, Journal*, 47(9) (September, Annual Conference Issue): 2229-2245. [Grand Canyon, see pp. 2239-2240.]

**Schnebly-Heidinger, Lisa**

- 1999 15.131 Drowning at Mile 76. *Boatman's Quarterly Review*, 12(3) (Summer): 8-10.

**Schnur, Paul Leo**

- 2007 15.394 Medical care, chapels and challenges [ABSTRACT]. *In*: 2007 History Symposium. *The Ol' Pioneer* (Grand Canyon Historical Society), 18(1) (January/March): 11. [Perspective is the "role of the Grand Canyon Hospital and the challenges facing medical care during the years 1948 to 1955 when my father, Dr Leo Schnur, was the medical director."]
- 2008 15.547 Medical care, chapels, and challenges: Growing up at the Grand Canyon. *In*: Berger, Todd R. (ed.), *Reflections of Grand Canyon historians; ideas, arguments, and first-person accounts. Grand Canyon Association, Monograph 14*, pp. 159-163. (2nd Grand Canyon History Symposium, January 25-28, 2007, Grand Canyon National Park.)

**Schofield, R. O.**

- 1934 15.1018 Heat prostration—its treatment at Boulder Dam. *California and Western Medicine*, 41(2) (August): 83-86.
- 1935 15.1019 The medical and surgical organization at Boulder Dam. *California and Western Medicine*, 42(1) (January): 5-11.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Schweizerische Rettungsflugwacht Rega** [see also Garde aérienne suisse de sauvetage Rega]

- 2021 15.1217 *Rega 2021 mit Jahresbericht 2020*. Zürich-Flughafen: Schweizerische Rettungsflugwacht Rega. [See “Meilensteine” (pp. 24-25), which includes (p. 24), “Katastrophenhilfe in den USA. Nach einem Flugunfall bergen Pioniere der Rettungsflugwacht die sterblichen Überreste von 128 Menschen aus dem unwegsamen Grand Canyon.” (ENTIRE NOTE)] [In German.]
- 

**Sempsrott, Justin; Gordon, Howard R. D.; Hinson, Mary; AND Paulson, Autumn**

- 2013 15.1099 Analysis of unintentional drowning incidents of visitors at Lake Mead National Recreation Area, 2000-2012: Identifying priorities for preservation and planning [ABSTRACT]. *In: World Conference on Drowning Prevention : Potsdam, Germany, 20-22 October 2013 : A Century of Lifesaving—a Challenge to Drowning Prevention : conference abstracts*, p. 180.

**Sempsrott, Justin; Hodnick, Ryan; Rufin, Khaye; Berkeley, Ross; AND Slattery, David**

- 2013 15.1100 Emergency medical service activation for drowning incidents in Lake Mead National Recreation Area, 2008-2011 [ABSTRACT]. *In: World Conference on Drowning Prevention : Potsdam, Germany, 20-22 October 2013 : A Century of Lifesaving—a Challenge to Drowning Prevention : conference abstracts*, p. 198.

**Sempsrott, Justin; Paulson, Autumn; Hinds, Mary; AND Gordon, Howard**

- 2013 15.1101 Personal flotation device utilization by visitors to Lake Mead National Recreation Area during summer 2012 [ABSTRACT]. *In: World Conference on Drowning Prevention : Potsdam, Germany, 20-22 October 2013 : A Century of Lifesaving—a Challenge to Drowning Prevention : conference abstracts*, p. 280.
- 

**Serling, Robert J.**

- 1957 15.1192 Canyon crash has made air safer. *Congressional Record—House*, (July 1): 10707-10708. [Regarding the 1956 air crash in Grand Canyon. Reprinted from the June 30 *Washington Post* and the *Times-Herald* (Washington).]
- 

**Shafer, Charles, et al.**

- 1958 15.635 From testimony of Charles Shafer. *In: Fall-out from a bombing campaign. Bulletin of the Atomic Scientists*, 14(1) (January): 58-61. [Excerpts from Congressional hearings, May 27-28, 1957, regarding model results following a nuclear attack on North America. See p. 61 for passing notes on fall-out in the lower Colorado River and Grand Canyon regions.]
- 

**Shearer, Pete**

- 2022 15.1252 Tusayan Sanitary District. *In: Field trip guide—Pinion Plain Mine* [sic, Pinyon Plain Mine], *Lost Orphan Mine, Tusayan water treatment plant, Grand Canyon water reclamation facility, Coconino County, Arizona : Coconino Plateau Watershed Partnership annual field trip, September 30, 2022 : sponsored by: WestLand*

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

*Engineering and Environmental Services*. [No place]: Coconino Plateau Water Advisory Council and Watershed Partnership, pp. 24-30.

**Sheets, Alison, AND Van Tillburg, Christopher**

- 2020 15.1154 ICAR MEDCOM report, Zakopane, Poland, October 2019. *Meridian* (Mountain Rescue Association, San Diego), (Fall): 11-16. [Summaries of presentations at the meeting of the International Commission on Alpine Rescue and the Mountain Emergency Medicine Commission. See pp. 13-14, summary of the presentation, "Heat Illness and Injury" that had been given by Drew Harrell and Risa Garcia from the University of New Mexico, who "reviewed the Grand Canyon National Park's extensive experience with heat related illness."]

**Sherman, W. N.**

- 1892 15.544 The southern Rocky Mountain region as health resorts for consumptives. *The Times and Register* (A Weekly Journal of Medicine and Surgery) (Philadelphia), 25(12) (September 17): 325-328. [See p. 327, Grand Canyon as "a grandly magnificent natural sanitarium, protected by massive walls of granite, and covered by a cloudless sky." Wintering in the canyon and summering on the rim is suggested.]

**Shinsuke, Endō [遠藤信介 著]**

- 2019 15.1134 航空輸送 100 年 : 安全性向上の歩み [Kōkū yusō hyakunen anzensei kōjō no ayumi] [100 years of air transport : steps to improve safety]. Tōkyō: 日本航空技術協会 [Nihonkōkū gjjutsu kyōkai] [Japan Aviation Technology Association], 577 pp. [Includes 1956 Grand Canyon crash.] [In Japanese.]

**Shipman, Thomas L.**

- 1952 15.1011 Report of Rad-Safe Group. *In: Operation Ranger : Nevada Test Site, Jan.-Feb. 1951 : Volume 5 : program reports—operational*. Los Alamos, New Mexico: Los Alamos Scientific Laboratory of the University of California, pp. 54-97. (WT-2014.) ("Edited and Reproduced by the Technical Information Service, Atomic Energy Commission, Oak Ridge, Tennessee.") [Chapter includes atomic fallout studies of five atmospheric tests, with brief notes of Lake Mead region (pp. 59, 70, 95).]

**Shopes, Ellen M.**

- 1989 15.1260 The retrospective audit in EMS evaluation. *Ranger* (Association of National Park Rangers, Journal), 5(2) (Spring): 10-11. [Author is a seasonal employee at Grand Canyon. Item includes photo by Ken Phillips, "Extrication of victim from auto accident at Grand Canyon in 1987."]
- 1997 15.132 Drowning in the desert: exercise-induced hyponatremia at the Grand Canyon. *Journal of Emergency Nursing*, 23(6) (December): 586-590.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Simkins, Larry**

- 1987 15.1315 Water—up, down, and over the edge. *In*: Grand Canyon—Managing over the edge [FEATURE]. *Courier* (U.S. National Park Service, Washington, D.C.), 32(10) (October): 8-9. [Trans-canyon water pipeline.]
- 

**Simon, Nic**

- 2008 15.804 Comment voler VFR au-dessus du Grand Canyon. *Union des Pilotes Luxembourgeois, Bulletin d'Information*, (February): 12-14. [In French.]
- 

**Singh, V. P.**

- 2005 15.709 *Toxic metals and environmental issues*. New Delhi: Sarup and Sons, 362 pp. [See p. 290, brief note pertaining to the Havasupai Tribe's practice of "tourist" waste disposal "in a wetland". Credits "Baumgartner, 2000", but which source does not appear in Singh's bibliography.]
- 

**Skeen, Kassy; Pryputniewicz, Vanya; Brothers, Chris; Roark, Tara; AND McCloskey, Shannon**

- 2016 15.964 Wait, is there more? *Boatman's Quarterly Review*, 29(2) (Summer): 18-19. [Regarding the recent issues of charges of sexual harassment during National Park Service river trips on the Colorado River in Grand Canyon.] [See also remarks by Peg Bartlett *et al.* and Dan Hall, (3) (Fall):5-7 (ITEM NOS. 15.961, 15.962).]
- 

**Sláma, Petr**

- 2012 15.1034 Bezpečnost práce na pracovišti. *Zpravodaj Ovodě* (Povodi Moravy, Brno, Czech Republic), (1) (March): 27. [Includes a paragraph on the creation of the modern hard hat during construction of Hoover Dam.] [In Czech.]
- 

**Slawson, G. C., Jr., AND Everett, L. G.**

- 1973 15.133 Chemical and biological problems in the Grand Canyon. *Hydrology and Water Resources in Arizona and the Southwest*, 3: 63-72.  
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 2: pages 77, 93| |CITED» GCNHA Monograph 8: pages 3-83, 4-26|
- 1973 15.311 Chemical and biological problems in the Grand Canyon [ABSTRACT]. *Arizona Academy of Science, Journal*, 8(Supplement): 53.
- 

**Sleeth, George**

- 1956 15.1203 Statement of Capt. George Sleeth, Los Angeles Safety Committee. *In*: *Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956*. Washington, D.C.: U.S. Government Printing Office, pp. 116-117. [Relating to the 1956 Grand Canyon air crash.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

---

**Slinkey, Mangas, AND Ingram, Jani**

- 2008 15.784 Preparation and analysis of uranium in sheep tissue [ABSTRACT]. *In: 2008 SACNAS National Conference : Society for Advancement of Chicanos and Native Americans in Science : SACNAS National Conference Abstracts 2008*. Santa Cruz, California: Society for Advancement of Chicanos/Latinos and Native Americans in Science, p. 186. (2008 SACNAS National Conference, Salt Lake City, Utah, October 9-12, 2008.) [Regarding sheep grazing near uranium mines in the vicinity of Cameron, Arizona: see Edgewater and Ingram (2008, [ITEM NO. 15.783](#)).]

---

**Smith, Andy**

- 2002 15.983 Air tour of the Grand Canyon. *The Congressional Record* (Congressional Flying Club, Inc., and Civil Air Patrol, Montgomery Senior Squadron, Gaithersburg, Maryland), 20(1) (January): 3-4. [Focuses on safety and logistics during a winter flight to Grand Canyon in a 172 (*i.e.*, Cessna 172).]

---

**Smith, Charline Galloway**

- 1970 15.345 *Culture and diabetes among the upland Yuman Indians*. Doctoral dissertation, University of Utah, 292 pp.

---

**Smith, Chris**

- 1996 15.134 Parks want “drug-free” river guides. *High Country News*, 28(24): 4.

---

**Smith, Christopher**

- 2002 15.272 Safe water a source of mystery virus. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 17. [From *Salt Lake Tribune*, October 31, 2002, as an “Addendum” to reprinted item by Tom Myers, “A River Runs Through Me” (pp. 14-17).]

---

**Smith, Drifter**

- 1993 15.135 On sanitation. *The News* (Grand Canyon River Guides), 6(3) (Late Summer): 5.
- 1999 15.136 Clearing the waters. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 3(3) (August): 5. [Water-turbidity treatment.]
- 1999 15.174 [Response to article by Jon Hirsh.] *Boatman’s Quarterly Review*, 12(4) (Winter): 7. [Refer to Hirsch (1999, [ITEM NO. 15.79](#)).]
- 2000 15.191 [Comments.] *In: Off the internet: From gcpba@egroups.com* [FEATURE]. Helicopter rescues . . . Are they appropriate in a wilderness? *The Waiting List* (Grand Canyon Private Boaters Association), 4(1) (Spring): 10-11. [Ellipsis is part of title.]



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

- 2002 15.285 [Comment.] *In*: Helicopter rescues . . . Are they appropriate in a wilderness? *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 6(1) (Summer/Fall): 24-25. [From gcpba@yahoo.com; ellipsis is part of feature title.] [Special Issue: Reflections—Five Years of Fun—A Waiting List Anthology.]

**Smith, Gar**

- 2011 15.1073 *Nuclear roulette : the case against a "nuclear renaissance"*. San Francisco: International Forum on Globalization, 77 pp. [See p. 37, paragraph noting uranium mining in Grand Canyon area; with notice of Orphan Mine (but without name) "still producing radiation levels 450 times normal".]

**Smith, Gari**

- 1999 15.412 Native American health care services—a dream job; fly with Smith into the Grand Canyon and look over her shoulder as she lives her dream of providing audiology services to the Native Americans. *Asha* (American Speech-Language-Hearing Association), 41(2): 24-.

**Smith, Latimer**

- 2012 15.614 Tales from the truck—Thundering with Thunder River. *Boatman's Quarterly Review*, 25(1) (Spring): 22-23. [Personal recollection of August 2001 falling accident at Thunder River.] [See also comment by Marc Smith, 26(1) (Spring 2013): 7.]

**Smith, Marc**

- 2012 15.671 In response to "Tales From the Truck—Thundering with Thunder River" by Latimer Smith published in the Spring 2012 BQR Volume 25, Number 1. *In*: Dear Eddy [SECTION]. *Boatman's Quarterly Review*, 26(1) (Spring): 7. [See L. Smith (2012, [ITEM NO. 15.614](#)) for original article .]

**Smith, Meghan**

- 2023 15.1291 PSAR symposium: Creating community and support for Preventive Search and Rescue teams. *Canyon Views* (Grand Canyon Conservancy), 30(3) (Winter 2023/2024): 12.
- 2024 15.1322 Preventive Search and Rescue HIKE SMART film project. *Canyon Views* (Grand Canyon Conservancy), 31(1) (Summer): 22-23. [Film for social media and the national park website premiered March 21, 2024.]

**Smith, Mike R.**

- 2008 15.695 National Guard rescues canyon flooding victims. *GX: The Guard Experience* (Nashville, Tennessee), 5(6): 20. [Flooding in Havasu Canyon.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Solly, S. Edwin**

- 1897 15.545 *A handbook of medical climatology. Embodying its principles and therapeutic application with scientific data of the chief health resorts of the world.* Philadelphia and New York: Lea Brothers and Co., 470 pp. + advertisements. [See pp. 293-294, references to Grand Canyon.]

**Solomon, Jasper S.**

- 1956 15.1200 Statement of Capt. Jasper S. Solomon, a pilot for Trans World Airlines, Inc. *In: Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956.* Washington, D.C.: U.S. Government Printing Office, pp. 52-78. [Relating to the 1956 Grand Canyon air crash.]

**Sommerfeld, Milton R.; Crayton, Wayne M.; AND Crane, Nancy L.**

- 1976 15.137 *Survey of bacteria, phytoplankton and trace chemistry of the lower Colorado River and tributaries in the Grand Canyon National Park.* Tempe, Arizona: Arizona State University, *Colorado River Research Program, Technical Report 12* (Grand Canyon National Park, Colorado River Research Series, Contribution 40), 136 pp. (National Technical Information Service PB 267731/AS.) [Hydrological Lower Colorado River, below Glen Canyon Dam.]  
 ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 8: page 4-26](#)

**Southwest Coordinating Group**

- 2017 15.944 *Southwest Area : 2017 mobilization guide.* [No place]: Southwest Coordinating Group [Arizona State Forestry Division; U.S. Bureau of Indian Affairs (Southwest, Navajo, Western Regions); U.S. Bureau of Land Management (Arizona, New Mexico); U.S. National Park Service (Intermountain Region); New Mexico State Forestry Division; U.S. Fish and Wildlife Service (Region 2); and U.S. Forest Service], 165 pp. [A supplement to the *National Mobilization Guide* for wildland fire management agencies “to respond primarily to wildfire emergencies, but [also for] other emergency incidents”.]

**Southwick, Robert**

- 2001 15.243 River rangers’ log—July through October 2001; burns, bites and breaks—what’s goin’ on? *The Waiting List* (Grand Canyon Private Boaters Association), 5(3) (Fall): 32-34, 40.
- 2010 15.522 A groover tale. *Boatman’s Quarterly Review*, 23(1) (Spring): 17-18.

**Spach, David H.; Liles, W. Conrad; Campbell, Grant L.; Quick, Robert E.; Anderson, Donald E., Jr.; AND Fritsche, Thomas R.**

- 1993 15.754 Tick-borne diseases in the United States. *New England Journal of Medicine*, 329(13) (September 23): 936-947. [See p. 939, notice, *in passing*, of infection of *Borrelia*

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

*hermsii*, relapsing fever, “among persons who stayed in rustic cabins at the north rim of the Grand Canyon.”]

**Spamer, Earle E.**

2023 15.1283 (COMPILER) 1956 — *A resource guide to the Grand Canyon midair collision of Trans World Airlines Flight 2 and United Air Lines Flight 718, June 30, 1956*. Philadelphia: Raven’s Perch Media, 114 pp. [PDF, <https://ravensperch.org>.]

**Spano, Susanne J., AND Dimock, Brad**

2014 15.813 They had me in stitches: A Grand Canyon river guide’s case report and review of wilderness wound management literature. *Wilderness and Environmental Medicine*, 25: 182-189. [Case report concerns a leg injury sustained by the second author; a first-hand account with discussion by the first author.]

**Speiser, Stuart M.**

1956 15.1210 Statement of Stuart M. Speiser, Chairman, Aviation Law Committee, National Association of Claimants’ Compensation Attorneys. *In: Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956*. Washington, D.C.: U.S. Government Printing Office, pp. 257-270. [Relating to the 1956 Grand Canyon air crash.]

**Sperlich, Billy; Haegele, Matthias; Marées, Marcus de; Mester, Joachim; AND Linville, John**

2010 15.556 Physiological demands of hiking the Grand Canyon. *Wilderness and Environmental Medicine*, 21(3): 276-278.

**Stack, Steven, AND Bowman, Barbara**

2015 15.945 Suicide in the Grand Canyon National Park. *In: Lester, David, and Stack, Steven (eds.), Suicide as a dramatic performance*. New Brunswick, New Jersey: Transaction Publishers, pp. 129-149.

2017 15.946 Suicide in the Grand Canyon National Park. *In: Lester, David, and Stack, Steven (eds.), Suicide as a dramatic performance*. London and New York: Routledge, pp. 129-149.

**Stahnke, Herbert L.**

1973 15.538 Arizona scorpion antivenom. *In: Questions and Answers [SECTION]*. *American Medical Association, Journal*, 225(5) (April 30): 637. [Answer to question posed by Wallace S. Brook, regarding “A woman bitten by a scorpion in the Grand Canyon area . . . .”]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Stanwood, Robert “Bobo”**

- NO DATE 15.1045 MSG “Bobo” Stanwood (B-K amputee). *In: Combat Wounded Veteran Challenge : Grand Canyon research expedition—2013 : the effects of extreme heat on the volume of residual limbs, a case study.* Tarpon Springs, Florida: Combat Wounded Veteran Challenge, pp. 32, 39-41, 46-47, 51-52, 57-58, 63-65. [2014.] [Personal remarks.] [Biographical sketch, pp. 78-79.] [Date obtained from URL of an online posting of this document. Refer to Combat Wounded Veteran Exchange, ITEM NO. 15.1037, and Lehrer, ITEM NO. 15.1038, for descriptions of study.]

**Stedman, Rich; McComas, Katherine; Decker, Dan; Rickard, Laura; Evensen, Darrick; Clarke, Chris; AND Higgins, Chuck**

- 2011 15.873 Evaluating One Health communication of the NPS: A case examination of plague response at Grand Canyon National Park [ABSTRACT]. *In: Rethinking Protected Areas in a Changing World : The George Wright Society Conference on Parks, Protected Areas and Cultural Sites, March 14-18, 2011, New Orleans, Louisiana : abstracts.* [No place]: George Wright Society, pp. 93-94. [One Health Initiative.]

**Steevens, Jeffery A.; Keith, G. K.; AND Bern, Carleton R.**

- 2022 15.1300 Potential use of zero valent iron to reduce toxicity in uranium mine detention pond water [ABSTRACT]. *In: 16th Biennial Conference of Science and Management for the Colorado Plateau and Southwest Region, September 12-15, 2022, High Country Conference Center, Northern Arizona University, Flagstaff, Arizona*, pp. 176-177. [Pertaining to an unspecified breccia pipe mining site in the Grand Canyon region.]

**Steffenson, Gary**

- 2009 15.484 Physical health in the off season. *Boatman’s Quarterly Review*, 22(3) (Fall): 38-39.

**Steiger, Lew**

- 1988 15.7 River stories. Havasu day. *Grand Canyon River Guides* [newsletter], 1(2) (November): 3-4. [Rescue at Havasu Creek.]
- 1993 15.138 Woofer. *The News* (Grand Canyon River Guides), 6(1) (Winter 1992/1993): 20. [Regarding first aid courses.]

**Steiner, Elizabeth**

- 2011 15.604 Sparks. *Teen Ink*, 23(3) (November): 7. [Essay. The author’s “cousin Danny was struck by lightning while hiking the Grand Canyon.”]

**Stephan, Lionel**

- 1956 15.1201 Statement of Capt. Lionel Stephan, pilot for American Airlines. *In: Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on*

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

*use of airspace : July 7, 18, September 11, 12, and 13, 1956.* Washington, D.C.: U.S. Government Printing Office, pp. 78-92. [Relating to the 1956 Grand Canyon air crash.]

**Stephenson, R. J.**

2005 15.354 [Untitled.] *In:* Stephenson, R. J. (ed.), *Grand groover chronicles; how's it going?* [FEATURE]. *The Waiting List*, 7(2) (Winter): 48-50.

**Sterling, Peter**

2004 15.785 Principles of allostasis: optimal design, predictive regulation, pathophysiology and rational therapeutics. *In:* Schulkin, Jay (ed.), *Allotasis, homeostasis, and the costs of adaptation.* New York: Cambridge University Press. [Regarding predictive regulation, see "concrete example" from a Grand Canyon hike.]

**Stevens, Lawrence E., AND Petterson, Jim**

1996 15.139 Be(e) alert! Africanized honeybees in Grand Canyon. *Boatman's Quarterly Review*, 9(4): 16-17.

**Stewart, B. D.**

1989 15.312 Determination of <sup>226</sup>Ra and uranium in fish samples from waters of the Grand Canyon (Arizona, USA) by alpha spectroscopy without electrodeposition. *Journal of Radioanalytical and Nuclear Chemistry*, 137(3): 213-218.

**Stewart, B. D.; McKlveen, J. W.; AND Glinski, R. L.**

1988 15.1052 Determination of uranium and radium concentrations in the waters of the Grand Canyon by alpha spectrometry. *Journal of Radioanalytical and Nuclear Chemistry*, 123(1) (July): 121-132. [Colorado River and tributaries.]

**Stewart, C. D.**

1899 15.532 [Comment.] *In:* Woods, G. K. (compiler), *Personal impressions of the Grand Cañon of the Colorado River near Flagstaff, Arizona, as seen through nearly two thousand eyes, and written in the private visitors' book of the world-famous guide Capt. John Hance, guide, story-teller, and path-finder.* San Francisco: Whitaker and Ray Co., for G. K. Woods, Flagstaff, Arizona Territory, p. 117. [Regarding fitness for Grand Canyon hiking.]

**Stewart, William; Backlund, Erik; AND McDonald, Cary**

2005 15.351 Safety and preparedness of day hikers at Grand Canyon [ABSTRACT]. *In:* *Eighth Biennial Conference of Research on the Colorado Plateau, du Bois Center, Northern Arizona University, 7-10 November 2005 : program and abstracts of presented papers and posters (version 2.0)*, p. 80.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Story, Isabelle F.**

- 1944 15.1272 Visitors in uniform. *National Parks Magazine*, (76) (January/March): 11-14. [See p. 13, remarks on the U.S. Navy's use of Grand Canyon National Park facilities for a sailors' convalescent center.]

**Stratton, Judy**

- 2003 15.321 The Whale Foundation presents—Pre-season fitness and back injury prevention. *Boatman's Quarterly Review*, 16(4) (Winter): 10-11.

**Stronghold Engineering, Inc.**

- 2023 15.1308 Transcanyon waterline; Grand Canyon National Park, Arizona; cost \$208 million; duration March 2023-ongoing; type civil. *Stronghold Engineering, Inc.* [newsletter] (Perris, California), (3rd Quarter): 1. [The firm was awarded the contract for waterline project construction March 14, 2023.]

**Stünzi, Walter**

- 2006 15.713 Dans l'enfer du Grand Canyon; cinquantenaire d'une intervention spectaculaire. *1414* (REGA: Schweizerische Rettungsflugwacht/Garde Aérienne Suisse de Sauvetage/Guardia Aerea Svizzera di Salvataggio) (Zurich) [French ed.], (67) (November): 28-29, 31. [Regarding the Swiss mountaineer rescue team at the 1956 United Airline crash site in Grand Canyon.] [\[In French.\]](#)
- 2006 15.714 In der Hölle des Grand Canyon; erinnerungen an einen Grosseinsatz vor 50 Jahren. *1414* (REGA: Schweizerische Rettungsflugwacht/Garde Aérienne Suisse de Sauvetage/Guardia Aerea Svizzera di Salvataggio) (Zurich) [German ed.], (67) (November): 28-29, 31. [Regarding the Swiss mountaineer rescue team at the 1956 United Airline crash site in Grand Canyon.] [\[In German.\]](#)
- 2006 15.715 Nell'inferno del Gran Canyon; ricordi di un intervento maggiore di 50 anni fa. *1414* (REGA: Schweizerische Rettungsflugwacht/Garde Aérienne Suisse de Sauvetage/Guardia Aerea Svizzera di Salvataggio) (Zurich) [Italian ed.], (67) (November): 28-29, 31. [Regarding the Swiss mountaineer rescue team at the 1956 United Airline crash site in Grand Canyon.] [\[In Italian.\]](#)
- 2007 15.1074 Dans l'enfer du Grand Canyon; cinquantenaire d'une intervention spectaculaire de la Garde Aérienne Suisse de Sauvetage. *LAR Report* (Luxembourg Air Rescue A.s.b.l.), (April): 24-25. [\[In French.\]](#)

**Sturdevant, Glen E.**

- 1927 15.920 Canyon hiking. *Grand Canyon Nature Notes*, 2(5) (October 31): 2-3.  
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 2: page 15| |CITED» GCNHA Monograph 8: page "1–Special Section 1–1"|

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Sullivan, Katharine “Katie”**

- 2003 15.306 A contemplative journey. *Canyon Views* (Grand Canyon Association Member Newsletter), 9(3) (Fall): 4.
- 

**Sulpizio, Tom**

- 2025 15.1348 The 15 technologists of United Flight 718—some of the nation’s leading technologists perished on Chuar Butte on June 30, 1956 *In*: Spamer, Earle E. (ed.), *Those Who Made a Difference : proceedings of the 6th Grand Canyon History Symposium, Grand Canyon, Arizona, November 1-4, 2023*. Grand Canyon, Arizona: Grand Canyon Conservancy. *In press*.
- 

**Sumer, Graham**

- 1905 15.533 (ED.) *Sexennial record of the Class of Yale Ninety-seven*. New York: Robert Grier Cooke, 121 pp. [See p. 112: “Blatchley Hoyt Porter met with a sudden and tragic death August 6, 1895, being struck by lightning while walking with his brother and a friend in the Grand Cañon of the Colorado.” (ENTIRE NOTE)]
- 

**Summers, Fred**

- 1956 15.1211 Statement of Fred Summers, Air Transport Division, Transport Works Union, AFL-CIO. *In*: *Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956*. Washington, D.C.: U.S. Government Printing Office, pp. 271-276. [Relating to the 1956 Grand Canyon air crash.]
- 

**Symons, Dick**

- 2008 15.475 Green and blue: National Park Service and US Coast Guard Auxiliary join forces to keep boaters safe; press release issued by the Lake Mead Recreational Area [*sic*]. *Commodore’s Bulletin and Director’s Newsletter* (U.S. Coast Guard Auxiliary, 11th Coast Guard District, San Pedro, California), 8(4): 3-4.
- 

**Symons, George E.**

- 1967 15.679 Water reuse—what do we mean? *In*: Proceedings of the 22nd Industrial Waste Conference, May 2, 3, and 4, 1967. *Purdue University, Engineering Bulletin*, 52(3): 1059-1065. (Volume: Engineering Extension Series, 129.) [See p. 1062: “In this country since about 1924, the effluent of an activated sludge municipal wastewater plant effluent has been used for lawn sprinkling in Grand Canyon National Park.” (ENTIRE NOTE)]
- 1968 15.680 Water reuse: What do we mean? *Water and Wastes Engineering*, 5(6): 40-43.
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Szymendera, Scott D.**

- 2024 15.1324 The Radiation Exposure Compensation Act (RECA): Compensation related to exposure to readiation from atomic weapons testing and uranium mining. Updated July 19, 2024. *Congressional Research Service, Report R43956*, 20 pp. [Areas affected include “in Arizona, the area north of the Grand Canyon and west of the Colorado River”.]
- 

T

**Talagrand-Reboul, Emilie; Boyer, Pierre H.; Bergström, Sven; Vial, Laurence; AND Boulanger, Nathalie**

- 2018 15.1148 Relapsing fevers: Neglected tick-borne diseases. *Frontiers in Cellular and Infection Microbiology*, 8(Article 98), 21 pp. (doi:10.3389/fcimb.2018.00098). [See pp. 7-8, brief remarks on rodent hosts for *Ornithodoros hermsi* ticks at Grand Canyon North Rim.]
- 

**Talatzko, Craig**

- 2019 15.1140 Leadership matters. *The Inside Lane* (Arizona Department of Transportation), 3(10) (May): 2. [Author is Grand Canyon National Park Airport operations administrative supervisor. With reference to airport firefighters.]
- 

**Talbott, John H.**

- 1935 15.1158 Heat cramps. *Medicine*, 14(3) (September): 323-376. [Boulder Dam-worker studies noted throughout.]

**Talbott, John H., AND Michelsen, Jost**

- 1933 15.1060 Heat cramps. A clinical and chemical study. *Journal of Clinical Investigation*, 12(3) (May): 533-549. [Study performed during Summer 1932 in Boulder City, Nevada, based on Hoover Dam workers.]
- 

**Tanana, Heather**

- 2023 15.1329 Protecting tribal public health from climate change. *Northeastern University Law Review*, 15(1): 89-160. [Includes Colorado River Basin.]
- 

**Tanana, Heather; Garcia, Jaime; Olaya, Ana; Colwyn, Chelsea; Larsen, Hanna; Williams, Ryan; AND King, Jonathan**

- 2021 15.1179 *Universal access to clean water for tribes in the Colorado River basin*. [No place]: Water and Tribes Initiative: Colorado River Basin, 67 pp.
-



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Taneja, Narinder, AND Wiegmann, Douglas A.**

- 2001 15.447 Analysis of mid-air collisions in civil aviation. *In: Proceedings of the 45th Annual Meeting of the Human Factors and Ergonomics Society, Santa Monica, CA.* [Includes reference to 1956 Grand Canyon air crash.]
- 

**Taylor, Walt**

- 2002 15.264 Things to remember on the river trip of life; Lees Ferry to Walddenberg [sic]. *Boatman's Quarterly Review*, 15(3) (Fall): 14-15.
- 2002 15.293 Things to remember on the river trip of life—Walddenberg to Diamond Creek. *Boatman's Quarterly Review*, 15(4) (Winter 2002-2003): 10-11.
- 2008 15.424 Things to remember on the river trip of life; Lees Ferry to Walddenberg [sic]. *Boatman's Quarterly Review*, 21(4) (Winter 2008-2009): [Whale Foundation insert], [3] pp. [Reprinted from *BQR*, 15(3), with brief editorial introduction.]

**Taylor, Walt, AND Myers, Tom**

- 1999 15.140 Tolio . . . fact and fiction. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 3(3) (August): 22. ["Tolio . . . River Rot, Foot rot . . .".] [All ellipses thus.]
- 1999 15.141 Tolio . . . fact and fiction. *Boatman's Quarterly Review*, 12(3) (Summer): 5. ["Tolio . . . River Foot, Foot Rot . . .".] [All ellipses thus.]
- 2000 15.175 "Tolio" revisited. *Boatman's Quarterly Review*, 13(1) (Winter): 4-5.

**Taylor, Walt; Flores, Michael; Myers, Tom; Woodard, Wyatt; Gerba, Charles; AND Gaither, Marlene**

- 2007 15.404 Tolio update and MRSA investigation. *Boatman's Quarterly Review*, 20(4) (Winter 2007-2008): 28. [MRSA—Methicillin-resistant *Staphylococcus aureus*.]
- 

**Tennant, Roy**

- 1999 15.142 Can't compare rating systems. *In: How hard is it? and related topics; running the "Grand" [FEATURE]. The Waiting List* (Grand Canyon Private Boaters Association), 3(1) (February): 18-19.
- 

**Terry, Teresa Jean**

- 2017 15.951 [Comment.] *From: Beset by drones. In: From Our Website: hcn.org [COLUMN]. High Country News*, 49(21) (December 11): 3. [Comments on a drone flying over campsite where she and several other women were camping alone on North Rim of Grand Canyon.] [Unoccupied aerial vehicle.]
- 

**Thommen, Robert A., Jr.**

- 1989 15.518 First wire rope net rockfall protective barrier installed at the Grand Canyon National Park. *In: Proceeding [sic] of the 40th Annual Highway Geology Symposium,*

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

*Birmingham, Alabama, May 17-19, 1989*, pp. 216-222. [Roaring Springs pumphouse.]

**Thomas, Doc**

- 2005 15.358 Location, location, location. *In*: Stephenson, R. J. (ed.), *Grand groover chronicles; how's it going?* [FEATURE]. *The Waiting List*, 7(2) (Winter): 51. [Written "with a little help from Ricardo".]

**Thompson, James**

- 2014 15.909 Medical considerations. *In*: Phillips, Ken, *National Park Service technical rescue handbook*. [No place]: U.S. National Park Service, 11th ed., pp. 230-238. [Includes photo (p. 231), "Rescuers monitor patient vital signs during a wheeled liter carryout at Grand Canyon National Park. See also "Appendix 4—Example Equipment List—Personal Rescue Gear" ("Courtesy James Thompson"). Also see cover (no credit), "An NPS rescuer at Grand Canyon National Park works at the cliff edge, secured by means of a safety line with two points of attachment to their harness." (legend, p. i).] [Thompson is EMS Coordinator, Search and Rescue, Grand Canyon National Park.]

**Thorstenberg, Russell, Jr.**

- 2001 15.221 Beam me up: Calling for a helicopter evacuation from the Grand Canyon. *Boatman's Quarterly Review*, 14(2) (Summer): 36-38.

**Tierney, V. Ronnie [Tierney, Veronica]**

- 2019 15.1072 Volunteering to keep hikers safe in the Canyon; Prevention Search and Rescue volunteers patrol main trails from April through October. *Flagstaff Business News* (Flagstaff, Arizona), 12(6) (June): 8, 45.
- 2023 15.1280 Preparing for hikers, high heat at Grand Canyon; symposium presenters discuss injuries and illnesses. *Flagstaff Business News* (Flagstaff, Arizona), 16(5) (May): 19. [National Park Service Preventive Search and Rescue Symposium, Grand Canyon National Park, April 27-29, 2023.]

**Tilousi, Carletta, AND Hinck, Jo Ellen**

- 2022 15.1301 The Havasupai perspective of uranium mining in Grand Canyon Watershed: a conceptual risk model [ABSTRACT]. *In*: *16th Biennial Conference of Science and Management for the Colorado Plateau and Southwest Region, September 12-15, 2022, High Country Conference Center, Northern Arizona University, Flagstaff, Arizona*, p. 185.
- 2024 15.1292 Expanded conceptual risk framework for uranium mining in Grand Canyon watershed—inclusion of the Havasupai Tribe perspective. *U.S. Geological Survey, Open-File Report 2023-1092* (Version 1.1, February 2024), 25 pp.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

- 2024 15.1304 Conceptual risk framework—Havasupai perspective. *U.S. Geological Survey, General Information Product 240*, 1 p. ["Modified from Tilousi and Hinck, 2023"; *i.e.* Tilousi and Hinck (2024, [ITEM NO. 15.1292](#)).] [[Labels in Havasupai and English](#).]
- 2024 15.1294 Contaminant exposure framework—Havasupai perspective. *U.S. Geological Survey, General Information Product 239*, 1 p. ["Modified from Tilousi and Hinck, 2023"; *i.e.* Tilousi and Hinck (2024, [ITEM NO. 15.1292](#)).]
- 2024 15.1305 Havasuw Baj Gwawg Gnawg. *U.S. Geological Survey, General Information Product 241*, 1 p. ["Modified from Tilousi and Hinck, 2023"; *i.e.* Tilousi and Hinck (2024, [ITEM NO. 15.1292](#)). Abstract from USGS website indicates, "This General Information Product was designed to show the contaminant exposure framework from the Havasupai perspective in the Havasupai language."] [Translation of "Contaminant exposure framework—Havasupai perspective" ([ITEM NO. 15.1294](#)).] [[In Havasupai](#).]

**Tillotson, M. R. [Tillotson, Miner R.]**

- 1928 15.1232 [Letter to Director, National Park Service, November 1, 1927, regarding toilets at Yavapai Point.] *From*: Discussions on "Grand Canyon National Park, Ariz." [pp. 997-1019]. *In*: *Interior Department appropriation bill : hearing before subcommittee of House Committee on Appropriations consisting of Messrs. Louis C. Cramton (Chairman), Frank Murphy, Burton L. French, Edward Taylor, and William W. Hastings in charge of Interior Department appropriation bill, 1929 : Seventieth Congress, First Session*. Washington, D.C.: U.S. Government Printing office, pp. 1019-1022. [Yavapai Observation Station.]
- 1929 15.143 A water supply for the North Rim of the Grand Canyon. *Arizona State Board of Health, Bulletin*, 50: 35-37.  
     ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 2: page 102](#) | [CITED» GCNHA Monograph 8: page 7-11](#)

**Timm, Jim**

- 2016 15.866 AZ aviation accident summary. *APA Newsletter* (Arizona Pilots Association), (February): 9-11. [See p. 10, Super Bushmaster (Canadian registry) loss of control landing at Marble Canyon, October 4, 2015.]

**Timmerman, Craig F.**

- 1956 15.1216 Statement of Craig F. Timmerman, Air Transport Association. *In*: *Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956*. Washington, D.C.: U.S. Government Printing Office, pp. 336-343. [Relating to the 1956 Grand Canyon air crash.]

**Tobin, Mitch**

- 2001 15.238 Dangerous parks. *In*: Bulletin Board [SECTION]. *High Country News*, (August 27): 15.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Torres, Brandon**

2013 15.710 Never head first. *Boatman's Quarterly Review*, 26(3) (Fall): 25. [Shallow water diving.]

---

**Trecker, Barbara**

1981 15.855 Rescue in the Grand Canyon; they were camped on an isolated strip of beach—at the bottom of a narrow, 200-foot gorge—when Jerry Ryan's heart stopped beating. *Reader's Digest*, 118(710) (June): 75-79. (Drama in Real Life®.)  
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 1-76|

---

**Tucker, John**

2010 15.536 New aircraft rescue and firefighting facility opens. *TranSend* (Arizona Department of Transportation), (July): 3-4. [Front page title: "Steel, glass, wood, stone meet sustainability at Grand Canyon Airport".]

---

**Tudiver, Fred**

1997 15.511 A lesson from my father. *Canadian Medical Association Journal*, 157(11) (December 1): 1571-1572.

---

**Tunncliff, Brock Matthew**

1980 15.144 *Water quality analyses of the Colorado River corridor of Grand Canyon*. Doctoral dissertation, University of Arizona, 185 pp.  
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 4-28|

**Tunncliff, Brock, AND Brickler, Stanley K.**

1980 15.146 Water quality analyses of the Colorado River corridor of the Grand Canyon. *Hydrology and Water Resources in Arizona and the Southwest*, 10: 85-91.  
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 3-88|

1981 15.892 White-water researchers check bacteria in the Grand Canyon. *Progressive Agriculture in Arizona* (University of Arizona, College of Agriculture), 32(2) (June): 19-23. [NOTE: Cover of this issue indicates "Volume XXXI Number 2"; Table of Contents page indicates "Volume 32, Number 2", which is correct.]

1982 15.147 *Water quality monitoring in the Colorado River corridor : Lees Ferry to Diamond Creek 1981*. Tucson: University of Arizona, 76 pp. ("Prepared for Grand Canyon National Park P.O. # PX821011018".)  
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 4-45|

1984 15.148 Recreational water quality analyses of the Colorado River corridor in Grand Canyon. *Applied and Environmental Microbiology*, 48(5) (November): 909-917.  
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 4-45|

1985 15.149 Impact of nonpoint source fecal loading on backcountry waters in Grand Canyon. *In: Perspectives on nonpoint source pollution : proceedings of a national conference*,

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

*Kansas City, Missouri, May 19-22, 1985.* Environmental Protection Agency, pp. 374-379.

**Tunncliff, Brock; Ellis, Tom; Doyle, Jack D.; AND Brickler, Stanley K.**

- 1984 15.1184 *Drinking water treatment and procedures for Colorado River raft trips, Grand Canyon National Park, 1984.* Tucson: University of Arizona, School of Renewable Natural Resources, for U.S. National Park Service, Grand Canyon National Park, 49 pp. (CA 8000-1-0002, May 24, 1984.)

**Turk, Michelle Follette**

- 2007 15.1105 Dead roses and blooming deserts: The medical history of a New Deal icon. *Psi Sigma Siren* (Phi Alpha Theta National History Honor Society, Psi Sigma Chapter, University of Nevada at Las Vegas) 5(1) (Article 1), 24 pp. [Hoover Dam.] [The document reproduced in this series is the manuscript for the item published in the *Nevada Historical Society Quarterly* (Turk, 2007, ITEM NO. 15.1106).]
- 2007 15.1106 Dead roses and blooming deserts; the medical history of a New Deal icon. *Nevada Historical Society Quarterly*, 50(3) (Fall): 239-264. [Hoover Dam.]

**Turner, Jack**

- 2002 15.265 Elimination bout. *Outside*, (September): 26-27.

**Tusayan Community Wildfire Protection Committee**

- 2005 15.1048 *Tusayan Community Wildfire Protection Plan : an at-risk community of the Kaibab National Forest in Coconino County. Draft.* Grand Canyon, Arizona: Tusayan Community Wildfire Protection Committee, 21 pp.
- 2013 15.749 *Tusayan Community Wildfire Protection Plan : an at-risk community of the Kaibab National Forest in Coconino County. Final (Draft until approved by agencies).* Grand Canyon, Arizona: Tusayan Community Wildfire Protection Committee, 18 pp.

U

**Ubach i Tarres [AND Corrie, Sara]**

- 1982 15.1181 VIII<sup>é</sup> Congrés Internacional d'Espeleologia; una xerrada amb Sara Corrie. *Muntanya* (Club Alpi Català, Centre Excursionista de Catalunya, Barcelona), 89(720) (April): 83-84. [Includes interview with now-disabled caver Corrie. The interview concludes with her remarks on an injury suffered at Toroweap: "Quam em vaig trencar la columna, estava fent pràctiques en una paret exterior del «Toroweap Point», a la cara nord del «Grand Canyon», a Arizona. L'aparell va fallar i vaig caure uns 30 metres aproximadament. Ara sóc, in termes mèdics, una semiparaplégica. Tinc les dues cames pràcticament paralitzades i sé que probablement no seré capaç d'explorar mal

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

més. Tot i així, ara i sempre seguiré sentint-me intensament atreta pel món subterrani.”] [In Catalan.]

---

**Uberuaga, David V.**

2012 15.777 A letter about wildlife from the Park Superintendent. *Pinyon Press* (Xanterra South Rim, L.L.C., Grand Canyon), 2012(20) (October 3): 9. [Disease and injury.]

---

**Udall, Stewart L.**

1998 15.150 Foreword. *In*: Farabbe, Charles R. “Butch”, Jr., *Death, daring and disaster : search and rescue in the national parks*. Boulder, Colorado: Roberts Rinehart Publishers, pp. [xix]-[xx].

---

**Uehling, Mark D.**

1986 15.151 A Grand Canyon controversy. *Newsweek*, 107(26) (June 30): 28. [Air crash raises questions about air tours over Grand Canyon.]  
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 7-18, page 12-22|

---

**Uhlman, Kristine**

2008 15.684 Arsenic in Arizona ground water; source and transport characteristics. *University of Arizona, Arizona Cooperative Extension, AZ1453*, 4 pp.

**Uhlman, Kristine; Rock, Channah; AND Artiola, Janick**

2009 15.683 Arizona drinking water well contaminants. *University of Arizona, Arizona Cooperative Extension, AZ1503*, 4 pp.

---

**Underhill, A. Heaton; Hoffman, M. H.; AND Borkan, Ronald E.**

1986 15.152 An analysis of recorded Colorado River boating accidents in Glen Canyon for 1980, 1982, and 1984, and in Grand Canyon for 1981 through 1983. *U.S. National Park Service/University Arizona Cooperative National Park Resources Studies Unit, Special Report 18*, 22 pp. (Glen Canyon Environmental Studies Report C-1.) (PB88-195441.)

1987 15.153 *An analysis of recorded Colorado River boating accidents in Glen Canyon for 1980, 1982, and 1984, and in Grand Canyon 1981-1983*. Salt Lake City: U.S. Bureau of Reclamation, Glen Canyon Environmental Studies Technical Report.

1988 15.931 An analysis of recorded Colorado River boating accidents in Glen Canyon for 1980, 1982, 1984, and in Grand Canyon for 1981 through 1983. *In*: U.S. Bureau of Reclamation, Glen Canyon Environmental Studies, *Glen Canyon Environmental Studies : executive summaries of technical reports : November 1988*. [No place]: Glen Canyon Environmental Studies, pp. 361-373.

---

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**U.S. Bureau of Land Management**

- NO DATE 15.686 Nixon Spring drinking water source redevelopment. [No place]: *U.S. Department of the Interior Recovery Investments*, 1 p. [*Variant 1*: "Construction is estimated to begin by March, 2010 and end August, 2010", Scott Sticha, contact; photo, aerial view at site.]
- NO DATE 15.687 Nixon Spring drinking water source redevelopment. [No place]: *U.S. Department of the Interior Recovery Investments*, 1 p. [*Variant 2*: "Construction is estimated to begin by June, 2010 and end in mid October, 2010", Linda Johnson, contact; photo, view of spring area.]

**U.S. Bureau of Reclamation**

- 1988 15.386 *Colorado River Storage Project : Glen Canyon Dam inundation map : index of cross sections used in dam failure study*. [No place]: U.S. Bureau of Reclamation, 1 sheet. [Regarding Glen Canyon Dam failure study, refer also to Latham (1998, [ITEM NO. 15.921](#)).]
- 1988 15.387 *Colorado River Storage Project : Glen Canyon Dam inundation map : key areas around Lake Mead*. [No place]: U.S. Bureau of Reclamation, 10 sheets. [Regarding Glen Canyon Dam failure study, refer also to Latham (1998, [ITEM NO. 15.921](#)).]

**U.S. Bureau of Standards**

- 1914 15.521 National standard hose couplings and fittings for public fire service. *U.S. Bureau of Standards, Circular 50*. [See p. 17, Atchison, Topeka and Santa Fe Railroad at Grand Canyon listed among "Cities at this date using the national standard fire-hose coupling".]

**U.S. Circuit Court, Northern District of New York**

- 1905 15.568 *United States Circuit Court, Northern District of New York. In equity, No. 7025. Cameron Septic Tank Company, Complainants, vs. Village of Saratoga Springs and the Sewer, Water and Street Commission of Saratoga Springs, Defendants. Pleadings and proofs*. U.S. Circuit Court, Northern District of New York, 909 pp. [See statement of Hubert D. Wyllie, witness on behalf of the complainant, p. 3 and following; specifically, p. 29, reference *in passing* to Grand Canyon, Arizona, as one location of sewage disposal plants constructed by his company, Cameron Septic Tank Company.] [Notice in volume: "Owing to an error on the part of the printer, the first 59 pages and 294 folios of this record contain the printed copy of the complainant's prima facie case. To avoid, therefore, the trouble and expense of entirely repaging and renumbering the folios, the case is left in its present form, the court's attention being respectfully called to the error."]

**U.S. Civil Aeronautics Board**

- NO DATE 15.1306 *SA-320/File No. 1-0090. Adopted: April 1957—Released: April 17, 1957. Civil Aeronautics Board : Accident Investigation Report : midair collision, Trans World Airlines Lockheed L-1049A N6902C, United Air Lines Douglas DC-7 N6324C over Grand Canon, Arizona, June 30, 1956*. Converse, Texas: AIREPORTS, 32 pp. + 4

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

leaves illustrations. (TW1.) [Transcription copyright AIREPORTS. Completely reset with justified margins. Cover sheet: *Civil Aeronautics Board Accident Investigation Report : midair collision : Trans World Airlines L-1049A N6902C, United Air Lines DC-7 N6324C over Grand Canyon, Arizona, June 30, 1956.*]

- 1957 15.154 Trans World Airlines, Inc., Lockheed 1049A, N 6902C, and United Air Lines, Inc., Douglas DC-7, N 6324C, Grand Canyon, Arizona, June 30, 1956. *U.S. Civil Aeronautics Board, Accident Investigation Report SA-320, File No. 1-0090, adopted April 15, 1957, released April 17, 1957.* [1956 air crash.] [Report prepared by James R. Durfee, Chan Gurney, Harmar D. Denny, and G. Joseph Minetti (as noted on last page of text, which also notes, "Member Louis J. Hector did not take part in the adoption of the report.".)] [NOTE: Two variants have been seen; both mimeographed. *Variant 1*, with p. 1 displaying typewritten series title, "C I V I L A E R O N A U T I C S B O A R D A C C I D E N T I N V E S T I G A T I O N R E P O R T", thus; text 53 pp. typed 1½-spaced, [4]-p. illustrations, "Supplemental Data" paginated i-v. *Variant 2*, with p. 1 displaying block-lettered series title, "CIVIL AERONAUTICS BOARD ACCIDENT INVESTIGATION REPORT", in non-bold and bold type, thus; text 25 pp. typed single-spaced, with "Supplemental Data" paginated i-iii, and [4]-p. illustrations. Although both variants employ monospaced characters, *Variant 2* is typed with a more condensed character spacing than as used in *Variant 1*. The timing of these states is undetermined here. Also undetermined here is the faithfulness of texts to each other, although they seem to be identical.]
- 1957 15.1187 *Annual report of the Civil Aeronautics Board : 1957.* Washington, D.C.: U.S. Government Printing Office, 44 pp. [See "Grand Canyon collision", p. 27.]

**U.S. Department of Health, Education, and Welfare, Public Health Service, Bureau of State Services, Division of Water Supply and Pollution Control, Region VIII**

- 1963 15.1012 *Radiological content of Colorado River Basin bottom sediments : August 1960-August 1961.* Denver: U.S. Department of Health, Education, and Welfare, Public Health Service, Region VIII, 40 pp. (PR-10.) (Colorado River Basin Water Quality Control Project.) [Sample collection stations largely throughout the Upper Basin, but include Lees Ferry and several stations in Lake Mead and on the lower Colorado River to Yuma.]

**U.S. Department of the Interior, Grand Canyon Safety and Health Review Team** (Radtko, Timothy; May, Michael; Sawyer, Kate; Wertman, Stacy; Quinn, Michael; Smith, Hillary A.; Said, Maria; Hines, Ashley-Marie; AND Dickerson, Veronica)

- 2019 15.1069 *Grand Canyon National Park 2019 safety and health review report.* [No place]: U.S. Department of the Interior, 147 pp. ["The Grand Canyon Safety and Health Review Team received a delegation of authority from the National Park Service Acting Associate Director, Visitor and Resource Protection to review three distinct areas of the Grand Canyon National Park (GRCA) occupational safety and health program. Those areas were: determining if radiation levels—at the time uranium ore samples were stored in the Park's Museum Collection Facility—posed a health hazard to employees and visitors; a review of the Park's Automated External Defibrillator (AED) program to determine strengths and areas for improvement; and a review of an employee on-duty injury to determine if it was investigated per Department of the Interior and National Park Service policies and if the Park routinely used Job Hazard Analysis (JHA) to identify hazards associated with the operation that led to the injury." (p. 4)]



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

---

**U.S. Department of the Interior, Office of the Inspector General**

- 2008 15.490 Audit report; Abandoned mine lands in the Department of the Interior. *U.S. Department of the Interior, Office of the Inspector General, C-IN-MOA-0004-2007*, 38 pp. [Includes Grandview Mine and Orphan Mine at Grand Canyon National Park, and sites in Lake Mead National Recreation Area.]

---

**U.S. Environmental Protection Agency, Chemical, Biological, Radiological and Nuclear Consequence Management Advisory Team**

- 2013 15.741 ASPECT investigates possible uranium mine drainage in Grand Canyon. [AND] Xavier University student assists ASPECT with Grand Canyon survey. *In: CBRN Consequence Management Advisory Team, 2013 FY Annual Report*, p. 11. [Airborne Spectral Photometric Environmental Collection Technology.] ["A survey is being conducted per a request from the National Park Service (NPS) to investigate possible uranium mine drainage into the Grand Canyon. NPS is interested in addressing any potential impacts to the public and environment from these potential discharges. The project will use a subset of ASPECT equipment that will be installed and flown on an NPS helicopter." (ENTIRE ITEM) "A volunteer from Xavier University worked with the ASPECT program during the summer to receive research credit in pursuit of a bachelor's degree. The student characterized a new configuration of the radiation detectors used on the ASPECT aircraft to support a future survey in the Grand Canyon." (ENTIRE ITEM)]

---

**U.S. Environmental Protection Agency, Office of Radiation and Indoor Air; AND U.S. Geological Survey**

- 1993 15.1022 *EPA's map of radon zones : Arizona*. [No place]: U.S. Environmental Protection Agency, Office of Radiation and Indoor Air, Radon Division, SEPARATELY PAGINATED SECTIONS [86 pp. total]. (402-R-93-023.)

---

**U.S. Environmental Protection Agency, Office of Radiation and Indoor Air, Radiation Protection Division**

- 2008 15.978 *Technical report on technologically enhanced naturally occurring radioactive materials from uranium mining. Volume 1: Mining and reclamation background*. Washington, D.C.: U.S. Environmental Protection Agency, Office of Radiation and Indoor Air, Radiation Protection Division, SEPARATELY PAGINATED SECTIONS [225 pp. total]. ("Previously published on-line and printed as Vol. 1 of EPA 402-R-05-007, January 2006; Updated June 2007 and printed April 2008 as EPA 402-R-08-005".) [Orphan Mine, Grand Canyon, see in Section 3 ("Volume and Characteristics of Uranium Mine Wastes", subsection "Potential for Water Contamination", pp. 3-15 to 3-20), and in Appendix III ("Overview of Uranium Mines and *In Situ* Leach Operations Case Studies"), pp. AIII-1 to AIII-2.]

---

**U.S. Federal Aviation Administration**

- \_\_\_\_\_ 15.1128 *U.S. Terminals Procedures Publication : Southwest (SW) Vol 4 of 4*. U.S. Federal Aviation Administration, SEPARATELY PAGINATED SECTIONS. [Periodically updated; cited from ed. effective 30 January-26 March 2020.] [These publications are accessible online at [https://www.faa.gov/air\\_traffic/flight\\_info/aeronav/digital\\_products/dtpp/](https://www.faa.gov/air_traffic/flight_info/aeronav/digital_products/dtpp/) (accessed 1 March 2020).]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

- NO DATE 15.1296 *Facility orientation guide : Los Angeles Air route Traffic Control Center (ARTCC)*. [No place]: U.S. Federal Aviation Administration, 48 pp. [See maps, p. 9, "Los Angeles Center High Altitude Sectors" and "Los Angeles Center Low Altitude Sectors"; map, p. 17, "Los Angeles ARTCC and the Operational Areas"; and "Area F" (p. 23), which notes that "they handle traffic into the Grand Canyon, Las Vegas departures and arrivals to airports in the Southwest US" and "They handle Approach Control service for Grand Canyon, Kingman and St George airports."

**U.S. Federal Bureau of Investigation, Counterterrorism Division, Counterterrorism Threat Assessment and Warning Unit**

- 1999 15.756 *Terrorism in the United States 1999 : 30 years of terrorism, a special retrospective edition*. [Washington, D.C.]: U.S. Federal Bureau of Investigation, Counterterrorism Division, Counterterrorism Threat Assessment and Warning Unit, 62 pp. [See in chronology for 1980-1989; specifically, p. 61: "9/25/88; Incident; Grand Canyon AZ; Sabotage; [0 killed, 0 injured]; [perpetrator] Evan Mecham Eco-Terrorist International Conspiracy". (ENTIRE NOTE)]

**U.S. Federal Bureau of Investigation, Criminal Investigative Division, Counterterrorism Section, Terrorist Research and Analytical Center**

- 1988 15.757 *Terrorism in the United States 1988 : date of information: December 31, 1988*. Washington, D.C.: U.S. Federal Bureau of Investigation, Criminal Investigative Division, Counterterrorism Section, Terrorist Research and Analytical Center, 46 pp. [See under "Terrorist Incidents"; specifically, p. 2, "September 25, 1988", regarding five Energy Fuels Nuclear powerline poles on the North Rim of Grand Canyon sabotaged, causing power outage at the EFN uranium mines, and on the same date 29 power poles cut at the Canyon Uranium Mine on the South Rim. A group calling itself "Evan Mecham Eco-Terrorist International Conspiracy" claimed responsibility.]

**U.S. Federal Security Agency, Public Health Service, Division of Water Pollution Control, Western Gulf and Colorado Drainage Basins Office**

- 1951 15.1189 *Colorado River drainage basin : summary report on water pollution*. [No place]: U.S. Federal Security Agency, Public Health Service, 46 pp. [Cover title: *Colorado River drainage basin : cooperative state-federal report on water pollution*. (Pollution Series, No. 9.)] [In cooperation with Arizona State Department of Health, California State Department of Public Health, Colorado State Department of Public Health, Nevada State Department of Health, New Mexico Department of Public Health, Utah State Department of Health, Wyoming State Department of Public Health.]

**U.S. Government Accountability Office**

- 2005 15.449 *Homeland Security : actions needed to better protect national icons and federal office buildings from terrorism : report to the chairman, Committee on Government Reform, House of Representatives*. Washington, D.C.: U.S. Government Accountability Office, 53 pp. (GAO-05-790.) [Hoover Dam, see pp. 11-14, 45, 49.]
- 2006 15.718 *Public service announcement campaigns : activities and financial obligations for seven federal departments*. Washington, D.C.: U.S. Government Accountability Office. (GAO-06-304.) [See p. 59, "Campaign #12. Hike Smart (originally called Heat Kills—

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

Hike Smart).”; statistics for U.S. National Park Service-sponsored radio, billboard, and internet campaign targeted to “Day hikers coming to Grand Canyon National Park during spring and summer months.”]

- 2009 15.566 *Homeland Security : actions needed to improve security practices at national icons and parks : report to the Chairman, Committee on Homeland Security, House of Representatives.* Washington, D.C.: U.S. Government Accountability Office, 47 pp. (GAO-09-983.) [Grand Canyon National Park, see pp. 15, 16, 19, 22, 27, 31-33, 37; Hoover Dam not mentioned except in passing.]

**U.S. House of Representatives, Committee on Interstate and Foreign Commerce, Subcommittee**

- 1956 15.1193 *Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956.* Washington, D.C.: U.S. Government Printing Office, 343 pp. [Relating to the 1956 Grand Canyon air crash.]

**U.S. National Oceanic and Atmospheric Administration, Office of the Federal Coordinator for Meteorological Services and Supporting Research**

- 2007 15.1014 *National Volcanic Ash Operations Plan for Aviation and support of the ICAO International Airways Volcano Watch.* Washington, D.C.: U.S. National Oceanic and Atmospheric Administration, Office of the Federal Coordinator for Meteorological Services and Supporting Research, SEPARATELY PAGINATED SECTIONS [68 pp. total]. (GCM-P35-2007.) [Appendix D, “List of U.S. Volcanoes”, includes (p. D-6) Uinkaret Field, Arizona.] [International Civil Aviation Organization.]

**U.S. National Park Service**

- NO DATE 15.439 *North Rim Development Concept Plan, Grand Canyon National Park, draft . [AND] Draft Environmental Assessment, proposed Development Concept Plan, North Rim, Grand Canyon National Park, Arizona. [AND] Environmental Assessment, water system improvement, Grand Canyon National Park, Arizona, North Rim.* U.S. National Park Service, 1 volume. [1976.]

**[U.S. National Park Service]**

- 1925 15.1231 Tentative agreement covering the construction and operation of sewage-treatment plant, and use and diversion of effluent recovered therefrom, at the Grand Canyon National Park, Grand Canyon, Ariz. *In: National Forests and the Public Domain : hearings before a subcommittee of the Committee on Public Lands and Surveys, United States Senate, Sixty-ninth Congress, First Session, pursuant to S. Res. 347 : June 18, 1925 : Part 5.* Washington, D.C.: U.S. Government Printing Office, pp. 1526-1527. [S. Res 347, to investigate all matters relating to national forests and the public domain and their administration.] [Part 5, subcommittee meeting “at the schoolhouse in Grand Canyon National Park, Ariz[.], Senator Ralph H. Cameron, presiding.”] [This item is a document introduced into the record, following on the testimony of the superintendent of Grand Canyon National Park (see J. R. Eakin, 1925, ITEM NO. 13.5196). The agreement is on the authority of an act of Congress, March 3, 1925. Of special note: “On account of the excessive high cost of fresh water at the canyon and the absence of any supply which can be developed to materially

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

lessen this cost it is necessary to treat the sewage so that the effluent may be used again for boiler feed, cooling water for Diesel engines, irrigation, and restricted toilet purposes.”]

**U.S. National Park Service, Denver Service Center**

- |      |        |  |
|------|--------|--|
| 1977 | 15.886 | <i>Environmental Assessment : water system improvement, North Rim, Grand Canyon National Park.</i> U.S. National Park Service, Denver Service Center, 40 pp.<br><span style="color: #A52A2A;">≡</span> CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 4-28]                    |
| 1980 | 15.155 | <i>Environmental Assessment : Phantom Ranch sewage treatment facilities, Grand Canyon National Park, Arizona.</i> Denver: U.S. National Park Service, 22 pp.<br><span style="color: #A52A2A;">≡</span> CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 4-46]                    |
| 1984 | 15.593 | <i>Environmental Assessment, replace water distribution system, village area, Grand Canyon National Park.</i> U.S. National Park Service, Denver Service Center, 67 pp.<br><span style="color: #A52A2A;">≡</span> CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 4-28 to 4-29] |
| 1985 | 15.594 | <i>Environmental Assessment : modify wastewater treatment plant, South Rim : Grand Canyon National Park, Arizona.</i> U.S. National Park Service, Denver Service Center, 30 pp.  |

**U.S. National Park Service, Division of Fire and Aviation Management**

- |      |        |  |
|------|--------|--|
| 2011 | 15.595 | Workforce Development Experience Grant Program. <i>U.S. National Park Service, Division of Fire and Aviation Management, Wildlife Fire Program Brief, (September),</i> 1 p. [Participating modules include Grand Canyon Helicopter Program.] |
|------|--------|--|

**U.S. National Park Service, Emergency Services**

- |      |         |  |
|------|---------|--|
| 2012 | 15.1142 | <i>Swiftwater rescue manual.</i> [No place]: U.S. National Park Service, 86 pp. [Includes photos taken on Colorado River in Grand Canyon. See also “Appendix C—Sample Swiftwater Rescue Preplan. Grand Canyon National Park SAR Plan River Rescue Incident; Pre-Plan Extreme High Or Low Flow Event” (pp. 81-85).] |
|------|---------|--|

**U.S. National Park Service, Grand Canyon National Park**

- |         |         |   |
|---------|---------|---|
| NO DATE | 15.1126 | <i>Emergency evacuation guidelines for river trips in the Grand Canyon.</i> [No imprint], 7 pp. [After 1958.] [Mimeographed.]                                       |
| NO DATE | 15.251  | <i>Safe drinking water.</i> U.S. National Park Service, Grand Canyon National Park, information sheet. [2002?]  |
| NO DATE | 15.398  | <i>Hike smart.</i> U.S. National Park Service, Grand Canyon National Park, folded brochure. [2007 or earlier.]  |
| NO DATE | 15.673  | <i>Lightning danger.</i> U.S. National Park Service, Grand Canyon National Park, folded brochure. [Ca. 2012.]   |
| NO DATE | 15.664  | <i>Join the visitor protection ranger team.</i> U.S. National Park Service, Grand Canyon National Park, 1 p. [2013?] [Division of Resource and Visitor Protection.] |

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

- NO DATE 15.948 *How to see and photograph wildlife : capture great photos even at a distance [and] Sometimes the best relationship is a long-distance relationship.* U.S. National Park Service, Grand Canyon National Park, rack card. [2017?]
- NO DATE 15.1330 *1926 water reclamation plant.* U.S. National Park Service, Grand Canyon National Park, 2 pp. [Ca. 2023.] [Illustrated fact sheet.]
- 1963 15.156 *Rehabilitation of water systems and supplementary water supply for North and South Rim developments, Grand Canyon National Park, Arizona.* U.S. National Park Service, Grand Canyon National Park, 8 pp. + appendices.
- 2000 15.559 *Improvements for Desert View wastewater treatment system : Draft Environmental Assessment : Grand Canyon National Park, Desert View.* U.S. National Park Service, Grand Canyon National Park, 32 + 3 pp.
- 2003 15.305 *Environmental Assessment/Assessment of Effect : replacement, rehabilitation and maintenance of backcountry and corridor toilets, Grand Canyon National Park, Arizona.* U.S. National Park Service, Grand Canyon National Park, 96 pp.
- 2004 15.330 *Environmental Assessment : construct, rehabilitate and repair restrooms parkwide : Grand Canyon National Park, Arizona.* U.S. National Park Service, Grand Canyon National Park, 127 pp.
- 2005 15.399 *Lightning danger.* U.S. National Park Service, Grand Canyon National Park, folded brochure.
- 2006 15.473 *Safe drinking water.* U.S. National Park Service, Grand Canyon National Park, 1 p. ("1106".)
- 2009 15.456 Vintage 1983 "Camp High, Be Cautious" notes . . . Courtesy of Mike Denoyer. *Boatman's Quarterly Review*, 22(1) (Spring): 48. [Reproduction of notices distributed to Colorado River runners by National Park Service, June 1983, pertaining to very high water flows. Ellipsis is part of title.]
- 2009 15.472 *Backcountry food storage.* U.S. National Park Service, Grand Canyon National Park, 1 p. ("GBC food stor: 04/09".)
- 2012 15.659 *Basic emergency evacuation procedures.* U.S. National Park Service, Grand Canyon National Park, 2 pp. ["An evacuation of Grand Canyon National Park may be necessary due to a wildland fire, a hazardous materials incident, natural disaster, or a hostage or terrorism incident."]
- 2012 15.828 *Structural Fire Management Plan : Grand Canyon National Park.* U.S. National Park Service, Grand Canyon National Park, SEPARATELY PAGINATED SECTIONS.
- 2014 15.1247 [Map.] *Grand Canyon Fitness Routes (South Rim Village).* U.S. National Park Service, Grand Canyon National Park. 1 sheet. ("Produced by GRCA SRM GIS". "Feb 2014".) [Scale bar shown. Color- and style-coded routes on existing pathways and roads; 1-, 2-, 3-, and 6-mile "training distances" delineated.] [Seen as produced on 11 × 17-inch paper where scale is 1 inch ≈ 0.3 mile.]
- 2015 15.1071 *Grand Canyon : basic emergency evacuation procedures.* U.S. National Park Service, Grand Canyon National Park, 2 pp. ("Revised April 2015".) ["An evacuation of Grand

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

Canyon National Park may be necessary due to a wildland fire, a hazardous materials incident, natural disaster, or a hostage or terrorism incident.”]

- 2017 15.981 *Hike smart: Summer backpacking.* U.S. National Park Service, Grand Canyon National Park, 2 pp.
- 2023 15.1299 *North Rim water system improvements : pre-NEPA : civic engagement, June-July 2023.* U.S. National Park Service, Grand Canyon National Park, 3 pp. [Newsletter. Regarding the proposed replacement of the North Rim to Roaring Springs water pipeline.] [NEPA: National Environmental Policy Act.]

**U.S. National Park Service, [Grand Canyon National Park]**

- NO DATE 15.253 *Heat kills : hike smart. Summer hiking in Grand Canyon National Park.* U.S. National Park Service, [Grand Canyon National Park], folded brochure. [2002.]

**[U.S. National Park Service], Grand Canyon National Park, Corridor Rangers**

- NO DATE 15.254 *Why suffer? Hike smart! Heat kills!* U.S. National Park Service, Grand Canyon National Park, folded brochure. [2002.]

**[U.S. National Park Service], Grand Canyon National Park, Fire and Aviation Division**

- 2017 15.1129 *Grand Canyon UAS program : 1 year report : 10/01/2017.* [U.S. National Park Service], Grand Canyon National Park, Fire and Aviation Division, 4 pp. [Unoccupied Aircraft System.] [Unoccupied aerial vehicle.]

**U.S. National Park Service, Grand Canyon National Park, Preventative Search and Rescue Program**

- NO DATE 15.413 *Hike smart.* U.S. National Park Service, Grand Canyon National Park, 2 pp. [Ca. 2008.]

**U.S. National Park Service, Lake Mead National Recreation Area**

- 1999 15.958 *Africanized honeybees.* U.S. National Park Service, Lake Mead National Recreation Area, 2 pp. (“5/27/99”.)
- 2008 15.959 *West Nile virus.* U.S. National Park Service, Lake Mead National Recreation Area, [1], 12 pp. (“9/3/08”.) [Includes “West Nile Virus Response Plan; August 2008” (pp. 1-12).]
- 2012 15.955 *Naegleria fowleri, a public health risk.* U.S. National Park Service, Lake Mead National Recreation Area, 2 pp. (Natural Resource Fact sheet.) (“Last updated: 5 October 2012”.)

**U.S. National Park Service, Structural Fire Management Program**

- 2015 15.829 *Structural Fire Program Strategic Plan: 2010-2015.* Boise, Idaho: U.S. National Park Service, Structural Fire Management Program, 7 pp. [Includes Grand Canyon National Park.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

---

**U.S. National Research Council, Division on Earth and Life Studies, Water Science and Technology Board, Committee on the Assessment of Water Reuse as an Approach for Meeting Future Water Supply Needs**

- 2012 15.1343 *Water reuse : potential for expanding the nation's water supply through reuse of municipal wastewater.* Washington, D.C.: The National Academies Press, 262 pp. [In Chapter 2, "Current State of Water Reuse", see pp. 32-33: "The oldest dual-water system in the United States is located in Grand Canyon Village, Arizona, where less than 1 MGD (3,800 m<sup>3</sup>/d) of disinfected advanced effluent is used for landscape irrigation, toilet flushing, cooling water makeup, vehicle washing, and construction uses when needed" (citing Fleming, 1990, [ITEM NO. 15.571](#), and Okun, 1996, [ITEM NO. 15.1342](#)). (ENTIRE NOTE)]
- 

**U.S. National Transportation Safety Board**

- 1979 15.512 Aircraft accident report; Nevada Airlines, Inc., Martin 404, N40438, Tusayan, Arizona, November [sic] 16, 1979. *U.S. National Transportation Safety Board, Aircraft Accident Report NTSB-AAR-80-7*, 27 pp., map.
- 1981 15.157 Aircraft accident report; Scenic Airlines, Inc., Cessna 404, N2683S, near Grand Canyon National Park Airport, Tusayan, Arizona, July 21, 1980. *U.S. National Transportation Safety Board, Aircraft Accident Report NTSB-AAR-81-2*, 32 pp.
- 1984 15.158 Aircraft accident report; Las Vegas Airlines flight 88 Piper PA-31-350, Grand Canyon, Arizona, August 17, 1983. *U.S. National Transportation Safety Board, Aircraft Accident Report NTSB/AAR-84/05*, 22 pp. (PB84-910405.)
- 1987 15.159 Aircraft accident report; Grand Canyon Airlines, Inc., and Helitech, Inc., midair collision over Grand Canyon National Park, June 18, 1986. *U.S. National Transportation Safety Board, Aircraft Accident Report NTSB/AAR-87/03*, 66 pp. (PB87-910403.)
- 1989 15.513 Aircraft accident report; Grand Canyon Airlines Flight Canyon 5 De Havilland Twin Otter, DHC-6-300, N75GC, Grand Canyon National Park Airport, Tusayan, Arizona, September 27, 1989. *U.S. National Transportation Safety Board, Aircraft Accident Report NTSB/AAR-91/01*, 32 pp. (PB91-910401. 5256A.)
- 1991 15.160 Grand Canyon Airlines flight Canyon 5, De Havilland Twin Otter, DHC-6-300, N75GC, Grand Canyon National Park Airport, Tusayan, Arizona, September 27, 1989. *U.S. National Transportation Safety Board, Aircraft Accident Report NTSB/AAR-91/01*, 32 pp.
- 1995 15.702 *Special investigation report : Safety of the air tour industry in the United States.* Washington, D.C.: U.S. National Transportation Safety Board, 60 pp. (PB95-917004. NTSB/SIR-95/01.) [Includes Grand Canyon.]
- 2004 15.442 LAX01MA272; Eurocopter AS350-B2, N169PA; Meadview, Arizona; August 10, 2001. *U.S. National Transportation Safety Board, Aircraft Accident Brief NTSB/AAB-04/02*, 47 pp.



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

- 2004 15.443 LAX03MA292; Sundance Helicopters, Inc.; Aerospatiale AS350BA, N270SH; near Grand Canyon West Airport, Arizona; September 20, 2003. *U.S. National Transportation Safety Board, Aircraft Accident Brief NTSB/AAB-07/03*, 26 pp.
- 2010 15.574 Highway accident report; bus loss of control and rollover, Dolan Springs, Arizona, January 30, 2009. *U.S. National Transportation Safety Board, Highway Accident Report 10/01* (PB2010-916201, Notation 8092A), 66 pp.
- 2013 15.698 Loss of control; Sundance Helicopters, Inc. Eurocopter AS350-B2, N37SH, near Las Vegas, Nevada, December 7, 2011. *U.S. National Transportation Safety Board, Aviation Accident Report NTSB/AAR-13/01* (PB2013-103890), 43 pp. [Crash in Nevada near Hoover Dam.]

**U.S. National Weather Service**

- 1999 15.750 *NOAA weather radio . . . the voice of the National Weather Service. May 1999.* [No place]: U.S. National Oceanic and Atmospheric Administration, [8] pp. [Lists frequencies of informational and emergency radio. Includes “Grand Canyon (Hopi Point)” and Yuma.] [Ellipsis is part of title. Cover also includes the imprints of U.S. Federal Emergency Management Agency, and American Red Cross.] [Other issues as well.]
- 2019 15.1093 *All Hazards NOAA Weather Radio : NOAA’s National Weather Service : the voice of NOAA’s National Weather Service : over 1000 transmitters.* [No place]: U.S. National Oceanic and Atmospheric Administration, folded brochure. (NOAA/POA 94062. Rev October 2019.) [Other issues as well.] [Listings of transmitters nationwide, with broadcasting frequencies.]

**U.S. Public Health Service**

- 1973 15.161 Outbreak of *Shigella sonnei* on Colorado River raft trips; final report. *U.S. Public Health Service, Center for Disease Control, Report EPI-73-11-2.*  
 ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 2: page 94](#) | [CITED» GCNHA Monograph 8: page 4-29](#)

**U.S. Public Health Service, Indian Health Service**

- 2004 15.953 *The Sanitation Facilities Construction Program of the Indian Health Service : Public Law 86-121 : Annual Report for 2004.* Rockville, Maryland: U.S. Department of Health and Human Services, Indian Health Service, Office of Environmental Health and Engineering, Division of Sanitation Facilities Construction, 39 pp. [See p. 12, “Supai Village Water System Improvements, Havasupai Indian Reservation, Arizona”.]

**U.S. Senate, Committee on the Judiciary**

- 2004 15.674 *An overview of the Radiation Exposure Compensation Program. Hearing before the Committee on the Judiciary, United States Senate, One Hundred Eighth Congress, Second Session. July 21, 2004. Serial No. J-109-90.* Washington, D.C.: U.S. Government Printing Office, 84 pp. [Radiation Exposure Compensation Act (RECA) program summary. See p. 54, note of benefits available to “Downwinders” from Nevada Test Site. Includes Arizona Strip region.]



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

---

V

**Valentine, Barry J.**

- 1997 15.552 Revisions to digital flight data recorder rules. *Federal Register*, 62(137) (July 17): 38362-38403. [Grand Canyon Airlines, Inc., noticed p. 38367.]

---

**Veatch, N. T.**

- 1948 15.1025 Industrial uses of reclaimed sewage effluents. *Sewage Works Journal*, 20(1) (January): 3-11. [See "Grand Canyon, Ariz.", p. 6.] [See also Discussion by Goudey, pp. 13-14.]

---

**Vellacott, Oliver**

- 2011 15.906 A successful partnership; exploring the benefits, application and technology of IP video surveillance. *Security Products* (Chatsworth, California), 15(3) (March): 88-89, 92. [See p. 92 regarding a distributed IP video system installed at the Grand Canyon Skywalk, Hualapai Indian Reservation.] [Internet Protocol.]
- 2011 15.907 Vigilancia con vídeo IP y redes inalámbricas: una combinación llena de ventajas. *Seguritecnia* (Madrid), (373) (March): 80-83. [See p. 82 regarding a distributed IP video system installed at the Grand Canyon Skywalk, Hualapai Indian Reservation.] [Internet Protocol.] [In Spanish.]

---

**Velush, Lukas**

- 1997 15.162 Why are we getting dumped on? Not even the canyon safe from litterbugs. *Flare* (Arizona Daily Sun), (July 8): A4.

---

**Vernères, Frédéric**

- 2020 15.1168 Breaking News [SECTION]. *Helicopter Industry* (Toussus-le-Noble, France), 2020(3)(101): 6-31. [See "Maverick Helicopters announced CRFS retrofit for its entire EC130 B4 fleet. Maverick Helicopters annonce la modernisation du système de carburant pour l'ensemble de sa flotte EC130B4" (p. 24). Regarding installation of Crash Resistant Fuel System in the firm's entire fleet of 34 EC130 B4 helicopters, including those in use on Grand Canyon flights.] [In parallel English and French texts.]

---

**Viera, Meg**

- 2003 15.320 Back of the Boat—The Whale Foundation News Bulletin. *Boatman's Quarterly Review*, 16(4) (Winter): 9.

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Vigneron, Peter**

- 2015 15.1020 Bodywork: A little something for the pain. *Outside*, (November): 54, 56. [See sidebar, "Cramp On, Cramp Off; An Abbreviated History of Battling the Charley Horse", which notes briefly a 1930s study of heat effects on Hoover Dam workers.] [NOTE: The sidebar title is a play on the phrase, "Clap On, Clap Off", a contemporary commercial advertising gimmick for a device by which electrical appliances (specifically, lights) could be turned on or off in proximity by clapping one's hands twice.]

W

**W., B.**

- 1999 15.163 It's easier to scout. *In*: How hard is it? and related topics; running the "Grand" [FEATURE]. *The Waiting List* (Grand Canyon Private Boaters Association), 3(1) (February): 18.

**Wachenheim, Frederick L.**

- 1907 15.631 *The climatic treatment of children*. New York: Rebman Co., 400 pp. [See "The Southwest", pp. 161-163, which notes (p. 162) Yuma, *in passing*, and "Prescott offers fair accommodations, and there is now a good hotel at the edge of the Grand Cañon; most of this fine district, however, is for the present undeveloped." (ENTIRE NOTE) Refer also to Chart IV (facing p. 138), "Topographical Map of North America. Rain Intensity", which labels "Colorado Valley".] [NOTE: "Topography" noted only by the names of physical features.]

**Walburger, Matt**

- 2008 15.417 U.S. Public Health Service in the Grand Canyon. *Boatman's Quarterly Review*, 21(3) (Fall): 8.

**Waldman, Jon**

- 2002 15.261 When nature calls in the Tetons, don't follow your instincts. *High Country News*, 34(16) (September 2): 16. [Includes notes of Grand Canyon and Colorado River.]

**Walton-Day, Katherine, AND Naftz, D.**

- 2015 15.859 Variation in surface gamma radiation around breccia-pipe uranium deposits before, during, and after mining in the Grand Canyon, Arizona region [ABSTRACT]. *In*: *13th Biennial Conference of Science and Management on the Colorado Plateau and*

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

*Southwest Region, October 5-8, 2015, Northern Arizona University, High Country Conference Center : oral and poster abstracts, pp. 88-89.*

**Walton-Day, Katherine; Duniway, Michael C.; AND Hinck, Jo Ellen**

- 2022 15.1302 Flux and metal concentrations in dust collected across the mine life cycle at breccia-pipe uranium deposits, northern Arizona, USA [ABSTRACT]. *In: 16th Biennial Conference of Science and Management for the Colorado Plateau and Southwest Region, September 12-15, 2022, High Country Conference Center, Northern Arizona University, Flagstaff, Arizona, p. 193.*

**Walton-Day, Katherine; Hinck, Jo Ellen; Cleveland, Danielle; Duniway, Michael C.; AND Campbell, Kate M.**

- 2021 15.1220 Studies of potential human-health effects from breccia-pipe uranium mining in the Grand Canyon region, USA [ABSTRACT]. *Geological Society of America, Abstracts with Programs, 53(6): Abstract 134-7, doi:10.1130/abs/2021AM-367974.*

**Walton-Day, Katherine; Hinck, Jo Ellen; Siebers, Benjamin J.; Campbell, Kate M.; Croteau, Marie-Noele; Welch, Eric; Schuster, Rudy; AND Michalegko, Lesley F.**

- 2021 15.1221 Innovative geoscience/society engagement—using art and social science to improve communication of the environmental effects of mining [ABSTRACT]. *Geological Society of America, Abstracts with Programs, 53(6): Abstract 201-12, doi:10.1130/abs/2021AM-367906. [Uranium mining in the Grand Canyon region.]*

**Walton-Day, Katherine; Naftz, D.; Bern, C. R.; AND Duniway, M.**

- 2017 15.990 Variations in soil-trace element concentrations and gamma radiation at breccia pipe uranium mines during the mining-life cycle [ABSTRACT]. *In: 14th Biennial Conference of Science and Management for the Colorado Plateau and Southwest Region, September 11-14, 2017, High Country Conference Center, Northern Arizona University, Flagstaff, Arizona. [No imprint], pp. 174-175. [Canyon Mine, Pinenut Mine, Kanab North Mine.]*

**Ward, Gerald M., AND Whicker, F. Ward**

- 1987 15.665 *Milk production and distribution in nine western states in the 1950s.* Fort Collins, Colorado: Colorado State University, for U.S. Department of Energy, Nevada Operations Office, Las Vegas, and Lawrence Livermore National Laboratory, Livermore, California, 64 pp. (UCRL-15907. NVO-312. DE87 009744.) [Pertaining to fallout from nuclear testing. Study includes regions north and west of Grand Canyon.]

**Ward, Whitney; Park, Logan; AND Coulson, Evan**

- 2011 15.720 Economic impacts of search-and-rescue operations on wilderness management in the national parks. *Park Science* (U.S. National Park Service), 28(3) (Winter 2011/2012): 103-105. [Grand Canyon, p. 104.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Warren, Ronald L. [Warren, Ron]**

- |      |        |   |
|------|--------|---|
| 1993 | 15.164 | Toll restricted. <i>Grand Canyon Pioneers Society, Newsletter</i> , 4(8): 5. [Telephones at Red Butte and Tusayan, and 1956 air crash in Canyon.] |
| 1994 | 15.165 | [Letter regarding 1956 air crash.] <i>Grand Canyon Pioneers Society, Newsletter</i> , 5(5): 7-8.  |
- 

**Webb, Michelle**

- |      |         |  |
|------|---------|--|
| 2016 | 15.1013 | Bridging the gap. <i>Journal of Registry Management</i> (National Cancer Registrars Association, Alexandria, Virginia), 43(2) (Summer): 106-107. [Item begins with personal remarks on observing stenciled signs on the wall of the Mike O’Callaghan-Pat Tillman Memorial Bridge at Hoover Dam, “Danger: Keep off the wall”, above the 726-foot drop.] |
|------|---------|--|
- 

**Webb, Roy**

- |      |        |   |
|------|--------|---|
| 2002 | 15.248 | The poo song. <i>The Confluence</i> (Colorado Plateau River Guides), (25) (February): 20. |
|------|--------|---|
- 

**Weber, Dani**

- |      |         |   |
|------|---------|---|
| 2019 | 15.1139 | ADOT firefighters train to put out aircraft fires. <i>The Inside Lane</i> (Arizona Department of Transportation), 3(10) (May): 3. [Grand Canyon National Park Airport.] |
|------|---------|---|
- 

**Wenrich, Karen**

- |      |         |   |
|------|---------|---|
| 2009 | 15.1230 | Statement of Dr. Karen Wenrich, Research Geologist, U.S. Geological Survey, retired, Golden, Colorado. <i>In: H. R. 644, Grand Canyon Watersheds Protection Act of 2009 : legislative hearing before the Subcommittee on National Parks, Forests and Public Lands of the Committee on Natural Resources, U.S. House of Representatives, One Hundred Eleventh Congress, First Session : Tuesday, July 21, 2009 : Serial No. 111-27.</i> Washington, D.C.: U.S. Government Printing Office, pp. 50-58. [Includes remarks on human safety due to uranium pollution of groundwaters.] |
|------|---------|---|
- 

**Werfelman, Linda**

- |      |        |   |
|------|--------|---|
| 2008 | 15.450 | An “E-ticket” ride; NTSB recommendations—issued after a canyon helicopter crash that killed seven people—aim to discourage “aggressive flying.” <i>Aerosafety World</i> (Flight Safety Foundation), (January): 32-35. [Based on National Transportation and Safety Board accident brief LAX03MA292 (see U.S. National Transportation and Safety Board, 2004, <i>ITEM NO.</i> 15.443) and other documents.] [NOTE: The “E’ ticket” was the priciest coupon in a popularity/novelty rating scheme among attractions at Disneyland and Magic Kingdom theme parks.] |
| 2008 | 15.510 | Hydraulic failings. <i>Aerosafety World</i> (Flight Safety Foundation), (November): 30-32.  |
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Werth, Dave**

- 2005 15.362 Proper use of lye. *In*: Stephenson, R. J. (ed.), Grand groover chronicles; how's it going? [FEATURE]. *The Waiting List*, 7(2) (Winter): 52-53.
- 

**West, Patty; Mead, John; English, Karan; AND Stuckey, Matt**

- 2009 15.668 *Havasu Creek watershed scoping project final report*. [No place]: Northern Arizona University, Institute for Tribal Environmental Professionals; Arizona Water Institute; and Ecological Monitoring Assessment Program and Foundation, 40 pp. [Flash flood response.]
- 

**Western River Adventures**

- 1999 15.176 A note from Western August 31, 1999 / in response Fredonia, AZ. *In*: Newswire quarterly review. *The Waiting List* (Grand Canyon Private Boaters Association), 3(4) (December): 23. [Response to report originally distributed electronically via *gcpba Newswire*, August 21, 1999 (see under *gcpba Newswire*).]
- 

**Western River Expeditions, AND Moab Adventure Center**

- 2020 15.1155 *COVID-19 mitigation and operations plan*. [No place]: Western River Expeditions, and Moab Adventure Center, 12 pp. [Includes Colorado River trips in Grand Canyon.]
- 

**White, David L.; Googins, John A.; Fukushima, Taira; Hotchkiss, Philip M.; [AND laboratories]**

- 1973 15.802 Follow-up on relapsing fever—Arizona. *Morbidity and Mortality Weekly Report* (U.S. Public Health Service), 22(30) (July 28): 256. [Follow-up to Luckey *et al.* (1973, [ITEM NO. 15.801](#)).] [North Rim, Grand Canyon.]
- 

**White, Gerald F.**

- 1956 15.1198 Statement of Gerald F. White, Office of the General Counsel, Civil Aeronautics Administration, Washington, D. C. *In*: *Airspace use study : hearings before a subcommittee of the Committee on Interstate and Foreign Commerce, House of Representatives, Eighty-fourth Congress, Second Session, on use of airspace : July 7, 18, September 11, 12, and 13, 1956*. Washington, D.C.: U.S. Government Printing Office, pp. 48-50. [Relating to the 1956 Grand Canyon air crash.]
- 

**Whiting, Hal**

- 2009 15.833 [Amateur radio used for remote-area accident response, Poverty Mountain area, Arizona Strip.] *Dixie Amateur Radio Club Newsletter* (St. George, Utah), (April): [1].
-

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Wild, M. A.; Wong, D.; Higgins, C.; Powers, J. G.; Spraker, T. R.; Perez, E.; Mead, P.; AND Chanlongbutra, A.**

- 2008 15.794 Improving guidance for safe handling of wildlife: Insights from a wildlife biologist's death [ABSTRACT]. *In: 57th Annual International Conference of the Wildlife Disease Association : Wildlife Diseases: Northern and Western Frontiers, Official Program and Abstracts, Edmonton, Alberta[,] Canada, August 3-8, 2008*, p. 23. [Regarding "plague-associated death of a wildlife biologist at Grand Canyon National Park, Arizona, in November 2007".]

**Williams, James**

- 2007 15.514 Beyond the \$100 hamburger; flying vacation preparedness. *FAA Aviation News* (U.S. Federal Aviation Administration), 46(3) (May/June): 6-17. [Includes Grand Canyon.]

**Williams, Jason**

- 2016 15.1086 Collaboration with the University of Insubria, Italy; in October of 2015 the University of New Mexico collaborated with the University of Insubria, located in Verase, Italy to hold a joint conference in Albuquerque, NM on Mountain Emergency Medicine with practical sessions held at the Grand Canyon, Arizona. *The Mountain Dispatch* (University of New Mexico, International Mountain Medicine Center, Albuquerque), (Summer): 6-8.

**Willcox, R. R.**

- 1976 15.548 "The Biology of the Parasitic Spirochaetes", edited by Russell C. Johnson. *In: Book Reviews [SECTION]. British Journal of Venereal Diseases*, 52: 357. [". . . if promiscuous sex should be eschewed or approached warily to prevent syphilis, so should, by inference, the healthy alternatives of swimming in open water—which until recently was responsible for almost every outbreak of leptospirosis in the U.S.A.—and scouting; as recent outbreaks of relapsing fever there have involved individuals camping in log cabins on the North Rim of the Grand Canyon in Arizona!" (ENTIRE NOTE) (Reviewer's remark, apparently; statement does not appear in the reviewed volume.)]

**Wills, Cathy A.**

- 2004 15.630 *Nevada Test Site environmental report 2003*. (Angela L. McCurdy, technical ed.) Las Vegas: Bechtel Nevada, for U.S. Department of Energy, National Nuclear Security Administration, Nevada Site Office, SEPARATELY PAGINATED SECTIONS [423] pp. total. (DOES/NV/11718-971.) [Includes regional radiation exposure data.]

**Wilson, Dale R.**

- 1999 15.509 Darkness increases risks of flight. *Human Factors and Aviation Medicine* (Flight Safety Foundation), 46(6) (November/December): 1-8. [See p. 6.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

**Wilson, Kelly Poe**

- 2015 15.860 Grand Canyon theory; discovering life’s lack of a safety net. *In*: The Mother Load [SECTION]. *Flagstaff Live!*, 21(41) (October 8-14): 5. [“The Grand Canyon theory is named in honor of those intrepid souls who, despite multiple warnings, and despite all visual clues telling them not to do it, wander up close enough to the edge of the Grand Canyon that they fall into it.”]

**Wilson, Tim**

- 2025 15.1347 “Someone call for a doctor?” Grand Canyon physicians and nurses, 1890-1940. *In*: Spamer, Earle E. (ed.), *Those Who Made a Difference : proceedings of the 6th Grand Canyon History Symposium, Grand Canyon, Arizona, November 1-4, 2023*. Grand Canyon, Arizona: Grand Canyon Conservancy. *In press*.

**[Wirth, Conrad L.]**

- 1957 15.1219 *Annual report of the Director, National Park Service, to the Secretary of the Interior : reprinted from the Annual Report of the Secretary of the Interior for the Fiscal Year ended June 30, 1957*. [No imprint]. [See “Catastrophe” (p. 316), regarding the 1956 air crash in Grand Canyon.]

**Wirtz, Sharon**

- 1974 15.621 Diapered backpackers. *In*: Letters [SECTION]. *Backpacker*, 2(1) (Spring): 11. [Hiking with a nursing baby in Grand Canyon.]

**Wolkomir, Richard, AND Wolkomir, Joyce**

- 2001 15.222 Noise busters. *Smithsonian*, 31(12) (March): 88-98. [See graphic, p. 98.]

**Wong, David; Wild, Margaret A.; Walburger, Matthew A.; Higgins, Charles L.; Callahan, Michael; Czarnecki, Lawrence A.; Lawaczek, Elisabeth W.; Levy, Craig E.; Patterson, J. Gage; Sunenshine, Rebecca; Adem, Patricia; Paddock, Christopher D.; Zaki, Sherif R.; Petersen, Jeannine M.; Schriefer, Martin E.; Eisen, Rebecca J.; Gage, Kenneth L.; Griffith, Kevin S.; Weber, Ingrid B.; Spraker, Terry R.; AND Mead, Paul S.**

- 2009 15.500 Primary pneumonic plague contracted from a mountain lion carcass. *Clinical Infectious Diseases*, 49(3) (August 1): e33-e38. [Grand Canyon incident.]

**Wong, David; Wild, Margaret A.; Walburger, Matthew A.; Higgins, Charles L.; Callahan, Michael; Czarnecki, Lawrence A.; Lawaczek, Elisabeth W.; Levy, Craig E.; Sunenshine, Rebecca; Adem, Patricia; Zaki, Sherif R.; Petersen, Jeannine M.; Schriefer, Martin E.; Eisen, Rebecca J.; Gage, Kenneth L.; Griffith, Kevin S.; Weber, Ingrid; Spraker, Terry R.; AND Mead, Paul S.**

- 2008 15.504 Fatal primary pneumonic plague contracted from a mountain lion carcass [ABSTRACT]. *Symposium on the Ecology of Plague and its Effects on Wildlife : abstracts : Fort Collins, Colorado, November 4-6, 2008*, pp. 42-43. [Grand Canyon incident.]

PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

---

**Woodall, Greg**

2011 15.578 Wilderness Slow Responder—When Tolio goes bad. *Boatman’s Quarterly Review*, 24(1) (Spring): 13.

---

**Woodruff, Slim [Woodruff, Marjorie]**

2021 15.1228 Warning, warning; a brief history of cautionary signage. *The Ol’ Pioneer* (Grand Canyon Historical Society), 32(4) (Fall): 17-18. [Signage at Grand Canyon.]

---

**Wright, Christian**

2023 15.1274 Reflections. *Boatman’s Quarterly Review*, 36(1) (Spring): 8-11. [Reflections on a Grand Canyon drowning incident and responses to this and other emergencies in the canyon.]

---

**Wright, J. William, Jr., AND Silk, Kenneth L.**

1974 15.1141 Acoustic and vestibular defects in lightning survivors. *The Laryngoscope*, 84(8) (August): 1378-1387. [See p. 1385: “Case 6. A 49-year-old male was struck by lightning in June, 1964, while on the edge of the Grand Canyon.”]

---

**Wurgler, James**

1991 15.605 Lessons from wilderness medicine. *In*: Billica, Roger P., Lloyd, Charles W., and Doarn, Charles R. (eds.), Proceedings of the Space Station Freedom Clinical Experiments Seminar. *U.S. National Aeronautics and Space Administration, Conference Publication 10069*, pp. 63-65. [See also pp. 73-74, 90-91.] [Author is based at Grand Canyon Clinic. Presentation is principally about experiences at Yosemite National Park but with Grand Canyon perspectives.]

---

**Wyatt, Bob**

2011 15.612 Surviving the canyon; on the trail to water. *Grand Canyon River Runner*, (12) (Spring): 10-11.

---

Y

**Yannaco, Annamarie, AND Murray, Elizabeth J.**

2002 15.872 (EDS.) The outstanding feat of the ages; *Flying* looks back at the last 75 years of flight. *Flying*, 129(8) (August): 72-76, 78-80, 82-83, 86, 88, 90-92, 94, 96-97, 100, 102-104, 106-110, 112, 114-119. [See p. 108, “1980; Another super King Air”, which



PART 15. HEALTH AND SAFETY IN THE GRAND CANYON–LAKE MEAD REGION

also notes “The arrival of the Cessna 404 Titan [. . .] frequently used by Scenic Airlines for tours to and over the Grand Canyon. One reason was that if one engine quit, the other one would keep pulling a load of 10 people, even on a hot day.” (ENTIRE NOTE)]

**Ye, Zhirui; Eidswick, Jaime; AND Albert, Steve**

- 2008 15.883 *Grand Canyon National Park dynamic message sign/highway advisory radio operations plan*. [Bozeman, Montana]: Montana State University, College of Engineering, Western Transportation Institute, for U.S. National Park Service, Grand Canyon National Park [and] U.S. Federal Lands Highway Division, 44 pp. [See also Eidswick et al. (2009, ITEM NO. 15.882).]

**Yeamans, David**

- 2001 15.228 Critical incident stress syndrome. *The Waiting List* (Grand Canyon Private Boaters Association Quarterly), 5(2) (Summer): 19-21.
- 2006 15.390 Resource protection ideas from our e-list members. *The Waiting List* (Grand Canyon Private Boaters Association), 7(4) (Winter): 36-38.
- 2006 15.392 Winter warm without wood. *The Waiting List* (Grand Canyon Private Boaters Association), 7(4) (Winter): 40.

**Yee, Kandra, AND Iserson, Kenneth V.**

- 2008 15.742 The epidemiology of search and rescue incidents in the Grand Canyon National Park: Are preventive measures making a difference? [ABSTRACT]. *Western Journal of Emergency Medicine*, 9(1) (January): 64-65. [Yes.]

**Yim, Susan**

- 2008 15.409 Thoughts on rafting the canyon. *Grand Canyon River Runner*, (6) (Spring): 12. [Passenger with disability. Right To Risk project.]

**Youngs, Ron**

- 1999 15.166 Question. Where did “1 to 10” scale come from? *In*: How hard is it? and related topics; running the “Grand” [FEATURE]. *The Waiting List* (Grand Canyon Private Boaters Association), 3(1) (February): 19-20. [See also response from Al Holland.]

**Youngs, Yolonda**

- 2019 15.1058 Dangerous ground: A historical geography of hazards and risks in U.S. national parks [ABSTRACT]. *In*: Minckley, Thomas (chair), John Wesley Powell and his legacy on American geography and future in the arid West [SESSION]. *American Association of Geographers, Annual Meeting*. [Accessible online: <https://aag.secure-abstracts.com/AAG%20Annual%20Meeting%202019/abstracts-gallery/17359>.]

## Z

### Zack, S. I.

- 1937 15.1028 Mechanical filtration of effluents. *Sewage Works Journal*, 9(3) (May): 466-475. [See p. 468: "Rapid backwash type filters are installed in small plants for operation on activated sludge effluent at Grand Canyon National Park and Barrington, N. J., but no information is available on performance or frequency of backwashing over any extended period." (ENTIRE NOTE)]
-