

**USDA Climate Hubs
FY23 Q3 Publications**

White papers and grey literature

Region	Product	Title and Links
CA	Regional Profile	Andreozzi, C.L., J.B. Smith, S.M. Ostoja, N. Enstice, L. Weissberg, C. Clark, P.A. Stine, J.J. Battles. 2023. Central Coast Regional Profile. Report prepared for the California Wildfire and Forest Resilience Task Force by the Science Advisory Panel. https://wildfiretaskforce.org/wp-content/uploads/2023/05/CentralCoast_RegionalProfile_May2023_V2.pdf
CA	Workbook	Parker, L. E., Johnson, D., Pathak, T. B., Wolff, M., Jameson, V., and Ostoja, S. M. (2023). Adaptation Resources Workbook for California Specialty Crops. USDA California Climate Hub Technical Report <i>CACH-2023-1</i> . Davis, CA: U.S. Department of Agriculture, Climate Hubs. 55 p. climatehubs.usda.gov/sites/default/files/Adaptation Workbook WEB VERSION ONLY 6.26.23.pdf
CAR	Reference sheet	USDA Caribbean Climate Hub. Farm Planning Tool Reference sheet (2023). Available at https://caribbeanclimatehub.org/farm-planning-tool/
MW	Report	https://www.drought.gov/documents/quarterly-climate-impacts-and-outlook-midwest-region-june-2023
MW	Report	https://www.drought.gov/documents/quarterly-climate-impacts-and-outlook-great-lakes-region-june-2023
MW	Report	https://www.drought.gov/documents/quarterly-climate-impacts-and-outlook-missouri-river-basin-june-2023
MW	Report	https://www.drought.gov/drought-status-updates/drought-status-update-midwest-us-2023-06-23
MW	Report	https://www.climatehubs.usda.gov/sites/default/files/2023_04_26_MidwestFocusAgOutlook.pdf
MW	Report	https://www.climatehubs.usda.gov/sites/default/files/2023_06_06_MidwestFocusAgOutlook.pdf
MW	Report	https://www.climatehubs.usda.gov/sites/default/files/2023_06_23_MidwestFocusAgOutlook.pdf
NE	Newsletter article	https://www.climatehubs.usda.gov/hubs/northeast/topic/assessment-programs-incentivize-ecosystem-services-across-northeast
NE	Newsletter article	https://www.climatehubs.usda.gov/hubs/northeast/news/words-matter-how-language-climate-change-has-changed
NE	Newsletter article	https://www.climatehubs.usda.gov/hubs/northeast/topic/daily-runoff-forecasting-agricultural-watersheds-promising-tool-nutrient
NE	Project catalog	https://www.climatehubs.usda.gov/sites/default/files/USDANortheastClimateHubProjectCatalogueJune2023_508.pdf
NE	Sightline	https://www.climatehubs.usda.gov/hubs/northeast/sightline-report-1
NE	The Pulse - 4/13/23	http://n151.mjt.lu/nl3/uh3M_DOFPGo-raptru7EWA?hl=en
NE	The Pulse - 4/20/23	http://n151.mjt.lu/nl3/TgixO_LHtTNCY1EWh5CwBA?hl=en

NE	The Pulse - 4/27/23	http://n151.mjt.lu/nl3/UtC6j006PhpNmXDcsuc5dg?hl=en
NE	The Pulse - 4/6/23	http://n151.mjt.lu/nl3/eSjKUNfrec5W5eAmkMGFVw?hl=en
NE	The Pulse - 5/11/23	http://n151.mjt.lu/nl3/rhYkuijE4SaIn0yCzURWqg?hl=en
NE	The Pulse - 5/18/23	http://n151.mjt.lu/nl3/uuKfUHE0ExnXWVsBZEOw7Q?hl=en
NE	The Pulse - 5/25/23	http://n151.mjt.lu/nl3/HcnUIoJQfi7vjPpt24pv-A?hl=en
NE	The Pulse - 5/4/23	http://n151.mjt.lu/nl3/3PhP0hY5aWwWgLuqq0yNFA?hl=en
NE	The Pulse - 6/1/23	http://n151.mjt.lu/nl3/nT9YRp0iIjPmiWClpr-dnA?hl=en
NE	The Pulse - 6/15/23	http://n151.mjt.lu/nl3/6G9iRznFg_dhGVQleQhPlg?hl=en
NE	The Pulse - 6/22/23	http://n151.mjt.lu/nl3/lScYLEBwErpdIrrqGZv4xdw?hl=en
NE	The Pulse - 6/29/23	http://n151.mjt.lu/nl3/10raDzrd1dBA8KvW9MgTrQ?m=AVoAABwqZIUAAc3FGKgAAQuPjuoAAYCrzkIAJunsAAmJRABknY2zf3mkgYdtR8ec81JjEtGBFAAJCWO&b=bbb8cbb2&e=be00ca54&x=PZcG1MdrGsHzcORV6_Ko7Ai30eJ0b-bCvsCn8xTKhOw
NE	The Pulse - 6/8/23	http://n151.mjt.lu/nl3/7QBZPtkwkxwpl1eKoysctOw?hl=en
NF	Guide	Shannon, P.D.; Toot, R.; Rutledge, A.; Butler-Leopold, P.R.; Baroli, M. 2023. Considering climate change in tree planting. White Paper. Houghton, MI: U.S. Department of Agriculture, Northern Forests Climate Hub. 11 p. https://doi.org/10.32747/2023.8054015.ch
NF	Tree Species Vulnerability Assessment	Rutledge, A.; Brandt, L.A.. 2023. Puget Sound Region: Tree Species Vulnerability Assessment. White Paper. Houghton, MI: U.S. Department of Agriculture, Northern Forests Climate Hub. 61 p. https://doi.org/10.32747/2023.8054016.ch
NP	Magazine article	Kelley, W. 2023. "From One Extreme to the Other: Where we are & what can we expect?" Article in <i>CowCountry Magazine</i> , Spring 2023 (CowCountry is the quarterly magazine of the Wyoming Stock Growers Association with a circulation of more than 1,200.)
NP	Newspaper article	Pronovost, M. and Schmelzer, L. 2023. "Changing his focus," Article in Stillwater County News, March 16, 2023, https://www.stillwatercountynews.com/news/local/changing-his-focus/article_a9dbc578-c2b7-11ed-9bb4-b3b13b635754.html
NP	Newspaper column	Kelley, W. 2023. "Connecting Ag & Climate," April 29th edition. Monthly column in the Wyoming Livestock Roundup (5,600 print subscribers & ~ 100 on-line subscribers)
NP	Newspaper column	Kelley, W. 2023. "Connecting Ag & Climate," June 3rd edition. Monthly column in the Wyoming Livestock Roundup (5,600 print subscribers & ~ 100 on-line subscribers)
NP	Newspaper column	Kelley, W. 2023. "Connecting Ag & Climate," June 24th edition. Monthly column in the Wyoming Livestock Roundup (5,600 print subscribers & ~ 100 on-line subscribers)
NP	Online maps (with printable handout)	Peck, D., Hartman, M., Nothwehr, J. 2023. "Grass-Cast online maps: updated weekly with a downloadable handout," https://grasscast.unl.edu (7 sets of maps and associated downloadable handouts were made available online during FY23 Q3)
NP	Press release	Ortel, B. and Kelley, W. 2023. "UW Extension to Provide Updates on Wyoming Drought Conditions and Predictions," University of Wyoming News, April 2023.

<https://www.uwyo.edu/news/2023/04/uw-extension-to-provide-updates-on-wyoming-drought-conditions-and-predictions.html>

NW	Blog post	USDA Northwest Climate Hub 2023. Check It Out: Ensuring that Hazelnuts in Oregon and Washington Stay Resilient. https://www.agclimate.net/2023/04/06/check-it-out-ensuring-that-hazelnuts-in-oregon-and-washington-stay-resilient/
NW	Fact Sheet	USDA Northwest Climate Hub 2023. Snow Water Equivalent (SWE). https://www.climatehubs.usda.gov/sites/default/files/swe_60525673.pdf
NW	Fact Sheet	USDA Northwest Climate Hub 2023. Case study: Post-fire sugar pine reforestation in southwestern Oregon. https://www.climatehubs.usda.gov/sites/default/files/post_fire_sugar_pine.pdf
NW	Fact Sheet	USDA Northwest Climate Hub 2023. Case Study: Post-fire ponderosa pine reforestation in central Washington. https://www.climatehubs.usda.gov/sites/default/files/post_fire_ponderosa_pine.pdf
NW	Fact Sheet	USDA Northwest Climate Hub 2023. Case Study: Post-harvest reforestation in a coastal forest in southwestern Washington. https://www.climatehubs.usda.gov/sites/default/files/post_harvest_coast_range.pdf
NW	Web article	USDA Northwest Climate Hub 2023. Food Security and Justice at Calypso Farm, Alaska. https://www.climatehubs.usda.gov/hubs/northwest/topic/food-security-and-justice-calypso-farm-alaska
NW	Web article	USDA Northwest Climate Hub 2023. Reducing Urban Heat through Tree Planting in Boise. https://www.climatehubs.usda.gov/hubs/northwest/topic/reducing-urban-heat-through-tree-planting-boise
NW	Web article	USDA Northwest Climate Hub 2023. Alaska and a Changing Climate. https://www.climatehubs.usda.gov/hubs/northwest/topic/alaska-and-changing-climate
NW	Web article	USDA Northwest Climate Hub 2023. USDA Climate Hubs: A National Resource for Climate Science, Tools, and Information. https://www.climatehubs.usda.gov/hubs/northwest/news/usda-climate-hubs-national-resource-climate-science-tools-and-information
NW	Web article	USDA Northwest Climate Hub 2023. Tribal Food Sovereignty and Climate Change in the Northwest. https://www.climatehubs.usda.gov/hubs/northwest/topic/tribal-food-sovereignty-and-climate-change-northwest
NW	Web article	USDA Northwest Climate Hub 2023. Basics of Global Climate Models. https://www.climatehubs.usda.gov/hubs/northwest/topic/basics-global-climate-models
NW	Website	USDA Northwest Climate Hub 2023. Northwest Reforestation: choosing plant materials suited to current and future climates. https://www.climatehubs.usda.gov/hubs/northwest/topic/northwest-reforestation-choosing-plant-materials-suited-current-and-future
SE	Fact Sheet	Louisiana's Emerging Forest Threats https://www.climatehubs.usda.gov/sites/default/files/Louisiana%20Emerging%20Forest%20Threats_web.pdf
SE	Fact Sheet	Florida's Emerging Forest Threats https://www.climatehubs.usda.gov/sites/default/files/Flroida%20Emerging%20Forest%20Threats%20Fact%20Sheet_web.pdf

SP	Report	Hagerman, A.D., C. Spain, and C. Pope. 2023. "Climate Conversations with the Oklahoma Association of Conservation Districts Area Meeting Attendees." Report to the Southern Plains Climate Hub (https://www.climatehubs.usda.gov/content/climate-conversations-oklahoma-association-conservation-districts-area-meeting-attendees)
SW	Fact sheet and Storymap	Goats as a Tool for Fire Management on the Pueblo of Sandia. CCAST Case Study https://arcg.is/1q9944 https://lccnetwork.org/sites/default/files/Resources/Goats%20as%20a%20Tool%20for%20Fire%20Management%20on%20the%20Pueblo%20of%20Sandia.pdf
SW	Fact sheet and Storymap	Supporting Drought Adaptation on Navajo Rangelands. CCAST Case Study https://arcg.is/vve1O https://lccnetwork.org/sites/default/files/Resources/Supporting%20Drought%20Adaptation%20on%20Navajo%20Rangelands.pdf
SW	Fact sheet and Storymap	Community-Driven Water Management: The Tomorrow's Water Model for Playa Restoration https://storymaps.arcgis.com/stories/b212c2a9255d41cba4181d1a1c28463d https://lccnetwork.org/sites/default/files/Resources/Community-Driven%20Water%20Management%20-%20The%20Tomorrow's%20Water%20Model%20for%20Playa%20Restoration.pdf

Peer reviewed

Region	Product	Citation
CA	Research article	Johnson D., Almaraz M., Rudnick J., Parker L.E., Ostoja S.M., Khalsa S.D.S. (2023) Farmer adoption of climate-smart practices is driven by farm characteristics, information sources, and practice benefits and challenges. Sustainability 15(10), 8083 https://www.researchgate.net/publication/370851324_Farmer_Adoption_of_Climate-Smart_Practices_Is_Driven_by_Farm_Characteristics_Information_Sources_and_Practice_Benefits_and_Challenges DOI:10.3390/su15108083
NE	Research article	https://doi.org/10.1002/saj2.20551
NE	Research article	https://doi.org/10.3390/su15086346
NP	Research article	Wulforth, J.D., J. Bruno, D. Toledo, H. Wilmer, D. Archer, D.E. Peck, D. Huggins. 2022. Infusing 'long-term' into social science rangelands research. Rangelands 44(5): 299-305. https://doi.org/10.1016/j.rala.2022.06.001
SE	Research article	Akerlof, K.L.; Timm, K.F.M.; Chase, A., Heath, E., McGhghy, B.A., Bamzai-Dodson, A., Bogard, G., Carter, S., Garron, J., Gavazzi, M., Kettle, N., Labriole, M., Little, J.S., Madajewicz, M., Reyes, J., Rivers III, L., Sheats, J.L., Simpson, C.F., Toohey, R.C.2023. What does equitable co-production entail? Three perspectives. Community Science 2:2, p. 23. https://doi.org/10.1029/2022CSJ000021
SP	Research Article	Spiegel, S., R.E. Estell, A.F. Cibils, E. Armstrong, L.J. Blanco, B.T. Bestelmeyer. 2023. Can heritage Criollo cattle promote sustainability in a changing world? Journal of Arid Environments https://doi.org/10.1016/j.jaridenv.2023.104980
SW	Journal article	Elias, E. et.al. 2023. A vision for integrated, collaborative solutions to critical water and food challenges. Journal of Soil and Water Conservation. 78 (3) 63A-68A. https://doi.org/10.2489/jswc.2023.1220A
SW	Journal article	Elias, E., et al., 2023. Evolution of the Southwest Drought Learning Network: Collective Response to Exceptional Drought, Bulletin of the American Meteorological Society, 104 (5), E935–E942 https://doi.org/10.1175/BAMS-D-22-0017.1

SW Research article Duni, D.M., McIntosh, M.M., et al. 2023. Foraging behavior of Raramuri Criollo vs. Angus cattle grazing California Chaparral and Colorado Plateau shrublands. *Journal of Arid Environments*, 213, p.104975. <https://doi.org/10.1016/j.jaridenv.2023.104975>