



Western Society of Weed Science Newsletter

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SUMMMER 2019

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President's Report - by Pat Clay

The WSWs Board of Directors met on August 7 near Denver, Colorado. While not at the site of the 2020 Joint Meeting with WSSA in Maui, we did have the opportunity to discuss the outline of the program. Thanks to Eric Gustafson for putting together the meeting and working with the hotel staff to ensure that every detail was covered. Corey Ransom has developed a great working relationship with Bill Curran (WSSA Program Chair). Corey and Bill have been working together to put together a great meeting while preserving many of the components that you have come to expect from a WSWs Annual Meeting. Please be on the look out for the call for papers as well as information on booking your hotel stay (at the conference hotel please) in the near future.

Time for elections are fast approaching. Jane Mangold and the nominations committee have been hard at work putting together a slate of officers for our election. Please be on the lookout for candidate profiles and voting information early this fall. We will be electing: President Elect, Secretary, Research Section Chair, and Education and Regulatory Section Chair positions this year. With officer election in mind, at the 2020 Annual Meeting, you will also be seeing a proposal to add an elected Treasurer position to the Board of Directors. This will require a vote of the membership to make a change to our Constitution. Primary duties of the Treasurer position are to 1) Provide oversight of the Business Manager related to the financial transactions of the Society and serves as Chairperson of the Finance Committee 2) Schedules quarterly meetings or teleconference calls with the Finance Committee and the Business Manager to review financial transactions of the Society, 3) Provides a financial report to the Board of Directors prior to the summer Board meeting an prior to the annual meeting. Thank you to Phil

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WSWS Annual Meeting March 2-5, 2020 Maui, Hawaii

President's Report – CONTINUED FROM PAGE 1

Banks and the Finance Committee for developing the position description as well as suggested changes to the Constitution and Operating Guide.

In the category of the most fun I have had on the job so far, I had the opportunity to attend the North American Weed Science Contest in Champaign, Illinois. 248 students representing 63 Graduate and Undergraduate teams from the U.S. and Canada competed in the event. While there were a number of teams from WSWS member states; Kansas State University (1st), University of Wyoming (2nd), and University of California Davis (3rd) competed as part of the Western Regional Competition. Overall high scoring individuals from the WSWS were: 1. Hannah Kuhns (University of Wyoming), 2. Steve Haring (UC-Davis), and 3. Tyler Meyeres (Kansas State University). For the individual event winners; Problem Solving/Farmer Problem – Katie Martin (UC-Davis); Team Calibration – Kansas State University; Unknown Herbicide – Isaac Effertz (Kansas State University); Weed Identification - Lindsey Gastler (Kansas State University); and Written Calibration Exam – Steve Haring (UC-Davis). Additionally, Steve Haring (UC Davis) was awarded overall high score for the national competition for the written calibration event. Congratulations to all the students that participated in the weed contest, it was a pleasure to interact with you in Illinois!

2020 Annual Meeting

Corey Ransom, Program Chair

I am excited to invite you to attend the 2020 joint Western Society of Weed Science (WSWS) and Weed Science Society of America (WSSA) Annual Meeting at the Hyatt Regency Maui Resort and Spa in Lahaina, Hawaii. This venue is located on 40 acres of oceanfront on Maui's Ka'anapali Beach offering a number of activities including great beaches and numerous water sports, spa/fitness center, access to oceanfront golf, stargazing, and much more. Pre-conference events are being organized that potentially include whale watching and a tour of Haleakala National Park. Details on meeting registration, hotel pricing and reservations, and travel options will be forthcoming.

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2020 Annual Meeting Report – CONTINUED FROM PAGE 2

The meeting will commence with the combined General Session and WSSA/WSWS Awards Ceremony on Monday, March 2, 2020 at 4:00 PM and conclude around noon on Thursday, March 5. The program will include five excellent symposia in addition to contributed papers. The abstract submission site will open November 4, 2019 and abstract title and author information must be submitted by January 6, 2020 to be considered. A joint WSWS/WSSA call for papers with complete details will also be forthcoming.

Please plan on bringing your students as they will have the opportunity to participate in student poster and oral presentation contests, a new Three-Minute Thesis Research Communication Competition (3MT™), and a facilitated “Student Night Out”.

This promises to be an excellent venue and a wonderful meeting. We hope to see all of you in beautiful Hawaii.

Student Liaison Report

Lucas Bobadilla

Greetings Students,

Last week the WSWS Board held its annual summer meeting at Blackhawk, Colorado to prepare this great meeting to come in Hawaii. I want to thank everyone who took the time to complete the student survey. Providing feedback about the last meetings is essential to the board, and it is one of the ways that we maintain involvement as student members of the society. I want to remind everyone that board reports are posted on the WSWS web site under the society tab.

The society is also looking for a student representative on the ‘herbicide-resistant plants’ committee. If you are interested in participating on it let me or Mirella know about it. This is a great chance to be part of the society and create a link with many other weed scientists! Please, also contact Dr. Caio Brunharo from Oregon State University if you have any questions about this committee.

I encourage everyone to apply for the Elena Sanchez Memorial Outstanding Student Scholarship. This scholarship awards three students, graduate or undergraduate, a \$1,000 award. This money can

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Student Liaison Report – CONTINUED FROM PAGE 3

be put toward research costs, awarded as a stipend, or used to cover travel costs to the WSWS annual meeting. We had several applicants last year, let's do our best to keep this up and show that we, as students are taking advantage of this opportunity. Information on the application process can be found on the WSWS students (@WSWSstudents) Twitter and Facebook accounts and also in the student resources webpage (<https://www.wsweedscience.org/student-site/>). **The scholarship application deadline is October 1st.** This deadline can rapidly approach if you are busy with your research! Please plan to complete the application and encourage other students you know to do so.

For our non-student society members, we also created a GoFundMe campaign to gather monetary donations for the Elena Sanchez Memorial Outstanding Student Scholarship. Your help is really important to achieve our goal and provide this scholarship to our students! To access and donate access to the following link: <http://tiny.cc/jsiabz>

As our annual meeting nears, I am looking forward to seeing many applications for this scholarship and also to see many of you in Hawaii showing the fantastic research that the western students have been doing! Please keep an eye out for emails, twitter, and Facebook messages about meeting information and upcoming deadlines. Please don't hesitate to contact Mirella or myself with any questions or concerns.

Best regards,

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Publications

WSWS ONLINE EDUCATION
<http://passel.unl.edu/pages/index2col.php?category=weedscience#>

WSSA Journals Website Online
www.wssa.net/publications/

CALENDAR OF EVENTS

Canadian Weed Science Society Annual Meeting

Nov. 18-21, 2019

Kelowna, British Columbia
www.weedscience.ca

North Central Weed Science Society Meeting

Dec. 10-13, 2019

Columbus, Ohio
www.ncwss.org

Northeastern Weed Science Society Annual Meeting

Jan. 6-9, 2020

Philadelphia, Pennsylvania
www.newss.org

Southern Weed Science Society Annual Meeting

Jan. 26 -30, 2020

Biloxi, Mississippi
www.swss.org

Weed Science Society of America and the Western Society of Weed Science Joint Annual Meeting

Mar. 2- 5, 2020

Maui, Hawaii
www.wssa.net
www.wsweedscience.org

8th International Weed Science Congress

June 21- 26, 2020

Bangkok, Thailand
www.iwsc2020.com

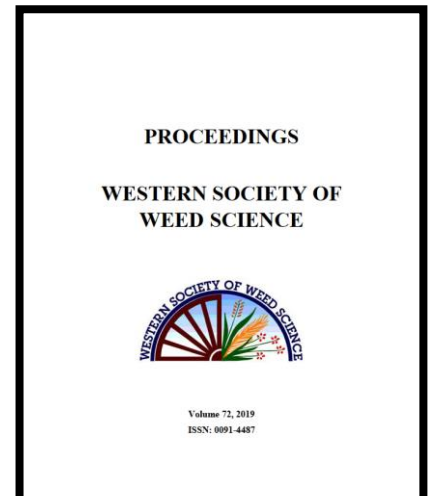
Rita Beard Foundation Scholarship

The Western Society of Weed Science's Rita Beard Foundation Scholarship supports students and early career invasive species managers with educational opportunities by providing registration and travel to professional meetings including the 2020 Western Society of Weed Science, 2020 Western Aquatic Plant Management Society, or the 2020 Society of Range Science meetings. Go to: [Rita Beard Endowment Foundation Scholarship](#) for information and details on qualifications and how to apply. Deadline for applications is October 15, 2019. Applicants will be informed by November 1, 2019. If you have questions, contact either Phil Banks, WSWSRBF President (marathonag@zianet.com) or Todd Neel, WSWSRBF Secretary (todd.a.neel@usda.gov).

2019 Proceedings

Business Manager, Eric Gustafson, has posted the Proceedings from the 2019 Denver, Colorado 72nd annual meeting of the Western Society of Weed Science to the WSWS website. You can view or download the Proceedings by following this link:

[WSWS 2019 Proceedings](#)



Newly Permitted Yellow Toadflax Shoot Galling Weevil, *Rhinusa pilosa*, Released in Montana

Carol Randall – Entomologist/Weed Biocontrol Specialist
US Forest Service



Weed managers have a new ally when managing yellow toadflax, *Linaria vulgaris*, thanks to the research of a team of international scientists. In July, 2019 **Dr. Sharlene Sing**, from the USDA Forest Service, Rocky Mountain Research Station, teamed up with **Professor David Weaver**, Montana State University, to release the shoot-galling weevil, *Rhinusa pilosa*, in Montana's **Beaverhead-Deerlodge National Forest** where yellow toadflax is threatening local ecology. The Montana releases follow release of the shoot-galling weevil in Canada in 2014.

Yellow toadflax, first introduced from Wales in the late 1600s as an ornamental and medicinal plant and to make textile dyes, is an aggressive invader listed as a noxious weed in more than 10 states (including North and South Dakota, Colorado, Nevada, New Mexico, Oregon and Idaho) – which suppresses desirable vegetation through intense competition for limited soil moisture. Yellow toadflax is particularly problematic because it can spread both by seeds – up to 30,000 seeds annually – and by vegetative propagation. While it can be controlled by mechanical and chemical means, Dr. Sing and Dr. Weaver advocate a more integrated and sustainable management approach incorporating biological control agents, which now include *Rhinusa pilosa*.”



Canadian collaborator, Dr Rosemarie De Clerck-Floate from Agriculture and Agri-Food Canada found that while *Rhinusa pilosa* has not yet reached population levels that reduce the abundance of yellow toadflax, the stem-galling weevil did establish and produce galls at all release sites in Canada and also overwintered successfully in Alberta and British Columbia.

Dr Harriet Hinz, Country Director and Head Weed Biological Control at CABI Switzerland, noted the fact that the stem-galling weevil has been approved for release in the USA is an important step for CABI, as it is the first release in the western USA of a weed biocontrol agent based on CABI's research since 2006.



Between 2006 and 2011, Dr Toševski and CABI colleague Dr André Gassmann tested over 100 plant species and populations (60 native to North America) to assess the host specificity of *Rhinusa pilosa* with the risks to native flora judged to be minimal. The weevil forms galls in the upper part of the plant shoot and significantly reduced plant height, the number of stems and biomass in a pot experiment.

The next steps for the Montana releases include monitoring the population growth of the weevil and its impact on yellow toadflax. Baseline data collected before the stem-galling weevil was released will be compared against annual site surveys to assess how any decrease in yellow toadflax abundance may impact the overall plant community over time. Local partners are also establishing insectaries to supply more stem-galling weevils so its benefits can be expanded on a broader regional, and eventually, national scale.



Adopted from CABI

Blog post: <https://blog.cabi.org/2019/07/10/scientists-release-new-allies-in-the-battle-against-invasive-yellow-toadflax-in-the-rocky-mountains/>

REQUEST FOR WSWF FELLOW AND HONORARY MEMBER NOMINATIONS

Dr. Jill Schroeder, Committee Chair

Now is your chance to nominate deserving colleagues as a WSWF Fellow or Honorary Member!

WSWF FELLOW

WSWF Guidelines for Nominating Fellows:

Fellows of the society are members who have given meritorious service to the Western Society of Weed Science.

The nominator must contact the member to be nominated and request them to prepare a concise [2-3 page] resume.

- a. The nominee must be involved in the process. The most pertinent information about the nominee can only be obtained from the nominee.
- b. The nominee's resume should be based on the WSWF guidelines approved by the Board of Directors (see below).
- c. Information from the resume will be used by the nominator in writing the letter of nomination.
- d. The nominator also is responsible for soliciting two letters of support for the nominee. The letters should be sent to the nominator and included in the nomination package sent to the committee.
- e. The nomination package should include the nominee's vita, the nominator's letter of nomination, and two support letters.

SERVICE TO WSWF – Please address the following points in the resume:

1. **Officer:** President; Vice-President; Secretary, Research Section Chair; Education & Regulatory Section Chair; Editor; Other.
2. **Committees:** Standing; Special; Ad Hoc.
3. **Presentations and Publications:** WSWF – Papers, Proceedings, Research Progress
4. **Service to other Weed Science Societies:** Weed Science Society of America; State Organizations.
5. **Academic Weed Science Endeavors:** Teacher; Graduate Students; Refereed Publications; Extension Publications, Books; Popular Publications; Academic Weed Science Pursuits; Other.
6. **Industry Weed Science Endeavors:** Sales and Marketing; Research and Development; Regional Manager; Product Manager.
7. **Other Meritorious Weed Science Service**

WSWF HONORARY MEMBER

WSWF Guidelines for Nominating Honorary Members

Honorary members are selected from individuals whose activities have been largely from outside the Western Society of Weed Science, but who have significantly contributed to the field of weed science.

- The nominator must contact the person to be nominated and request them to prepare a vita.
- The nominator will then prepare a letter summarizing the nominee's contribution to the area of weed science with emphasis on how the interests of the WSWF have been served by this non-member.
- Include the vita with the letter of nomination to provide all pertinent information to the Committee.

NOMINATIONS FOR FELLOW AND HONORARY MEMBER PACKAGES ARE DUE BY **DECEMBER 1, 2019**

Send To:

Electronic submission preferred.

Jill Schroeder

(575) 649-9441

jschroe1@gmail.com

2020 CALL FOR NOMINATIONS: DISTINGUISHED ACHIEVEMENT AWARDS

Everyone knows of some skilled and outstanding weed scientists in the western region who have contributed a great deal over the years and deserve our recognition and appreciation. One way to recognize such persons is to nominate them for a WSWS award. Please take the time and nominate an individual for one of awards listed below.

CRITERIA USED FOR EVALUATING NOMINATIONS: Awards are based on merit and impact on weed science and weed management practices. Applicants **MUST BE** a member of WSWS. Professional achievements and their impacts are the principal criteria for receiving these awards. There is no requirement that an award be given in any or every category. Past winners are not eligible again in the same category. An award may be given each year in both the private and public sectors for Outstanding Weed Scientist and Outstanding Weed Scientist – Early Career. Only one award may be given each year for Weed Manager and Professional Staff. Within the guidelines for each category, there is flexibility to fit the nominee.

I. OUTSTANDING WEED SCIENTIST

This award recognizes outstanding achievements in weed science from individuals in both the public and private sectors. Principle criteria for this award includes innovative or unique approaches that result in learning, ability to clearly communicate ideas, motivation of the intended audience, demonstrate excellence and creativity in research accomplishments, applying results to solve problems in weed science, the impact on weed management practices and principals of weed science, and recognition of accomplishments by peers and intended audiences.

II. OUTSTANDING WEED SCIENTIST – EARLY CAREER

This award is to be given to members in the private and public sectors with no more than 10 years of service after completion of their terminal degree. This award recognizes outstanding achievements in weed science early in the individual career with the same criteria as the outstanding weed scientist above.

III. WEED MANAGER

This award recognizes outstanding and sustained contributions in support of weed science activities. This award is intended for those paid by taxpayers and that are working in the public sector, such as employees of state departments of agriculture, weed boards, public land managers, and vegetation management personnel. The nominee must have been involved in the WSWS and weed science for at least five years at the time of nomination.

IV. PROFESSIONAL STAFF

This award recognizes outstanding and sustained contributions in support of weed science activities. Nominees will be restricted to individuals that work under the direction of university, federal, or industry scientists. These individuals may have titles such as researcher, research associate, technician, support scientist, or specialist. The nominee must have been involved in the WSWS and weed science research, extension, or resident education for at least five years at the time of nomination.

NOMINATION DEADLINE: Nominations must be received by **December 1, 2019**.

NOMINATOR'S RESPONSIBILITY: The nominator will submit a nomination document following the "Instructions for Nomination" guideline. The nominator is responsible for obtaining three letters of support and including them with the nomination package. Unsuccessful nominations will remain active for three years; however, an updated nomination packet of holdover candidates is encouraged.

The nomination package, including the supporting letters, should be sent, by email, to the chair of the Awards Committee by **December 1, 2019**:

Lesley Beckworth
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WASHINGTON REPORT

August 15, 2019
Lee Van Wychen

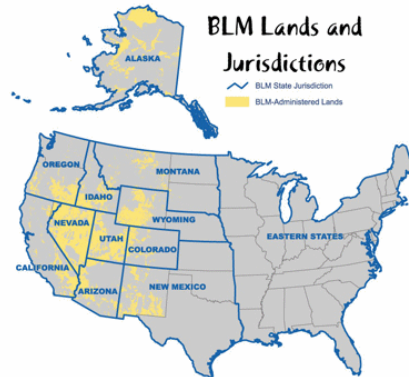
BLM Headquarters is Moving West

In a letter to U.S. senators on July 16, the U.S. Bureau of Land Management (BLM) formally announced it will move about 325 staff in Washington, D.C. to 11 western states to join the rest of BLM's almost 10,000 employees. The reorganization, first considered under former Interior Secretary Ryan Zinke, is aimed at putting more agency officials closer to the lands they manage out West, though critics have questioned moving tenured policy officials far from the nation's capital. Only BLM's Deputy Director of Policy and Programs along with 60 other BLM staff will remain in D.C. at the Department of Interior headquarters.

Grand Junction, CO will be the new headquarters for the BLM Director, Deputy Director and their 25 attendant staff. In addition, 58 positions will move to the Denver Federal Center in Lakewood, CO, where BLM's state office and national operations center will take on a larger role. There are already thousands of federal employees stationed at the Denver Federal Center — a massive 670-acre site that includes 90 buildings that house employees with 26 federal agencies, including BLM, the National Park Service, the Fish and Wildlife Service, and the U.S. Geological Survey. It is the largest concentration of federal buildings and agencies outside Washington.

While Colorado is slated to get 85 positions, another 236 positions are proposed to be divided up among the

following western state jurisdictions: AK – 4, AZ – 39, CA – 20, ID – 18, MT – 3, NV – 49, NM – 39, OR – 5, UT – 44, and WY – 15.



Forest Service Issues Final Amendments to Greater Sage Grouse Land Management Plans

On August 1, the USDA Forest Service issued the Final Environmental Impact Statement and Draft Records of Decision for how the agency manages greater sage grouse in Colorado, Idaho, Nevada, Wyoming, and Utah. The changes strive to improve the clarity, efficiency, and implementation of the 2015 sage grouse plans. While most of the content of the 2015 plans remains, changes were proposed that incorporated new information and attempted to improve the efficiency of plan implementation.

Key Changes:

- The 2019 plans allow for greater flexibility and local control of conservation and management actions related to sage grouse, ensuring that we can both conserve the habitat and enable grazers to

maintain their livelihood. USDA has revised grazing guidelines to shift from rigid, prescriptive standards to common sense, locally-driven strategies.

- The 2019 plans align state and federal conservation standards, so ranchers and other land users have one set of standards instead of dealing with multiple, complex layers of restrictions. The new changes also align mitigation options with state-based systems so mitigation strategies on how to ensure no net-loss of habitat are locally supported, not a one-size-fits-all standard.
- The 2019 plans maintain the goal of preventing any net-loss to critical sage grouse habitat, but no longer require the unreasonable standard that every action increase conservation. This enables local stakeholders to determine what strategies to implement where and how while still conserving sage grouse habitat.

The Final Environmental Impact Statement can be found [here](#). The publication of the legal notice on August 2nd begins a 60-day objection period that will end on October 2nd. After considering objections, the Forest Service intends to continue the planning process by issuing a final decision document regarding the revised plan amendments in the fall of 2019.

Kansas City Announced as New Home for USDA NIFA & ERS

On June 13, USDA Secretary Sonny Perdue announced that USDA will relocate the Economic Research Service (ERS) and National Institute of Food and Agriculture (NIFA) to the Kansas City Region. USDA conducted a Cost Benefit Analysis and conservative estimates show a savings of nearly \$300 million nominally over a 15-year lease term on employment costs and rent or about \$20 million per year. In addition, state and local governments offered relocation incentives packages totaling more than \$26 million.

Out of NIFA's 315 positions, 294 will relocate while 21 will stay in DC. Of the 329 ERS positions, 253 will relocate while 76 will stay in DC. Every employee who wants to continue working will have an opportunity to do so. Employees will be offered relocation assistance and will receive the same base pay as before, and the locality pay for the new location. Initial reports indicate that up to two-thirds of the NIFA and ERS employees may decline their reassignments or retire. Employees could begin reporting to the Kansas City location the week of July 22 and will have until Sept. 30 to do so. The department expects relocation numbers may "fluctuate" until the Sept. 30 cutoff, according to a statement provided by USDA. "These anticipated ranges were taken into account in the department's long-term strategy, which includes both efforts to ensure separating employees have the resources they need as well as efforts to implement an aggressive hiring strategy to maintain the continuity of ERS and NIFA's work."

IR-4 Will Move from Rutgers to NC State

On July 10, the IR-4 Project Management Committee (PMC) considered a Memorandum of Agreement (MOA) drafted by North Carolina State University's College of Agriculture and Life Sciences (NC State). This MOA presented an opportunity for IR-4 Headquarters to relocate its operations from the long-term host institution, New Jersey Agricultural Experiment Station/Rutgers University, to NC State. After significant discussion, the PMC unanimously agreed to advance the agreement to Rutgers legal counsel for concurrence.

The PMC based its decision on the 10-year commitment by NC State to host IR-4 Headquarters as well as the vision of the leadership of the NC State's College of Agriculture and Life Sciences on the many ways that IR-4 fits into the strategic direction of the college. While New Jersey Agricultural Experimental Station continues to value the IR-4 Project, Rutgers could not make a long-term commitment to continue as the host institution.

The relocation, once approved by Rutgers, will transition over the next two years, with scheduled completion by September 30, 2021. The long transition will allow IR-4 Headquarters to remain operational with minimal interruptions and lessen the impact of the move on current employees at IR-4 Headquarters. Rutgers administrators are committed to working closely with NC State to ensure a smooth transition.

The IR-4 Project provides safe and effective pest management solutions to specialty crop growers. It is funded through federal funds

administered by USDA-National Institute of Food and Agriculture, Agriculture Research Service and Foreign Agriculture Service with significant direct and in-kind funds from the land-grant university system, specialty crop commodity associations and the crop protection industry. Field research farms, analytical laboratories and coordination offices are located in over 20 states to facilitate national registrations of needed chemical and bio-based pesticides. Since 1963, IR-4's national headquarters has been hosted by Rutgers. Rutgers will continue to participate in IR-4 with activities at two of its research farms in New Jersey.

EPA Seeks Comments on Glyphosate Proposed Interim Registration Review Decision

In the ongoing registration review of glyphosate, EPA issued this proposed interim registration review decision in May so that it can move forward with aspects of the registration review case that are complete and implement interim risk mitigation. Registration review issues that still need to be addressed include its Endangered Species Act assessments and its Endocrine Disruptor Screening Program activities.

In 2017, EPA published comprehensive ecological and human health risk assessments for glyphosate. No human health risks were identified. The agency determined that glyphosate is not carcinogenic to humans. Potential ecological risks were identified for terrestrial and aquatic plants, birds, and mammals, primarily from exposure to spray drift. To ensure pollinators and their habitat are adequately protected from

glyphosate, EPA included an evaluation of risk to pollinators and milkweed in the ecological risk assessment. Available data (laboratory and field-based) indicate no risk to pollinators.

In this proposed interim registration review decision for glyphosate, EPA is proposing various spray drift management measures (e.g., release height, droplet size, and wind speed restrictions) to reduce off-site exposure to non-target wildlife. EPA is also proposing weed resistance management labeling (e.g., information on mode of action, scouting instructions, and reporting instructions for weed resistance) and certain labeling clean-up/consistency efforts to bring all glyphosate labels up to modern standards.

The proposed interim registration review and associated documents are posted at <https://www.regulations.gov/document?D=EPA-HQ-OPP-2009-0361-2340>. Comments are due Sept. 3, 2019.

Public Lands and Water Management Bill Becomes Law

This spring, the “John D. Dingell, Jr. Conservation, Management, and Recreation Act of 2019” became law (P.L. 116-9). It’s the first major public lands and water management bill passed since 2009 and contains over 100 pieces of legislation that are laid out in nine titles. In Title VII, “Wildlife Habitat and Conservation”, the new law amends the Fish and Wildlife Coordination Act to protect federal “water, oceans, coasts, and wildlife from invasive species”. The new law defines a number of terms, including “invasive species” and directs the head of each federal Agency (specifically Army Corp of Engineers,

Agriculture and Interior) to plan and carry out activities on land directly managed by the Agency to protect water and wildlife by controlling and managing invasive species: (1) to inhibit or reduce the populations of invasive species; and (2) to effectuate restoration or reclamation efforts.

While the new law does not authorize any additional appropriations, it directs the Agency heads to allocate their existing invasive species funding in the following manner:

- **use not less than 75 percent for on-the-ground control and management of invasive species**, which may include: (1) the purchase of necessary products, equipment, or services to conduct that control and management; (2) the use of integrated pest management options, including options that use pesticides; (3) the use of biological control agents; (4) the use of revegetation or cultural restoration methods; (5) the use of monitoring and detection activities for invasive species, including equipment, detection dogs, and mechanical devices; (6) the use of appropriate methods to remove invasive species from a vehicle or vessel capable of conveyance; or (7) the use of other effective mechanical or manual control methods.

- **use not more than 15 percent for investigations, development activities, and outreach and public awareness efforts** to address invasive species control and management needs.

- **not more than 10 percent may be used for administrative costs** incurred to carry out those programs, including costs relating to oversight and management of the

programs, recordkeeping, and implementation of a strategic plan.

Tranel Presents Capitol Hill Seminar on Weed Gene Drives

On June 10, Patrick Tranel presented a seminar on Capitol Hill titled “*Gene Drives to Combat our Worst Weeds*”. The seminar was part of the National Coalition for Food & Agricultural Research (NCFAR) Lunch-n-Learn Seminar Series. Dr. Tranel has been a weed scientist at the University of Illinois in Urbana-Champaign since 1997. He has been at the forefront of using molecular and genomic tools to study weeds, and his research findings have informed how weeds evolve resistance to herbicides and strategies that can be used to mitigate that process. The advent of gene editing tools, such as CRISPR-Cas9, makes such genetic strategies more feasible. Gene drives can be used in weed management approaches to reduce seed dormancy or reverse herbicide resistance in weeds. For genetic control of weeds to become a reality, significant basic research is needed as well as efforts in training future scientists.



Just outside the U.S. Capitol. From left to right: Lee Van Wychen, Executive Director of Science Policy, Patrick Tranel, University of Illinois, and Jim Kells, WSSA NIFA Fellow.

Congress and White House Agree on 2-Yr Budget Deal

Congressional and White House leadership reached a budget deal that will lift budget caps that were set to take effect this fall and raise the debt ceiling until July 2021. It provides nearly equal increases for defense and domestic programs, raising federal spending by a total of \$320 billion. And while the compromise only contains \$77 billion in offsets, which is far less than the \$150 billion initially sought by the Trump administration, House Majority Leader Pelosi has agreed to not include any "poison pill" riders in upcoming funding bills. Without a budget deal, defense spending would be cut by \$71 billion and nondefense spending – which includes most research funding programs – would be cut by \$55 billion in FY 2020 alone.

2019 Weed Survey Available

The 2019 Survey of the Most Common and Troublesome Weeds is available at:

<https://www.surveymonkey.com/r/2019weeds>. Please take a moment

to list your top 5 most common and top 5 most troublesome weeds in the following broadleaf crops:

- 1) Alfalfa, 2) Canola, 3) Cotton, 4) Fruits & Nuts, 5) Peanuts, 6) Pulses- field pea, chickpea, lentil, etc., 7) Soybean, 8) Sugar beet, 9) Vegetables- Cole crops, 10) Vegetables- Cucurbits, 11) Vegetables- Fruiting, 12) Vegetables- Other

Common weeds refer to those weeds you most frequently see, while troublesome weeds are those that are most difficult to control (but may not be widespread). The survey has a

3-year rotation, so next year we will be surveying weeds in grass crops, pasture and turf and the following year will be weeds in aquatic and non-crop/natural areas. This survey will remain open until Labor Day 2019. Thanks!

2019 Weed Survey:

<https://www.surveymonkey.com/r/2019weeds>

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IF YOU DID NOT ATTEND THE ANNUAL MEETING BUT WANT TO REMAIN A MEMBER, FILL IN THE INFORMATION BELOW AND SEND \$30.00 FOR DUES TO THE ADDRESS GIVEN.

2019 Membership Renewal Form for the Western Society of Weed Science

To pay by credit card, please go to www.wsweedscience.org and login to your account)

Last name First name Affiliation

Mailing address City State Zip code

Phone # w/area code e-mail address

Classification: Student ___ University ___ Federal Agency ___ State Agency ___
Private Industry (manufacturing and sales) ___ Private Industry (consulting) ___
Unemployed ___ Retired ___ other (specify) _____

Send to: WSWS/IMI,
12110 Pecos St., Ste 220,
Westminster, CO 80234

Questions? info@wsweedscience.org or (303) 327-8016

Publications Available from the Western Society of Weed Science

(All prices include shipping and handling; bulk orders may be discounted, see below)

_____ Aquatic and Riparian Weeds of the West.....	\$45.00
_____ Weeds of California and Other Western States.....	\$85.00
_____ Weed Control in Natural Areas in the Western United States	\$40.00
_____ Interactive Encyclopedia of North American Weeds DVD.....	\$50.00
Total _____	

All publications can be ordered online at www.wsweedscience.org (click on **WEED BOOKS**)

To order by mail and pay by check, send this completed form with payment to:

WSWS Business Manager, 12110 Pecos St., Ste 220, Westminster, CO 80234.

Contact the Business Manager (Eric Gustafson) at (303) 327-8016 for bulk order prices.

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WSWS Objectives

- ❖ To foster and encourage education and research in weed science.
- ❖ To foster cooperation among state, federal and private agencies in matters of weed science.
- ❖ To aid and support commercial, private and public agencies in the solution of weed problems.
- ❖ To support legislation governing weed control programs and weed research and education programs.
- ❖ To support the Weed Science Society of America and foster state and regional organizations and agencies interested in weed control.



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