| Pesticides and You (PAY) Vol 42 No. 1-4 Vol 43 No. 1 - Image Credits | | | | |
|--|----------------------------------|--------------------------------|---|-------|
| Photographer | Image Source (Institution) | Section(s) | Section / Article Title | Page |
| manonallard | Canva; Getty Signature | Front Cover - Left Panel | Health | COVER |
| Samantha Haebich | Canva; Getty | Front Cover - Center | Biodiversity | COVER |
| Alfonzo Béjar | Canva; Getty | Front Cover - Right Panel | Climate Change | COVER |
| cturtletrax | Canva; Getty | Inside Cover Column | Transformative Change: Informed by Science, Policy and Action | 2 |
| Jan Stria | Canva; Getty Images | Introduction | Transformative Change: Informed by Science and Policy | 4 |
| NirutiStock | Canva; Getty Images | Introduction | Science defines the threat - Global Chemical Pollution Exceeds Safe Limits for Humanity - January 21, 2022 DN | 6 |
| Michal Ludwiczak | Canva; Getty Images Signature | Introduction | Science defines the threat - Global Chemical Pollution Exceeds Safe Limits for Humanity - January 21, 2022 DN | 7 |
| piyaset | Canva; Getty Images | Introduction | Science defines the threat - Global Chemical Pollution Exceeds Safe Limits for Humanity - January 21, 2022 DN | 8 |
| shaunl | Canva; Getty Images Signature | Introduction | Science defines the threat - Global Chemical Pollution Exceeds Safe Limits for Humanity - January 21, 2022 DN | 9 |
| branex | dg1 | Section Lead - Science | Science: Human Health Threats, Biodiversity, and Climate | 10 |
| Ivanko_Brnjakovic | Canva; Getty Images | Science - Human Health Threats | Children's Health - Motor skill deficiency Household Pesticide Use Harms Infant Motor Skill Development - Jan 5, 2022 DN | 12 |
| Harsh Vardhan Art | Canva; Getty Images | Science - Human Health Threats | Children's Health - Prenatal exposure and ear infections - Pesticide Use During Pregnancy Increases Childhood Risk of Ear Infections - February 9, 2022 DN | 13 |
| Hilarius Mitedede | Canva; Getty Images Signature | Science - Human Health Threats | Children's Health - Respiratory disease - Study confirms Children's exposure to Mosquito Pesticides Increases Risk of Respiratory Disease - March 3, 2022 DN | 15 |
| SergeyNivens | Canva; Getty Images | Science - Human Health Threats | Children's Health - Oxidative stress, DNA damage, and cancer - Glyphosate Breakdown Product, Associated with Oxidative Stress and DNA Damage Among Children - April 28, 2022 DN | 16 |
| Elnur | Canva | Science - Human Health Threats | Children's Health - Pediatric cancer - Pesticides Linked to Adult and Childhood Cancer in Western U.S., with Incidence Varying by County - June 28, 2022 DN | 18 |
| Click_and_Photo | Canva; Getty Images | Science - Human Health Threats | Children's Health - Childhood diabetes - Antibiotics and Neonicotinoid Insecticides Linked to Gut Microbiome Disruption and Childhood Diabetes - August 25, 2022 DN | 19 |
| globalmoments | Canva; Getty Images | Science - Human Health Threats | Children's Health - Developmental delays - Exposure to Synthetic Pyrethroids During Infancy Associated with Developmental Delays in Toddlers - September 1, 2022 DN | 22 |
| Winnie Bruce | Canva; The Winnie Collection | Science - Human Health Threats | Children's Health - Biomonitoring of pregnant women - Compounds in Pesticides Shown to Harm Fetuses and Children with Disproportionate Risk to People of Color - September 2, 2022 DN | 23 |
| Africa images; evgenyatamenenko | Canva; ko | Science - Human Health Threats | Children's Health - Kidney cancer - Kids and Kidney Cancer: Implication for Prenatal Pesticide Exposure - November 10, 2022 DN | 24 |
| panco971 | Canva; Getty Images Pro | Science - Human Health Threats | Children's Heath - Early onset puberty - Childhood Pesticide Exposure Associated with Early Onset of Puberty - December 8, 2022 DN | 28 |

| vetrestudio | Canva | Science - Human Health Threats | Children's Health - Autism - Mother and Child Health: Learning Disorders and Prenatal Pesticide Exposure Study Results Released - December 20, 2022 DN | 29 |
|---------------------|----------------------------------|--------------------------------|--|----|
| Kirsty Pargeter | Canva | Science - Human Health Threats | Gut biome - Common Antimicrobial Pesticides Linked to Altered Gut Microbe Function - January 25, 2022 DN | 31 |
| sefa ozel | Canva; Getty Images Pro | Science - Human Health Threats | Metabolic distress - Environmental Pesticide Exposure Alters Gut Microbes, Increasing Urgency for Organic Transition - May 12, 2022 DN | 33 |
| FGTrade | 1397344064 | Science - Human Health Threats | Parkinson's disease - Neurotoxic Pesticides Disrupt Gut Function Linked to Parkinson's Disease Development - May 26, 2022 DN | 35 |
| rightDX | 539125622 | Science - Human Health Threats | Farm exposure and effects - Higher Disease Prevalence Among Farmers Highlights the Need Organic Practices and Compatible Materials - February 10, 2022 DN | 37 |
| swiftsciencewriting | Canva; pixabay | Science - Human Health Threats | Multigenerational effects and cancer - EPA Overlooks Glyphosate and Roundup Ingredients' Cancer, DNA Damage, and Multigenerational Effects - March 10, 2022 - DN | 39 |
| Rosette Jordaan | Canva; Getty Images Signature | Science - Human Health Threats | Environmental injustice: disproportunate exposure and impacts - Black, Indigenous, and People of Color Community at Disproportionate Risk from Pesticides, Study Finds - April 22, 2022 - DN | 42 |
| BremecR | Canva; Getty Images Signature | Science - Human Health Threats | Post-hurricane water contamination - Post- Hurricane Flood Cleanup in Houston Exposed Residents to Range of Pesticides and Industrial Chemicals - July 20, 2022 DN | 45 |
| fotokostic | Canva; Getty Images | Science - Human Health Threats | Global pesticide hazard footprint - Developed Countries with 18% of World Population Responsible for 49% of Pesticide Hazard Footprint - December 7, 2022 DN | 47 |
| jackbab | Canva; Getty Images | Science - Human Health Threats | Military exposure hazard: Gulf War illness - Breakthrough Study Shows Organophosphate Nerve Gas Caused Gulf War Illness - May 24, 2022 DN | 49 |
| Andrii Dodonov | Canva; Getty Images | Science - Human Health Threats | Male Infertility - Scientific Literature Review Again Connects Pesticides and Male Fertility Problems - August 3, 2022 DN | 51 |
| wildpixel | Canva; Getty Images | Science - Human Health Threats | Alzheimer's / Neurodegenerative disease - Glyphosate Weed Killer Crosses Blood-Brain Barrier, Linked to Alzheimer's and Other Neurodegenerative Diseases - August 4, 2022 DN | 53 |
| Rido | Canva | Science - Human Health Threats | Thyroid cancer - As Thyroid Cancer Cases Rise, Study Finds Pesticides Link - August 26, 2022 DN | 55 |
| Thirdman | Pexels | Science - Human Health Threats | Endocrine disruption - Hormone Mimicking Properties of Glyphosate Weed Killer and Related Compounds Increase Breast Cancer Risk - November 25, 2022 DN | 57 |

| Kittypong Jirasukhanont | Canva; PhonlamaiPhoto's Images | Science - Human Health Threats | Hazardous inert ingredients underregulated - "Inert" Pesticide Ingredients and Failure to Regulate Raise Dangers for All U.S. Residents - August 9, 2022 DN | 59 |
|--------------------------|-----------------------------------|--------------------------------|--|----|
| Maridav | Canva | Science - Human Health Threats | Covid: Elevated disinfectant hazards - Increased Accumulation of Disinfectant Chemicals in the Body during the Pandemic Threatens Health, Despite Available Alternatives - February 1, 2022 DN | 61 |
| Akayla Bracey | Beyond Pesticides | Science - Human Health Threats | The Dirty Side of Disinfectants and Sanitizers: infographic | 62 |
| brytta | Canva; Getty Images Signature | Science - Biodiversity | Insect decline - Study of Dramatic Flying Insect Declines Reinforces Earlier Findings - May 17, 2022 DN | 64 |
| alex_west | Canva; Getty Image Signature | Science - Biodiversity | Biodiversity collapse - UN Again Calls for Action as Biodiversity Deterioration Worsens Worldwide - December 9, 2022 DN | 66 |
| Kichigan | Canva | Science - Biodiversity | Gut microbiome - Changes in bee microbial abundance Review Provides New Insight into How Pesticide Exposure Disrupts Bee Gut Microbiome - February 16, 2022 DN | 68 |
| christels | Canva; pixabay | Science - Biodiversity | Gut microbiome - Honeybee susceptibility to pathogens - Pesticide Mixtures Reduce Life Span of Honey Bees, Damage Gut Microbiome - November 1, 2022 DN | 69 |
| Digital Content Creation | Canva; Getty Images | Science - Biodiversity | Bee pollination disturbed - Synthetic Fertilizers and Pesticides Make Plants Less Attractive to Bumblebees, Research Shows - November 15, 2022 DN | 71 |
| yuelan | Canva; Getty Images | Science - Biodiversity | International science-policy platform warning - UN: Short-Term Economic Gains Harming Well-Being and Integrity of Nature - July 15, 2022 DN | 73 |
| llana M E Maxwell | Canva; Getty Images | Science - Biodiversity | Ecosystem services increase crop yield - Ecosystem Services Provided by Birds and Bees Synergize to Increase Farm Yield and Profit - April 13, 2022 DN | 75 |
| Jillian Cooper | Canva; Getty Images | Science - Biodiversity | Benefits of nature - Seeing the Value of Nature through Beavers, as Cattle Ranchers Benefit from These "Ecosystem Engineers" - September 9, 2022 DN | 77 |
| emer1940 | Canva; Getty Images | Science - Biodiversity | Inert ingredients harm pollinators - Literature Review Adds to the Growing Evidence that Inert Ingredients Are Toxic to Pollinators - April 21, 2022 DN | 80 |
| andyworks | Canva; Getty Images Signature | Science - Biodiversity | Multigenerational effects to birds - Ingestion of Real-World Pesticide Residues in Grain Threatens Bird Offspring More than Parents - September 8, 2022 DN | 82 |
| stockphoto52 | Canva; Getty Images | Science - Biodiversity | Aquatic systems threatened - Neonicotinoid Insecticides Keep Poisoning California Waterways, Threatening Aquatic Ecosystems - September 23, 2022 DN | 84 |
| cnicbc | Canva; Getty Images Signature | Science - Biodiversity | Contaminated sediment harm water resources - Pesticides in Sediment Contribute to Secondary Source of Chemical Pollution in Aquatic Environments - October 4, 2022 DN | 86 |

| ມ Gouin | Canva; Getty Images | Science - Biodiversity | Weed killer destroys biological control - Weed Killer Use Destroys Soil Life and Ecosystems, Paper Finds - November 11, 2022 DN | 88 |
|--------------------|----------------------------------|------------------------|--|-----|
| weisschr | Canva; Getty Images | Science - Biodiversity | Multi-fungicide resistant human pathogens - Pesticide Spraying of Urban Trees Found to Disrupt Natural Biological Management of Landscapes - November 16, 2022 DN | 91 |
| fotokostic | Canva; Getty Images | Science - Biodiversity | Deadly Fungus Resistant to Fungicide Jumps from Farms to People, as Human Pathogen Spreads - February 23, 2022 DN | 92 |
| Beyond Pesticides | Beyond Pesticides | Science - Biodiversity | Glyphosate indices antibiotic resistance - Glyphosate Induces Antibiotic Resistance in Deadly Hospital-Acquired Infection - November 8, 2022 DN | 94 |
| ziggy7 | Canva; Getty Images | Science - Biodiversity | Monarchs threatened by store-bought plants - Multiple Pesticides Detected in All Store- Bought Milkweed, Threatening Further Monarch Declines - September 13, 2022 DN | 96 |
| by-studio | Canva; Getty Images | Science - Climate | Greenhouse gas from house fumigation - Common Home Fumigation Pesticide Associated with Increased Greenhouse Gas Emissions - January 11, 2022 DN | 97 |
| bilanol | Canva | Science - Climate | Chemical No-till contributes to climate crisis - Chemical No-Till Failure Due to Herbicide Resistance Increases Greenhouse Gas Emissions - May 10, 2022 DN | 99 |
| mvburling | Canva; Getty Images | Science - Climate | Sulfural fluoride ban petitioned - California Petition Seeks Removal of Hazardous Fumigant Linked to Climate Crisis - November 3, 2022 DN | 101 |
| JennaWagner | Canva; Getty Signature | Science - Climate | Soil management, carbon sequestration, organic - Listening to the Science on the Climate Crisis at All Levels: Federal, State and Local | 103 |
| 601923370 | iStock | Section Lead - Policy | Policy | 104 |
| wwing | Canva; Getty Images Signature | Policy | PFAS and regulatory failure - PFAS Adds to the Legacy of Persistent Toxics Hurting Generations of People and the Environment - February 18, 2022 DN | 106 |
| mauropedro1969 | Canva; Getty Images | Policy | Organophosphate's continued use allowed - Despite Past Findings of Insecticide's Threat to 1,284 Species, EPA Reverses and Allows Continued Use - March 11, 2022 DN | 109 |
| s_design | Canva | Policy | Exposure: Pesticide drift - Pesticide Drift or Chemical Trespass Continue Uncontrolled, Despite Successful Litigation - March 18, 2022 DN | 112 |
| Post Modern Studio | Canva | Policy | Industry influence at UN challenged - Groups Again Call for Urgent Action to Eliminate Pesticide Industry's Influence at the United Nations - December 22, 2022 DN | 115 |
| siriwannapatphotos | Canva | Policy | Subsidies drive environmental collapse - Trillions in Subsidies Worldwide Are Driving Environmental Collapse Instead of Advancing Solutions - February 25, 2022 DN | 117 |
| cosinart | Canva; Getty Images | Policy | Genetic engineered food label misleading - USDA Genetic Engineered Food Label Misleads Consumers, Took Effect January 1 - January 7, 2022 DN | 120 |

| zimmytws | Canva; Getty Images | Policy | Supreme Court upholds lawsuits against Monsanto/Bayer - Supreme Court Permits Large Jury Verdicts on Roundup, Appeals Court Finds EPA Registration Unlawful - June 22, 2022 DN | 123 |
|--------------------|----------------------------------|----------------------|--|-----|
| Spondylilothesis | Canva; Getty Images Signature | Policy | Bill to ban pesticides on national wildlife refuges - U.S. Senators Urge Fish and Wildlife Service to Phase Out Pesticide Use in America's Wildlife Refuges - August 2, 2022 DN | 125 |
| Justin Latta | Canva; Getty Images | Policy | Long phase-out of wood preservative after market collapse - With Market Collapse, EPA Cancels Highly Hazardous Wood Preservative Years after Worldwide Ban - February 8, 2022 DN | 127 |
| totomm | Canva; Getty Images | Policy | Dog death coverup - Coverup of Dog Deaths at EPA, According to Internal Emails on Seresto Flea and Tick Collars - April 1, 2022 DN | 129 |
| ulkas | Canva; Getty Images Pro | Policy | Flea collar banned - Over a Decade and Countless Children Poisoned, EPA Bans Hazardous Flea Collar Products - October 19, 2022 DN | 131 |
| Photomannen | Canva; Getty Images | Policy | Regulations continue to fail pollinators - With Decision on Insecticide, EPA Betrays Protection of Pollinators Again - May 9, 2022 DN | 133 |
| Andrey Popov | Canva; Getty Images | Policy | Fumigant hazard review corrupt - Inspector General Finds Secret EPA Meetings with Industry and Use of Untested Science to Lower Cancer Risk for Dangerous Fumigant - July 26, 2022 DN | 136 |
| fotokostic | Canva; Getty Images | Policy | Federal bill to weaken pesticide restrictions - With Industry Support, a Republican U.S. Senator Introduces Bill to Codify Easier Access to Ag Pesticides—As If It Wasn't Easy Enough - July 29, 2022 DN | 139 |
| TibiP03 | Canva; Getty Images | Policy | EPA ignores indoor contamination with disinfectants - While Allowing Indoor Pesticide Spray for Covid, EPA Seeks Advice on Improving Indoor Air Quality - October 21, 2022 DN | 141 |
| Hirurg | Canva; Getty Images Signature | Policy | PFAS bill in Congress to address harm - Bill in Congress Will Pay for Treating Illness and Financial Impact Caused by PFAS - October 28, 2022 DN | 144 |
| progressman | Canva | Policy | Keeping Organic Strong - Organic Integrity Before the Public, Comments Due By September 29 - September 12, 2022 DN | 147 |
| mj0007 | Canva | Policy | Federal bill threatened local restrictions - Industry, Money, and Politics Drive Legislation to Squelch Local Pesticide Restrictions - April 7, 2022 DN | 149 |
| 140275740 | iStock | Section Lead: Action | Action | 150 |
| sborisov | Canva; Getty Images Pro | Action | Parks for a sustainable future - On Earth Day, Coalition Calls on NYC Parks Department to Set Up Demonstration Sites - April 1, 2022 DN | 152 |
| oleksandranaumenko | Canva | Action | Organic food in schools - COVID Leads to Transformational Moment for Launching of School-Based Feeding Programs with Organic Food - March 8, 2022 DN | 153 |

| JasonWSM / Beyond Pesticides | Canva; pixabay / Beyond Pesticides | Action | European Union bans pesticides in parks - EU Bans Pesticides in Parks, Playgrounds, and Playing Fields; Fails to Set Organic Transition Goals in Ag - July 1, 2022 DN | 156 |
|---------------------------------|---------------------------------------|---------------------------|--|------------|
| Dennis Tangney Jr. | Canva; Getty Images Signature | Action | Local ordinance bans pesticides on public land - Norwalk, Connecticut Passes Ordinance Embracing Organic Land Management - July 6, 2022 DN | 159 |
| hayatikayhan | Canva; Getty Images | Action | Organic transition elevated - USDA Announces Dramatic Increases in Support for Organic Agriculture Without Call for Total Transition - June 10, 2022 DN | 161 |
| Janine Lamontagne | Canva; Getty Images Signature | Action | Compost outperforms chemical fertilizer - Traditionally Produced Compost Improves Soil, Outperforms Synthetic Chemical Fertilizers - March 31, 2022 DN | 164 |
| A. Mills | Canva; Getty Images | Action | State laws increase pollinator protections - Officials in New Jersey and New York Act to Protect Pollinators by Restricting Neonic Pesticides - January 6, 2022 DN | 166 |
| Kanjana Jorruang | Canva; Getty Images | Action | Maine bans PFAS-contaminated pesticides - Maine Moves to Ban Pesticides and Fertilizers Contaminated with PFAS - April 19, 2022 DN | 169 |
| veeterzy | Canva | Action | Climate friendly organic farming - Climate- Friendly Organic Systems are More Profitable for Farmers than Chemical- Intensive Agriculture - December 2, 2022 DN | 170 |
| 663860382 | iStock | Inside Back Cover Banner | Let's raise our voices together for a liveable future: 7 Ways | 171 |
| wragg | Canva; Getty Signature | Back Cover - Left Panel | Science | BACK COVER |
| rabbit75_cav | Canva | Back Cover - Center Panel | Policy | BACK COVER |
| Vasnaandjic | Canva; Getty Signature | Back Cover - Right Panel | Action | BACK COVER |