

APPENDIX F — CLIMATE RESEARCH SUMMARY

NAME	YEAR	AUTHORS	URL	CITATION
<b>A summary of current trends and probable future trends in climate and climate-driven processes for the Six River National Forest and surrounding lands.</b>	2015	Butz, J.R., Sawyer S. and Safford	<a href="https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/fseprd490216.pdf">https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/fseprd490216.pdf</a>	Butz, j.r., sawyer s. And safford h., 2015. A summary of current trends and probable future trends in climate and climate-driven processes for the six river national forest and surrounding lands. Usda forest service report, 38 p.
<b>A summary of current trends and probable future trends in climate and climate-driven processes for the Six River National Forest and surrounding lands.</b>	2010	Butz, R. J. and Safford H.	<a href="https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5251124.pdf">https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5251124.pdf</a>	Butz, R. J. and Safford H., 2010. A summary of current trends and probable future trends in climate and climate-driven processes for the Six River National Forest and surrounding lands. USDA Forest Service Report, 18 p.
<b>Adapt to more wildfire in western North American forests as climate changes.</b>	2017	Schoennagel, T., Balch, J.K., Brenkert-Smith, H., Dennison, P.E., Harvey, B.J., Krawchuk, M.A., Mietkiewicz, N., Morgan, P., Moritz, M.A., Rasker, R. and Turner, M.G.	<a href="http://www.pnas.org/content/114/18/4582.short">http://www.pnas.org/content/114/18/4582.short</a>	Schoennagel, T., Balch, J.K., Brenkert-Smith, H., Dennison, P.E., Harvey, B.J., Krawchuk, M.A., Mietkiewicz, N., Morgan, P., Moritz, M.A., Rasker, R. and Turner, M.G., 2017. Adapt to more wildfire in western North American forests as climate changes. Proceedings of the National Academy of Sciences, 114(18), pp.4582-4590.
<b>Adapting forests to climate change.</b>	2017	Marshall, A., S. Kocher, A. Kerr, P. Stine	<a href="http://anrcatalog.ucanr.edu">http://anrcatalog.ucanr.edu</a>	Marshall, A., S. Kocher, A. Kerr, P. Stine, 2017. Forest Stewardship Series 25: Adapting Forests to Climate Change. 14p. University of California-Agricultural and Natural Resources.
<b>Beyond a warming fingerprint: individualistic biogeographic responses to heterogeneous climate change in California.</b>	2014	Rapacciuolo, G., Maher, S.P., Schneider, A.C., Hammond, T.T., Jabis, M.D., Walsh, R.E., Iknayan, K.J., Walden, G.K., Oldfather, M.F., Ackerly, D.D. and Beissinger, S.R.	<a href="https://onlinelibrary.wiley.com/doi/full/10.1111/qcb.12638">https://onlinelibrary.wiley.com/doi/full/10.1111/qcb.12638</a>	Rapacciuolo, G., Maher, S.P., Schneider, A.C., Hammond, T.T., Jabis, M.D., Walsh, R.E., Iknayan, K.J., Walden, G.K., Oldfather, M.F., Ackerly, D.D. and Beissinger, S.R., 2014. Beyond a warming fingerprint: individualistic biogeographic responses to heterogeneous climate change in California. Global change biology, 20(9), pp.2841-2855.

**HUMBOLDT COUNTY COMMUNITY WILDFIRE PROTECTION PLAN, PUBLIC REVIEW DRAFT**

<b>Carbon dynamics in the future forest: the importance of long-term successional legacy and climate–fire interactions.</b>	2013	Loudermilk, E.L., Scheller, R.M., Weisberg, P.J., Yang, J., Dilts, T.E., Karam, S.L. and Skinner, C	<a href="https://onlinelibrary.wiley.com/doi/full/10.1111/qcb.12310">https://onlinelibrary.wiley.com/doi/full/10.1111/qcb.12310</a>	Loudermilk, E.L., Scheller, R.M., Weisberg, P.J., Yang, J., Dilts, T.E., Karam, S.L. and Skinner, C., 2013. Carbon dynamics in the future forest: the importance of long-term successional legacy and climate–fire interactions. <i>Global Change Biology</i> , 19(11), pp.3502-3515.
<b>Climate and Natural Resources Analysis And Planning For The North Coast Resource Partnership [report and tables] and Map And Time Series Data Visualizations [maps]</b>	2018	Micheli, L., C. D., Pepperwood and L. Flint.	<a href="https://northcoastresourcepartnership.org/site/assets/uploads/2018/06/NCRP_Report_Pepperwood_v3.pdf">https://northcoastresourcepartnership.org/site/assets/uploads/2018/06/NCRP_Report_Pepperwood_v3.pdf</a>	Micheli, L., C. D., Pepperwood and L. Flint, 2018. Climate And Natural Resources Analysis And Planning For The North Coast Resource Partnership. USGS report.
<b>Climate change and disruptions to global fire activity.</b>	2012	Moritz, M.A., Parisien, M.A., Batllori, E., Krawchuk, M.A., Van Dorn, J., Ganz, D.J. and Hayhoe, K.	<a href="https://esajournals.onlinelibrary.wiley.com/doi/full/10.1890/E511-00345.1">https://esajournals.onlinelibrary.wiley.com/doi/full/10.1890/E511-00345.1</a>	Moritz, M.A., Parisien, M.A., Batllori, E., Krawchuk, M.A., Van Dorn, J., Ganz, D.J. and Hayhoe, K., 2012. Climate change and disruptions to global fire activity. <i>Ecosphere</i> , 3(6), pp.1-22.
<b>Climate change and future fire regimes: examples from California.</b>	2016	Keeley, J.E. and Syphard, A.D.	<a href="http://www.mdpi.com/2076-3263/6/3/37/html">http://www.mdpi.com/2076-3263/6/3/37/html</a>	Keeley, J.E. and Syphard, A.D., 2016. Climate change and future fire regimes: examples from California. <i>Geosciences</i> , 6(3), p.37.
<b>Climatic stress increases forest fire severity across the western United States.</b>	2013	van Mantgem P. J., J. C. B. Nesmith, M. Keifer, E. E. Knapp, A. Flint and L. Flint	<a href="https://www.fs.fed.us/psw/publications/knapp/psw_2013_knapp001_vanmantgem.pdf">https://www.fs.fed.us/psw/publications/knapp/psw_2013_knapp001_vanmantgem.pdf</a>	van Mantgem P. J., J. C. B. Nesmith, M. Keifer, E. E. Knapp, A. Flint and L. Flint, 2013. <i>Ecology Letters</i> 16: pp.1151–1156
<b>County-level analysis of the impact of temperature and population increases on California wildfire data</b>	2013	Baltar, M., Keeley, J.E. and Schoenberg, F.P.	<a href="https://onlinelibrary.wiley.com/doi/full/10.1002/env.2257">https://onlinelibrary.wiley.com/doi/full/10.1002/env.2257</a>	Baltar, M., Keeley, J.E. and Schoenberg, F.P., 2014. County-level analysis of the impact of temperature and population increases on California wildfire data. <i>Environmetrics</i> , 25(6), pp.397-405.
<b>Cultural impacts to tribes from climate change influences on forests.</b>	2013	Voggeser, G., Lynn, K., Daigle, J., Lake, F.K. and Ranco, D.	<a href="https://link.springer.com/article/10.1007/s10584-013-0733-4">https://link.springer.com/article/10.1007/s10584-013-0733-4</a>	Voggeser, G., Lynn, K., Daigle, J., Lake, F.K. and Ranco, D., 2013. Cultural impacts to tribes from climate change influences on forests. <i>Climatic change</i> , 120(3), pp.615-626.

**HUMBOLDT COUNTY COMMUNITY WILDFIRE PROTECTION PLAN, PUBLIC REVIEW DRAFT**

<p><b>Effects of drought on forests and rangelands in the United States: a comprehensive science synthesis.</b></p>	<p>2016</p>	<p>Vose, James M.; Clark, James S.; Luce, Charles H.; Patel-Weynand, Toral</p>	<p><a href="https://www.fs.usda.gov/treesearch/pubs/50261">https://www.fs.usda.gov/treesearch/pubs/50261</a></p>	<p>Vose, James M.; Clark, James S.; Luce, Charles H.; Patel-Weynand, Toral, eds. 2016. Effects of drought on forests and rangelands in the United States: A comprehensive science synthesis. Gen. Tech. Rep. WO-93b. Washington, DC: U.S. Department of Agriculture, Forest Service, Washington Office. 289 p.</p>
<p><b>Factors influencing fire severity under moderate burning conditions in the Klamath Mountains, northern California, USA.</b></p>	<p>2017</p>	<p>Estes, B.L., Knapp, E.E., Skinner, C.N., Miller, J.D. and Preisler</p>	<p><a href="https://esajournals.onlinelibrary.wiley.com/doi/abs/10.1002/ecs2.1794">https://esajournals.onlinelibrary.wiley.com/doi/abs/10.1002/ecs2.1794</a></p>	<p>Estes, B.L., Knapp, E.E., Skinner, C.N., Miller, J.D. and Preisler, H.K., 2017. Factors influencing fire severity under moderate burning conditions in the Klamath Mountains, northern California, USA. <i>Ecosphere</i>, 8(5).</p>
<p><b>Contingent Pacific- Atlantic influence on multicentury wildfire synchrony over western North America.</b></p>	<p>2007</p>	<p>Kitzberger, T., P.M. Brown, E. K. Heyerdahl, T. W. Swetnam and T.T. Veblen.</p>	<p><a href="http://www.pnas.org/content/104/2/543.short">http://www.pnas.org/content/104/2/543.short</a></p>	<p>Kitzberger, T., Brown, P.M., Heyerdahl, E.K., Swetnam, T.W. and Veblen, T.T., 2007. Contingent Pacific–Atlantic Ocean influence on multicentury wildfire synchrony over western North America. <i>Proceedings of the National Academy of Sciences</i>, 104(2), pp.543-548.</p>
<p><b>Greenhouse gas emissions assessment roadmap for the North Coast Resource Partnership Region.</b></p>	<p>2017</p>	<p>Carman, J.</p>	<p><a href="http://www.northcoastresourcepartnership.org/files/managed/Document/9629/NCRP_Tech-Area-3_FINAL_2017-05-18.pdf">http://www.northcoastresourcepartnership.org/files/managed/Document/9629/NCRP_Tech-Area-3_FINAL_2017-05-18.pdf</a></p>	<p>Carman, J. 2017. Greenhouse gas emissions assessment roadmap for the North Coast Resource Partnership Region. Final Technical Report, 49 p.</p>
<p><b>High-severity wildfire effects on carbon stocks and emissions in fuels treated and untreated forest.</b></p>	<p>2011</p>	<p>North, M.P. and Hurteau, M.D.</p>	<p><a href="https://www.sciencedirect.com/science/article/pii/S037811271000753X">https://www.sciencedirect.com/science/article/pii/S037811271000753X</a></p>	<p>North, M.P. and Hurteau, M.D., 2011. High-severity wildfire effects on carbon stocks and emissions in fuels treated and untreated forest. <i>Forest Ecology and Management</i>, 261(6), pp.1115-1120.</p>
<p><b>Human presence diminishes the importance of climate in determining U.S. fire activity.</b></p>	<p>2017</p>	<p>Syphard, A., J.E. Keeley, A. Pfaff, and K. Ferschweiler</p>	<p><a href="http://www.pnas.org/content/early/2017/12/05/1713885114.short">http://www.pnas.org/content/early/2017/12/05/1713885114.short</a></p>	<p>Syphard, A., J.E. Keeley, A. Pfaff, and K. Ferschweiler. 2017. Human presence diminishes importance of climate in driving fire activity across the United States. <i>PNAS</i> 114(52): 13750- 13755. doi: 10.1073/pnas.1713885114</p>

**HUMBOLDT COUNTY COMMUNITY WILDFIRE PROTECTION PLAN, PUBLIC REVIEW DRAFT**

<b>Managing forests and fire in changing climates.</b>	2013	Stephens, S.L., Agee, J.K., Fulé, P.Z., North, M.P., Romme, W.H., Swetnam, T.W. and Turner, M.G	<a href="http://science.sciencemaq.org/content/342/6154/41">http://science.sciencemaq.org/content/342/6154/41</a>	Stephens, S.L., Agee, J.K., Fulé, P.Z., North, M.P., Romme, W.H., Swetnam, T.W. and Turner, M.G., 2013. Managing forests and fire in changing climates. Science, 342(6154), pp.41-42.
<b>NCRP climate and natural resources analysis and planning for the North Coast Resource Partnership, map and time series data visualizations.</b>	2016	Micheli, L., Dodge, C. and Flint, L.	<a href="http://www.northcoastresourcepartnership.org/files/managed/Document/9631/16-12-30%20PW-USGS%20NCRP%20map%20and%20data%20visualizations%20deck.pdf">http://www.northcoastresourcepartnership.org/files/managed/Document/9631/16-12-30%20PW-USGS%20NCRP%20map%20and%20data%20visualizations%20deck.pdf</a>	Micheli, L., Dodge, C. and Flint, L., 2016. Climate And Natural Resources Analysis And Planning For The North Coast Resource Partnership.
<b>North Coast Integrated Regional Planning – healthy communities, functional watersheds and viable economies. Technical Memo: baseline data assessment and analysis.</b>	2017	Micheli L., C. Dodge and L. Flint	<a href="http://www.northcoastresourcepartnership.org/app_pages/view/9634">http://www.northcoastresourcepartnership.org/app_pages/view/9634</a>	Micheli L., C. Dodge and L. Flint, 2017. North Coast Integrated Regional Planning – healthy communities, functional watersheds and viable economies. Technical Memo: baseline data assessment and analysis.
<b>North coast regional climate adaptation strategies.</b>	2018	Reza, K. & Tinsman, R.	<a href="http://www.northcoastresourcepartnership.org">http://www.northcoastresourcepartnership.org</a>	Reza, K. & Tinsman, R. 2018. North coast regional climate adaptation strategies. North Coast Regional Climate Adaptation Strategies Report, 51 p.
<b>North coast resource partnership integrated strategic plan.</b>	2017	Zoellick, J. & Harris, A.	<a href="http://www.northcoastresourcepartnership.org">http://www.northcoastresourcepartnership.org</a>	Zoellick J. and Harris, A. 2017. North coast resource partnership integrated strategic plan. North Coast Regional Climate Adaptation Strategies Report.
<b>Projected effects of climate and development on California wildfire emissions through 2100.</b>	2014	Hurteau, M.D., Westerling, A.L., Wiedinmyer, C. and Bryant, B.P.	<a href="https://pubs.acs.org/doi/abs/10.1021/es4050133">https://pubs.acs.org/doi/abs/10.1021/es4050133</a>	Hurteau, M.D., Westerling, A.L., Wiedinmyer, C. and Bryant, B.P., 2014. Projected effects of climate and development on California wildfire emissions through 2100. Environmental science & technology, 48(4), pp.2298-2304.
<b>Restoring fire-prone Inland Pacific landscapes: seven core principles</b>	2015	Hessburg, P.F., Churchill, D.J., Larson, A.J., Haugo, R.D., Miller, C., Spies, T.A., North, M.P., Povak, N.A.,	<a href="https://www.fs.fed.us/pnw/pubs/journals/pnw_2015_hessburg001.pdf">https://www.fs.fed.us/pnw/pubs/journals/pnw_2015_hessburg001.pdf</a>	Hessburg, P.F., Churchill, D.J., Larson, A.J., Haugo, R.D., Miller, C., Spies, T.A., North, M.P., Povak, N.A., Belote, R.T., Singleton, P.H. and Gaines, W.L., 2015. Restoring fire-prone Inland Pacific landscapes: seven core principles. Landscape Ecology, 30(10), pp.1805-1835.

**HUMBOLDT COUNTY COMMUNITY WILDFIRE PROTECTION PLAN, PUBLIC REVIEW DRAFT**

		Belote, R.T., Singleton, P.H. and Gaines		
<b>The fire frequency-severity relationship and the legacy of fire suppression in California forests</b>	2015	Steel, Z.L., Safford, H.D. and Viers, J.H.	<a href="https://esajournals.onlinelibrary.wiley.com/doi/abs/10.1890/ES14-00224.1">https://esajournals.onlinelibrary.wiley.com/doi/abs/10.1890/ES14-00224.1</a>	Steel, Z.L., Safford, H.D. and Viers, J.H., 2015. The fire frequency-severity relationship and the legacy of fire suppression in California forests. <i>Ecosphere</i> , 6(1), pp.1-23.
<b>The impact of climate change on wildfire severity: a regional forecast for northern California</b>	2004	Fried, J.S., Torn, M.S. and Mills, E.	<a href="https://link.springer.com/article/10.1023/B:CLIM.0000024667.89579.ed">https://link.springer.com/article/10.1023/B:CLIM.0000024667.89579.ed</a>	Fried, J.S., Torn, M.S. and Mills, E., 2004. The impact of climate change on wildfire severity: a regional forecast for northern California. <i>Climatic change</i> , 64(1-2), pp.169-191.
<b>Trees already stressed by drought may be more likely to die from fire.</b>	2013	USGS Western Ecological Research Center	<a href="https://static1.squarespace.com/static/545a90ede4b026480c02c5c7/t/5528b863e4b02488e95eca46/1428732003590/WE-RC+PubBrief+201309+van+Mantgem+-+Climatic+Stress.pdf">https://static1.squarespace.com/static/545a90ede4b026480c02c5c7/t/5528b863e4b02488e95eca46/1428732003590/WE-RC+PubBrief+201309+van+Mantgem+-+Climatic+Stress.pdf</a>	USGS Western Ecological Research Center, 2013. Trees already stressed by drought may be more likely to die from fire. USGS Publication Brief. <a href="http://www.werc.usgs.gov">www.werc.usgs.gov</a>
<b>Trends and causes of severity, size, and number of fires in northwestern California, USA.</b>	2012	Miller, J.D., Skinner, C.N., Safford, H.D., Knapp, E.E. and Ramirez, C.M	<a href="https://esajournals.onlinelibrary.wiley.com/doi/full/10.1890/10-2108.1">https://esajournals.onlinelibrary.wiley.com/doi/full/10.1890/10-2108.1</a>	Miller, J.D., Skinner, C.N., Safford, H.D., Knapp, E.E. and Ramirez, C.M., 2012. Trends and causes of severity, size, and number of fires in northwestern California, USA. <i>Ecological Applications</i> , 22(1), pp.184-203.
<b>Twentieth-century shifts in forest structure in California: denser forests, smaller trees, and increased dominance of oaks.</b>	2015	McIntyre, P.J., Thorne, J.H., Dolanc, C.R., Flint, A.L., Flint, L.E., Kelly, M. and Ackerly, D.D	<a href="http://www.pnas.org/content/112/5/1458.short">http://www.pnas.org/content/112/5/1458.short</a>	McIntyre, P.J., Thorne, J.H., Dolanc, C.R., Flint, A.L., Flint, L.E., Kelly, M. and Ackerly, D.D., 2015. Twentieth-century shifts in forest structure in California: Denser forests, smaller trees, and increased dominance of oaks. <i>Proceedings of the National Academy of Sciences</i> , 112(5), pp.1458-1463.
<b>Vulnerability to forest loss through altered postfire recovery dynamics in a warming climate in the Klamath</b>	2017	Tepley, A.J., Thompson, J.R., Epstein, H.E. and Anderson-Teixeira, K.J.	<a href="https://onlinelibrary.wiley.com/doi/full/10.1111/qcb.13704">https://onlinelibrary.wiley.com/doi/full/10.1111/qcb.13704</a>	Tepley, A.J., Thompson, J.R., Epstein, H.E. and Anderson-Teixeira, K.J., 2017. Vulnerability to forest loss through altered postfire recovery dynamics in a warming climate in the Klamath Mountains. <i>Global change biology</i> , 23(10), pp.4117-4132.

**HUMBOLDT COUNTY COMMUNITY WILDFIRE PROTECTION PLAN, PUBLIC REVIEW DRAFT**

<b>What's exacerbating California fires?</b>	2015	Central and Southern California Team- USGS.	-	Central and Southern California Team- USGS, 2015. What's exacerbating California fires? - Research Brief for Resource Managers. <a href="http://www.CaFireSci.org">http:// www.CaFireSci.org</a>
<b>Structure, Diversity, and Biophysical Properties of Old-Growth Forests in the Klamath Region, USA</b>	2015	Van Mantgem, P. J., and D. A. Sarr.	<a href="https://pubs.er.usgs.gov/publication/70157197">https://pubs.er.usgs.gov/publication/70157197</a>	Van Mantgem, P. J., and D. A. Sarr. 2015. Structure, diversity, and biophysical properties of old-growth forests in the Klamath region, USA. Northwest Science 89:170-181.
<b>Interactions of climate, fire, and management in future forests of the Pacific Northwest</b>	2014	Wimberly, M.C. and Z. Liu	<a href="https://www.sciencedirect.com/science/article/pii/S0378112713006579">https://www.sciencedirect.com/science/article/pii/S0378112713006579</a>	Wimberly, M. C., and Z. Liu. 2014. Interactions of climate, fire, and management in future forests of the Pacific Northwest. Forest Ecology and Management 327:270-279.
<b>Wildfire trends in northwestern California forests.</b>	2012	Northern California Fire Science Delivery Consortium	<a href="http://www.cafiresci.org/research-publications-source/category/wildfire-trends-in-northwestern-california-forests-1?rq=Wildfire%20trends%20in%20northwestern%20California%20forests.">http://www.cafiresci.org/research-publications-source/category/wildfire-trends-in-northwestern-california-forests-1?rq=Wildfire%20trends%20in%20northwestern%20California%20forests.</a>	Northern California Fire Science Delivery Consortium, 2012. Wildfire trends in northwestern California forests - Research Brief for Resource Managers. <a href="http://www.CaFireSci.org">http:// www.CaFireSci.org</a>
<b>Warming and earlier spring increase western U.S. forest wildfire activity.</b>	2006	Westerling, A.L., Hidalgo, H.G., Cayan, D.R. and Swetnam, T.W	<a href="https://www.fs.usda.gov/treesearch/pubs/download/24813.pdf">https://www.fs.usda.gov/treesearch/pubs/download/24813.pdf</a>	Westerling, A.L., Hidalgo, H.G., Cayan, D.R. and Swetnam, T.W., 2006. Warming and earlier spring increase western US forest wildfire activity. science, 313(5789), pp.940-943.
<b>Large wildfire trends in the western United States, 1984–2011.</b>	2014	Dennison, P.E., Brewer, S.C., Arnold, J.D. and Moritz, M.A	<a href="https://aquapubs.onlinelibrary.wiley.com/doi/full/10.1002/2014GL059576">https://aquapubs.onlinelibrary.wiley.com/doi/full/10.1002/2014GL059576</a>	Dennison, P.E., Brewer, S.C., Arnold, J.D. and Moritz, M.A., 2014. Large wildfire trends in the western United States, 1984–2011. Geophysical Research Letters, 41(8), pp.2928-2933.
<b>Impact of anthropogenic climate change on wildfire across western US forests.</b>	2016	Abatzoglou, J.T. and Williams, A.P	<a href="http://www.pnas.org/content/113/42/11770.full">http://www.pnas.org/content/113/42/11770.full</a>	Abatzoglou, J.T. and Williams, A.P., 2016. Impact of anthropogenic climate change on wildfire across western US forests. Proceedings of the National Academy of Sciences, 113(42), pp.11770-11775.