The following are Cooperative Extension publications with relevance to the objectives of WERA 1014 authored by committee members between 2008 and 2013:

Barnes, M.K., J.E. Brummer, L.J. Santana, J.M. Scott, and M.W. Volt. 2009. Clover seeding for sage-grouse habitat and forage production on mountain meadows. *In:* Proc. 4th National Conf. on Grazing Lands, December 13-16, 2009, Sparks, Nev. 6 p.

Brummer, J.E. 2009. Does it pay to fertilize grass hayfields with nitrogen?, p. 11-13. *In:* Proc. 2009 Idaho Alfalfa and Forage Conf., February 3-4, 2009, Burley, Ida. Available online at: <http://www.idahohay.com/Brummer_Nitrogen%20Fertilization%20Idaho%202009.pdf>

Brummer, J.E. 2009. Interseeding of pastures and hayfields, p. 17-26. *In:* Proc. 2009 Idaho Alfalfa and Forage Conf., February 3-4, 2009, Burley, Ida. Available online at: <http://www.idahohay.com/Brummer_Interseeding%20Idaho%202009.pdf>

Brummer, J.E. and J.G. Davis. 2009. Fertilizing mountain meadows. Colorado State Univ. Ext. Fact Sheet No. 0.535. Fort Collins, Colo.

Brummer, J.E., A.W. Cooley, J. Murray, and M. Volt. 2011. Establishment and renovation of pastures, hayfields, and mountain meadows, p. 15- 27. *In:* C.H. Pearson, J.E. Brummer, B. Hammon, and M.L. Franklin (eds), Intermountain Grass and Legume Forage Production Manual (2nd ed), Colo. Agri. Exp. Stat. Tech Bull. TB11-02, Colo. State Univ., Fort Collins, CO.

Brummer, J.E., G.E. Shewmaker, and C.L. Engel. 2012. Challenges and benefits of interseeding legumes into grass dominated stands. *In:* Proceedings of the 5th National Conference on Grazing Lands, December 9-12, 2012, Orlando, FL.

Brummer, J.E., G. Shewmaker, and C. Engel. 2011. Challenges and benefits of interseeding legumes into grass dominated stands, p. 72-78. *In:* Proceedings, 2011 Western Alfalfa & Forage Conference, Las Vegas, NV, December 11-13, 2011, Univ. Calif. Cooperative Extension, Davis, CA.

Brummer, J.E., J.G. Davis, and M.R. Booher. 2011. Fertilizing cool season grasses and grass/legume mixtures. Colo. State Univ. Ext. Fact Sheet No. 0.522, Fort Collins, CO.

Brummer, J.E., M. Volt, and A.W. Cooley. 2011. Irrigated hay production, p. 81-85. *In:* C.H. Pearson, J.E. Brummer, B. Hammon, and M.L. Franklin (eds), Intermountain Grass and Legume Forage Production Manaul (2nd ed), Colo. Agri. Exp. Stat. Tech Bull. TB11-02, Colo. State Univ., Fort Collins, CO.

Cash, D., A. Hulting, D. Hannaway, and M. Bohle. 2010. Health considerations for grazing animals, pp. 119-131. *In* G.E. Shewmaker and M.G. Bohle (eds.), Pasture and Grazing Management in the Pacific Northwest, Pacific Northwest Extension Publication PNW-614, Univ. Idaho Ext., Moscow, ID.

Cooley, A.W., and J.E. Brummer. 2011. Introduction: Irrigated pasture/mountain meadows, p. 1-2. *In:* C.H. Pearson, J.E. Brummer, B. Hammon, and M.L. Franklin (eds), Intermountain Grass and Legume Forage Production Manual (2nd ed), Colo. Agri. Exp. Stat. Tech Bull. TB11-02, Colo. State Univ., Fort Collins, CO.

Cooley, A.W., and J.E. Brummer. 2011. Fertility management: Irrigated pasture/mountain meadows, p. 55-61. *In:* C.H. Pearson, J.E. Brummer, B. Hammon, and M.L. Franklin (eds), Intermountain Grass and Legume Forage Production Manual (2nd ed), Colo. Agri. Exp. Stat. Tech Bull. TB11-02, Colo. State Univ., Fort Collins, CO.

Crane, K., J. Glaze, and G. Shewmaker. 2010. Foraging behavior and grazing management, pp. 133-138. *In* G.E. Shewmaker and M.G. Bohle (eds.), Pasture and Grazing Management in the Pacific Northwest, Pacific Northwest Extension Publication PNW-614, Univ. Idaho Ext., Moscow, ID.

Curtis, K., T. Knudsen, and J. MacAdam. 2013. Northern Utah small cow-calf pasture finished beef production costs & returns, 2012. Electronic Bulletin AG/Agribusiness/2013-01pr. Utah Cooperative Extension Service, Logan.

Curtis, K., Z. Ma, J. MacAdam, and V. Chakreeyarat. 2012. Rancher adoption potential of the birdsfoot trefoil pasture beef production system in the Intermountain West. Electronic Bulletin AG/Agribusiness/2012-03pr. Utah Cooperative Extension Service, Logan.

Engel, C.L., Charlton, B.A., Roseberg, R.J., Bentley, R.A. 2010. Adaptation of Brassica spp. and Fodder Radishes as Late Season Forages in the High Desert Region of Oregon. OSU Beef Research Report. BEEF024:3-8.

Engel, C., T. Fife, and J. Hall. 2010. Nutritional needs of grazing animals, pp. 91-105. *In* G.E. Shewmaker and M.G. Bohle (eds.), Pasture and Grazing Management in the Pacific Northwest, Pacific Northwest Extension Publication PNW-614, Univ. Idaho Ext., Moscow, ID.

Falen, C., and G. Shewmaker. 2011. Extend the Grazing Season with Unconventional Forages. Progressive Cattleman, April 2011:27-28.

Falen, C.L., G. Shewmaker, L.A. Hunter, and S. Hines. 2012. Unconventional annual forage yield and quality: Extended grazing potential, pp. 21-27. *In:* Proc. 2012 Idaho Alfalfa and Forage Conf., March 1-2, 2012, Burley, Ida. Available online at: <http://www.extension.uidaho.edu/forage/Proceedings/2012%20Proceedings/CFalen_UnconventionAnnualForageYield.pdf>

Fisher, G., A. Dreves, M. Bohle, and D. Hannaway. 2010. Insect, mite, and related pests of Pacific Northwest pastures, pp. 73-77. *In* G.E. Shewmaker and M.G. Bohle (eds.), Pasture and Grazing Management in the Pacific Northwest, Pacific Northwest Extension Publication PNW-614, Univ. Idaho Ext., Moscow, ID.

Fransen, S. and T. Griggs. 2010. Growth, development, and defoliation responses of pasture plants, pp. 41-52. *In* G.E. Shewmaker and M.G. Bohle (eds.), Pasture and Grazing Management in the Pacific Northwest, Pacific Northwest Extension Publication PNW-614, Univ. Idaho Ext., Moscow, ID.

Gerrish, J. and C. Cheyney. 2010. Grazing cell design and installation, pp. 149-160. *In* G.E. Shewmaker and M.G. Bohle (eds.), Pasture and Grazing Management in the Pacific Northwest, Pacific Northwest Extension Publication PNW-614, Univ. Idaho Ext., Moscow, ID.

Gray, W. and M. Bohle. 2010. Economics and risk management in grazing systems, pp. 177-194. *In* G.E. Shewmaker and M.G. Bohle (eds.), Pasture and Grazing Management in the Pacific Northwest, Pacific Northwest Extension Publication PNW-614, Univ. Idaho Ext., Moscow, ID.

Griggs, T., G. Shewmaker, and J. Church. 2010. Grazing systems and methods, pp. 139-147. *In* G.E. Shewmaker and M.G. Bohle (eds.), Pasture and Grazing Management in the Pacific Northwest, Pacific Northwest Extension Publication PNW-614, Univ. Idaho Ext., Moscow, ID.

Gunn, D., R. Hirnyck, G. Shewmaker, S. Takatori, and L. Ellis. 2011. Meadow voles and pocket gophers: Management in lawns, gardens, and cropland. Pacific Northwest Extension Publication PNW-627, Univ. Idaho Ext., Moscow, ID.

Jensen, K.S., C. Cheyney, J. Hawkins, W. Gray, G. Shewmaker, S. Williams, T. Griggs, and J. Gerrish. 2009. Lost Rivers Grazing Academy: Building Sustainability in Livestock Production. Journal of Extension 47(1). <http://www.joe.org/joe/2009february/iw4.php>

LeValley, R.B., J.E. Brummer, and E. Page. 2011. Weed management in grass pastures and hayfields, p. 39-54. *In:* C.H. Pearson, J.E. Brummer, B. Hammon, and M.L. Franklin (eds), Intermountain Grass and Legume Forage Production Manual (2nd ed), Colo. Agri. Exp. Stat. Tech Bull. TB11-02, Colo. State Univ., Fort Collins, CO.

MacAdam, J. 2010. A Pasture Legume with the Potential to Increase Milk Production, pp. 6-8. *In* The Integrity, Western Organic Dairy Producers Alliance, August-September 2010.

MacAdam, J. and R. Brain 2012. Beef production & consumption: Sustainable alternatives. Electronic Bulletin Sustainability/2012/04pr. Utah Cooperative Extension Service, Logan.

McLain, B., S. Fransen, and G. Shewmaker. 2010. Pasture renovation, planting, and establishment, pp. 31-40. *In* G.E. Shewmaker and M.G. Bohle (eds.), Pasture and Grazing Management in the Pacific Northwest, Pacific Northwest Extension Publication PNW-614, Univ. Idaho Ext., Moscow, ID.

Murray, J., A.W. Cooley, and J.E. Brummer. 2011. Plant species selection: Irrigated pasture/mountain meadows, p. 3-13. *In:* C.H. Pearson, J.E. Brummer, B. Hammon, and M.L. Franklin (eds), Intermountain Grass and Legume Forage Production Manual (2nd ed), Colo. Agri. Exp. Stat. Tech Bull. TB11-02, Colo. State Univ., Fort Collins, CO.

Neibling, H., M. Bohle, and C. Falen. 2010. Principles of pasture irrigation, pp. 53-66. *In* G.E. Shewmaker and M.G. Bohle (eds.), Pasture and Grazing Management in the Pacific Northwest, Pacific Northwest Extension Publication PNW-614, Univ. Idaho Ext., Moscow, ID.

Neibling, W.H., G.E. Shewmaker, and C.L. Falen. 2010. Center pivot design and management for forage production, pp.38-48. *In:* Proc. 2010 Idaho Alfalfa and Forage Conf., February 16-17, 2010, 2012, Burley, Ida. Available online at: <http://www.extension.uidaho.edu/forage/Proceedings/2010%20Proceedings/Center%20Pivot%20Design.pdf>

Pearson, C.H., J.E. Brummer, and B. Hammon. 2011. Organic production of alfalfa and grass, p. 177- 184. *In:* C.H. Pearson, J.E. Brummer, B. Hammon, and M.L. Franklin (eds), Intermountain Grass and Legume Forage Production Manual (2nd ed), Colo. Agri. Exp. Stat. Tech Bull. TB11-02, Colo. State Univ., Fort Collins, CO.

Pearson, C.H., J.E. Brummer, B. Hammon, and M.L. Franklin (eds). 2011. Intermountain Grass and Legume Forage Production Manual, 2nd ed. Colo. Agri. Exp. Stat. Tech. Bull. TB11-02., Colo. State Univ., Fort Collins, Colo. 194 p.

Shewmaker, G.E. and L.K. Hooper. 2011. Predicting Herbage Mass in Irrigated Smooth Bromegrass (*Bromus inermis* Leyss.) Pastures. *In* organizing committee (eds.) CDROM Proceedings IX International Rangeland Congress, 2-8 April 2011, Rosario, Argentina.

Shewmaker, G.E., and L.K. Hooper. 2011. Light Interception by Rotationally-Grazed Orchardgrass (*Dactylis Glomerata* L.) Canopies. Proceedings of American Forage and Grasslands Council Annual Meeting, 12-15 June 2011, French Lick, IN.

Shewmaker, G., B. Gillaspy, S. Fransen, T. Griggs, and L. Hooper. 2010. Estimating forage production, monitoring, and evaluating the grazing system, pp. 161-175. *In* G.E. Shewmaker and M.G. Bohle (eds.), Pasture and Grazing Management in the Pacific Northwest, Pacific Northwest Extension Publication PNW-614, Univ. Idaho Ext., Moscow, ID.

Shewmaker, G.E. and M.G. Bohle (eds.). 2010. Pasture and Grazing Management in the Pacific Northwest. Pacific Northwest Extension Publication PNW-614, Univ. Idaho Ext., Moscow, ID.

Shewmaker, G., R. Koenig, D. Horneck, M. Bohle, G. Cardon, and S. Jensen. 2010. Soil, fertility, and nutrient management for pastures, pp. 21-30. *In* G.E. Shewmaker and M.G. Bohle (eds.), Pasture and Grazing Management in the Pacific Northwest, Pacific Northwest Extension Publication PNW-614, Univ. Idaho Ext., Moscow, ID.

The following are research publications with relevance to the objectives of WERA 1014 authored by committee members between 2008 and 2013:

Barker, D., T. Butler, J.W. MacAdam and R.M. Sulc. 2012. Forage and biomass planting, **pp. 41-110 *In*** C.J. Nelson (ed.) Conservation Outcomes from Pastureland and Hayland Practices: Assessment, Recommendations, and Knowledge Gaps. Allen Press, Lawrence, Kansas.

Hurisso, T.T., J.G. Davis, J.E. Brummer, M.E. Stromberger, F.H. Stonaker, B.C. Kondratieff, M.R. Booher, and D.A. Goldhamer. 2011. Earthworm abundance and species composition in organic forage production systems of northern Colorado receiving different soil amendments. Appl. Soil Ecol. 48:219-226.

Hurisso, T.T., J.G. Davis, J.E. Brummer, M.E. Stromberger, M.M. Mikha, M.L. Haddix, M.R. Booher, and E.A. Paul. 2013. Rapid changes in microbial biomass and aggregate size distribution in response to changes in organic matter management in grass pasture. Geoderma 193-194:68-75.

MacAdam, J.W., R.E. Ward, T.C. Griggs, B.R. Min, and G.E. Aiken. 2011. Case study: Average daily gain and blood fatty acid composition of cattle grazing the non-bloating legumes birdsfoot trefoil and cicer milkvetch in the Mountain West. Prof. Anim. Sci. 27:574-583.

Williams, C.M., J.-S. Eun, J.W. MacAdam, A. Young, V. Fellner, and B.-R. Min. 2011. Effects of forage legumes containing condensed tannins on methane and ammonia production in continuous cultures of mixed ruminal microorganisms. Animal Feed Science Technology. 166-167: 364-372

Williams, C.M., J.-S. Eun, C.M. Dschaak, J.W. MacAdam, B.-R. Min, and A. Young. 2010. Case Study: In vitro ruminal fermentation characteristics of birdsfoot trefoil (*Lotus* *corniculatus* L.) hay in continuous cultures. Professional Animal Scientist 26: 570–576.

Williams, C.M., Dschaak, C.M., Eun, J.-S., MacAdam, J.W., and Young, A. 2010. Assessment of tannin-free and tanniniferous legumes in lactating dairy diets using continuous culture. J. Dairy Sci. 79.

Williams, C.M., Eun, J.-S., MacAdam, J.W., Young, A., Fellner, V., and Min, B. R. 2010. Tannin-free and tanniniferous legumes in lactating dairy diets affect in vitro ruminal fermentation characteristics and methane production by mixed ruminal microbiota in continuous cultures, pp. 159. Proceedings of the 4th International Conference on Greenhouse Gases and Animal Agriculture Banff, Canada, October 3-8 2010. Agriculture and Agri-Food Canada, Lethbridge, Canada.