



United States Department of Agriculture

Fire Management *today*

JUNE 2021 • VOL. 79 • NO. 2



**Aircraft Dispatching
Subject Index, 2000–2020
Author Index, 1970–2020**



Fire Management *today*

Fire Management Today is published by the Forest Service, an agency in the U.S. Department of Agriculture, Washington, DC. The purpose of *Fire Management Today* is to share information related to wildland fire management for the benefit of the wildland fire community. *Fire Management Today* is available online at <https://www.fs.usda.gov/managing-land/fire/fire-management-today>.

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JUNE 2021 • VOL. 79 • NO. 2



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On the Cover:
Retardant drop on the 2016 Cedar Fire, Sequoia National Forest, California. Photo: Lance Cheung, USDA Forest Service.

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**Firefighter
and public
safety is
our first
priority.**

**GUIDELINES
for Contributors**



ANCHOR POINT

The (Unprecedented) 2020 Fire Year—What's Next?

In a recent virtual meeting, a colleague reported that her office had stopped using the word “unprecedented” when discussing 2020. She explained that the term was used every day, but then the next day would dawn and something even more “unprecedented” would occur, canceling the previous day’s uniqueness.

My colleague did a perfect job of describing the world I’ve found myself in for the better part of 2020. I suspect you’ve been living your version of the same. Because we’ve been so overwhelmingly busy at work (and home), it’s hard to keep track of the records set (so far).

We realized in early September that we were moving into record territory in terms of National Forest System acres burned. Some digging confirmed that 2020 was going to be second only to 1910 in the record books. As we made our way through December, we found that, in fact, 2020 set the record at 4.9 million acres (2.0 million ha) of National Forest System lands burned. In mid-September, the interagency community hit a record for personnel deployed to large incidents—32,727—which followed the high-water mark 2 weeks earlier for personnel deployed to a single geographic area (13,270, in the Northern California Geographic Area). On October 5, the August Complex in northern California exceeded 1 million acres (400,000 ha) burned. Throughout the fall, the fire year continued in the Great Basin, Southwest, and Rocky Mountain Geographic Areas, places where it long should have been over.

The end of 2020 continued to set new records: nationwide, over 1.7 million acres (700,000 ha) burned from October through November, basically a whole other fire season.

Looking at those numbers and records, I think the normal reaction is to be stunned, exhausted, or maybe both. I know I feel both. I also know that the next challenge awaits us, and the real question is: What do we do in response to 2020?

There is no reason to think another 2020 (or worse) does not await us next year or the year after, so we’ve got to be better prepared.

I think the first thing we do is to capture all we’ve learned in 2020 and make sure that it sticks with us as we move forward. We cannot squander what we figured out on the long path of this past year. Everything from accelerating hygiene, to how we feed people in fire camp, to how we keep resources in a “bubble” to minimize disease transmission, to how we keep records electronically instead of on paper—we have got to hang onto these new tricks.

For example, we figured out how to use support resources virtually. Could this



By **Patty A. Granham**
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help us with our incident management team succession challenges? We’ve heard from crews that they’ve progressed through the season with their best health ever. Wouldn’t it be great to consistently send people home well from an assignment? Muscle memory fashioned over years will push us back into old business practices. We must aggressively resist reverting to our comfort zone.

The second thing we must do is triple-down on work to restore landscapes and safeguard communities. There is no reason to think another 2020 (or worse) does not await us next year or the year after, so we’ve got to be better prepared.

The good news is that a framework for that preparation already exists. In 2010, the interagency fire community initiated the National Cohesive Wildland Fire Management Strategy and finalized it in 2014. The strategy includes three main elements: the restoration and maintenance of fire-resilient landscapes; the creation of fire-adapted communities; and emergency response to wildfires.

In 2020, our fire response was exhaustive. As for the other two components, we definitely have room



ANCHOR POINT

The Cohesive Strategy is as relevant today as ever: this past year offered a heartless reminder that fire knows no boundaries.

for improvement. On the landscape treatment front, the Forest Service estimates that we need to increase the amount of forest management and fuels reduction work done on public lands by two to four times what we've historically accomplished. Meaningful and effective landscape restoration needs to happen and happen rapidly. The third element, fire-adapted communities, relies on actions by State and local governments. How are zoning requirements, local vegetation management ordinances, and building codes contributing to keeping wildfire from moving into or out of the

wildland-urban interface? The Cohesive Strategy equation cannot be balanced until our landscapes and communities see robust change in fire resilience to match efforts in fire response.

The Cohesive Strategy is as relevant today as ever: this past year offered a heartless reminder that fire knows no boundaries. More disturbingly, 2020 also demonstrated that fire no longer follows yesterday's rules. Fire went into neighborhoods, communities, and vineyards; roared into westside Cascade ecosystems; and ravaged private

industrial lands, national parks, and national forests. Tragically, it moved so quickly in some areas that people were killed. This devastating loss demands a new approach to ever-increasing wildfire in the West.

Few people get to experience history in the making, but that is the gift we were given in these past several months. We must now honor that gift by translating our best intentions into effective actions for outcomes that make a lasting difference on the ground. I have no doubt we are ready to meet the next challenge both collectively and courageously because that's the way we rose to meet the challenge of fire year 2020.

In the meantime, I wish you all a chance to catch your breath!

Aircraft Dispatching and Its Challenges

Randall C. Thomas

There is something nostalgic about working with fixed-wing and rotor-wing aircraft. It seems that some aircraft dispatchers want the prestige and challenge of the fire and aviation arena. If you are an aircraft dispatcher in a center that is close to an airport or helibase, the sound of the aircraft engines starting up is very exhilarating. I personally loved to hear the P2V and P-3 Orion airtanker engines starting up. It reminds you of an old World War II movie.

RESPONSIBILITIES

Aircraft dispatchers track and communicate with aircraft on a variety of frequencies and follow a long list of regulations and rules. The dispatcher has specialized duties, such as coordinating airspace, assigning frequencies, tracking legal sunset and sunrise times (most agency aircraft can fly only during daylight hours), and closing out flight plans (at times, there are problems confirming that aircraft have actually landed). Temporary flight restrictions, which happen mainly on large incidents, require a controlled airspace.

Randall Thomas is a retired forestry technician for the Forest Service, Idaho Panhandle National Forests, Coeur d'Alene, ID.

During an active operational period, multiple fires can require air support. Decisions need to be made on what incident gets air resources first; often, the decision is based on values at risk or whether the fire is new or rapidly growing. The dispatcher gets help from an initial-attack dispatch floor supervisor, a center manager, or a unit aviation officer.

During an active operational period, multiple fires can require air support.

A dispatch center might have air resources such as type 1 or type 2 helicopters and airtankers. A complicating factor for the aircraft dispatcher is that the geographic area coordination center might direct such aircraft to higher priority fires outside of the dispatcher's airspace. Also, it can be taxing to track pilot duty hours and aircraft maintenance schedules and then to be proactive enough to order the replacement resources needed to continue with aircraft operations on fires. At times, folks might congregate around the aircraft desk making noise, which can be distracting if not annoying for the aircraft dispatcher.

Diverting aircraft can be stressful. When you divert an aircraft that is working on a fire, you need to relay a lot of information, such as:

- New air-to-ground frequencies;
- The air-to-air frequency, tactical frequency, and command frequency;



An aircraft dispatcher on the job in 2011 at the Coeur d'Alene Dispatch Center, Idaho Panhandle National Forests. Photo: Randall C. Thomas, USDA Forest Service.

Maintaining a good sense of humor reflects a strong sense of mental well-being.

- New latitude and longitude coordinates;
- The existence of any aerial hazards, such as other aircraft over the fire, along with their tail numbers or call signs; and
- The name of a contact on the ground for communicating operational information.

Normally, an aircraft receives a paper copy of the information so the pilot can review and confirm it before lifting off for the mission.

These are only a few of the many tasks required of an aircraft dispatcher, all of which need to be accomplished with a high degree of accuracy. As might be expected, events with aircraft happen quickly; errors in communication can quickly escalate

into big mistakes and costly situations. A good knowledge of aircraft operations, rules, and regulations is essential for an aircraft dispatcher.

STRESSFUL SITUATIONS

If you are considering getting into aircraft dispatching, you should be sure you are ready for the challenges you will face and open to criticism of how well you are holding up to the challenge of working with aircraft. Rapidly changing situations and the need to quickly adjust can take a toll on your mental and physical health. High levels of stress can creep up on you and adversely affect your well-being.

Aircraft dispatchers who struggle with unhealthy levels of stress can suffer from depression or feelings of despair. Even with ample aviation

dispatch training and experience, a good dispatcher needs strong mental fortitude and an ability to deal with stress. You should analyze your own capabilities and strengths and be able to pull yourself out of any deep hole you might find yourself in. Maintaining a good sense of humor reflects a strong sense of mental well-being.

I came to the conclusion after years of aircraft dispatching that I needed to step back and focus on certain dispatch functions, such as basic initial-attack dispatching and the logistics of ordering crews, overhead, equipment, and supplies. I needed to do so not only for my own well-being but also for the benefit of my supervisors and coworkers and for the efficiency of fire and aviation operations. With this change, I gained a more positive department, a better attitude, and the ability to function better in my job.

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We'd like to know how your work has been going!

Let us share your success stories from your State fire program or your individual fire department. Let us know how your State Fire Assistance, Volunteer Fire Assistance, Federal Excess Personal Property, or Firefighter Property program has benefited your community. Make your piece as short as 100 words or longer than 2,000 words, whatever it takes to tell your story!


Submit your stories and photographs by email or traditional mail to:

USDA Forest Service
Fire Management Today
201 14th Street, SW
Washington, DC 20250

If you have questions about your submission, you can contact our FMT staff at the email address below.



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The wind-driven Woolsey Fire, ignited in November 2018, burned across almost 100,000 acres (40,000 ha) in southern California, killing 3 people and destroying more than 1,600 structures. Photo: Peter Buschmann, USDA Forest Service.

The Role of *Fire Management Today*

Hutch Brown

Fire Management Today was founded in 1936 by the Forest Service's Division of Fire Control as *Fire Control Notes*, a journal for the wildland fire community. It was the first publication of its kind and the only one in the United States for many years.

The journal came about through a meeting of wildland fire professionals in Spokane, WA. People at the meeting wanted a periodical that would “serve as a medium for exchange of information and ideas between all the groups and individuals who are doing creative work in forest fire control” (Headley 1936). The Forest Service established *Fire Control Notes* on “the assumption that readers will respond with ideas and information to publish.”

Eighty-five years later, the journal still offers an “exchange of information and ideas,” giving wildland fire professionals information they can use and a forum

Got something interesting to share with other wildland fire professionals? Why not put it in print?

for their own ideas and insights. Although other fire-related periodicals are now available, *Fire Management Today* remains unique in three interconnected ways:

1. As an informal clearinghouse of information for wildland fire professionals, without any need for peer review;
2. As an outlet for contributions of any length from anyone interested, ranging from firefighters and fire historians to researchers and technical experts in any fire-related field; and

3. As a consistent source of reliable information published by the Forest Service, a leader in wildland fire management for the Nation.

Reliability demands extensive review, and Government resources are limited. Such constraints can impede publication, particularly in times of transition and stress. For example:

- *Fire Control Notes* suspended publication for 2 years during World War II.
- During a period with no editor in 2015–16, volume 74(4) was never posted online and publication ceased, with no issues published for more than a year.

Hutch Brown is the editor of Fire Management Today and a program specialist for the Forest Service's Office of Communication, Washington Office, Washington, DC.

- The coronavirus pandemic of 2020 interrupted operations, delaying submissions—and opening a window of opportunity for the indexes in this issue.

As occasional editor and sporadic contributor, I have followed the journal for more than 20 years. In

1998, I benefited from a smooth handoff from the previous editor, Donna Paananen, and I soon discovered that the role of editor is key to sustaining the publication. The editor works closely with Fire and Aviation Management staff through the general manager, and I have

enjoyed close working relationships with general managers from April Baily to Kaari Carpenter.

I initially served as editor for almost 8 years. I worked with assistant editors but found that having a single dedicated editor (or “managing editor”) with a personal commitment to the journal is indispensable. Paul Keller picked up as editor where I left off, and he did an excellent job.

After Paul, the role of editor passed through many hands (see the sidebar), sometimes within a single year. Frequent transitions do not create the stability a publication needs, and they ultimately proved unsustainable. The positions of editor and general manager both became vacant in 2015, resulting in more than a year with no issues and a corresponding decline in submissions. One email asked, “Is *Fire Management Today* no longer being published?”

I became editor again in 2017. Since then, I have enjoyed working with authors from various backgrounds in publishing articles of all kinds. As always, the best part has been carefully reading each submission and understanding the thinking behind it. *Fire Management Today* has always offered wonderful learning opportunities for someone like me.

Today, the journal still offers the same unique services it did in 1936 as a forum for an “exchange of information and ideas” among wildland fire professionals. So, if you have something of interest, no matter how short or how long, why not share it? Just click here at firemanagementtoday@fs.fed.us—and you will soon see your name in print!

ACKNOWLEDGMENT

Thanks to Martin E. Alexander for reviewing and improving the article. Marty is the proprietor of Wild Rose Fire Behaviour, Leduc County, AB, Canada; he has been a contributor to *Fire Management Today* and its predecessors since 1974.

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Fire Management Today’s Managing Staff, 1991–2020

Since 1936, the Forest Service journal of wildland fire management has been published by the agency’s Washington Office through the Division of Fire Control, now Fire and Aviation Management (F&AM). The journal’s editor compiles each issue in coordination with the general manager and the director of F&AM.

Number of issues	Year(s)	Editor	General Manager	Director, F&AM
Four	1991	Doris N. Celarier	Francis R. Russ	L.A. Amicarella
Five	1992-93	Donna M. Paananen	Francis R. Russ	Mary Jo Lavin
[no issues]	1994	[vacant]	Francis R. Russ	Mary Jo Lavin
Four	1995	Donna M. Paananen	Francis R. Russ	Mary Jo Lavin
Four	1996	Donna M. Paananen	April J. Baily	Mary Jo Lavin
Four	1997	Donna M. Paananen	April J. Baily	Mary Jo Lavin
Four	1998	Donna M. Paananen/ Hutch Brown	April J. Baily	Mary Jo Lavin
Four	1999	Hutch Brown	April J. Baily	José Cruz
Four	2000	Hutch Brown	April J. Baily	José Cruz
Four	2001	Hutch Brown	April J. Baily	Jerry Williams
Four	2002	Hutch Brown	April J. Baily	Jerry Williams
Four	2003	Hutch Brown	April J. Baily	Jerry Williams
Four	2004	Hutch Brown	April J. Baily	Jerry Williams
Four	2005	Hutch Brown	Melissa Frey	Tom Harbour
Four	2006	Hutch Brown/ Paul Keller	Melissa Frey	Tom Harbour
Three	2007	Paul Keller	Melissa Frey	Tom Harbour
Four	2008	Cindy White/ Melissa Frey	Melissa Frey	Tom Harbour
Four	2009	Karen Mora/ Monique LaPerriere	Melissa Frey	Tom Harbour
Three	2010	Monique LaPerriere	Melissa Frey	Tom Harbour
Four	2011	Monique LaPerriere/ Nelson	Melissa Frey	Tom Harbour
Three	2012	Monique Nelson/ Rick Harroun/ Robert West	Melissa Frey	Tom Harbour
Three	2013	Mary A. Carr	Melissa Frey	Tom Harbour
Three	2014	Mary A. Carr/ Mark Riffe	Melissa Frey	Tom Harbour
Three	2015	Meredith Hollowell/ [vacant]	[vacant]	Tom Harbour
[no issues]	2016	[vacant]	[vacant]	Tom Harbour
Two	2017	Hutch Brown	Kaari Carpenter	Shawna Legarza
Four	2018	Hutch Brown	Kaari Carpenter	Shawna Legarza
Three	2019	Hutch Brown	Kaari Carpenter	Shawna Legarza
Two	2020	Hutch Brown	Kaari Carpenter	Patty Grantham



Jackknife Lookout, Kaniksu National Forest, Idaho. Photo: K.D. Swan, USDA Forest Service (1932).

Indexes for *Fire Management Today*

Hutch Brown

The 20-year subject index in this issue, combined with previous indexes, covers the entire history of *Fire Management Today* from 1936 through 2020.

Since its establishment in 1936 as *Fire Control Notes*, *Fire Management Today* has been a valued source of reliable information on wildland fire management. Beginning in 2019, print publication ceased, with the journal acquiring a new online format. You can find it along with most previous issues at <https://www.fs.usda.gov/managing-land/fire/fire-management-today>. (A notable exception from 2015, never posted online, is volume 74(4), a special issue on smokejumpers.)

To help readers and researchers find articles by author and subject, the journal has frequently published indexes. For example, the first issue

of every volume from 1962 to 1999 contained subject/author indexes for the previous year.

In 2000, I worked with Delvin Bunton (the national fire use program manager for the Forest Service at the time, stationed at the National Interagency Fire Center, Boise, ID) to compile the shorter indexes into something longer and easier to use. We put together subject and author indexes for issues of *Fire Management Today* from 1970 to 1999 (volumes 31–59). You can find the subject index in *Fire Management Today* volume 60(1) at https://www.fs.usda.gov/sites/default/files/legacy_files/fire-management-today/060-1_0.pdf.

We withheld the corresponding author index for posting online; unfortunately, it vanished in 2018 during a Forest Service website redesign.

After 20 years and hundreds of additional articles, it is time for an update. This issue of *Fire Management Today* contains:

- A subject index of articles in all issues from 2000 to 2020 (volumes 60–78); and
- An author index covering the period from 1970 to 2020 (volumes 30–78), recapturing and updating the lost author index.

Hutch Brown is the editor of Fire Management Today and a program specialist for the Forest Service's Office of Communication, Washington Office, Washington, DC.

In addition to the subject index in volume 60(1), the indexes in this issue supplement indexes posted online in *Fire Management Today's* predecessor publication, *Fire Control Notes*:

- Volumes 25–30 (1962–69)—1-year subject/author indexes in the first issue of the subsequent volume;
- Volumes 17–24 (1956–63)—1-year subject/author indexes in the last issue of each volume; and
- Volumes 7–16 (1946–55)—a combined author/subject index (volume 16(4), October 1955), online at https://www.fs.usda.gov/sites/default/files/legacy_files/fire-management-today/016_04.pdf.

Fire Control Notes published two additional issues containing multiyear author/subject indexes. The two unnumbered issues came out, respectively, in 1964 (with indexes covering volumes 17–24 (1956–63)) and July 1970 (with indexes covering volumes 25–30 (1964–69)). Neither issue is posted online on the website for *Fire Management Today*. Libraries might have them, along with the numbered issues missing from the Forest Service website.

Fire Management Today is dedicated to disseminating information of interest to wildland fire professionals. Hopefully, having information on indexes all in one place in this issue will help readers and researchers find what they are looking for.



Fire
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CALL FOR CONTRIBUTORS



Fire Management Today is accepting fire-related contributions! Send in your articles and photographs to be featured in future issues.

Subjects of published material include:

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- Communication
- Cooperation/Partnerships
- Ecological Restoration
- Education
- Equipment and Technology
- Fire Behavior
- Fire Ecology
- Fire Effects
- Fire History
- Fire Use (including Prescribed Fire)
- Fuels Management
- Firefighting Experiences
- Incident Management
- Information Management (including Systems)
- Personnel
- Planning (including Budgeting)
- Preparedness
- Prevention
- Safety
- Suppression
- Training
- Weather
- Wildland–Urban Interface

Contact the editor via email at SM.FS.FireMgtToday@usda.gov.

Fire crew on the 2017 Thomas Fire on the Los Padres National Forest in California. Photo: USDA Forest Service.

Subject Index

Fire Management Today, Volumes 60–78

Hutch Brown

In 2000, Delvin Bunton (the national fire use program manager for the Forest Service, National Interagency Fire Center, Boise, ID) compiled a 30-year subject index for *Fire Management Today* (1970–99). You can find the index in the first issue of volume 60 at https://www.fs.usda.gov/sites/default/files/legacy_files/fire-management-today/060-1_0.pdf.

The subject index below starts where the index in volume 60(1) left off. It covers issues of *Fire Management Today* from 2000 to 2020 (volumes 60–78).

We tried to simplify the index by limiting the headings to major subjects of interest to wildland fire professionals, such as “Fire Behavior” and “Weather.” Most entries fall under only one heading—the main topic of the article—although many are listed under multiple headings. Under each heading, entries are in chronological order from the oldest to the most recent.

Not every heading has a complete list of all relevant articles. For example, many articles written by researchers or based on research results do not appear under “Research,” which is largely limited to articles from issues of *Fire Management*

Today that were explicitly devoted to research and development.

Many readers will be interested in particular wildfires or other incidents. They are listed under “Incidents,” although treatments of historical incidents (such as the Big Blowup of 1910) are also listed under “History,” a catchall heading for historical discussions of all kinds.

We hope the index will help readers find articles of interest. You can find most articles online by volume and issue at <https://www.fs.usda.gov/managing-land/fire/fire-management-today>. We apologize for any errors and oversights, which are likely in any endeavor of this scope.

AMERICAN INDIANS/TRIBAL ISSUES

Introduction to aboriginal fire use in North America. Gerald W. Williams. 60(3): 8–12.

Fire history along the ancient Lolo Trail. Stephen W. Barrett. 60(3): 21–28.

Wildland burning by American Indians in Virginia. Hutch Brown. 60(3): 29–39.

First Peoples first in fire shelter use. Hutch Brown. 60(3): 39.

Reintroducing Indian-type fire: implications for land managers. Gerald W. Williams. 60(3): 40–48.

A burning issue: American Indian fire use on the Mt. Rainier Forest Reserve. Cheryl A. Mack. 63(2): 20–24.

American Indian fire use in the arid West. Gerald W. Williams. 64(3): 10–14.

Blackfeet fire use in battle. Hutch Brown. 64(3): 9.

Fire use during the Great Sioux War. Karl Brauneis. 64(3): 4–9.

American Indian influence on fire regimes in California’s coastal ranges. Jon E. Keeley. 64(3): 15–16.

Rodeo—Chediski: Tribal loss. Paul Keller. 65(1): 10–12.

Reports of American Indian fire use in the East. Hutch Brown. 64(3): 17–22.

Ecological restoration in Montana’s western larch. Hutch Brown. 65(4): 29–35.

American Indian fire use: policy implications of the debate. Hutch Brown. 68(1): 33–39.

Hutch Brown is the editor of Fire Management Today and a program specialist for the Forest Service’s Office of Communication, Washington Office, Washington, DC.

- Communicating about fire with Tribal organizations. Germaine White; Pat McDowell. 69(1): 21–23.
- Supporting cultural uniqueness: the Bureau of Indian Affairs branch of wildland fire management. Robyn Broyles. 70(2): 19–23.
- Working with American Indian Tribes on wildland fires: protecting cultural heritage sites in northwestern California. Frank K. Lake. 71(3): 14–21.
- Forest Service coordinated Tribal climate change research project. Linda E. Kruger; Kathy Lynn. 74(3): 19–21.

AVIATION

- Where are we taking wildland fire management? Interview with José Cruz. 60(2): 10–16.
- Are helibuckets scooping more than just water? Justin Jimenez; Timothy A. Burton. 61(1): 34–36.
- Fighting the Pumpkin Fire—indirect attack and aerial ignition. Allen Farnsworth. 61(4): 34–38.
- Before helicopters: Blimps for wildland firefighting? Hutch Brown. 61(4): 50.
- Coming soon: gum-thickened fire retardants. Charles W. George. 62(2): 34–35.
- Accelerated aviation training. Erich J. Schwab. 62(2): 38.
- Bullets to buckets: Florida's new helicopter. Sylvia Melvin. 62(4): 53–54.
- A unique aviation tool for firefighting. Jill Evans. 62(4): 55–56.
- Vortex turbulence—its effect on fire behavior. James B. Davis; Craig C. Chandler. 64(1): 45–48.
- Air tanker vortex turbulence—revisited. Donald A. Haines. 64(1): 64–65.
- Safety alert: Watch out for aircraft turbulence! Billy Bennett. 64(1): 86–87.
- The humble beginnings of aircraft in the Forest Service. Melissa Frey. 67(2): 6–9.
- Meet the “other” airborne wildland firefighters. Tim Lynch. 67(2): 10–15.
- Rappelling with helmet-cam—photo feature. Ben Croft. 67(2): 16–17.



Heavy helicopter drops fire retardant on the Happy Camp Complex Fire on the 2014 Klamath National Forest in California. Photo: Kari Greer, USDA Forest Service.

- The man who gave smokejumping its name. Ken Frederick; Doug Frederick. 67(2): 18–20.
- Cobra attack helicopters retooled to fight fire. Stan Kubota. 67(2): 21–23.
- The latest on the evolution of chemical fire suppression—water enhancers eyed for the future. Lester Holsapple; Tory Henderson. 67(2): 24–26.
- 747 jet “supertanker” hopes to see suppression action. 67(2): 27–28.
- Implementing management systems for aviation safety. Ron G. Hanks. 71(1): 28–32.
- Success story: Colorado State Forest Service wildland fire fleet always ready. Ryan Lockwood. 71(2): 40–42.
- Environmental impact statement for aerial fire retardant application on national forests and grasslands. 71(2): 29.
- Aircraft fuel tender converted into attack pumper for local firefighting. Eric Ward. 71(3): 23.
- Trial by wildfire: MAFFS II proves effective during the 2011 fire season. Jennifer Jones. 72(1): 29–34.

- Aviation safety in a high-traffic operation. Jami Anzalone. 72(1): 35–37.
- Redirect that load! Randall C. Thomas. 76(2): 5–6.
- My great encounter with the aviator. Randall C. Thomas. 77(3): 59–60.
- The fourth-tier dispatcher: a personal perspective. Randall C. Thomas. 78(2): 32–33.

AWARDS

- Twelve Smokey Awards presented in 1998. Doris Nance. 60(2): 36–40.
- Franklin Awards honor achievements in State and local cooperation. April J. Baily. 60(4): 29–32.
- Fifteen Smokey Awards presented for 1999. Dianne Daley Laursen. 60(4): 33–37.
- First annual photo contest. Hutch Brown. 60(4): 38–41.
- Are helibuckets scooping more than just water? Justin Jimenez; Timothy A. Burton. 61(1): 34–36.

Indiana man recognized for 42 years of volunteer service. Teena Ligman. 61(1): 37–38.

Six National Fire Use Awards presented for 1998 and 1999. Dave Bunnell. 61(4): 39–44.

First annual photo contest (correction). 61(4): 48–49.

Smokey Awards presented for 2000 and 2001. Dianne Daley Laursen. 62(2): 44–48.

Photo contest 2001. Hutch Brown. 63(1): 24–32.

Franklin Awards for achievements in cooperative fire protection. April J. Baily. 63(2): 45–49.

Fire Management Today announces winners of 2003 photo contest. Madelyn Dillon. 63(4): 85–89.

Fifth annual Franklin Awards ceremony. April Baily. 64(3): 39–40.

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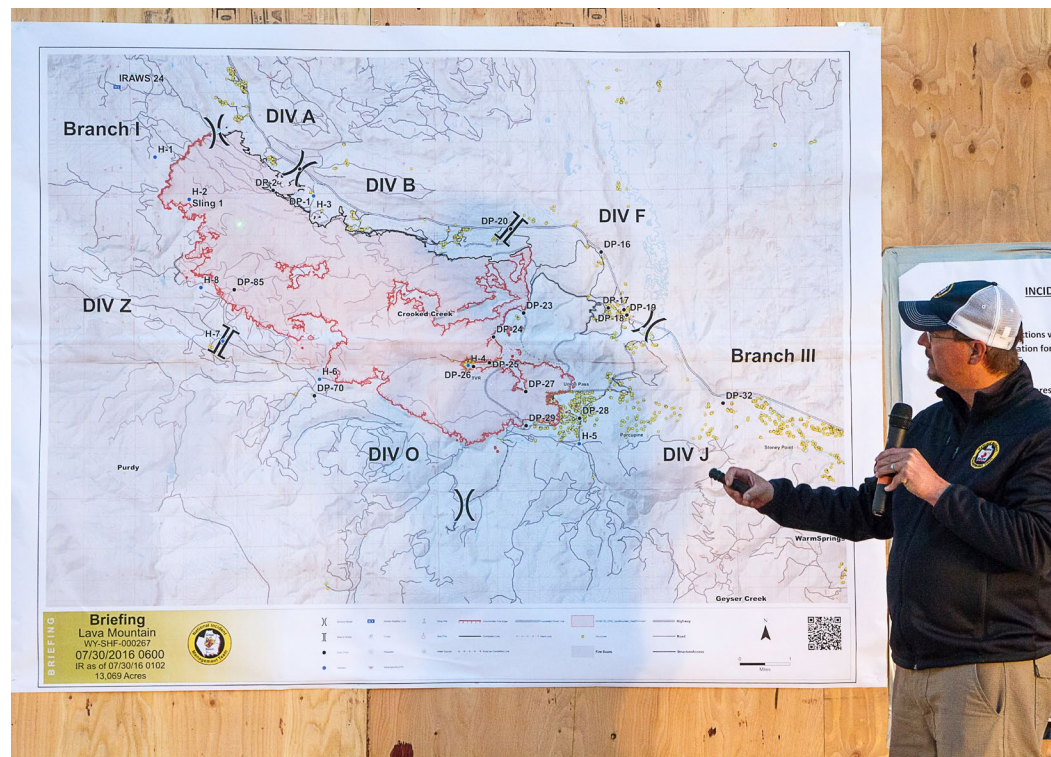
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Smokey Bear exhibit for the Kaibab National Forest in Williams, AZ. Photo: Dyan Bone, USDA Forest Service.

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Smokejumpers in action near Redmond, OR. Photo: Cole Barash, USDA Forest Service.

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Spot fires in the wildland–urban face, part of the 2018 Taylor Creek and Klondike Fires on the Rogue River–Siskiyou National Forest in Oregon. Photo: Kari Greer, USDA Forest Service

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Author Index

Fire Management Today, Volumes 31–78

Hutch Brown

In 2000, *Fire Management Today* (newly renamed from *Fire Management Notes*) published a 30-year author index for the journal (1970–99) that became searchable online. The index, updated every year, was lost during a Forest Service website redesign in the late 2010s.

The author index below recaptures the lost index and updates it, reflecting all issues of *Fire Management Today* and its predecessors from 1970 to 2020 (volumes 31–78). The index is in alphabetical order by author last name (or first author last name, for articles with multiple authors). The articles under each author (or first author) are listed by volume and issue in chronological order, from oldest to most recent. All issues are numbered except for the special issue for Smokey's 50th Birthday in 1994, which appears as "S" (53–54(S)).

Some articles were reprinted in later editions of *Fire Management Today*. The reprints are shown for each author, so you might see what look like repetitions.

Some authors were prolific, especially Martin E. Alexander, a wildland fire

professional and longstanding supporter of *Fire Management Today*. Renowned fire historian Stephen J. Pyne graced these pages with submissions in his own inimitable style. Many of those involved in producing the journal published articles in their own areas of interest, including general manager Francis R. Russ and editors Paul Keller and Donna Paananen. Smokey program managers such as Gladys Daines also submitted multiple articles, as did former Forest Service historian Gerald W. Williams, not to be confused with former Director of Fire and Aviation Management Jerry Williams, another prolific writer.

Tom Harbour stands out for the number of his articles (more than 30), including many insightful pieces on the history and policy of wildland fire management. As the Forest Service's Washington Office Director of Fire and Aviation Management from 2005 to 2017, Tom inaugurated the "Anchor Point" leadoff pieces for the journal, which continue to this day.

Many editors published short articles of interest without naming an author,

"An outpouring of support to emergency personnel has made the long shifts away from family a little bit better. Our firefighters thank the community for caring so much." A thank-you message for firefighters on the Carr Fire near Redding, CA, in July/August 2018. Photo: Olivia Rahman, USDA Forest Service.

even when they wrote the pieces themselves. Such pieces are shown at the end under "No author." (Not included are past subject/author indexes and short items of little lasting interest, such as product warnings and descriptions of fire-related books, films, manuals, and websites that might now be out of date.)

The index is searchable by name and key word. You can also click on a letter below to skip down to the author last names beginning with that letter. You can access most articles online by volume and issue at <https://www.fs.usda.gov/managing-land/fire/fire-management-today>.

We hope you find the index useful. If feasible, the Forest Service will also separately post the author index online in a searchable format.

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- Fire Management Today* photo contest results. 74(1): 43–47.
- Rangeland fire protection associations are helping with rangeland fire suppression. 74(2): 7.
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- Six Minutes for Safety: this day in history—Cramer Fire, 22 July 2003. 77(3): 57–58.
- Special newsletter on Forest Service fire-related research. 78(2): 37.



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