

References and Additional Resources

for **Biomass Energy Training Curriculum**: <http://articles.extension.org/pages/73919>

Adler, P.R., S.J. Del Grosso, and W.J. Parton. 2007. Life-cycle assessment of net greenhouse-gas flux for bioenergy cropping systems. *Ecological Applications* 17(3):675-691. Available at: <http://onlinelibrary.wiley.com/doi/10.1890/05-2018/epdf>

Ashworth, A., P. Keyser, F. Allen, G. Bates, and C. Harper. 2012. Intercropping legumes with native warm-season grasses for livestock forage production in the mid-South. University of Tennessee Extension, SP731-G. Available at: http://trace.tennessee.edu/cgi/viewcontent.cgi?article=1100&context=utk_agexani

Basha, S.A., K.R. Gopal., and S. Jebaraj. 2009. A review on biodiesel production, combustion, emissions and performance. *Renewable and Sustainable Energy Reviews* 13:1628-1634.

Bansal, A., P. Illukpitiya, S.P. Singh, and F. Tegegne. 2013. Economic competitiveness of ethanol production from cellulosic feedstock in Tennessee. *Renewable Energy* 59:53-57.

Benson, G.A., and J.T. Green, Jr. 2013. Forage economics. North Carolina Cooperative Extension Service. Available at: <http://content.ces.ncsu.edu/forage-economics>

Berglund, D.R. (ed.). 2007. Sunflower production. North Dakota State University Extension Service, A-1331. Available at: <https://www.ag.ndsu.edu/extensionentomology/recent-publications-main/publications/A-1331-sunflower-production-field-guide>

Bhardwaj, H. Canola – biodiesel. Available at: <http://www.learningace.com/doc/2578471/5a6a2b7473e6087a1e0cfc600b95a093/0922-1430-a3-bhardwaj>

Bhardwaj, H. 2007. Utilizing locally-produced canola to manufacture biodiesel. *In* J. Janick and A. Whipkey (eds.) *Issues in new crops and new uses*. ASHS Press, Alexandria, VA.

Biodiesel magazine. 2015. USA plants. Available at: <http://www.biodieselmagazine.com/plants/listplants/USA/>

Braun, R., D. Karlen, and D. Johnson. 2011. Sustainable feedstocks for advanced biofuels. Sustainable alternative fuel feedstock opportunities, challenges, and roadmaps for six U.S. regions. Soil and Water Conservation Society, Ankeny, IA. Available at: http://www.swcs.org/en/conferences/specialty_conferences/sustainable_feedstocks_roadmap/

Buntin, D., T. Grey, G.H. Harris, Jr., D. Phillips, E. Prostko, P. Raymer, N. Smith, P. Sumner, J. Woodruff. 2013. Canola production in Georgia. The University of Georgia Cooperative Extension, Bulletin 1331. Available at: http://extension.uga.edu/publications/files/pdf/B%201331_4.PDF

Clarens, A.F., E.P. Resurreccion, M.A. White, and L.M. Colosi. 2010. Environmental life cycle comparison of algae to other bioenergy feedstocks. *Environmental Science & Technology* 44:1813-1819. Available at: <http://pubs.acs.org/doi/pdf/10.1021/es902838n>

Collins, H.P., R. Boydston, A. Alva, A. Hang, S. Fransen, P. Wanderschnieder. Biofuel variety trials. Available at: <http://www.pacificbiomass.org/documents/OilSeed/BiofuelsVarietyTrialsHalCollins.pdf>

Dale, B.E., B.D. Bals, S. Kim, and P. Eranki. 2010. Biofuels done right: land efficient animal feeds enable large environmental and energy benefits. *Environmental Science & Technology* 44(22):8385-8389. Available at: <http://pubs.acs.org/doi/pdf/10.1021/es101864b>

Davison, B.H. 2015. Cellulosic biofuels: continued R&D challenges during pioneer biorefinery deployment. Oak Ridge National Laboratory. Available at: <http://web.ornl.gov/sci/aiche/presentations/intro%20to%20bioenergy%20ORNL%20Davison%2011-18-15%20AICHE%20local%20r1%20Compatibility%20Mode.pdf>

Demirbas, A. 2009. Progress and recent trends in biodiesel fuels. *Energy Conversion and Management* 50:14-34.

Dunford, N.T., and A. Su. 2010. Effect of canola oil quality on biodiesel conversion efficiency and properties. *Transactions of the ASABE* 53(3):993-997.

Fike, J.H., D.J. Parrish, D.D. Wolf, J.A. Balasko, J.T. Green, Jr., M. Rasnake, J.H. Reynolds. 2006. Switchgrass production for the upper southeastern USA: influence of cultivar and cutting frequency on biomass yields. *Biomass and Bioenergy* 30:207-213. Available at: <http://www.sciencedirect.com/science/article/pii/S0961953405001819>

Fore, S.R., P. Porter, and W. Lazarus. 2011. Net energy balance of small-scale on-farm biodiesel production from canola and soybean. *Biomass and Bioenergy* 35:2234-2244.

George, N. and K. Tungate. Oilseed production for biodiesel in North Carolina. Available at: <http://www.cefs.ncsu.edu/whatwedo/energy/nicholasgeorge.pdf>

Gerbens-Leenes, P.W., A.Y. Hoekstra, and T.H. van der Meer. 2008. Water footprint of bio-energy and other primary energy carriers. UNESCO-IHE Institute for Water Education. Value of Water Research

Report Series No. 29. Available at: <http://waterfootprint.org/media/downloads/Report29-WaterFootprintBioenergy.pdf>

Gerbens-Leenes, P.W., A.Y. Hoekstra, and T.H. van der Meer. 2009. The water footprint of bioenergy. Proceedings of the National Academy of Sciences 106(25):10219-10223. Available at: <http://www.pnas.org/content/106/25/10219.full.pdf>

Godsey, C., R. Taylor, and M. Boyles. 2011. No-till winter canola considerations. Oklahoma Cooperative Extension Service, PSS-2153. Available at: <http://canola.okstate.edu/ocesfactsheets/No-Till%20Winter%20Canola%20Considerations%20PSS-2153.pdf>

Gog, A., M. Roman, M. Toşa, C. Paizs, and F. Dan Irimie. 2012. Biodiesel production using enzymatic transesterification – current state and perspectives. Renewable energy 39:10-16.

Jaeger, W.K., and R. Siegel. 2008. Economics of oilseed crops and their biodiesel potential in Oregon's Willamette Valley. Oregon State University Extension Service, Special Report 1081. Available at: http://ir.library.oregonstate.edu/xmlui/bitstream/handle/1957/8503/SR_no.1081_ocr.pdf

Karlen, D. L., P. G. Hunt and R. B. Campbell. 1984. Crop residue removal effects on corn yield and fertility of a Norfolk sandy loam. Soil Science Society of America Journal 48(4): 868-872.

Keyser, P., C. Harper, G. Bates, J. Waller, and E. Doxon. 2011a. Native warm-season grasses for mid-South forage production. University of Tennessee Extension, SP731-A. Available at: <http://nativegrasses.utk.edu/publications/SP731-A.pdf>

Keyser, P., C. Harper, G. Bates, J. Waller, and E. Doxon. 2011b. Establishing native warm-season grasses for livestock forage in the mid-South. University of Tennessee Extension, SP731-B. Available at: <http://nativegrasses.utk.edu/publications/SP731-B.pdf>

Keyser, P., G. Bates, J. Waller, C. Harper, and E. Doxon. 2011c. Grazing native warm-season grasses in the mid-south. University of Tennessee Extension, SP731-C. Available at: <http://nativegrasses.utk.edu/publications/SP731-C.pdf>

Keyser, P., G. Bates, J. Waller, C. Harper, F. Allen, and E. Doxon. 2011d. Producing hay from native warm-season grasses in the mid-South. University of Tennessee Extension, SP731-D. Available at: <http://nativegrasses.utk.edu/publications/SP731-D.pdf>

Keyser, P., G. Bates, J. Waller, C. Harper, F. Allen, and E. Doxon Holcomb, D. McIntosh. 2015. Producing hay from native warm-season grasses in the mid-South. University of Tennessee Extension, SP731-D.



Kumar, P., D.M. Barrett, M.J. Delwiche, and P. Stroeve. 2009. Methods for pretreatment of lignocellulosic biomass for efficient hydrolysis and biofuel production. *Industrial & Engineering Chemistry Research* 48(8):3713-3729. Available at: <http://ucanr.edu/datastoreFiles/234-1388.pdf>

Ma, F., and M.A. Hanna. 1999. Biodiesel production: a review. *Bioresource Technology* 70:1-15.

Magdoff, F., and H. van Es. 2009. Building soils for better crops. Sustainable Agriculture Research and Education (SARE) Program, SARE Outreach Publications, Brentwood, MD.

McClure, M.A., F.L. Allen, R.D. Johnson, L.G. Heatherly. 2010. Sunflower: an alternative crop for Tennessee producers. UT Extension Publication, SP721. Available at: <http://varietytrials.tennessee.edu/archivedpdfs/2009trialdata/sunflowers.pdf>

Mercker, D. 2007. Short rotation woody crops for biofuel. UT Extension, SP702-C. Available at: <https://extension.tennessee.edu/publications/Documents/SP702-C.pdf>

Mitchell, R. 2011. Herbaceous perennials: placement, benefits, and incorporation challenges in diversified landscapes. *In* Braun, R., D. Karlen, and D. Johnson. 2011. Sustainable feedstocks for advanced biofuels. Sustainable alternative fuel feedstock opportunities, challenges, and roadmaps for six U.S. regions. Soil and Water Conservation Society, Ankeny, IA. Available at: http://www.swcs.org/documents/resources/Chapter_6_Mitchell_Herbaceous_Per_49DCB2E0820DF.pdf

Mitchell, R., Vogel, K. P. and Sarath, G. 2008. Managing and enhancing switchgrass as a bioenergy feedstock. *Biofuels, Bioproducts and Biorefining* 2:530-539.

NREL. 2014. The biofuels atlas. National Renewable Energy Laboratory. Available at: <https://maps.nrel.gov/biofuels-atlas/>

Ozsezen, A.N., and M. Canakci. 2011. Determination of performance and combustion characteristics of a diesel engine fueled with canola and waste palm oil methyl esters. *Energy Conversion and Management* 52:108-116.

Pahl, G. 2005. Biodiesel: growing a new energy economy. Chelsea Green Publishing Company, White River Junction, Vermont.

Philipp, D., and J.A. Jennings. 2015. Management of hay production. University of Arkansas Cooperative Extension Service, MP434. Available at: <http://www.uaex.edu/publications/pdf/mp434.pdf>

Biomass Energy Training Curriculum



Schneiter, A.A., J.F. Miller, and D.R. Berglund. 2013. Stages of sunflower development. North Dakota State University Extension Service, A1145. Available at:

<https://www.ag.ndsu.edu/pubs/plantsci/crops/a1145.pdf>

Schumacher, J. 2007. Small scale biodiesel production: an overview. Agricultural Marketing Policy Center, Montana State University, Bozeman, MT. Available at:

<http://www.ampc.montana.edu/documents/policypaper/policy22.pdf>

Stamm, M., and S. Dooley. 2013. 2012 National winter canola variety trial. Report of Progress 1080, Kansas State University Extension Service, SRP1080. Available at: <http://www.agronomy.k-state.edu/services/crop-performance-tests/documents/cotton-canola/2012-nvt.pdf>

<http://www.agronomy.k-state.edu/services/crop-performance-tests/documents/cotton-canola/2012-nvt.pdf>

Tennessee Valley Authority, Buffalo Mountain Wind Farm, <https://www.tva.com/About-TVA/Power-out-of-Thin-Air>

West Tennessee Solar Farm, <http://solarfarm.tennessee.edu/>

Tilman, D., R. Socolow, J.A. Foley, J. Hill, E. Larson, L. Lynd, S. Pacala, J. Reilly, T. Searchinger, C. Somerville, R. Williams. 2009. Beneficial biofuels – the food, energy, and environment trilemma. *Science* 23(5938):270-271. Available at: <http://science.sciencemag.org/content/325/5938/270.full>

Trócsányi, Z.K., A.F. Fieldsend, and D.D. Wolf. 2009. Yield and canopy characteristics of switchgrass (*Panicum virgatum* L.) as influenced by cutting management. *Biomass and Bioenergy* 33:442-448. Available at: <http://www.sciencedirect.com/science/article/pii/S0961953408002158>

U.S. Energy Information Administration, www.eia.gov

U.S. Environmental Protection Agency, Renewable Fuel Standard Program, www.epa.gov/renewable-fuel-standard-program/

USDA-ERS. 2012. Canola meal: supply and disappearance, U.S., 1991/92-2012/13. National monthly feedstuff prices. Available at: <http://www.agronomy.k-state.edu/services/crop-performance-tests/documents/cotton-canola/2012-nvt.pdf>

USDA-NASS. 2012. 2012 Census of Agriculture. U.S. Department of Agriculture, National Agricultural Statistics Service, <http://www.agcensus.usda.gov/Publications/2012/>

USDA-RD. 2016. Rural Energy for America Program (REAP). U.S. Department of Agriculture, Rural Development, <http://www.rd.usda.gov/programs-services/rural-energy-america-program-renewable-energy-systems-energy-efficiency>



USDA-RD. 2016. Value-added producer grant. U.S. Department of Agriculture, Rural Development, <http://www.rd.usda.gov/programs-services/value-added-producer-grants>

Warrick, B.E. Sunflower production guide. Texas A&M AgriLife Extension. Available at: <http://sanangelo.tamu.edu/extension/agronomy/agronomy-publications/sunflower-production-guide/>

Weber, J.A., R.L. Myers, H.C. Minor. 1993. Canola: a promising oilseed. University of Missouri Extension, G4280. Available at: <http://extension.missouri.edu/p/G4280>

Wilson, T.O., F.M. McNeal, S. Spatari, D.G. Abler, and P.R. Adler. 2012. Densified biomass can cost-effectively mitigate greenhouse gas emissions and address energy security in thermal applications. *Environmental Science & Technology* 46:1270-1277.

Wolf, D.D., and D.A. Fiske. 2009. Planting and managing switchgrass for forage, wildlife, and conservation. Virginia Cooperative Extension, #418-013. Available at: <http://pubs.ext.vt.edu/418/418-013/418-013.html>

Volkswagen Chattanooga Solar Farm, Phoenix Solar USA, <http://www.phoenixsolar-group.com/business/us/en/about-us/news/detail.Volkswagen-Chattanooga-Powers-Up-Largest-Solar-Park-in-Tennessee.8abb13d2-81f4-405b-ae45-204e1a75320f.html>