

# **CALVIN H. PEARSON**

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**Department of Soil and Crop Sciences  
Agricultural Experiment Station  
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## **EDUCATION**

Oregon State University, Corvallis, Oregon  
Ph.D., Crop Science, 1983  
Emphasis: Crop production/physiology/new crops

Oklahoma State University, Stillwater, Oklahoma  
M.S., Agronomy, 1979  
Emphasis: Crop production/physiology

Brigham Young University, Provo, Utah  
B.S., Agronomy, 1978, cum laude

Ricks College, Rexburg, Idaho  
Jr. College Degree, 1976, high honors

## **PROFESSIONAL EXPERIENCE**

**PROFESSOR**, Department of Soil and Crop Sciences, Agricultural Experiment Station, Colorado State University, Western Colorado Research Center, Fruita, Colorado USA. Current research is directed towards turf grass seed production; biomass to biofuel with lignocellulosic perennial grasses; subsurface drip in alfalfa; kura clover as a living mulch; no-till N management in a corn/winter wheat rotation; double cropping dry bean after winter barley; natural rubber production; developing popping dry beans; pasture grass, forage legume, and mixed species evaluation; performance of hay conditioners for baling hay at higher moisture contents; evaluation of alfalfa breeding material for stem nematode resistance; control of blunt ear syndrome in corn; malting barley, alfalfa, dry bean, corn (grain and silage) and small grain cultivar performance tests; evaluation of new bio-products and new crops (kenaf, teff, hybrid poplar) for western Colorado. Agronomic research is conducted across western Colorado from Steamboat Springs to Montrose, Colorado (1995 to present) (100% research since 1996).

**PRINCIPAL INVESTIGATOR**, Experiment Station Project #1170-672 “Crops and Cropping Systems in Western Colorado for Traditional/Alternative and Industrial/Bioenergy Uses.” The Project was previously entitled, “New/Alternative Crops and Cropping Systems for Colorado.” Over the years as a principal investigator I have managed numerous full- and part-time employees and considerable amounts of money.

**ASSOCIATE PROFESSOR**, Department of Agronomy, Agricultural Experiment Station, Colorado State University, Fruita Research Center, Fruita, Colorado USA. Research was directed towards development of conservation tillage systems for furrow-irrigated cropping systems in corn, dry bean, soybean, small grain, and alfalfa; agronomic research to control blunt ear syndrome in corn; increased nitrogen use efficiency in corn; sweet corn N fertility; forage grass species evaluation; development of a plant materials park; malting barley cultivar performance tests; evaluation of sugarbeet germplasm for seed production; participation in the dry bean cultivar development process through germplasm and cultivar evaluation and increasing seed of advanced breeding lines; evaluation of new crops for western Colorado; co-inventor of a no-till grain drill for furrow-irrigated cropping systems and an automated forage harvester using a commercial swather; alfalfa cultivar performance testing and alfalfa germplasm evaluation for stem nematode resistance. (1989 to 1995) (80% research, 20% administration - Foundation Dry Bean Seed Project).

**ASSISTANT PROFESSOR**, Department of Agronomy, Agricultural Experiment Station, Colorado State University, Fruita Research Center, Fruita, Colorado USA. Research focused on adaptation of soybean in arid climates; yield components of fall-seeded spring durum wheat cultivars; improved nitrogen use efficiency in corn; plant growth regulator application and nitrogen fertilization in winter barley; effect of nitrate and ammonium nitrogen fertilizers on grain yield in corn; tillage effects in a cropping system of dry bean, small grains, and corn; accumulation and partitioning of dry matter and nitrogen in corn after silking; dormancy and germination longevity of *Hibiscus trionum* seed; effect of seed size and planting depth on emergence and yield of dry bean; and cultivar performance tests in western Colorado with corn, dry bean, small grains, soybean, and alfalfa. Other responsibilities included manager of Colorado Foundation Dry Bean Seed Project. (1984 to 1989) (80% research, 20% administration - Foundation Dry Bean Seed Project)

**MANAGER**, Colorado State University Foundation Dry Bean Seed Project. The manager of the Foundation Dry Bean Seed Project is responsible for the production, conditioning, allocation, sales, and distribution of all certified foundation grade dry bean seed for the State of Colorado. Established and managed a budget of thousands of dollars each year for this project. The Manager of the Foundation Dry Bean Seed Project also worked with many other states in the U.S. that produce dry beans, principally Idaho, Wyoming, Nebraska, and North Dakota. (1984 to 1996).

**RESEARCH ASSOCIATE (POST-DOC)**, Department of Crop Science, Oregon State University, Corvallis, Oregon USA. (1983 to 1984). Conducted agronomic research on meadowfoam.

**GRADUATE RESEARCH ASSISTANT**, Department of Crop Science, Oregon State University, Corvallis, Oregon, USA. (1980 to 1983)

**GRADUATE TEACHING ASSISTANT**, Department of Crop Science, Oregon State University, Corvallis, Oregon, USA. (1980 to 1983)

**GRADUATE RESEARCH ASSISTANT**, Department of Agronomy, Oklahoma State University, Stillwater, Oklahoma. (1978 to 1979)

**FAMILY FARMER**, grew sugarbeets, corn for silage, dry beans, wheat, barley, and alfalfa on furrow-irrigated land on family farm in Idaho.

## **ADDITIONAL TRAINING:**

Completed the Class 5 Experiment Station Committee on Policy (ESCOP)/Academic Committee on Policy (ACOP) Leadership Development Program 1995. Consists of Phase I- a week of leadership training (Indianapolis, Indiana, September 16-22, 1995); Phase II- a special leadership project under direct guidance and supervision of the Director of the Colorado Agricultural Experiment Station; and Phase III- learned how Washington, D.C. works, June 1996, Washington, D.C. Also, as a part of the ESCOP/ACOP Leadership Development Program I was asked to attend the Western Association of Agricultural Experiment Station Directors meeting held March 13-15, 1996 in Las Cruces, New Mexico.

For the leadership project I served as the facilitator for regionalizing western Colorado research centers (Fruita, Orchard Mesa, and Rogers Mesa Research Centers). I chaired numerous meetings from 1996 to early 1998 in which personnel from the three research centers participated in creating a recommendation/implementation plan for the region. I toured Orchard Mesa and Rogers Mesa Research Centers and met with the staff at these research centers in spring 1996 to discuss regionalization. Other meetings with Experiment Station administrators (July 16, 1996- Fort Collins) and department heads (October 29-30, 1996 - meeting in Grand Junction) were held to discuss regionalization of research centers in western Colorado. I completed my service as facilitator when in late 1998 we hired a new regional manager and organized a regional research committee for the three research centers and appointed a chair and vice-chair.

## **MEMBERSHIPS AND AWARDS**

Fellow – American Society of Agronomy – 2002

Recipient – The Outstanding Young Alumni Award, Ricks College, 1997.

Member – American Society of Agronomy

Member – Crop Science Society of America

Member – Soil and Water Conservation Society of America

Member – Gamma Sigma Delta

Member – Sigma Xi

Member – Alpha Zeta

Member – Council for Agricultural Science and Technology (CAST)

Member – Bean Improvement Cooperative

Member – Hortus West

Member – Association for the Advancement of Industrial Crops

Member – Native Plant Journal

Member – Grand Junction Chamber of Commerce Ag Interest Group – 1985 -1986

Selected for inclusion in Suttons' Who's Who in Academia, 2010-2011 Edition of Sutton

Who's Who in North America.

Selected for Who's Who in America, 63<sup>rd</sup> Edition, 2009

Selected for International Who's Who of Professionals, 2000<sup>th</sup> edition  
Listed in the Sixth Edition (1998) of Five Thousand Personalities of the World. Published by the American Biographical Institute, Raleigh, North Carolina.  
Listed in the sixth edition (1997) of the International Directory of Distinguished Leadership  
Listed in the 17th edition of Men of Achievement. Published by the International Biographical Centre, Cambridge, England.  
Listed in the Fifth Edition (1996) of Five Thousand Personalities of the World. Published by the American Biographical Institute, Raleigh, North Carolina.  
Selected for Who's Who in the World, 12th edition, 1993-94  
Selected for Who's Who of Emerging Leaders in America, 2nd edition - 1990, 3<sup>rd</sup> edition – 1992  
Selected for Who's Who in the West, 21<sup>st</sup> edition (1987)  
Selected as an Outstanding Young Man of America in 1983

## **PUBLICATIONS**

### **REFEREED ARTICLES**

Pearson, Calvin H., and Amaya Atucha. 2015. Agricultural Experiment Stations and Branch Stations in the United States. *Nat. Sci. Educ.* 44:1-6.

Pearson, Calvin H., Joe E. Brummer, Andrew T. Beahm, and Neil C. Hansen. 2014. Kura Clover Living Mulch for Furrow-Irrigated Corn in the Intermountain West. *Agron. J.* 106:1324-1328.

Pearson, Calvin H., Fred M. Judson, and Calvin B. Rock. 2013. A versatile, low-cost weighing hopper for small-plot field research. *Agron. J.* 105: 619-622.

Pearson, C.H., D.J. Rath, and K. Cornish. 2013. How pressure and filter material affect extraction of sunflower latex rubber. *Ind. Crop Prod.* 47:102-105.

Pearson, C.H., K. Cornish, and D.J. Rath. 2013. Extraction of natural rubber and resin from guayule using an accelerated solvent extractor. *Ind. Crop Prod.* 41:506-510.

Cornish, K., C.H. Pearson, and D.J. Rath. 2013. Accurate quantification guayule resin and rubber requires sample drying below a critical temperature threshold. *Ind. Crop Prod.* 43:158-164.

Pearson, Calvin H., J. Barry Ogg, Mark A., Brick and Abdel Berrada. 2012. Popping and yield characteristics of nuna bean lines developed for temperature climates. *Agron. J.* 104:1574-1578.

Reich, D. and C. Pearson. 2012. Irrigation Outreach in Afghanistan: Exposure to Afghan Water Security Challenges. *Journal of Contemporary Water Research and Education* 149:33-40.

Stamm, M. A. Berrada, J. Buck, P. Cabot, M. Classen, G. Cramer, S.J. Dooley, C. Godsey, W. Heer, J. Holman, J. Johnson, R. Kochenower, J. Krall, D. Ladd, J. Moore, M.K. O'Neill, C. Pearson, D.V. Phillips, C.L. Rife, D. Santra, R. Sidwell, J. Sij, D. Starner, and W. Wiebold (authors listed in alphabetical order). 2012. Registration of 'Riley' winter canola. *J. Plant Registrations* 6:243-245.

Pearson, C.H., A.D. Halvorson, R.D. Moench, and R.W. Hammon. 2010. Production of hybrid poplar under short-term, intensive culture in western Colorado. *Ind. Crops Prod.* 31:492-498.

Pearson, C.H., K. Cornish, C.M. McMahan, D.J. Rath, J.L. Brichta, and J.E. Van Fleet. 2010. Agronomic and natural rubber characteristics of sunflower as a rubber-producing plant. *Ind. Crop Prod.* 31:481-491.

Pearson, C.H., K. Cornish, C.M. McMahan, D.J. Rath, and M. Whalen. 2010. Natural rubber quantification in sunflower using an automated solvent extractor. *Ind. Crop Prod.* 31:469-475.

Pearson, C.H. and R.L. Sharp. 2009. Double-cropping pinto bean after winter barley in western Colorado. *J. Agricultural Science and Technology* 4:1-7.

Pearson, C.H., S.M. Ernst, K.A. Barbarick, J.L. Hatfield, G.A. Peterson, and D.R. Buxton. 2008. *Agronomy Journal* turns one hundred. *Agron. J.* 100:1-8.

Pearson, C.H., S.M. Ernst, K.A. Barbarick, J.L. Hatfield, G.A. Peterson, and D.R. Buxton. 2007. *Agronomy Journal* turns one hundred. Pp. 61-68. *In: The American Society of Agronomy: 100 Years of History* (L.E. Moser, ed.). American Society of Agronomy, Inc. Madison, WI.

Pearson, C.H. and D.J. Rath. 2009. A hydraulic press for extracting fluids from plant tissue samples. *Industrial Crops and Products* 29:634-637.

Pearson, C.H., D.J. Rath, C.M. McMahan, K. Cornish, and M. Whalen. 2008. Standard operating protocol for growing transgenic sunflower plants in contained environments. Online. *Crop Management* doi:10.1094/CM-2008-0910-01-PS. Published 10 Sept. 2008.

Pearson, C.H. 2007. An updated, automated commercial swather for harvesting forage plots. *Agron. J.* 99:1382-1388.

Pearson, C.H., R.W. Mullen, W.E. Thomason, and S.B. Phillips. 2006. Associate editor's role in helping authors and upholding journal standards. *Agron. J.* 98:417-422.

Pearson, C.H., K. Cornish, C.M. McMahan, M. Whalen, D.J. Rath, N. Dong, and S. Wong. 2007. The rationale for transforming sunflower into a rubber-producing crop. Pp. 72-77. *In: Issues in New Crops and New Uses* (J. Janick and A. Whipkey, eds.). Proceeding of the sixth National Symposium Creating Market for Economic Development of New Crops and New Uses. ASHS Press, Alexandria, VA.

Pearson, C.H., K. Cornish, C.M. McMahan, M. Whalen, D.J. Rath, N. Dong, and S. Wong. 2007. Using peat pellets in liquid media to root sunflower tissue culture plants. Pp. 78-81. *In: Issues in New Crops and New Uses* (J. Janick and A. Whipkey, eds.). Proceeding of the sixth National Symposium Creating Market for Economic Development of New Crops and New Uses. ASHS Press, Alexandria, VA.

Pearson, C.H., R.W. Mullen, W.E. Thomason, and S.B. Phillips. 2006. Associate editor's role in helping authors and upholding journal standards. *Agron. J.* 98:417-422.

Pearson, Calvin H. 2003. Little or No-Cost Management Practices Increases Hay Profits. *In: From the Ground Up: Agronomy News*. Vol. 23 (1): 5-6 (March 2003).

Brick, M.A., H.F. Schwartz, J.B. Ogg, J.J. Johnson, F. Judson, and C. H. Pearson. 2002. Registration of 'Shiny Crow' Black Bean. *Crop. Sci.* 42:1751-1752.

Ashraf, M., C.H. Pearson, D.G. Westfall, and R. Sharp. 1999. Effect of conservation tillage on crop yields, soil erosion, and soil properties under furrow irrigation in western Colorado. *Amer. J. of Alternative Agric.* 14:85-92.

Pearson, Calvin H., Karl E. White, and Aubrey L. Brinkworth. 1998. Surface residue and soil clods during furrow irrigation under simulated conditions. *J. Sustain. Agric.* 12:5-21.

Hammon, R.W., C.H. Pearson, and F.B. Peairs. 1997. Winter wheat planting date effect on Russian wheat aphid (Homoptera: Aphididae) and a plant virus complex. *J. Kansas Ent. Society* 69:302-309.

Mehraj, K.N., M.A. Brick, C.H. Pearson, and J.B. Ogg. 1996. Effects of bed width, planting arrangement, and plant populations on seed yield of pinto bean cultivars with different growth habits. *J. Prod. Agric.* 9:79-82.

Brick, M.A., D.R. Wood, H.F. Schwartz, C.H. Pearson, J.B. Ogg, M. Ballarin, and J.F. Shanahan. 1995. Registration of 'Arapaho' pinto bean. *Crop Sci.* 35:1511-1512.

Fisher, A.G., M.A. Brick, D.R. Wood, M. Stack, H.F. Schwartz, J.B. Ogg, C.H. Pearson, J.F. Shanahan, and M. Ballarin. 1995. Registration of 'Fisher' pinto bean. *Crop Sci.* 35:1511.

- Pearson, C.H. 1994. Performance of fall- and spring-planted durum wheat in western Colorado. *Agron. J.* 86:1054-1059.
- Pearson, C.H., and L. Robinson. 1994. Automating a commercial swather for harvesting forage plots. *Agron. J.* 86:1131-1133.
- Pearson, C.H., J.P. Hain, R.W. Hammon, and H.M. Golus. 1994. Conservation-tillage grain drill for furrow-irrigated cropping systems. *Agron. J.* 86:1128-1131.
- Pearson, C.H. 1994. Plant response to the management of fluid and solid N fertilizers applied to furrow-irrigated corn. *Fert. Res.* 37:51-58.
- Riley, R.H., M.A. Brick, K.L. Conniff, D.R. Wood, C.H. Pearson, and P.L. Chapman. 1993. Response of seed yield and yield components in mixtures of dry edible bean. *Field Crops Res.* 33:283-292.
- Pearson, C. H., and P. N. Miklas. 1992. Seed size and planting depth effects on emergence and yield of pinto bean. *J. Prod. Agric.* 5:103-106.
- Brick, M. A., D. R. Wood, M. Ballarin, H. F. Schwartz, C. H. Pearson, J. B. Ogg, and J. W. Echols. 1991. Registration of three germplasm lines of pinto bean. *Crop Sci.* 31:1100-1101.
- Westra, P., C. H. Pearson, and R. Ristau. 1990. Control of Venice mallow (Hibiscus trionum) in corn (Zea mays) and onions (Allium cepa). *Weed Tech.* 4:500-504.
- Pearson, C. H., H. M. Golus, and T. A. Tindall. 1989. Ethephon application and nitrogen fertilization of irrigated winter barley in an arid environment. *Agron. J.* 81:717-719.
- Tindall, T. A., C. H. Pearson, and S. Olsen. 1989. Ethephon application to spring barley under variable nitrogen and moisture regimes. *J. Fert. Issues* 6:77-82.
- Wood, D. R., M. Ballarin, H. F. Schwartz, M. A. Brick, and C. H. Pearson. 1989. Registration of 'Bill Z' pinto bean. *Crop Sci.* 29:488.
- Pearson, C. H., H. M. Golus, and D. L. Rogers. 1988. Weed control in an urban area. *J. Agron. Educ.* 17:105-108.
- Pearson, C. H., and G. D. Jolliff. 1986. Nitrogen fertilizer effects on growth, flowering, oil yield, and yield components in meadowfoam. *Agron. J.* 78:1030-1034.
- Pearson, C. H., and G. D. Jolliff. 1986. Irrigation effects on agronomic characters of meadowfoam. *Agron. J.* 78:301-304.



Pearson, C. H., and G. D. Jolliff. 1985. Physiological response of meadowfoam to crop water deficits. *Agron. J.* 77:422-426.

Jolliff, G. D., and C. H. Pearson. 1982. A permanent color alternative to diazo 2 x 2 slide transparencies. *J. Agronomic Educ.* 11:58-59.

Pearson, C. H., and M. B. Kirkham. 1981. Water relations of wheat cultivars grown with cadmium. *J. Plant Nutr.* 3:309-318.

Pearson, C. H., H. M. Kirkham, and J. A. Kovar. 1981. Winter wheat growth under two tillage systems for fertilizer application. *Soil Tillage Res.* 1:153-161.

Pearson, C. H., and M. B. Kirkham. 1980. Osmotic potential of wheat grown with fertilizer placed in strips or broadcasted. *Fertilizer Res.* 1:227-234.

## **FACT SHEETS**

Hammon, R.W. and C.H. Pearson. 2014. Managing western whorled milkweed. Colorado State University Extension. Fact Sheet No. 6.111.

Brochure to promote western Colorado Extension and Experiment Station. "Colorado State University, From the Foundation of Tradition to the Breakthrough of Innovation, We Invest in Agriculture." Part of a committee to author the brochure. Leigh Fortson, Rod Sharp, Calvin Pearson, etc. Completed February 2011.

Max, Shane, Calvin H. Pearson, and Donna Rath. 2001. Standard Operating Protocol (SOP) for Growing Transgenic Plants at the Western Colorado Research Center. Updated Feb. 2003, May 2003, Sept. 2003, Oct. 2003, Dec. 2003.

## **CHAPTERS AND PROCEEDINGS**

Pearson, C.H., S.R. Larson, C.M.H. Keske, and K.B. Jensen. 2015. Native grasses for biomass production at high elevations. P.101-132 . *In:* Cruz, V.M.V., and D.A. Dierig, (ed.) *Industrial Crops: Breeding for Bioenergy and Bioproducts.* Springer. New York, NY.

Pearson, Calvin H., Catherine Keske, Ron Follett, Ardell Halvorson, Steve Larson, and Andrew Brandess. Developing low-input, high-biomass, perennial cropping systems for advanced biofuels in the Intermountain West. Sun Grant Initiative. Presented at the 2012 National Conference Science for Biomass Feedstock: Production and Utilization. October 2-5, 2012, New Orleans, LA.

<http://sungrant.tennessee.edu/NatConference/ConferenceProceedings/ENERGY+CROP+PRODUCTION.htm>

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Pearson, C.H., S.M. Ernst, K.A. Barbarick, J.L. Hatfield, G.A. Peterson, and D.R. Buxton. 2007. *Agronomy Journal* turns one hundred. Pp. 61-68. *In: The American Society of Agronomy: 100 Years of History* (L.E. Moser, ed.). American Society of Agronomy, Inc. Madison, WI.

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Brummer, J.E., and C.H. Pearson (eds.). 2002. Proceedings of the Intermountain Forage Symposium. Colorado State University. Agricultural Experiment Station and Cooperative Extension. Technical Bulletin LTB 02-1. 136 p.

Pearson, Calvin H. 2000. Agronomic performance of kenaf in western Colorado. Proceedings of the American Kenaf Society 3:137-141.

Pearson, Calvin H. and Rod Sharp. 1999. Variety selection. p. 72-77 *In: A. Wayne Cooley* (ed.), Calvin H. Pearson and Joe Brummer (co-eds.) Intermountain Grass and Legume Forage Production Manual. Colorado State University, Cooperative Extension Publication.

Pearson, Calvin H. and C.J. Mucklow. 1999. Stand establishment (irrigated and dryland). p. 78-86. *In: A. Wayne Cooley* (ed.), Calvin H. Pearson and Joe Brummer (co-eds.) Intermountain Grass and Legume Forage Production Manual. Colorado State University, Cooperative Extension Publication.

Pearson, Calvin H. and Eric Rechel. 1999. Harvest and hay quality management. p. 108-119. *In: A. Wayne Cooley* (ed.), Calvin H. Pearson and Joe Brummer (co-eds.) Intermountain Grass and Legume Forage Production Manual. Colorado State University, Cooperative Extension Publication.

Pearson, Calvin H., and Mark A. Brick. 1996. Post-harvest, p. 40-41. *In*: Howard F. Schwartz, Mark A. Brick, David S. Nuland, and Gary D. Franc (eds.). Dry Bean Production and Pest Management Regional Bulletin 562A, Colorado State University, University of Nebraska, and University of Wyoming.

Smith, John A., and Calvin H. Pearson. 1996. Tillage practices, p. 27-31. *In*: Howard F. Schwartz, Mark A. Brick, David S. Nuland, and Gary D. Franc (eds.). Dry Bean Production and Pest Management Regional Bulletin 562A, Colorado State University, University of Nebraska, and University of Wyoming.

Olsen, S. R., D. F. Champion, Calvin Pearson, and Harold Golus. 1991. Corn response to enhanced ammonium supply. p. 54-69. *In*: Effects of enhanced ammonium diets on growth on yield of wheat and corn. Proc. SSSA, Denver, CO. 30 Oct. 1991. Foundation for Agron. Res. Atlanta, GA.

## **TECHNICAL REPORTS**

Keske, Catherine M.H., Calvin H. Pearson, Dana L. Hoag, and Andrew Brandess. 2014. Western Colorado Perennial Grass and Biomass Budget Generator. Colorado State University, Agricultural Experiment Station, Technical Report TR14-03. Fort Collins, Colorado.

Pearson, C. H. 2013. Applying biostimulant products in pasture in Western Colorado. pps. 13-17. *In*: Western Colorado Research Center 2012 Research Report. Colorado State University, Agricultural Experiment Station and Extension, Technical Report TR13-05. Fort Collins, Colorado.

Pearson, C. H. and Scott Haley. 2013. Winter Wheat Variety Performance Trial at Hayden, Colorado 2012. pps. 30-35. *In*: Western Colorado Research Center 2012 Research Report. Colorado State University, Agricultural Experiment Station and Extension, Technical Report TR13-05. Fort Collins, Colorado.

Pearson, C. H. 2013. Roundup-Ready Soybean Variety Performance Trial and Number of Seed Rows on a Bed at Fruita, Colorado 2012. pps. 36-45. *In*: Western Colorado Research Center 2012 Research Report. Colorado State University, Agricultural Experiment Station and Extension, Technical Report TR13-05. Fort Collins, Colorado.

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Pearson, C.H. 2011. Field performance of oat varieties at Fruita, Colorado 2009-2010. pps. 13- 19. In: Western Colorado Research Center 2010 Research Report. Colorado State University, Agricultural Experiment Station and Extension, Technical Report TR11-11. Fort Collins, Colorado.

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## **ABSTRACTS**

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Pearson, C.H., 2002. Practical Aspects of Establishing a New Research Project Involving Transgenic Plants at an Off-Campus Research Center. Oral presentation was made at the ASA-CSSA-SSSA Annual Meetings in Indianapolis, Indiana. November 11, 2002 (contributed).

Pearson, C.H., and S.M. Max. 2001. Security and Protection of Agricultural Field Research. Agron. Abstracts Poster presentation was made at the ASA-CSSA-SSSA Annual Meetings in Charlotte, North Carolina, October 21, 2001.

Pearson, Calvin H. 2000. Agronomic performance of kenaf in western Colorado. Proceedings of the American Kenaf Society 3:137-141. Poster presentation was made at the Third Annual Conference of the American Kenaf Society in Corpus Christi, Texas, February 23-25, 2000.

Pearson, C. H., K.D. Sayre, and P.L. Chapman. 2000. Nitrogen management under no-tillage in a furrow-irrigated crop rotation of corn and wheat in western Colorado. Proceedings of the Great Plains Soil Fertility Conference 8:232-237. Poster presentation was made at the Great Plains Soil Fertility Conference in Denver, Colorado, March 7-8, 2000.

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Pearson, Calvin H. 1998. Farming in the western U.S. in the 21<sup>st</sup> century: challenges and opportunities. In: Donald J. Nash (ed.). Proceedings of the 74<sup>th</sup> Annual Meeting of the Southwestern and Rocky Mountain Division of the American Association for the Advancement of Science with The Colorado-Wyoming Academy of Science and Mesa State College 17-21 May 1998. p. 32.

Pearson, C.H., W.A. Fithian, and B.S. Curran. 1998. Blunt ear syndrome of corn and applying anhydrous ammonia. *Agron. Abst.* 90:101.

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Pearson, C.H., and L. Robinson. 1994. Automating a commercial swather for harvesting forage plots. *Agron. Abst.* 86:77.

Ashraf M., and C.H. Pearson. 1993. Crop, irrigation, and soil responses to conservation tillage in a furrow-irrigated cropping system. *Agron. Abst.* 85:143.

Pearson, C.H., and W. Fithian. 1993. Blunt ear syndrome - a new disease phenomenon in corn. *Agron. Abst.* 85:128.

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Pearson, C.H., H.M. Golus, R.W. Hammon, and L.E. Sommers. 1992. Modernizing the off-campus research center. *Agron. Abst.* 84:74.

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Hammon, R. W., C. H. Pearson, and F. B. Peairs. 1991. Microclimate and Russian Wheat Aphid distribution in furrow irrigated winter wheat and barley. *Agron. Abst.* 83:145.

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Pearson, C.H., and H.M. Golus. 1989. Field performance of fall-planted durum wheat in a mild arid climate. *Agron. Abstr.* 81-142.

Tindall, T.A., and C.H. Pearson. 1989. Ethephon's effect on irrigated spring barley under varying moisture and nitrogen levels. *Agron. Abstr.* 81-254. Pearson, C. H., and H. M. Golus. 1987. Ethephon application and nitrogen fertilization in irrigated winter barley. *Agron. Abstr.* 79:119.

Olsen, S. R., D. F. Champion, Ron Yoder, H. Golus, Calvin Pearson, and Frank Schweissing. 1985. The role of ammonium nutrition in higher yields. *Agron. Abstr.* 77:180.

Pearson, C. H., and G. D. Jolliff. 1983. Physiological and yield response of meadowfoam to crop water deficits. *Agron. Abstr.* 75:97.

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Pearson, C. H., and M. B. Kirkham. 1979. Water relations of wheat grown with fertilizer placed in strips or broadcast. *Agron. Abstr.* 71:107.

#### **NON-REFEREED JOURNAL ARTICLES**

Pearson, Calvin H. 2008. Preface to *Celebrate the Centennial: A collection of articles to commemorate 100 years of Agronomy Journal*. A supplement to *Agronomy Journal*. American Society of Agronomy. Madison, WI.

Ogg, J.B., M.A. Brick, and C.H. Pearson. 2008. Introgression of popping ability into common beans adapted to temperate regions. *In: Annual Report of the Bean Improvement Cooperative*. Vol. 51:114-115.

Pearson, Calvin H. and Susan Ernst. 2008. Reports of ASA divisions, branches, and committees, 2007. *A302 Agronomy Journal* Editorial Board. *Agron. J.* 100:875-878.

Pearson, C.H. 2007. Letter from the Editor. *Agron. J.* 99:320-321.

Pearson, Calvin H. and Susan Ernst. 2007. Reports of ASA divisions, branches, and committees, 2006. *A302 Agronomy Journal* Editorial Board. *Agron. J.* 99:868-869.

Pearson, C.H. 2007. Letter from the Editor. *Agron. J.* 99:1726-1727.

Pearson, C.H. 2006. Letter from the Editor. *Agron. J.* 98:229-230.

Pearson, Calvin H. and Susan Ernst. 2006. Reports of ASA divisions, branches, and committees, 2005. *A302 Agronomy Journal* Editorial Board. *Agron. J.* 98:840-842.

Pearson, C.H. 2005. Letter from the Editor. *Agron. J.* 97:343-344.

Pearson, Calvin H. and Susan Ernst. 2005. Reports of ASA divisions, branches, and committees, 2004. *A302 Agronomy Journal* Editorial Board. *Agron. J.* 97:998-1001.

Pearson, C.H. 2004. Letter from the Editor. *Agron. J.* 96:319-320.

Pearson, Calvin H. and Susan Ernst. 2004. Reports of ASA divisions, branches, and committees, 2003. *A302 Agronomy Journal* Editorial Board. *Agron. J.* 96:876-880.

Pearson, C.H. 2003. Letter from the Editor. *Agron. J.* 95:231-232 .

Nilsson, Matt, Susan Ernst, and Calvin H. Pearson. 2003. Reports of ASA divisions, branches, and committees, 2002. *A302 Agronomy Journal* Editorial Board. *Agron. J.* 95:741-744.

Pearson, C.H. 2002. Letter from the Editor. *Agron. J.* 94:171.

## **RESEARCH CENTER MANAGEMENT ACTIVITIES**

Calvin H. Pearson, Editor, Western Colorado Research Center 2013 Research Report. Colorado State University, Agricultural Experiment Station and Extension, Technical Report TR14-06. Fort Collins, Colorado.

Calvin H. Pearson, Editor, Western Colorado Research Center 2012 Research Report. Colorado State University, Agricultural Experiment Station and Extension, Technical Report TR13-05. Fort Collins, Colorado.

Calvin H. Pearson, Editor, Western PhytoWorks, Newsletter of the Colorado State University, Agricultural Experiment Station, Western Colorado Research Center. Spring 2014, Spring 2013, Winter 2013.

Calvin H. Pearson - Appointed Site Manager of the Western Colorado Research Center at Fruita, February 2013 to present.

WCRC Research Committee meeting. December 16, 2010.

WCRC Management Advisory Committee meeting. December 16, 2010.



Western Colorado Research Center Research Committee meeting, January 30, 2006. Orchard Mesa Research Center.

Western Colorado Research Center Management Advisory Committee meeting, March 13, 2006. Orchard Mesa Research Center.

Western Colorado Research Center Research Committee meeting, November 28, 2006. Orchard Mesa Research Center.

Western Colorado Research Center Management Advisory Committee meeting, November 28, 2006. Orchard Mesa Research Center.

Provided evaluation input regarding the job performance of Susan Baker. March 28, 2006. Western Colorado Research Center.

Provided evaluation input regarding the job performance of Fred Judson. March 29, 2006. Western Colorado Research Center.

Provided evaluation input regarding the job performance of Harold Larsen. March 28, 2006. Western Colorado Research Center.

Western Colorado Research Center Management Advisory meetings. February 20, 2003; April 17, 2003; November 14, 2003. Orchard Mesa Research Center.

WCRC Research Committee meetings. March 26, 2003, December 19, 2003. Orchard Mesa Research Center Conference room.

Western Colorado Research Center Management Advisory meetings. March 14, 2002; June 17, 2002; October 2, 2002. Orchard Mesa Research Center.

Western Colorado Research Center Advisory Committee meetings. March 25, 2002, June 17, 2002, at the Orchard Mesa Research Center, 7 pm.

Western Colorado Research Center (WCRC) Research Committee Meetings - February 5, 2001; March 16, 2001; July 17, 2001; November 1, 2001. Orchard Mesa Research Center Conference room.

Western Colorado Research Center (WCRC) Advisory Committee Meeting, February 26, 2001. Bill Heddles Recreation Center, Delta, Colorado.

Management Advisory Committee meeting, Wednesday, June 13, 2001, Orchard Mesa Research Center Conference Room.

Western Colorado Research Center Advisory Committee meetings. March 20, 2000 in Delta, Colorado and October 11, 2000 at Orchard Mesa Research Center.

Western Colorado Research Center Research Committee meetings. Orchard Mesa Research Center. March 15, 2000; May 10, 2000; and September 18, 2000.

Western Colorado Research Center Management Advisory meetings. February 15, 2000; June 14, 2000; September 13, 2000; November 27, 2000. Orchard Mesa Research Center.

Western Colorado Research Center Research Committee meeting, December 6, 1999, Holiday Inn, Grand Junction, Colorado.

Western Colorado Research Center Management Advisory meeting, March 1, 1999. Fruita Research Center.

Western Colorado Research Center Management Advisory meeting, November 9, 1999. Orchard Mesa Research Center

Western Colorado Research Center Advisory Committee Meeting, December 20, 1999, Mesa State College, Grand Junction, Colorado.

## **CONSULTING ACTIVITIES**

Scientific Advisor, Edison Agrosiences. Durham, North Carolina. 2014.

Provided written recommendations for Parkerson Construction at a gravel pit located in Clifton, Colorado on "Revegetation of Stockpiled Topsoil at the Gravel Pit at Parkerson Construction." April-May 2013. 8 pages.

Provided written recommendations regarding the lands around the airfield at Buckley Air Force Base, Aurora, Colorado, "Short Grass Prairie Soil and Vegetation Investigation Study on Buckley Air Force Base, Colorado." July 2012-November 2013. 20 pages.

Performed field inspections in western Colorado for the Colorado Seed Growers Association. Inspected seed fields of grass, wheat, clover and alfalfa, summer and fall 1999-2014.

Alfalfa plant sampling and shipping for use in determining nematode resistance of alfalfa germplasm by Forage Genetics in Nampa, Idaho. Typically twice each year during the Years 2001-2014.

## **GRADUATE STUDENT TRAINING**

Served on the graduate committee for M.S. student Andy Beahm. Degree was completed in 2011. Thesis research topic was “Living Mulches for Irrigated Corn and Soybeans in the Semi-Arid West.”

Served as co-advisor for M.S. student Wayne Fithian. Thesis defense was completed February 1999. Thesis research topic was “Etiology and management of blunt ear syndrome of corn.”

Served as co-advisor for M.S. student Mohamed Ashraf. Ashraf was a student from Pakistan. Degree was completed in 1993. Thesis research topic was “Crop, irrigation, and soil response to conservation tillage in a furrow-irrigated cropping system.”

Served on the graduate committee for M.S. student Ron Riley. Degree was completed in 1985. Thesis research topic was “Yield and yield components of dry beans in biblend mixtures of bush and vine growth habits.”

## **PROFESSIONAL ACTIVITIES**

Member of the Search Committee for Head, Department of Soil & Crop Sciences. Performed during fourth quarter 2010 and first and second quarters 2011.

Attended AES Research Center Conference. January 11-13, 2011. Cherokee Park Ballroom, Colorado State University, Fort Collins, CO.

Training on Microsoft Excel 2007. Fred Pryor Seminars. Grand Junction, Colorado February 3, 2011.

Member of the committee developing the western heritage garden at the Western Colorado Botanical Gardens in Grand Junction. (2007-2011)

Attended AES Research Center Conference. January 5-7, 2010. Cherokee Park Ballroom, Colorado State University, Fort Collins, CO.

Attended AES Research Center Conference. January 6-8, 2009. Fort Collins, CO.

Attended sessions of the 2010 Commercial Pesticide Applicator Workshop as needed to obtain continuing education credits for my pesticide license. Two Rivers Convention Center, Grand Junction, CO February 16-18, 2010.

Completed continuing education credits for my pesticide license for the Colorado Department of Agriculture. February 17-18, 2009. Two Rivers Convention Center, Grand Junction, CO.

Completed continuing education credit for Research and Development for my pesticide license for the Colorado Department of Agriculture. April 2, 2009. Western Colorado Research Center – Orchard Mesa, conference room.

Completed compliance training by Forage Genetics International for research conducted on regulated Roundup-Ready alfalfa forage plots. May 1, 2009.

Successfully completed USDA-BSR inspection of Forage Genetics Roundup-Ready alfalfa plots by 2009.

Successfully completed USDA-BSR inspection of Forage Genetics Roundup-Ready alfalfa plots on June 12, 2008.

Successfully completed USDA inspection of Syngenta MIR162 corn plots on August 5, 2008.

Member of the organizing committee along with Leigh Fortson for a two-day energy symposium entitled, “Renewable Energy Options: The Role of Extension Agents in the 21<sup>st</sup> Century Energy Economy.” March 19-20, 2007. Golden, Colorado. We had more than 100 people in attendance.

Attended Plant Community Restoration Workshop, Sept. 5-7, 2007, Grand Junction, CO.

Attended sessions of the 2007 Commercial Pesticide Applicator Workshop as needed to obtain continuing education credits for my pesticide license. Grand Junction, CO February 13-15, 2007.

Attended AES Research Center Conference. January 10-12, 2007. Fort Collins, CO.

Attended Soil and Crop Sciences Department Retreat. January 9, 2007. Cherokee Park Room – Lory Student Center. Fort Collins, CO.

Attended and participated in ASA-CSSA-SSSA Editors meeting, April 20-21, 2006. Madison, WI.

Attended Commercial Pesticide Applicator Training Workshop. February 7-9, 2006 to obtain continuing education credits for my qualified supervisor pesticide license. Grand Junction, Colorado.

Attended Soil and Crop Sciences Department Retreat. January 12, 2006. University Motor Inn. Fort Collins, CO.

Attended AES Research Center Conference. January 9-11, 2006. Fort Collins, CO.

Attended and successfully completed the “Biosafety and Biosecurity in Plant Research and Diagnostics” Colorado State University, Fort Collins, CO July 8-15, 2005.

Attended and participated in American Society of Agronomy Editors meeting, May 9-10, 2005. Madison, WI.

Attended and successfully completed the “National Incident Management System Orientation (IS700), Incident Command System Module (IS100), and Disaster Readiness Exercise (National Interagency Response Plan). Spring 2005. 9 contact hours. Sponsored by the Extension Disaster Education Network, Scott Cotton, Coordinator, Colorado State University.

Chair – American Society of Agronomy, Division A-7, 2004

Attended the Commercial Pesticide Applicator Training Workshop on Tuesday, February 18, 2004 to obtain continuing education credits to maintain my Pesticide Applicators license. Grand Junction, Colorado.

Invited and attended Roundup-Ready Alfalfa Academic Seminar Program. Phoenix, Arizona. January 22-23, 2004.

Attended and participated in the Agricultural Experiment Station Research Center Conference. January 12-14, 2004. Fort Collins, Colorado.

Attended and participated in the Agricultural Experiment Station Research Center Conference. January 15-17, 2003. Fort Collins, Colorado.

USDA-ARS, WRRC technician, Albany, California came to the Fruita Research Center to provide research associate (DR) and me with training regarding extraction of rubber from plant tissue and protocol for tissue culture of sunflower. Week long training. July 22-27, 2002.

Training on operating a Dionex ASE 200. Day long training session. July 26, 2002. Fruita, Colorado.

Human Subjects training, Western Regional Meeting, Grand Vista Hotel, Grand Junction, Colorado. April 3, 4, 5, 2002.

Compliance Training Workshop for growing Roundup-Ready alfalfa in test plots at Fruita. Thursday, February 21, 2002. This was a telephone conference training session.

Attended the Agricultural Experiment Station Research Center Conference. January 9-11, 2002. Fort Collins, Colorado.

Achieved 25 years of membership in the American Society of Agronomy in 2003. This milestone was recognized in a letter to me from Robert G. Hoeft, President, American Society of Agronomy.

American Society of Agricultural Engineers, Outstanding Entry in the 2005 Educational Aids Competition for Publications: Manuals and Workbooks category for the Dry Bean Production & Pest Management. This award was shared with the other 21 authors of the management guide.

Chair - Division A-7, Branch Station Management of the American Society of Agronomy 2003.

**Editor – *Agronomy Journal* - 2002 through 2007.**

The Editor has numerous responsibilities including the following:

- Oversaw the review and editing of all papers submitted to *Agronomy Journal* during 2003.
- Organized and conducted the breakfast meeting of the Technical Editors at the ASA annual meetings.
- Organized and conducted the *Agronomy Journal* Editorial Board at the ASA annual meetings. (Prepared an agenda, notes from the Editor, and various other handouts for the editorial board meeting.)
- Maintained detailed files (both electronic and paper) for each manuscript using FileMakerPro software.
- Helped numerous editors and authors with the use of Manuscript Tracker for submitting and tracking of manuscripts in *Agronomy Journal*.
- Worked with the programmer to refine and improve Manuscript Tracker.
- Prepared a Strategic Plan for *Agronomy Journal* during 2003 (prepared July 2003 and updated October 2003. During 2004 the Strategic Plan will be reviewed, refined, and improved.)
- Developed guideline sheet to assist authors in preparing news releases of select articles in *Agronomy Journal*.
- Identified and worked with numerous authors in the preparation of news releases for each issue of *Agronomy Journal*.
- Reviewed and edited meeting minutes from the Editorial Board meeting held in Denver.
- Developed the Table of Contents for each of the six issues of *Agronomy Journal* in 2003.

- Initiated and oversaw the Editor's Citation for Excellence in Manuscript Review during 2003. Four reviewers were identified and recognized by receiving a letter from me, a certificate, and being recognized in an issue of CSA News by publishing their photo and associated text regarding their award.
- Responded to numerous inquiries by authors and editors.
- Prepared annual List of Reviewers.
- Identified and recognized Outstanding Reviewers for each section in *Agronomy Journal*.

Made preparations for the American Society of Agronomy to celebrate the centennial anniversary of *Agronomy Journal*, which occurred in 2008. Was involved in several activities now so we have time to make adequate preparations for this important occasion. These included:

- Prepared a "Call for Special Papers."
- In cooperation with Lowell Moser, I initiated the creation of a special logo for the centennial celebration.
- Have initiated the preparation of a centennial promotion card for *Agronomy Journal*.

Restructuring of Agronomy Journal Committee Meeting, January 13-14, 1999. ASA Headquarters, Madison, Wisconsin. Group of approximately 25 ASA-CSSA-SSSA Editors and Headquarters staff met to discuss restructuring Agronomy Journal and discontinuation of Journal of Production Agriculture.

**Technical editor** - *Agronomy Journal* - January 1996 to 2000. *Agronomy Journal* is an international scientific journal published by the American Society of Agronomy. The Society has a worldwide membership of more than 12,500 and *Agronomy Journal* has a circulation of more than 7,600. I oversee the review process for all row crop manuscripts submitted to the *Journal* and make the final decision on publication. I handled 101 manuscripts in 1995, 52 manuscripts in 1996, 59 manuscripts in 1997, and 53 manuscripts in 1998 that were submitted by scientists worldwide. Thirteen associate editors from universities across the USA work under my direction. One 3-year term has been completed and I am serving in the second year of the second term.

**Associate editor** - *Agronomy Journal* - 1990 through 1999. The associate editor is responsible for conducting ad hoc reviews of manuscripts, working with authors on revisions, and making recommendations to the technical editor.

Member of the Search Committee for Head, Department of Soil & Crop Sciences. Initial meeting Wednesday, December 11, 2002. Completed during first and second quarters 2003.

Meeting between Western Colorado Research Center and Tri-River Cooperative Extension personnel to discuss the need and potential for conducting ornamental research in western Colorado. March 26, 2003. Orchard Mesa Research Center Conference room.

Provided input for the annual evaluation of a CSU Cooperative Extension Specialist (2002).

Provided input for the annual evaluation of a CSU Northwest Area Cooperative Extension Agent (2002).

Member of Search Committee for Manager of the Western Colorado Research Center. Summer and Winter 2002.

Member of the Interview Committee for the Agronomy/Entomology position for Cooperative Extension Tri-River Area. December 12, 2002. Grand Junction, Colorado.

Western Colorado Cooperative Extension Specialists meeting. December 9, 2002. Downtown Grand Junction, Colorado at Dolce Vita.

Chair-Elect of Division A-7, Branch Station Management of the American Society of Agronomy 2002. Duties as Chair-Elect began November 13, 2002 at the American Society of Agronomy meetings held in Indianapolis, Indiana.

Search Committee member for Research Associate/Research Scientist position at the Western Colorado Research Center at Rogers Mesa. Spring/Summer 2001.

Western Colorado Research Center Training meeting on Cold Fusion and Travel Manager. Orchard Mesa Research Center. September 13, 2000.

Meeting with the CSU Cooperative Extension personnel (Wayne Cooley), NRCS personnel (Charlie Holcomb, John Murray), and CSU Experiment Station personnel (Calvin Pearson) to discuss preparing a publication on conservation tillage for furrow-irrigated conditions. April 11, 2000. Friendship Hall, Montrose, Colorado.

Meeting between Western Colorado Research Center and Tri-River Cooperative Extension personnel to discuss the need and potential for conducting ornamental research in western Colorado. April 3, 2000. Mesa County Fairgrounds.  
Provided an evaluation for promotion for one department faculty member (2000).

Provided input for annual evaluation of a CSU Cooperative Extension Specialist (2000).

Provided written evaluation for a CSU Tri-River Area Cooperative Extension Agent (2000).

Participant in the Advisory Committee to provide input into the professional activities of Regional Extension Ag Economist, CSU Cooperative Extension Business and Ag Economist, Tri-River Area Cooperative Extension. Bookcliff Country Club. Grand Junction, Colorado. December 14, 2000.



Several trips to CIMMYT in Mexico to collaborate with the CIMMYT wheat agronomist on a joint research project on conservation tillage for furrow-irrigated conditions, 1994-97.

Participated in Joint Meeting of Western Colorado Cooperative Extension and Research Center staff. December 14, 2001. Orchard Mesa Research Center Conference Room. Oral presentation by Calvin Pearson 2001-2002 Research Activities.

Attended 5<sup>th</sup> National Symposium, New Crops & New Uses Strength in Diversity. November 10-13, 2001. Omni Hotel at CNN Center, Atlanta, Georgia.

Attended Computer Applications Training Workshop. October 31 - November 2, 2001. Microsoft Powerpoint, October 31; Microsoft Access, November 1; Microsoft Word, November 2, 2001. Intellitec College, Grand Junction, Colorado. Presented by Cooperative Extension Computer Applications Training Specialists Jeff Wood and Mark Herndon.

Attended Upper Colorado Environmental Plant Center Advisory Meeting. June 20, 2001. Meeker, Colorado.

Participated in Joint Meeting of Western Colorado Cooperative Extension and Research Center staff. March 15, 2001. Orchard Mesa Research Center Conference Room. Oral presentation by Calvin Pearson on research results/activities.

Planning/advisory meetings with the nursery/business owners in the green industry in western Colorado to discuss new research project, "Production Systems of Ornamental Landscape Plants in the Intermountain West of the U.S." Orchard Mesa Research Center Conference room. January 26, 2001 and March 2, 2001. 20 people in attendance.

Attended "Commercial Pesticide Applicator Training Workshop" to obtain needed continuing education credits for pesticide license. February 22-23, 2001. Holiday Inn, 755 Horizon Drive, Grand Junction, Colorado.

Attended meeting, "Harvesting the Benefits of Carbon, The Potential for Carbon Sequestration." February 22-23, 2001. Country Inns of America, 718 Horizon Drive, Grand Junction, Colorado. Sponsored by Colorado Big Country RC&D, Glenwood Springs.

Attended Agricultural Experiment Station Research Center Conference. January 8-10, 2001. Fort Collins, Colorado.

Attended National Research Initiative grant workshop. October 6, 2000. Denver, Colorado. Attended PowerPoint Workshop. Holiday Inn. Grand Junction, Colorado. September 25, 2000.

Trip to western Oregon to attend Far West Horticultural Show and tour nurseries. August 25-30, 2000. Traveled with three other employees from WCRC.

Attended Selenium Symposium 2000. June 28, 2000. Montrose, Colorado.

Attended meeting on “Managing Mountain Meadows for Hay Production.” Friendship Hall, Montrose, Colorado. February 10, 2000.

Attended commercial pesticide applicator training workshop to obtain continuing education credits for my pesticide license. February 9, 2000. Holiday Inn. Grand Junction, Colorado.

Attended the Agricultural Experiment Station Research Center Conference. January 10-12, 2000. Fort Collins, Colorado.

Attended sugarbeet workshop on August 16-17, 1999 in Scottsbluff, Nebraska sponsored by the University of Nebraska. I did this to become more familiar with sugarbeet production and the potential for sugarbeets to again be grown in western Colorado.

Grant Proposal Writing Workshop, Colorado State University, Pingree Park, Colorado, May 13-17, 1996. An intensive workshop on how to get grants funded.

Overseas technical assistance on dry beans in Bolivia, January 1992. My assignment was to evaluate the potential for Bolivia to produce its own dry bean seed and to provide technical assistance for producing dry beans and dry bean seed. While in Bolivia, I gave several lectures to consultants, public officials, extension agents, and farmers.

Award - Certificate of Appreciation from the Colorado Commissioner of Agriculture - 1992  
Appointed to serve as a member of the Committee for the Electronic Conversion of Back Issues of A/C/S Journals (2002-2004) for the American Society of Agronomy.

## **PROGRESS, CONTRACT AND GRANT REPORTS, NEWSLETTERS**

Pearson, Calvin. 2014. Blunt ear syndrome alert. p. 6. *In: Western PhytoWorks* (Calvin H. Pearson, ed.). Winter 2014. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin, and Bob Hammon. 2014. The purpose and value of agricultural burning. p. 4-5. *In: Western PhytoWorks* (Calvin H. Pearson, ed.). Winter 2014. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin. 2014. Subsurface drip irrigation in alfalfa in western Colorado. p. 2,7. *In: Western PhytoWorks* (Calvin H. Pearson, ed.). Spring 2014. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin. 2014. Progress report to the Colorado Water District on Alternative Agricultural Water Transfer Methods: Progress Report, First Quarter – 3rd Year, Jan 23, 2015.

Pearson, Calvin. 2013. Progress report to the Colorado Water District on Alternative Agricultural Water Transfer Methods: Progress Report, First Quarter – 2nd Year, Jan 24, 2014.

Pearson, Calvin. 2013 Quarterly progress reports submitted to Southcentral Sun Grant Center on our project entitled, “Developing Low-Input, High-Biomass, Perennial Cropping Systems to Support a Bioenergy Economy on Marginal Land at Higher Elevations.”

Pearson, Calvin. 2013. How do I decide what research to conduct? p. 3-4. *In*: Western PhytoWorks (Calvin H. Pearson, ed.). Winter 2013. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Jones, Lyndsay, Joe Brummer, Calvin Pearson, and Abdel Berrada. 2013. Agronomic responses to partial and full season fallowing of alfalfa and grass hayfields. p. 2. *In: Western PhytoWorks* (Calvin H. Pearson, ed.). Winter 2013. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin. 2013. Research plots combines donated to the Western Colorado Research Center at Fruita. p. 6-7. *In: Western PhytoWorks* (Calvin H. Pearson, ed.). Spring 2013. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin. 2013. Irrigation workshop taught in Afghanistan by CSU experts. *In: Western PhytoWorks* (Calvin Pearson, ed.). Spring 2013. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University. p.8,10.

Pearson, Calvin. 2012 Quarterly progress reports submitted to Southcentral Sun Grant Center on our project entitled, "Developing Low-Input, High-Biomass, Perennial Cropping Systems to Support a Bioenergy Economy on Marginal Land at Higher Elevations."

Pearson, Calvin. 2012. What is second generation biofuel. *In: Western PhytoWorks* (Ramesh Pokharel, ed.). Winter 2011-2012. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University. p. 2-3.

Pearson, Calvin. 2012. Nitrate poisoning of livestock. *In: Western PhytoWorks* (Ramesh Pokharel, ed.). Winter 2011-2012. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University. p. 5.

Pearson, Calvin. 2012. Intermountain Grass and Legume Forage Production Manual recently published. *In: Western PhytoWorks* (Stephen D. Menke, ed.). Spring 2012. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University. p.1, 4.

Pearson, Calvin. 2011. Local Weather Data Available on the Internet. p. 2. *In: Western PhytoWorks* (Ramesh Pokharel, ed.). Spring 2011. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin. 2011 Quarterly progress reports submitted to Southcentral Sun Grant Center on our project entitled, "Developing Low-Input, High-Biomass, Perennial Cropping Systems to Support a Bioenergy Economy on Marginal Land at Higher Elevations."

Pearson, Calvin. 2011. Progress report submitted to the Bureau of Reclamation for project entitled, "An automatic gate valve actuator for gated pipe to increase efficiency of furrow irrigation. September 30, 2011.

Pearson, Calvin. 2010. Local Weather Data Available on the Internet. p. 3. In: Western PhytoWorks (Ramesh Pokharel, ed.). Fall 2010. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin. 2010. AGVA Units to be Evaluated in 2010 at WCRC-Fruita. In: Western PhytoWorks (Ramesh Pokharel, ed.). Spring 2010. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin H. Nitrate poisoning of livestock. In: Western PhytoWorks (Ramesh Pokharel, ed.). Winter 2011-2012. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University. p.5.

Pearson, Calvin H. AGVA units to be evaluated in 2010 at WCRC-Fruita. In: Western PhytoWorks (Ramesh Pokharel, ed.). Spring 2010. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University. p. 2-3.

Pearson, Calvin H. Research project initiated in 2010 on biomass and bioenergy in western Colorado. In: Western PhytoWorks (Ramesh Pokharel, ed.). Spring 2010. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University. p. 7.

Pearson, Calvin. 2009. Management of Alfalfa Forage Trials Changed during 2009. *In:* Western PhytoWorks (Ramesh Pokharel, ed.). Fall 2009. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin. 2009. Alfalfa Continues to be a Valuable Crop for Western Colorado. *In:* Western PhytoWorks (Ramesh Pokharel, ed.). Spring 2009. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin. 2008. Fertilizer Prices Skyrocket – What Should I do? *In:* Western PhytoWorks (Ramesh Pokharel, ed.). Spring 2008. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin. 2008. Wheat Prices Entice Spring Plantings. *In:* Western PhytoWorks (Ramesh Pokharel, ed.). Spring 2008. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin, and Joe Brummer. 2008. Competitive Grant Funds Living Mulch Research Project. *In:* Western PhytoWorks (Ramesh Pokharel, ed.). Spring 2008. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin. 2007. New Regional Water Management Specialist Hired for Western Colorado. *In: Western PhytoWorks* (Ramesh Pokharel, ed.). Fall 2007. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin. 2007. A Diversity of Tours and Visitors This Summer at WCRC. *In: Western PhytoWorks* (Ramesh Pokharel, ed.). Fall 2007. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin. 2007. WCRC Employees Participate in Bike-to-Work Day. *In: Western PhytoWorks* (Ramesh Pokharel, ed.). Fall 2007. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin. 2006. New Research Project Initiated at WCRC on Living Mulches. *In: Western PhytoWorks* (Ron Godin, ed.). Fall 2006. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin. 2006. WCRC Researcher Presents Paper at Scientific Meetings in San Diego. *In: Western PhytoWorks* (Ron Godin, ed.). Fall 2006. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin. 2006. Producing Canola and Biodiesel on the Western Slope. *In: Western PhytoWorks* (Ron Godin, ed.). Fall 2006. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin. 2004. New Forage Bulletin Now Available. *In: Western PhytoWorks* (Ron Godin, ed.). Fall 2004. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin. 2004. New Weigh Bin Designed and Constructed at WCRC. *In: Western PhytoWorks* (Ron Godin, ed.). Fall 2004. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin, Frank Kelsey, and Matt Rogoyski. 2004. WCRC Hosts Environmental Restoration Workshop. Fall 2004. *In: Western PhytoWorks* (Ron Godin, ed.). Fall 2003. Newsletter of the Western Colorado Research Center, Agricultural Experiment Station, Colorado State University.

Pearson, Calvin. 2003. Agronomy Journal Being Scrutinized. *In: Western PhytoWorks*. Spring 2003. Newsletter of the Western Colorado Research Center.

Pearson, Calvin. 2003. Research Grant Proposal Funded for WCRC Scientist. *In: Western PhytoWorks*. Fall 2003. Newsletter of the Western Colorado Research Center.

Western PhytoWorks (Calvin Pearson, Editor). Fall 2002. Newsletter of the Western Colorado Research Center.

Western PhytoWorks (Calvin Pearson, Editor). Spring 2002. Newsletter of the Western Colorado Research Center.

Pearson, Calvin. 2002. New Editor of Scientific Ag Journal from WCRC. *In: Western PhytoWorks*. Spring 2002. Newsletter of the Western Colorado Research Center.

Pearson, Calvin. 2002. Pearson to be Division Chair-Elect. *In: Western PhytoWorks*. Fall 2002. Newsletter of the Western Colorado Research Center.

Pearson, Calvin. 2002. Guidebook for Using Conservation Tillage Under Furrow Irrigation Now Available. *In: Western PhytoWorks*. Fall 2002. Newsletter of the Western Colorado Research Center.

Western PhytoWorks. Spring 2001 Issue. Newsletter published by the Colorado State University, Agricultural Experiment Station, Western Colorado Research Center (Calvin Pearson, Editor).

Western PhytoWorks. Fall 2001 Issue. Newsletter published by the Colorado State University, Agricultural Experiment Station, Western Colorado Research Center (Calvin Pearson and Shane Max, Editors.).

Pearson, Calvin. Spring 2001. Poplar Performance is Promising. *In: Western PhytoWorks*. Spring 2001 Issue. Newsletter published by the Colorado State University, Agricultural Experiment Station, Western Colorado Research Center (Calvin Pearson, Editor).

Pearson, Calvin. Fall 2001. \$2.5 Million Grant Awarded for Research on Rubber-Producing Crops. *In: Western PhytoWorks*. Fall 2001 Issue. Newsletter published by the Colorado State University, Agricultural Experiment Station, Western Colorado Research Center (Calvin Pearson and Shane Max, Editors).

Fifty-first Annual Report of the National Cooperative Dry Bean Nurseries 2000. June 2001. Cooperative investigation among state experiment stations, USDA-ARS, and Agri-Food Canada and Canadian Agricultural Research Centers as a part of the W-150 project. Compiled by Shree P. Singh and Erik Powers. University of Idaho, Agricultural Experiment Station, College of Agriculture, Progress Report 346. Calvin H. Pearson, cooperator for the site at Fruita, Colorado.

Pearson, C.H.. 1999. Results of pasture grass species evaluation at Fruita, Colorado. Prepared for private industry, growers, university personnel, cooperative extension agents, and others. Fruita Research Center, Fruita, Colorado. These forage results to be posted on the Crops Testing web site.

Pearson, C. H. 1999. Report of alfalfa variety performance test. Prepared for private industry, growers, university personnel, cooperative extension agents, and others. Fruita Research Center, Fruita, Colorado.

Pearson, C.H. 1998. Summary of Dry Bean Agronomic Research. Report to the Colorado Dry Bean Administrative Committee. January 14, 1999.

Pearson, C.H. 1999. Summary of Dry Bean Agronomic Research. Report to the Colorado Dry Bean Administrative Committee. December 23, 1999.

1998 Alfalfa Variety Trial Results. Western Alfalfa Improvement Conference (WAIC-14). March 31, 1999. Compiled through the cooperative efforts of state and federal personnel at various agricultural experiment stations in the western United States. Calvin H. Pearson cooperator for the site at Fruita, Colorado.

Forty-ninth Annual Report of the National Cooperative Dry Bean Nurseries. 1998. Cooperative investigation among state experiment stations, USDA-ARS, and Canadian Agricultural Research Centers as a part of the W-150 project. Compiled by Kathryn D. Stewart-Williams. University of Idaho, Agricultural Experiment Station, College of Agriculture, Progress Report 334. Calvin H. Pearson, cooperator for the site at Fruita, Colorado.

## GRANTS

For most of these grants I was the Principal Investigator. For a few I was a co-investigator. Because of space limitations it was not possible to provide details associated with each grant.

<b>Date</b>	<b>Title</b>	<b>Funding Source</b>
2015	Evaluation of Alfalfa Variety Breeding Lines	Forage Genetics Int'l
2015	KB seed production II	
2014	AES Project 672	AES
2014	Northwest Colorado Wheat Trials	Colorado Wheat Administrative
2014	Evaluation of Alfalfa Variety Breeding Lines	Forage Genetics Int'l
2014	Corn grain and corn silage variety trials	DowAgroSciences
2014	Applying biostimulant in alfalfa and pinto bean	Bio-Tec Solutions
2014	Canola Research	National Winter Canola Testing
2013-2016	KB seed production	
2013	Funding for repair of Hege 140 plot combine	Colorado Wheat Administrative
2013	AES Project 672	AES
2013	Corn grain and corn silage variety trials	DowAgroSciences
2013	Short Grass Prairie Re-vegetation	Buckley Air Force Base
2013	Evaluation of Alfalfa Variety Breeding Lines	Forage Genetics Int'l
2012	AES Project 672	AES
2013	Canola Research	National Winter Canola Testing
2013	Applying biostimulant in alfalfa	Bio-Tec Solutions



2013	Northwest Colorado Wheat Trials	Colorado Wheat Administrative
2013	Alfalfa seed treatment evaluations	Becker-Underwood
2013	Subsurface Drip in Alfalfa	CWCB-WSRA
2012-14	Commercial alfalfa variety trial	Seed companies
2012	Alfalfa seed treatment evaluations	Becker-Underwood
2012	Canola Research	National Winter Canola Testing
2012	Applying bio-stimulants in wheat and pasture grass	Enviro Consultant Service
2012	AES Project 672	AES
2012	Applying biostimulant in alfalfa	Bio-Tec Solutions
2012	Corn grain and corn silage variety trials	DowAgroSciences
2012	Evaluation of Alfalfa Variety Breeding Lines	Forage Genetics Int'l
2012	Northwest Colorado Wheat Trials	Colorado Wheat Administrative
2011	Evaluation of AGVA units	Bureau of Reclamation
2011	Drought in corn	Valent
2011	AES Project 672	AES
2011	Applying bio-stimulants in wheat and pasture grass	Enviro Consultant Service
2011	Corn grain and corn silage variety trials	DowAgroSciences
2011	Evaluation of Alfalfa Variety Breeding Lines	Forage Genetics Int'l
2011	Northwest Colorado Wheat Trials	Colorado Wheat Administrative
2011-2013	Developing Low-Input, High-Biomass	Sun Grant
2010	Applying bio-stimulants in wheat and pasture grass	Enviro Consultant Service
2010	AES Project 672	AES
2010	Canola Research	Kansas State University
2010	Northwest Colorado Wheat Trials	Colorado Wheat Administrative
2010	Evaluation of Alfalfa Variety Breeding Lines	Forage Genetics Int'l
2009	Evaluation of Alfalfa Variety Breeding Lines	Forage Genetics Int'l
2009	Northwest Colorado Wheat Trials	Colorado Wheat Administrative
2008	Corn Hybrid Performance Testing	Grand Valley Hybrids
2009	Rubber Analyses of Guayule from a Commercial Processing Plant	Yulex Corp
2009	AES Project 672	AES
2009	Corn Chilling	J.C. Robinson Company
2009	Performance of fall-planted malting barley	Coors Brewing Company
2009	Canola Research	Kansas State University
2008	Evaluation of Alfalfa Variety Breeding Lines	Forage Genetics Int'l
2008	Northwest Colorado Wheat Trials	Colorado Wheat Administrative
2008-2010	Integrate Perennial Living Mulches Into Irrigate Cropping Systems	Western SARE Brummer, Hansen
2008	Rubber Analyses of Guayule from a Commercial Processing Plant	Yulex Corp
2008	Corn Chilling	J.C. Robinson Company
2008	Performance of fall-planted malting barley	Coors Brewing Company
2008	Evaluation of MIR162 for corn earworm control	Syngenta
2008	AES Project 672	AES
2008	Corn Hybrid Performance Testing	Grand Valley Hybrids
2008	Canola Research	Kansas State University

2008	Evaluation of Alfalfa Variety Breeding Lines	Forage Genetics Int'l
2007	Northwest Colorado Wheat Trials	Colorado Wheat Administrative
2007	Living Mulches in No-Till Crop Production Systems	NRCS - Brummer, Hansen
2007	Sunflower Minigrant	Yulex Corp
2007	Rubber Analyses of Guayule from a Commercial Processing Plant	Yulex Corp
2007	BES and Corn Chilling	J.C. Robinson Company
2007	AES Project 672	AES
2007	Corn Hybrid Performance Testing	Grand Valley Hybrids
2007	Canola Research	Kansas State University
2007	Evaluation of Alfalfa Variety Breeding lines	Forage Genetics Int'l
2006	Northwest Colorado Wheat Trials	Colorado Wheat Administrative
2006	AES Project 672	AES
2006	Corn Hybrid Performance Testing	Grand Valley Hybrids
2006	Dry Bean Research	Colorado Dry Bean Advisory Board
2006	Canola Research	Kansas State University
2006	Evaluation of Sweet Corn Inbreds	Grand Valley Hybrids
2005	Evaluation of Alfalfa Variety Breeding Lines	Forage Genetics Int'l
2005	Northwest Colorado Wheat Trials	Colorado Wheat Administrative
2005	AES Project 672	AES
2005	Corn Hybrid Performance Testing	Grand Valley Hybrids
2005	Dry Bean Research	Colorado Dry Bean Advisory Board
2005	Evaluation of Corn Hybrids to BES	Grand Valley Hybrids
2005-2007	Alfalfa Variety Performance	Seed and Breeding Companies
2004	Evaluation of Alfalfa Variety Breeding Lines	Forage Genetics Int'l
2004	Northwest Colorado Wheat Trials	Colorado Wheat Administrative
2004	AES Project 672	AES
2004	Corn Hybrid Performance Testing	Grand Valley Hybrids
2004	Dry Bean Research	Colorado Dry Bean Advisory Board
2004	Evaluation of BES Corn Hybrids	Golden Harvest Seed Company
2004	Alfalfa Variety Performance	Seed and Breeding Companies
2003	Evaluation of Alfalfa Breeding Materials	Forage Genetics Int'l
2003	Northwest Colorado Wheat Trials	Colorado Wheat Administrative
2003-2005	Natural Rubber Producing Sunflower Studies	USDA/CREES
2002-04	AES Project 672	AES
2003	Turf grass evaluation and irrigation	Bureau of Reclamation
2003-05	Corn Hybrid Performance Testing	Seed and Breeding Companies
2003	Dry Bean Research	Colorado Dry Bean Advisory Board
2003	Evaluation of BES Corn Hybrids	Golden Harvest Seed Company
2002	Northwest Colorado Wheat Trials	Colorado Wheat Administrative
2002	AES Project 672	AES
2002	Corn Hybrid Performance Testing	Seed and Breeding Companies
2002	Dry Bean Research	Colorado Dry Bean Advisory Board
2002	Evaluation of BES Corn Hybrids	Golden Harvest Seed Company
2002	Alfalfa Variety Performance	Seed and Breeding Companies
2001	Evaluation of Alfalfa Breeding Materials	Forage Genetics Int'l

2001	Northwest Colorado Wheat Trials	Colorado Wheat Administrative
2001	AES Project 672	AES
1999-01	Applying AGRO to Corn	Stockhausen
1999-01	Colorado Water Conservation District	Colorado Water Conservation District
2001-2006	Development of Natural Rubber Crops	USDA-CSREES
2001	Corn Hybrid Performance Testing	Seed and Breeding Companies
2001	Dry Bean Research	Colorado Dry Bean Advisory Board
2001	Evaluation of BES Corn Hybrids	Golden Harvest Seed Company
2000	AES Project 672	AES
2000	Developing Dry Bean Production Technology	Colorado Dry Bean Admin Com
2000	Corn Hybrid Performance Testing	Seed Corn Companies
2000	Dry Bean Research	Colorado Dry Bean Advisory Board
2000	Sugarbeet Variety Performance	Western Sugar
1999	Western CO Wheat Trials	Colorado Wheat Administrative
1999	AES Project 672	AES
1999	Evaluation of Corn Hybrids	Seed Corn Companies
1999	Evaluation of BES Corn Hybrids	J.C. Robinson Company
1999	Evaluation of Alfalfa Germplasm	Forage Genetics Int'l
1999	Evaluation of Alfalfa Cultivars	Alfalfa Seed Companies
1999	Equipment Grant	Colorado Ag Exp. Stn.
1999	Pasture Evaluation	Arkansas Valley Seed Company
1998-2000	Leafy Silage Evaluation	Genetic Resources
1999-2001	Wheat Research in NW Colorado	Colorado Dry Bean Admin Com
1998	BES Corn Study	Pioneer Hi-Bred Int'l
1998	New Crops Evaluation	New Crops Proj. Duane Johnson
1998	Snap Bean Production Evaluation in Western Colorado	Harris Moran Seed Company
1998	Developing Dry Bean Production Technology	Colorado Dry Bean Admin Com
1998	Evaluation of BES Corn Hybrids	J.C. Robinson Company
1998	PAM Evaluation	Bureau of Reclamation
1998	Evaluation of Malting Barley Cultivars	Coors Brewing Company
1998	Evaluation of Corn Hybrids	Seed Corn Companies
1998	Performance of Snap Beans in Western Colorado	Harris Moran Seed Company
1998	Performance of Malting Barley Cultivars	Coors Brewing Company
1998	Development of Dry Bean Production Technology	Colorado Dry Bean Admin Com
1997	Use of Preservatives on Alfalfa Hay	Private Companies
1997	Evaluation of Corn Hybrids	Seed Corn Companies
1997	Evaluation of Alfalfa Germplasm	Forage Genetics Int'l
1997	Evaluation of Alfalfa Cultivars	Alfalfa Seed Companies
1997	Developing Dry Bean Production Technology	Colorado Dry Bean Admin Com
1996	Evaluation of Alfalfa Germplasm	Forage Genetics Int'l
1996-98	No-Till N Management in a Corn/Winter Wheat Rotation	USDA/OICD
1996-98	Evaluation of Malting Barley Cultivars	Coors Brewing Company
1996	Integrated Management of Alfalfa Stem Nematode	Agricultural Experiment Station
1995-97	Evaluation of Corn Hybrids	Corn Seed Companies
1995-97	Dry Bean Research	Colorado Dry Bean Admin Com

1996	Control of Blunt Ear Syndrome	Pioneer Hi-Bred Int'l
1995-96	Evaluation of Hay Conditioners	Biotal/Forco/Germains
1995	Evaluation of Edamame Soybean	Seedex
1995	Evaluation of Malting Barley Cultivars	Coors Brewing Company
1995	Evaluation of Germplasm for Stem Nematode Resistance	Private Companies
1995	Scientific Exchange Program with CIMMYT	USDA/OICD
1995	Nitrogen Fertility of Sweet Corn	Colorado West Sweet Corn
1995	Evaluation of Malting Barley Cultivars	Coors Brewing Company
1995	BES of Corn Cultivars for Resistance to Stem Nematode	Pioneer Hi-Bred Int'l
1994	Evaluation of Corn Hybrids	Corn Seed Companies
1994	Dry Bean Research	Colorado Dry Bean Advisory Board
1994	Research Apprentice for Minority Students	USDA/CSRS
1994	Evaluation of Corn Hybrids	Corn Seed Companies
1994	Dry Bean Research	Colorado Dry Bean Advisory Board
1994	Alfalfa Herbicide Study	American Cyanamid
1993	Evaluation of Germplasm for Control of Stem Nematode	Alfalfa Seed Companies
1993	Evaluation of Alfalfa Cultivars	Alfalfa Seed Companies
1993	Blunt Ear Syndrome of Corn	Pioneer Hi-Bred Int'l
1993	Evaluation of Sugar Beet Seed Production	Seedex
1993-95	Evaluation of Malting Barley Cultivars	Coors Brewing Company
1993-95	Nitrogen Fertility of Sweet Corn	Colorado West Sweet Corn
1993	Research Activities at the Fruita Research Center	Industry (in-kind donations)
1993	Research Apprentice for Minority Students	USDA/CSRS
1993	Evaluation of Corn Hybrids	Corn Seed Companies
1993	Evaluation of Alfalfa Cultivars	Alfalfa Seed Companies
1993	Dry Bean Research	Colorado Dry Bean Advisory Board
1992	Conservation Tillage	Soil Conservation Service
1992	Alfalfa Herbicide Study	American Cyanamid
1992	Blunt Ear Syndrome of Corn	Pioneer Hi-Bred Int'l
1992	Research Activities at the Fruita Research Center	Industry (in-kind donations)
1992	Research Apprentice for Minority Students	USDA/CSRS
1992	Evaluation of Corn Hybrids	Corn Seed Companies
1992	Evaluation of Alfalfa Cultivars	Alfalfa Seed Companies
1992	Research Activities at the Fruita Research Center	Mesa County, Colorado
1991	Dry Bean Research	Colorado Dry Bean Advisory Board
1991	Alfalfa Herbicide Study	American Cyanamid
1991	Conservation Tillage	Soil Conservation Service
1991	Education Development	Pakistan Training Program
1991	Evaluation of Corn Hybrids	Seed Corn Companies
1991	Evaluation of Alfalfa Varieties	Alfalfa Seed Companies
1991	Research Activities at the Fruita Research Center	Mesa County, Colorado
1991	Research in Western Colorado	Montrose County, Colorado
1990	Corn Nitrogen Use Efficiency	Stoller Chemical
1990	Dry Bean Research in Western Colorado	Colorado Dry Bean Advisory Board
1990	Conservation Tillage	Soil Conservation Service

1990	Growth Regulator in Corn	FMC Corporation
1990	Alfalfa Herbicide Study	American Cyanamid
1990	Evaluation of Corn Hybrids	Seed Corn Companies
1990-91	Soybean Research	Pacific Soybean and Grain
1990	Research Activities at the Fruita Research Center	Mesa County, Colorado
1990	Research in Western Colorado	Montrose County, Colorado
1989	Corn Nitrogen Use Efficiency	Stoller Chemical
1989	Crop Management in Corn	Industry (in-kind donations)
1989	Dry Bean Research	Colorado Dry Bean Advisory Board
1989	Conservation Tillage	Soil Conservation Service
1989	Evaluation of Corn Hybrids and Soybeans	Seed Corn Companies
1989	Corn Nitrogen Use Efficiency	Stoller Chemical/BioSoilTech
1989	Evaluation of Soybean Cultivars and Plant Populations of Soybeans	Montrose County, Colorado
1989	Research Activities	Industry (in-kind donations)
1988	Dry Bean Variety, N Fertility	Montrose County, Colorado
1988	Evaluation of Corn Hybrids	Corn Seed Companies
1988	Evaluation of Alfalfa Cultivars	Alfalfa Seed Companies
1988	Research Activities at the Fruita Research Center	Mesa County, Colorado
1987	Soil Amendment Evaluation in Dry Bean and Wheat	ACRES
1987	Nitrogen Fertilization in Corn	Industry (in-kind donations)
1987-89	Research Activities	Industry (in-kind donations)
1987-88	Evaluation of Maneb in Pinto Bean	Orius Associates
1987-88	Crop Management in Corn	Industry (in-kind donations)
1987	Soybean and Dry Bean Research	Montrose County, Colorado
1987	Research Activities at the Fruita Research Center	Industry (in-kind donations)
1987	Evaluation of Corn Hybrids	Seed Corn Companies
1986	Ethephon in Winter Barley	Union Carbide Ag Prod./ Inc.
1986	Research Activities at the Fruita Research Center	Mesa County, Colorado
1986	Evaluation of XE-770 Fungicide Residue in Winter Barley	Chevron Chemical Company
1986	Research Activities at the Fruita Research Center	Industry (in-kind donations)
1986-87	Research Activities	USDA-ARS
1986-87	Ethephon in Winter Barley	Union Carbide Ag Prod./ Inc.
1986-87	Research Activities at the Fruita Research Center	Mesa County, Colorado
1985	Evaluation of Corn Hybrids	Seed Corn Companies
1985	Evaluation of XE-770 Fungicide Residue in Winter Barley	Chevron Chemical Company
1985-86	Evaluation of Alfalfa Cultivars	Alfalfa Seed Companies
1985-86	Accumulation Activities at the Fruita Research Center	Faculty Research Grant
1985	Research Activities at the Fruita Research Center	Mesa County, Colorado
1985-86	Evaluation of Corn Hybrids	Seed Corn Companies
1984-86	Crop Management in Corn	Industry Support
		<b>TOTAL AMOUNT: \$4.4 million</b>

## **VOLUNTEERED PAPERS AT PROFESSIONAL MEETINGS**

Pearson, C.H. 2014. Canola Variety Performance Trials in the Grand Valley of Western Colorado. Poster presentation at the 2014 ASA-CSSA-SSSA Annual Meetings in Long Beach, California. November 4, 2014.

Calvin H. Pearson, Catherine Keske, Ron Follett, Ardell Halvorson, Steve Larson, and Andrew Brandess. 2012. Developing Low-Input, High-Biomass, Perennial Cropping Systems for Advanced Biofuels in the Intermountain West. October 3, 2012. 2012 National Conference: Science for Biomass Feedstock Production and Utilization, New Orleans, LA. Sponsored by Sun Grant.

Pearson, Calvin H. Developing Low- Input, High Biomass, Perennial Cropping Systems: sustainable biomass resources for western Colorado. Wednesday, April 18, 2012. International Biomass Conference, Denver, CO.

Pearson, C.H., D.J. Rath, and K. Cornish\*. 2008. Heating time and temperature of guayule tissue prior to extraction of resin and rubber. Association for the Advancement of Industrial Crops, College Station, TX. September 7-10, 2008. abst., p. 27. \*presenter.

Snow\*, A. A., P. M. Sweeney, C. H. Pearson, D. J. Rath, and M. Reagon. 2008. Volunteers vary: fecundity, seed shattering, and dormancy of volunteers from open- and hand-pollinated sunflowers (*Helianthus annuus*). Tenth International Symposium on the Biosafety of Genetically Modified Organisms, Wellington, New Zealand, November 17, 2008. \*presenter.

Pearson, C.H\*., K. Cornish, C.M. McMahan, N. Dong, D.J. Rath, S. Wong, and M Whalen. 2006. Transforming sunflower into a rubber-producing crop. Sixth National Symposium, "Creating Markets for Economic Development of New Crops and New Uses. Association for the Advancement of Industrial Crops, San Diego, California. October 14-18, 2006. abst., p. 49. \*presenter.

McMahan\*, C.M., K. Cornish, J.L. Brichta, C.H. Pearson, D.K. Shintani, Xie Wenshuang, and M. Whalen. 2006. Natural rubber from plants: Interspecific comparisons and metabolic engineering strategies. Paper presented at an international workshop entitled, "Biotechnology for the Production of Industrial Materials," September 14, 2006, Osaka University, Osaka, Japan. \*presenter.

Cornish, K\*., C. Pearson, D.J. Rath, N. Dong, C.M. McMahan, and M. Whalen. 2006. The Potential for Sunflower as a Rubber-Producing Crop for the United States. Invited presentation at The First Annual Symposium on Industrial Uses of Sunflower. Udine University, Udine Province Friuli Venezia Giulia Region, Italy. September 13, 2006. \*presenter.

Snow, A.A\*, and C.H. Pearson, 2005. How and why to confine novel transgenes in field-based research. Oral presentation made by Snow at the ASA-CSSA-SSSA Annual Meetings in Salt Lake City, Utah. Tuesday, 8 Nov. 2005. \*presenter.

Cornish, Katrina, Colleen M. McMahan, Calvin H. Pearson, Dennis T. Ray, David K. Shintani. Biotechnological Development of Domestic Rubber-Producing Crops. Presented at the spring 167th Technical Meeting of the Rubber Division of the American Chemical Society, San Antonio, TX, May 16-18, 2005.

Rath, D.J., C.H. Pearson, and K.F. Cornish. 2004. Extracting Rubber from Sunflower using the Dionex ASE 200. Paper no. 4543. Annual Meeting Abstracts. Poster presentation was made at the ASA-CSSA-SSSA Annual Meetings in Seattle, Washington. November 1, 2004.

Pearson, C.H., and D.R. Dawson. 2003. Branch Station Locations Across the United States. Agron. Abstracts. Poster presentation was made at the ASA-CSSA-SSSA Annual Meetings in Denver, Colorado. November 3, 2003 (contributed).

Pearson, C.H., and S.M. Max. 2001. Security and Protection of Agricultural Field Research. Agron. Abstracts Poster presentation was made at the ASA-CSSA-SSSA Annual Meetings in Charlotte, North Carolina, October 21, 2001.

Pearson, Calvin H. 2000. Agronomic performance of kenaf in western Colorado. Proceedings of the American Kenaf Society 3:137-141. Poster presentation was made at the Third Annual Conference of the American Kenaf Society in Corpus Christi, Texas, February 23-25, 2000.

Pearson, C. H., K.D. Sayre, and P.L. Chapman. 2000. Nitrogen management under no-tillage in a furrow-irrigated crop rotation of corn and wheat in western Colorado. Proceedings of the Great Plains Soil Fertility Conference 8:232-237. Poster presentation was made at the Great Plains Soil Fertility Conference in Denver, Colorado, March 7-8, 2000.

Pearson, C.H. 2000. Double-cropping winter barley with pinto bean in western Colorado. Agron. Abst. 92:76. Poster presentation was made at the American Society of Agronomy Annual Meeting in Minneapolis, Minnesota, November 5-9, 2000.

Pearson, C.H.\*, W.A. Fithian, and B.S. Curran. 1998. Blunt ear syndrome and applying anhydrous ammonia. Paper presented at the 90<sup>th</sup> Annual meeting of the American Society of Agronomy, October 21, 1998, Baltimore, Maryland.

Pearson, Calvin H. 1998. Farming in the western U.S. in the 21<sup>st</sup> century: challenges and opportunities. Paper presented at the 74<sup>th</sup> Annual Meeting of the Southwestern and Rocky Mountain Division of the American Association for the Advancement of Science with The Colorado-Wyoming Academy of Science and Mesa State College. May 17-21, 1998, Mesa State College, Grand Junction, Colorado.

Fithian, W.A.\*, C.H. Pearson, W.M. Brown, Jr., and R.L. Croissant. 1998. A morphological study of corn ear primordia to determine the timing of blunt ear syndrome symptom development. Paper presented at the 90<sup>th</sup> Annual meeting of the American Society of Agronomy, October 21, 1998, Baltimore, Maryland.

Pearson, C.H.\*, and F.P. Johnson. 1996. Regionalizing research centers in western Colorado: a scientist's perspective. Presented at the American Society of Agronomy annual meeting, November 4, 1996, Indianapolis, Indiana.

Johnson, F.P.\*, and C.H. Pearson. 1996. Restructuring research centers in Colorado - an administrator's perspective. Presented at the American Society of Agronomy annual meeting, November 4, 1996, Indianapolis, Indiana.

Pearson, C.H.\*, K. White, and A. Lance. 1995. Irrigating under simulated conditions with different residue quantity and furrow roughness. Presented at the American Society of Agronomy annual meeting, October 29, 1995, St. Louis, Missouri.

Pearson, C.H.\*, and L. Robinson. 1994. Automating a commercial swather for harvesting forage plots. Presented at the American Society of Agronomy annual meeting, November 13-18, 1994, Seattle, Washington.

Hammon, R.W., C.H. Pearson\*, J.P. Hain, and H.M. Golus. 1993. A conservation tillage planter for furrow-irrigated cropping systems. Presented at the American Society of Agronomy annual meetings, November 7-12, 1993, Cincinnati, Ohio.

Ashraf, M., and C.H. Pearson\*. 1993. Crop, irrigation, and soil responses to conservation tillage in a furrow-irrigated cropping system. Presented at the American Society of Agronomy annual meetings, November 7-12, 1993, Cincinnati, Ohio.

Pearson, C.H.\*, and W. Fithian. 1993. Blunt ear syndrome - a new disease phenomenon in corn. Presented at the American Society of Agronomy annual meetings, November 7-12, 1993, Cincinnati, Ohio.

Pearson, C.H.\*, H.M. Golus, R.W. Hammon, and L.E. Sommers. 1992. Modernizing the off-campus research Center. Presented at the American Society of Agronomy annual meeting, November 1-6, 1992. Minneapolis, Minnesota.



Olsen, S.R.\*, D.F. Champion, Calvin Pearson, and Harold Golus. 1991. Corn response to enhanced ammonium supply. p.54-69. In: Effects of enhanced ammonium diets on growth and yield of wheat and corn. Proc. SSSA, Denver, Colorado, 30 Oct. 1991. Presented at the American Society of Agronomy annual meeting, October 27-November 1, 1991, Denver, Colorado.

Mehraj, K.N.\*, M.A. Brick, C.H. Pearson, and J.B. Ogg. 1991. Response of dry bean cultivars with different growth habits to altered cultural practices. Presented at the American Society of Agronomy annual meeting, October 27-November 1, 1991, Denver, Colorado.

Hammon, R.W.\*, C.H. Pearson, and F.B. Peairs. 1991. Microclimate and Russian wheat aphid distribution in furrow-irrigated wheat and barley. Presented at the American Society of Agronomy annual meeting, October 27-November 1, 1991, Denver, Colorado.

Pearson, C.H.\*, and H.M. Golus. 1990. Row spacing, plant population, and inoculation of irrigated soybean in an arid environment of western USA. Poster presentation at the American Society of Agronomy annual meeting, October 21-26, 1990, San Antonio, Texas.

Pearson, C.H.\*, and H.M. Golus. 1989. Field performance of fall-planted durum wheat in a mild arid climate. Presented at the American Society of Agronomy annual meeting, October 15-20, 1989, Las Vegas, Nevada.

Tindall, T.A.\*, and C.H. Pearson. 1989. Ethephon's effect on irrigated spring barley under varying moisture and nitrogen levels. Presented at the American Society of Agronomy annual meeting, October 16-20, 1989, Las Vegas, Nevada.

Tindall, T.A.\*, and C.H. Pearson. 1988. Cerone response to irrigated barley in the Pacific Northwest. 39th annual meeting of the Far West Fertilization Association, Bozeman, Montana.

Pearson, C.H.\*, and P.N. Miklas. 1987. Effect of seed size and depth of planting on seedling emergence and yield of two pinto bean cultivars. Poster presentation at the biennial meeting of the Bean Improvement Cooperative, October 27-29, 1987, Denver, Colorado.

Pearson, C.H.\*, and H.M. Golus. 1987. Ethephon application and nitrogen fertilization in irrigated winter barley. Presented at the American Society of Agronomy annual meeting, Nov. 29-Dec. 4, 1987, Atlanta, Georgia.

Olsen, S.R.\*, D.F. Champion, Ron Yoder, H. Golus, Calvin Pearson, and Frank Schweissing. 1985. The role of ammonium nutrition in higher yields. Presented at the American Society of Agronomy annual meeting, December 1-6, 1985, Chicago, Illinois.

Pearson, C.H.\*, and G.D. Jolliff. 1983. American Society of Agronomy annual meeting, Washington, D.C. Oral presentation entitled, "Physiological and yield response of meadowfoam to crop water deficits." August 14-19, 1983.

Pearson, C.H.\*, and G.D. Jolliff. 1983. American Society of Agronomy annual meeting, Washington, D.C. Oral presentation entitled, "Meadowfoam seed yield and yield components in response to nitrogen fertilization." August 14-19, 1983.

Pearson, C.H.\*, and M.B. Kirkham. 1979. American Society of Agronomy annual meeting, Fort Collins, Colorado. Oral presentation entitled, "Water relations of wheat grown with fertilizer placed in strips or broadcast." August 5-10, 1979.

\* Presenting author.

## **WRITTEN REPORTS TO INDUSTRY**

Pearson, Calvin. 2014. Enhancing Sustainability of Alfalfa Production Using FoliarBlend at 16 oz/acre. Research funding report to Bio-Tec Solutions. Final report 2014. 5 pages.

Pearson, Calvin. 2014. Enhancing Sustainability of Alfalfa Production Using FoliarBlend at 32 oz/acre. Research funding report to Bio-Tec Solutions. Final report 2014. 6 pages.

Pearson, Calvin. 2014. Applying IgniteS<sup>2</sup>® as a Seed Treatment in Pinto Bean. Research funding report to Bio-Tec Solutions. Final report 2014. 3 pages.

Pearson, Calvin. 2013. Enhancing Sustainability of alfalfa production using biological products. Research funding report to Bio-Tec Solutions. January 27, 2014. 10 pages.

Pearson, Calvin. 2013. A Western Colorado Alfalfa Variety Performance Test at Fruita, 2013 results. Submitted electronically via a large list serve of alfalfa seed companies, reps, growers, etc. around the country.

Pearson, Calvin. National winter canola variety trial. Fruita, CO. M. Stamm (senior author). Each year results were published in Report of Progress. Kansas State Univ., Agricultural Experiment Station and Cooperative Extension Service. Manhattan, KS. (I conducted a variety trial at Fruita and the data were published in this report along with numerous other locations around the country.) Variety Performance Trials conducted each year in 2014, 2013, 2010, 2009, 2008, 2007, 2006, and 2005.

Pearson, C.H. 2009. Western Colorado alfalfa variety performance test at Fruita 2009. [Online] Available at <http://www.csucrops.com/alfalfa.html>. (verified 24 Dec. 2009).

Pearson, C.H. 2009. Winter wheat variety performance test at Hayden, Colorado 2009. [Online] Available at <http://www.csucrops.com/wheat.html>. (verified 24 Dec. 2009).

Pearson, Calvin H. 1999. Evaluation of PAM in western Colorado. Report to Stockhausen and the Bureau of Reclamation. March 31, 1999.

Pearson, C.H. 1998 and 1997. Results of pasture grass species evaluation at Fruita, and single and mixed species of pasture grass and forage legume species at Meeker and Hotchkiss, Colorado. Prepared for private industry, growers, university personnel, cooperative extension agents, and others. Agric. Exp. Stn. Fruita Research Center, Fruita, Colorado.

Pearson, C.H. Variety performance tests of malting barley in western Colorado, 1993, 1994, 1995, 1996, 1997, and 1998. Reports to the Coors Brewing Company. December 15, 1993, December 23, 1994, December 22, 1995, September 26, 1996, December 2, 1997, December 8, 1998.

Pearson, Calvin H. 1996 Final report to Pioneer Hi-Bred Int'l, Inc. on the control of blunt ear syndrome of corn in western Colorado. October 2, 1996.

Pearson, C.H., H.M. Golus, and R.W. Hammon. 1995 and 1996. Results of pasture grass species evaluation at Fruita, Colorado. Prepared for private industry, growers, university personnel, cooperative extension agents, and others. Fruita Research Center, Fruita, Colorado.

Pearson, Calvin H. 1993, 1994 Progress reports to Pioneer Hi-Bred Int'l, Inc. on the control of blunt ear syndrome of corn in western Colorado. February 7, 1994, February 1, 1995.

Pearson, Calvin H. 1993. Alfalfa herbicide evaluation. Report of research to American Cyanamid Company. October 21, 1993.

Pearson, C.H. 1993. Nitrogen fertility of sweet corn in western Colorado. Report of research to the Colorado West Sweet Corn Administrative Committee. December 7, 1993.

Golus, H.M., and C.H. Pearson. 1992. 1992 Colorado Agricultural Experiment Station Annual Report. Brief summary of research at the Fruita Research Center for 1992.

Pearson, Calvin H. Alfalfa herbicide evaluations. Grant reports to American Cyanamid Company. March 3 and December 8, 1992.

Pearson, Calvin H. 1992. Dry Bean Production in the Department of Santa Cruz, Bolivia. Final Report. Presented to PROMASOR and Volunteers in Overseas Cooperative Assistance (VOCA).

Golus, H.M., and Pearson, C.H. 1991. 1991 Colorado Agricultural Experiment Station Annual Report. Brief summary of research at the Fruita Research Center for 1991.

Golus, H.M., and C.H. Pearson. Grant reports and funding requests to Mesa County, Colorado for support of research at the Fruita Research Center. August 1988, August 1989, August 1990, and July 1991.

Pearson, C.H. 1990. Report of soybean and dry bean herbicide performance tests at the Fruita Research Center during 1990. American Cyanamid Company. December 20, 1990.

Research reports and funding requests to the Montrose County Commissioners, January 25, 1988 and January 10, 1989.

Pearson, C.H. 1988. Fluid and dry nitrogen fertilizer effects on corn yield and nutrient accumulation in irrigated corn. Grant report to Stoller Chemical Co., Inc., and Biosoiltec Management, Inc. December 1988.

Pearson, C.H., and H.M. Golus. 1988. Field performance of fall-planted durum wheat in a mild arid climate. Report written at the request of local growers and agribusiness persons. Report of 1988 durum wheat research results.

Pearson, C.H. 1987. Effect of Grozyme on the yield of pinto bean. Final report to ACRES, Cedar Falls, IA. October 1987.

Pearson, C.H. 1987. Maneb residue study in pinto bean. Final report to Orius Associates, Inc. Ijamsville, MD. September 1987.

Pearson, Calvin H. Cerone application in winter barley in the Grand Valley. Mile High Aviation Newsletter. February 20, 1987.

Pearson, C.H. 1986. Ethephon plant growth regulator application rate, timing, and nitrogen fertilization of irrigated winter barley in western Colorado. Progress report to Union Carbide. October 1986.

Golus, H.M. and C.H. Pearson. 1986. Research at the Fruita Research Center. Grant report and funding request to Mesa County, Colorado. August 6, 1986.

Pearson, C.H. Annual reports for 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, and 1998. Summarizing dry bean research conducted at the Fruita Research Center. Reports submitted to the Colorado Dry Bean Administrative Committee.

Pearson, C.H. Annual reports for 1997 and 1998 of alfalfa variety performance tests conducted at the Fruita Research Center. Prepared for private industry, growers, university personnel, cooperative extension agents, and others. Fruita Research Center, Fruita, Colorado.

Pearson, C.H., and H.M. Golus. Annual reports for 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, and 1996 of alfalfa variety performance tests conducted at the Fruita Research Center. Prepared for private industry, growers, university personnel, cooperative extension agents, and others. Fruita Research Center, Fruita, Colorado.

Alfalfa Variety Trial Results. Annual reports of the Western Alfalfa Improvement Conference (WAIC, #14). These reports are published each year in the spring and distributed to numerous public and private organizations and companies. They are compiled through the cooperative efforts of state and federal personnel at various agricultural experiment stations in the western United States. Calvin H. Pearson, cooperator for the site at Fruita, Colorado

1991, 1992, 1993, 1994, 1995, 1996, and 1997. Alfalfa Variety Trial Results. Annual reports of the Western Alfalfa Improvement Conference (WAIC, #5-13). These reports are published each year in the spring and distributed to numerous public and private organizations and companies. They are compiled through the cooperative efforts of state and federal personnel at various agricultural experiment stations in the western United States. Harold M. Golus and Calvin H. Pearson, cooperators for the site at Fruita, Colorado.

Annual Reports of the National Cooperative Dry Bean Nurseries. Cooperative investigation among state experiment stations, USDA-ARS, and Canadian Agricultural Research Centers as a part of the W-150 project. Compiled by Kathryn Stewart-Williams and James R. Myers, University of Idaho. Calvin H. Pearson, cooperators for the site at Fruita, Colorado. We, at the Fruita Research Center, have conducted dry bean cultivar performance tests annually for the past 15 years that have been included in this annual report. Results of each year's results are published and distributed to numerous cooperators in North America and in other countries.

## **INVENTIONS**

During 2011-12, I designed and fabricated a weighing hopper that fits on the back of a tractor. The weighing hopper is used for weighing corn silage plots. It works very well. During 2012 I added a hopper extension to increase the holding capacity of the hopper. Details have been published in *Agronomy Journal*.

In 2007, I redesigned and fabricated a new electronic, automated forage harvesting system on our swather. This new design delivers the cut forage out the back of the swather. The details of the research equipment have been published in *Agronomy Journal*. In 2013, I added a discharge gate to the weighing bin that included an electromechanical actuator and a camera/TV for monitoring the discharge gate and conveyor at the back of the swather.

During 1993 we designed and fabricated an electronic, automated forage harvester using a commercial swather. This machine harvests forage plots extremely fast and produces data with good reliability. The harvester has allowed us to expand our forage research over the past four years. This invention was a joint effort between Lot Robinson, research associate at the Fruita Research Center, and myself. Details have been published in *Agronomy Journal*.

During 1992, under my leadership, we designed and fabricated a conservation tillage grain drill. This drill was designed by the staff at the Fruita Research Center and was built on campus by Jim Hain, technician in the Department of Soil and Crop Sciences. It was necessary to build this piece of equipment because a grain drill was not commercially available that was suitable for conservation tillage in furrow-irrigated cropping systems. Details have been published in *Agronomy Journal*.

## **OTHER**

During winter 2012 I painted the John Deere 2280 swather that is used for my automated forage harvesting system. I used volunteers to assist with sanding the swather during fall and then during the Christmas holidays I painted the swather. While the swather is quite old, the new paint greatly improved the appearance.

During 2011-2013 I renovated, painted, and updated a 1973 Gleaner K plot combine that was donated to CSU by industry. I did a huge amount of work in repairing improving. The Experiment Station provided funding to upgrade the automated weighing system on the combine. I installed and calibrated the new weighing system. This plot combine is a great improvement over our post WWII Gleaner plot combine. We used to require several people to harvest corn grain plots and now I can harvest corn grain plots myself and do it in the comfort of an air conditioned/heated cab.

## **WORKSHOPS AND TALKS**

Pearson, Calvin H. 2015. Winter wheat variety trial 2014 test results presentation at the wheat grower meetings, sponsored by the Colorado Wheat Administrative Committee. Powerpoint presentation, January 5, 2015. Hayden, Colorado.

Calvin H. Pearson. 2014. Winter wheat variety trial test results presentation at the wheat grower meetings sponsored by the Colorado Wheat Administrative Committee. Powerpoint presentation, January 6, 2014. Hayden, Colorado.

Pearson, Calvin H. 2013. Colorado Agricultural Experiment Station Update. Powerpoint presentation at the 2013 Ag Production Workshop, March 5, 2013. Bill Heddles Recreation Center, Delta, Colorado. Sponsored by Colorado State University, Tri-River Extension.

Calvin H. Pearson. 2013. Winter wheat variety trial test results presentation at the wheat grower meetings sponsored by the Colorado Wheat Administrative Committee. Powerpoint presentation, January 7, 2013. Hayden, Colorado.

Pearson, Calvin H. 2013. Research Center Administrators Society Winter Meeting. Powerpoint presentation on "How the Western Colorado Research Station Functions." February 4, 2013. Orlando, Florida. Attending were 44 people representing 18 states.

Pearson, Calvin H. 2012. Advantages and Disadvantages of Living Mulches in Cropping Systems. Powerpoint presentation at the Western Slope Soil Health Conference. February 8, 2012, Montrose, Colorado.

Calvin H. Pearson. 2011. Powerpoint presentation on "Winter wheat results and soil sampling and cropping systems for Northwest Colorado." January 9, 2012. Hayden, Colorado.

Pearson, Calvin H. 2011. Bringing Biofuels to Western Colorado. Powerpoint presentation at the 2011 Ag Production Workshop, March 8, 2011. Bill Heddles Recreation Center, Delta, Colorado. Sponsored by Colorado State University, Tri-River Extension.

Pearson, Calvin. 2012. Producing biofuel locally in western Colorado. Oral presentation at the 2012 Ag Production Workshop. Tuesday, March 6, 2012. Grand Junction, CO.

Pearson, Calvin. Agronomic Research at the Western Colorado Research Center at Fruita. Presented at the Irrigation Workshop in Kabul, Afghanistan. July 2012.

Pearson, Calvin. Best Management Practices. Presented at the Irrigation Workshop in Kabul, Afghanistan. July 2012.

Pearson, Calvin. Irrigation and irrigation water measurement at the Western Colorado Research Center at Fruita. Presented at the Irrigation Workshop in Kabul, Afghanistan. July 2012.

Pearson, Calvin. Outreach Activities for the Agriculturist. Presented at the Irrigation Workshop in Kabul, Afghanistan. July 2012.

Workshop on “Soybean Production in Western Colorado” A Grower Workshop.” March 29, 2011. Western Colorado Research Center at Fruita. 7 attendees.

Pearson, Calvin. 2011. Powerpoint presentation on “Biofuels for Western Colorado.” Presented to members of the Grand Junction Chamber of Commerce. March 23, 2011. Grand Junction, Colorado.

Pearson, Calvin. 2011. Powerpoint presentation on “Developing Sustainable Biomass Resources in Western Colorado.” Presented at the symposium on “Biomass to Biofuels in Western Colorado: Economic and Rural Development.” Sponsored by The Western Colorado Carbon Neutral Bioenergy Consortium. March 24, 2011. Colorado Mountain College. Rifle, Colorado.

Calvin H. Pearson. 2010. Powerpoint presentation on “Winter wheat variety trials at Hayden, Colorado.” January 18, 2010. Hayden, Colorado.

Pearson, Calvin. 2010. What’s new in ag research for western Colorado. Oral presentation at the 2010 Ag Production Workshop. March 4, 2010. Grand Junction, CO.

I gave two different Powerpoint presentations at the Southern Rocky Mountain Agricultural Conference and Trade Fair. February 10, 2009. Monte Vista, Colorado. The title of my talks were: Alfalfa Production Management and New Alternative Sustainable Crops for the San Luis Valley. ~150 people in attendance.

I participated as a presenter at the Educator Reception at Barnes and Noble on April 18, 2009 from 9: 00 am to 4:00 pm. (~150 people attended).



Oral Powerpoint presentation entitled, "Regulatory Compliance, Latex Extraction, and Tissue Culture Protocol in Sunflower. February 13, 2004. Maricopa, Arizona. Presented as part of joint IFAFS grants entitled "Development of Lesquerella as an Industrial Oilseed Crop for the US" and "Commercial and Strategic Rubber from Crop Plants and Bioreactors."

Spoke at Small Acreage Workshop about crop management and cropping options for western Colorado. March 26, 2003. UTEC, Grand Junction, Colorado. 12 people in attendance.

Spoke at Small Acreage Workshop about cropping systems and cropping options for the Grand Junction area. March 25, 2003. Grand Junction, Colorado 10 people in attendance.

Ornamental Container-Grown Research Planning meeting. Held on March 5, 2003 at the Orchard Mesa Research Center Conference room. Met with WCRC staff.

Visit by Dr. Katrina Cornish, USDA-ARS, rubber biochemist and plant physiologist, on February 11-12, 2003 to visit my lab and collaborate on sunflower rubber project.

Oral presentation, "Category 111 - Research and Demonstration," at the Commercial Pesticide Applicator Training. February 5, 2003. Grand Junction, Colorado. Approximately 100 people in attendance.

Oral Powerpoint presentation entitled, "Biomass Potential of Field-Grown Sunflower for Rubber Production and the Potential for using CMS Sunflower Inbreds for Rubber Production. January 31, 2003. Albany, California.

Organized, chaired, and attended research grant meeting of collaborators and other invited attendees for Commercial and Strategic Rubber from Plants and Bioreactors at the USDA-ARS, Western Regional Research Center, Albany, CA. January 21, 2003.

Upon request, I provided a letter of support for a research proposal on hybrid poplar by New Mexico State University researchers November 1, 2002.

Oral/Powerpoint Presentation entitled, "Performance of Hybrid Poplar in Western Colorado, 2000-2001," at the Plains & Prairie Forestry Association Annual Conference. July 30-31, 2002. Adams Mark, Grand Junction, Colorado. By request from the organizing committee, a written technical paper was prepared for distribution at the meeting.

Oral/Powerpoint Presentation entitled, "Forage Research Update," Tuesday, February 26, 2002 to Cooperative Extension agents at 2002 February In-Service, Fort Collins, Colorado. Approximately 25 people in attendance.

Oral Presentation entitled, "Using AgroPAM in Field-Grown Corn to Conserve Irrigation Water," to the Gunnison Basin Selenium Task Force, Technical Subcommittee. Thursday, February 15, 2002. Delta Vo-Tech, Delta, Colorado.

Oral/Powerpoint Presentation entitled, "Managing Alfalfa for Profit," at the Animal Health and Forage Production: A Practical Application Course. Sponsored by Bookcliff, Mount Sopris, and South Side Conservation Districts and Natural Resources Conservation Service, Wednesday, February 6, 2002. Newcastle, Colorado. Approximately 60 people in attendance.

Oral/Powerpoint Presentation entitled, "Harvesting Alfalfa - Hay Conditioners, Preservatives and Handling," Thursday, January 31, 2002. Lamar, Colorado. Approximately 50 people in attendance.

Planning meeting for publishing guidebook entitled, "Guidelines for Using Conservation Tillage Under Furrow Irrigation." Montrose, Colorado. December 13, 2001. Meeting was with Charles A. Holcolm, A. Wayne Cooley, John Murray, and myself.

Met with Dr. Ken Barbarick to transfer responsibilities and train me as the new Editor of *Agronomy Journal*. December 7, 2001. Fort Collins, Colorado.

Oral Presentation entitled, "Alternative Crops, What Will Grow in Northwestern Colorado and Is It Profitable?" at the Exploring Opportunities in Agricultural Conference Talk. Tuesday, November 6, 2001, Holiday Inn. Craig, Colorado. Approximately 50 people in attendance.

Tour of Fruita Refinery to assess the potential for developing a phytoremediation research project. In attendance, Bennett Boeschstein, Community Development Director, City of Fruita; Steve Shrock, Manager, City of Fruita; Nathan Moreng, CSU Cooperative Extension; Karla Brown, CSU Cooperative Extension; Wayne Cooley, CSU Cooperative Extension; Elizabeth Rowan, Assistant County Administrator, Mesa County, and myself. August 21, 2001.

Ornamental Research Project Planning meetings- August 1, 2001 and September 14, 2001. Orchard Mesa Research Center.

Ag in the Classroom slide presentation entitled, "The Future of Agriculture." Monday, June 12, 2001. San Juan Basin Vo-Tech Center. Cortez, Colorado. 50-60 people in attendance.

Slide presentation entitled, "Managing Alfalfa for Quality," at the Alfalfa Management Workshop, Thursday, May 17, 2001. Canon City, Colorado. Sponsored by Colorado State University Cooperative Extension and Natural Resources Conservation Service.

Presentation/demonstration on "Determining Hay Quality" at the Western Small Acreage Expo. Saturday, April 28, 2001. Mesa County Fairgrounds. Grand Junction, Colorado.

Speaker at seminar sponsored by the Colorado Hay and Forage Association. Computer projector presentation entitled, "Production of grass and alfalfa mixed hay," March 27, 2001. Holiday Inn, Grand Junction, Colorado. approximately 40 people in attendance.

Presentation on agronomic research in western Colorado to Fruita Monument High School Ag Class, February 12, 2001. Western Colorado Research Center. 10 people in attendance.

Presentation to growers and industry representatives of the Colorado Wheat Growers Association and Colorado Wheat Administrative Committee District 9 on results of the 2000 small grain test plots at Hayden. January 22, 2001. Town Hall, Hayden, Colorado. 15 people in attendance.

Research update at the Agricultural Experiment Station Research Center Conference, January 10, 2001. Fort Collins, Colorado. Computer projection presentation. 30 people in attendance.

WCC-091 meeting, "Improving Stress Resistance in Forages in the Western U.S.," January 3, 2001. Salt Lake City, Utah.

Southern Colorado Forage/Livestock Conference and Agricultural Exhibition. December 7, 2000. Computer visual presentation entitled, "Alfalfa Management for Profit," Monte Vista, Colorado. Approximately 100 people in attendance.

Talk on new/alternative crops and poplar tree production. Sponsored by American Farmland Trust. Crawford, Colorado. July 28, 2000. 25 people in attendance.

Conducted a tour of the Fruita Research Center for representatives (Shane Henry, Pete Jacobson) of Senator Wayne Allard's office, Friday, June 23, 2000.

Participated in the Western Small Acreage Expo, April 29, 2000. Mesa County Fairgrounds, Grand Junction, Colorado. Presentation on seeds for all occasions.

Slide presentation to Ignacio Young Farmers on the production of alfalfa hay. April 4, 2000. Ignacio, Colorado. Approximately 20 people in attendance.

Hybrid Poplar Information meeting. Delta County Courthouse, Delta, Colorado. Made oral presentation about producing hybrid poplar in western Colorado. February 29, 2000. Organized in cooperation with Karla Brown, Tri-River Area Cooperative Extension. Approximately 60 people in attendance.

Slide presentation to the Fruita Rotary Club about current agronomic research that I am conducting in western Colorado. February 1, 2000. Fruita, Colorado. 16 people in attendance.

Oral presentation to District 9 CWAC/CAWG annual meeting about small grains results for northwest Colorado in 1999. January 25, 2000. Hayden, Colorado.

Oral presentation on “Selecting Alfalfa Varieties for the Western Slope,” January 20, 2000. Mesa County Fairgrounds, Grand Junction, Colorado. 19 people in attendance.

Oral presentation on “Selecting Alfalfa Varieties for the Western Slope,” January 19, 2000. Friendship Hall, Montrose, Colorado. 43 people in attendance.

Slide presentation and talk at the Colorado Hay and Forage Association Annual Convention “Fine-Tuning Alfalfa Hay-Making. January 14, 2000. Denver Athletic Club. Denver, Colorado.

Hybrid Poplar Meeting with Louisiana-Pacific personnel, December 14, 1999, 117 North Meeker Street, Delta, Colorado.

International visitor, Mr. Subhash Tripathi from India, came to the United States via CIMMYT, Mexico to tour my research, particularly as related to conservation tillage under furrow irrigation. August 8 -10, 1999.

Provided training and information for Colorado Foundation for Agriculture, Ag in the Classroom Summer Institute. Oral presentation on the Future of Agriculture, June 14, 1999, Mesa State College. Tour of Research Center and activity on cd-rom products related to agriculture appropriate for elementary school-age students, June 15, 1999. Fruita Research Center. Instruction for approximately 50 people.

Invited speaker. Slide presentation to the Mesa County Agricultural Coordinating Committee on “New Developments in Agronomic Crops for Western Colorado,” April 13, 1999, Golden Corral, Grand Junction, Colorado. Approximately 15 people in attendance.

Talk given to three groups of approximately 30 youth each at the State of Colorado Youth Detention facility on what is a research agronomist and what a research agronomist does. March 25, 1999, Grand Junction, Colorado.

Invited speaker. Slide presentation on “Alfalfa Production in Western Colorado,” at the Western Colorado Forage Management Seminar sponsored by Tri-River Cooperative Extension, March 11, 1999.

Provided in-service training for NRCS staff in western Colorado, March 9, 1999. Included four slide presentations: “Alfalfa Seed Production,” “Conservation tillage for furrow-irrigated cropping systems,” “Roundup Ready Corn Tests and Results,” and “Blunt ear Syndrome.” Approximately 20 people in attendance.

Commercial Pesticide Applicators Training, February 17, 1999. Holiday Inn, Grand Junction, Colorado. Slide presentation on “Research & Development.” Approximately 80 people in attendance.

Dry Bean Management Clinic. January 5-7, 1999. Slide presentation entitled, “Crusting and Compaction,” CSU campus, Fort Collins, Colorado. Approximately 120 people in attendance.

Slide presentation on “Harvest Process Overview” at the Dry Bean Management Clinic, January 6, 1999, Fort Collins, Colorado. Sponsored by Colorado State University Cooperative Extension.

Slide presentation on “Forage research in western Colorado and various aspects of haymaking.” Presented at the Colorado Hay and Forage Association Annual Meeting, January 16, 1998, Denver, Colorado.

Slide presentation on “Conservation tillage under furrow-irrigated conditions in western Colorado” at the Corn Management Clinic, January 6, 1998, Fort Collins, Colorado. Sponsored by Colorado State University Cooperative Extension.

Slide presentation on “Research at the Fruita Research Center” at the Northwest Regional Meeting, Colorado State University Cooperative Extension, May 7, 1997, Ramada Inn, Grand Junction, Colorado.

City of Fruita and Concerned Citizens Resource Association, March 10, 1997. Slide presentation topic, “Agriculture, land use, and increasing population in western Colorado”. Short talk at the W-D Seed Growers, Inc. Grower Meeting, March 12, 1997 at the West Gate Inn, Fruita, Colorado. Estimated attendance was 40 people.

Delta Rotary Club. Slide presentation topic, “American Dream Threatens Agricultural Production.” February 19, 1997, Delta, Colorado.

Mesa County Agricultural Coordinating Committee. Slide presentation entitled, “Current research and happenings at the Fruita Research Center.” January 14, 1997, Grand Junction, Colorado.

Slide presentation at the Off-Campus Research Center Conference on an overview of agronomic research in western Colorado sponsored by the Agricultural Experiment Station, January 12-13, 1997, University Park Holiday Inn, Fort Collins, Colorado.

Colorado Hay and Forage Association Annual Meeting, January 10, 1997, Denver, Colorado. I was asked to address the audience about current forage research being conducted in western Colorado.

Mesa County Agricultural Coordinating Committee. Slide presentation entitled, "Future farming in the 21<sup>st</sup> century." March 8, 1995, Grand Junction, Colorado

Slide presentation on "Minimum Tillage and Surge Irrigation Trials at the Fruita Research Station." Tri-River Area Ag Expo. February 2, 1995, Friendship Hall, Montrose, Colorado. Sponsored by Tri-River Area Cooperative Extension.

Speaker for the Alfalfa and Perennial Forages Management Clinic, January 3-5, 1996 on the topic of stand establishment. Colorado State University, Fort Collins, Colorado.

Slide presentation and conservation tillage demonstration at Bookcliff Middle School for 75 eighth graders, October 4, 1995, Grand Junction, Colorado.

Oral presentation on basics of forage production at the 4th Annual Colorado River Basin Hay and Pasture Day. July 15, 1995, Fruita, Colorado. Sponsored by Colorado State University Cooperative Extension.

Oral presentation on pasture/hay production, quality factors, rotation, re-seeding, seed mixes, and harvesting and storage. CSU Cooperative Extension Small Acreage Workshop, March 1, 1995. Grand Junction, Colorado.

Slide presentation at the Fruita Consumers Co-op Annual Growers Meeting on "Future Farming in the 21st Century" February 21, 1995, Holiday Inn, Grand Junction, Colorado.

Slide presentation on "From Seed to Bale: basics of forage production," Hay Production Seminar. Alamosa, Colorado on December 15, 1994. Sponsored by San Luis Valley Area Cooperative Extension and the San Luis Valley Water Quality Demonstration Project.

Slide presentation on "Research and Demonstration: Pesticide Research and Demonstration Plot Technique." Alamosa, Colorado on December 14-15, 1994. Sponsored by San Luis Valley Area Cooperative Extension and the San Luis Valley Water Quality Demonstration Project.

Slide presentation on the results of sweet corn nitrogen fertilization test in 1994. Annual meeting of the Colorado West Sweet Corn Administrative Committee. December 6, 1994, Olathe, Colorado.

Presentation entitled "Future Harvests: Farming in the 21st Century" and a demonstration on conservation tillage in furrow-irrigated conditions to K-12 science teachers. October 21, 1994, in Montrose, Colorado and December 1, 1994 in Alamosa, Colorado. These presentations were part of the Science Clusters Program that is administered by Dean Brown, Professor in the School of Occupational and Educational Studies.

Lecture on the basics of crop production with emphasis on forages for CSU Cooperative Extension Small Acreage Workshop. October 11, 1994. 6:30-9:00 p.m.

Oral presentation on basics of forage production in western Colorado at the 3rd Annual Colorado River Basin Hay and Pasture Day. June 4, 1994, Paonia, Colorado. Sponsored by Colorado State University Cooperative Extension.

Slide presentation on results of malt barley variety trials conducted in western Colorado. Malting barley irrigation and fertilization workshop. March 3, 1994, Delta, Colorado. Sponsored by Cooperative Extension.

Tri-River Area Cooperative Extension Agricultural Clinic, Weed Management Day Program, February 17, 1994, Montrose, Colorado. Lunch Speaker - slide presentation on "21st Century Farming: Changes and Challenges."

Slide presentation on alfalfa production in western Colorado at the 2nd Annual Colorado River Basin Hay and Pasture Day. July 10, 1993, Ridgway, Colorado. Sponsored by Colorado State University Cooperative Extension.

Tri-River Area Cooperative Extension Agricultural Clinic, Field Crop Day Program, February 3, 1993, Montrose, Colorado. Two slide presentations on, "Critical issues in alfalfa, barley, bean, and corn production in western Colorado" and "Conservation tillage in a furrow-irrigated cropping system."

Slide presentation to the Western Colorado Botanical Society about the Fruita Research Center and our plans for the plant materials park. November 16, 1992, Grand Junction, Colorado.

Oral presentations (diseases, fertility, crop production practices) on alfalfa production at the Colorado River Basin Hay and Pasture Day. June 27, 1992, Fruita Research Center, Fruita, Colorado.

Presentation to Nisley Elementary school 4th graders on the alfalfa stem nematode. May 14, 1992. Grand Junction, Colorado.

Fruita Consumers Co-op Fertilizer/Chemical Annual Growers Meeting. February 25, 1992, Holiday Inn, Grand Junction, Colorado. Slide presentation was made on corn blunt ear syndrome.

Tri-River Area Cooperative Extension Agricultural Clinic, Field Crop Day Program, January 30, 1992, Montrose, Colorado. Presentation topics, "Alfalfa stem nematode in western Colorado -can we live with it?" and "Conservation tillage for furrow-irrigated farms - fact or fable?" I prepared the talks with script and slides and Bob Hammon presented the information. I was in Bolivia at the time.

Slide presentation entitled "Alfalfa stem nematode in western Colorado," November 12, 1991, seminar sponsored by the Colorado Hay and Forage Association, Grand Junction, Colorado.

Presentation entitled "Germinating seeds for classroom use and pesticides in our environment" to elementary and middle school science teachers. March 21, 1991. Vail, Colorado. This was a part of the Science Clusters Programs that is administered by Dean Brown, Professor in the School of Occupational and Educational Studies.

Tri-River Area Cooperative Extension Agricultural Clinic, Field Crop Day Program, January 31, 1991, Montrose, Colorado. Slide presentation topics, "Impact of the alfalfa stem nematode in western Colorado" and "Conservation tillage in furrow-irrigated cropping systems." I prepared the two talks and because I was ill on the day of presentation Bob Hammon presented the information.

Slide presentation entitled "Alternative Crops" January 15, 1991, "New Trends in Agronomy," Research Conference, Department of Agronomy, Colorado State University, Fort Collins, Colorado.

Slide presentation entitled "Row crop research in western Colorado" January 8, 1991. Sponsored by the Division of Plant Industry, annual workshop, Colorado Department of Agriculture Ramada Inn, Grand Junction, Colorado.

Formal presentation entitled "Weed control" at the Fruita Consumers Co-op Annual Meeting, March 9, 1990. Holiday Inn, Grand Junction, Colorado.

Participated in and presented a summary of 1989 soybean research at a soybean meeting, February 19, 1990, Fruita, Colorado. Sponsored by the Fruita Consumers Co-op.

Oral presentation entitled "Agronomic research in western Colorado" to elementary and middle school science teachers. February 16, 1990. Montrose, Colorado. This was a part of the Science Clusters Programs that is administered by Dean Brown.

Participated in and presented information on durum wheat production at a durum wheat meeting, February 15, 1990, Fruita, Colorado. Sponsored by the Fruita Consumers Co-op.

Tri-River Area Cooperative Extension Agricultural Clinic, Field Crop Day Program, February 1, 1990, Montrose, Colorado. Presentation topic, "Comparing dry vs. fluid fertilizer in corn."

Meeting hosted by the Colorado Dry Bean Advisory Board, May 3, 1989, Delta, Colorado. A slide presentation was made on dry bean research in western Colorado.



Specialty Crops Workshop. March 9, 1989, Greeley, Colorado. Slide presentation entitled "Alternative dry beans." Sponsored by Weld County Cooperative Extension.

Tri-River Area Cooperative Extension Crop Clinic, Field Crops Day Program, February 7, 1989, Montrose, Colorado. Presentation topic, "Durum wheat and soybean production in western Colorado - an update."

Soybean production meeting, January 17, 1989 to discuss 1988 research results, soybean marketing, and production contracts with farmers, Fruita, Colorado.

Invited speaker for durum wheat grower meeting sponsored by the Fruita Consumers Co-op, September 19, 1988 in Grand Junction, Colorado. Presentation entitled, "Durum Wheat Production in Western Colorado."

Science Festival Presenter. Nisley Elementary School Science Festival, Oral presentation about crop production, chemical safety, seed growth, and Russian wheat aphid. April 27, 1988, Nisley Elementary School, Grand Junction, Colorado.

Tri-River Area Cooperative Extension Field Crops Program. Slide Presentation topic, "Soybean and dry bean test results in the Tri-River area, 1988." February 11, 1988, Montrose, Colorado.

Invited speaker for durum wheat grower meeting sponsored by the Fruita Consumers Cooperative, November 24, 1987, Grand Junction, Colorado. Presentation entitled, "Durum Wheat Production in Western Colorado."

American Soybean Association Local Grower Meeting, September 1, 1987, Grand Junction, Colorado. Slide presentation topic, "Intensive soybean management in western Colorado." Tri-River Area Cooperative Extension Crops Clinic, Field Crop Day Program, February 12, 1987. Slide presentation topic, "Cerone study in small grain, soybean variety performance test, and new pinto bean varieties for 1987."

Department of Agronomy Annual Research Conference. Slide presentation topic entitled, "Ethephon application and nitrogen fertilization in winter barley and soybean production in western Colorado." January 20-21, 1987, Fort Collins, Colorado.

Department of Agronomy Annual Research Conference. Slide presentation topic, "Crops research in the Grand Valley." January 14-15, 1986, Fort Collins, Colorado.

Guest lecture - Fundamentals of plant biology and plant breeding. September 18, 1985. Presented to 150 students at the Fruita Middle School. Fruita, Colorado

Tri-River Area Cooperative Extension, Seed Production School Program, February 14, 1985, Delta, Colorado. Presentation Topic, "Dry Bean Variety Performance Tests in Western Colorado and Foundation Dry Bean Seed for 1985."

## **ORGANIZED FIELD DAYS AND TOURS**

Hay, Corn, & Cattle. Tour of current research at the Western Colorado Research Center at Fruita for local VIPs. August 27, 2014. Fruita, Colorado. 50 people attended. We had several stops around the Grand Valley with one stop being at the Research Center where I gave an oral presentation which included information about the subsurface drip irrigation system.

Tour of current alfalfa research at the Western Colorado Research Center at Fruita for alfalfa seed industry representatives from around Colorado. July 31, 2014. Fruita, Colorado. 5 people attended. We had an extensive tour at the Research Center on alfalfa which included detailed information about the SDI system.

Salinity Forum Tour. Approximately 90 people came to the research center at Fruita to see first-hand the subsurface drip irrigation system being used to produce alfalfa. Wednesday, May 15, 2013. I gave an oral presentation on this and other topics.

Colorado Western Slope Water Efficient Field Tour. Seven ag officials from Pakistan toured the research center and I gave presentations on subsurface drip and other projects. Monday, August 12, 2013.

Tour and discussion of current research at the Western Colorado Research Center at Fruita for the Western Colorado region extension agents. September 18, 2013. Fruita, Colorado. 20 people attended. We had several stops around the research center and I gave several oral presentations.

Two tours of WCRC-Fruita for 25 middle school students from the Denver area. October 9, 2012, one at 9 am and another one at 3 pm.

Two tours of WCRC-Fruita for 25 middle school students from the Denver area. October 16, 2012. One at 9 am and another tour at 3 pm.

Western Slope: Pakistan/USAID Efficient Irrigation Study Tour. Stop at WCRC-Fruita for lecture and tour on how the station is researching new crops and agronomic techniques for local producers. Monday, June 25, 2012.

Field tour for students from the University of Wyoming. Appox. 20 students and advisors. Tour of research at WCRC-Fruita. May 8, 2011.

Field tour regarding Automatic Gate Valve Actuator for Furrow Irrigation at the Western Colorado Research Center. September 14, 2011. For NRCS, BOR, Extension and Mesa County Conservation District.

Study Tour. Trilateral Watershed Rehabilitation and Irrigation Technology- Afghanistan, Pakistan, United States. Tour stop at the Western Colorado Research Center, Monday, September 19, 2011. 12 people attending, most from Afghanistan and Pakistan.

Field Tour. Grand Junction Newcomers. September 21, 2011. 40 people. Local people toured WCRC-Fruita to learn about ag research. 10 am to 1 pm.

Soybean field tour. Western Colorado Research Center- Fruita. September 22, 2011. 8 people attending.

Tour of WCRC-Fruita for student interns with the Department of Energy. Friday, June 17, 2011.

Field tour of my winter wheat plots. July 28, 2011. Hayden, Colorado. 15-20 farmers and Extension agents attending.

Participated in booth at the Grand Junction Farmer's Market. Hosted by WCRC personnel. August 11, 2011. Handed out printed information and small bags of dry beans.

Field trip to WCRC-Fruita tour the Opuntia Biofuel Research Plot by the Western Colorado Chinle Succulent Society, Saturday, October 23, 2010.

Provided tour of research center and current research for the Colorado Chapter of the Soil and Water Conservation Society. August 22, 2003 from 9 to 11 pm.

Media Day. WCRC-Fruita. September 9, 2010.

Field Tour of Agricultural Research. Thursday, July 24, 2003. Western Colorado Research Center at Fruita. Approximately 30 people attended.

Tour of WCRC at Orchard Mesa of greenhouse for CSU Provost. Thursday, August 8, 2002.

Turf Plot Field Tour. Tuesday, August 6, 2002. Western Colorado Research Center at Fruita. Approximately 25 people attended.

Research Center Field Tour. Students from Corpus Christi, Texas. Friday, June 28, 2002. Approximately 50 people.

Tour of laboratory and turf study at WCRC at Fruita by the Deep River Middle School. April 25, 2002. Approximately 25 people.

Open House and Tour of new sunflower rubber laboratory at the Fruita Research Center for local dignitaries and clientele and other invited guests. Friday, March 15, 2002. Approximately 50 people attended.

Tour of poplar research at the Fruita Research Center for Colorado State University Forest Service Greenhouse Manager. Friday, October 26, 2001.

Tour of edamame soybean field production and research at the Western Colorado Research Center. Akiel Suzuki, Seedex, Inc. Longmont, Colorado. August 16, 2001.

Field Tour of Wheat, Barley, and Corn Plots. July 30, 2001. Conducted tour of winter and spring small grain research plots at Hayden, Colorado for group of approximately 25 growers.

Field Tour of Poplar Research. Western Colorado Research Center at Fruita. September 20, 2000. approximately 30 people attended.

ARDEC Field Day. Poster on display by Calvin H. Pearson and Randy D. Moench entitled, "Using hybrid poplar in agroforestry in western Colorado." September 8, 2000.

Tour of current field research. August 9, 2000. Western Colorado Research Center at Fruita.

Field Tour of Wheat, Barley, and Corn Plots. August 1, 2000. Conducted tour of winter and spring research plots at Hayden, Colorado for group of approximately 20 growers.

Tour of agronomic research and Fruita Research Center, Fruita Monument High School class, October 20, 1999.

Field day at the Fruita Research Center, August 26, 1999. Oral presentations to group of approximately 50 people on kenaf variety performance evaluation study, small grains variety performance trials, alfalfa variety performance tests, evaluation of corn silage hybrids and pasture grass species, sugarbeet testing in western Colorado, oat variety, corn grain hybrid, and dry bean variety testing.

Field day at the Southwestern Colorado Research Center, August 19, 1999. Oral presentation on alfalfa harvest management and hay preservatives.

Wheat Field Day, July 26, 1999. Conducted tour of winter and spring wheat research plots at Hayden, Colorado for group of approximately 20 growers.

Participant in the Farm and Ranch Day, Saturday, April 17, 1999, April 18, 1998, April 19, 1997, April 18, 1996 . Western Colorado Research Center personnel. Each year we give away 1,000 complimentary dry bean samples to the public and thousands of brochures about CSU, the College of Agriculture, and the Agricultural Experiment Station. Each year we set up static displays of research equipment and display boards. This event attracts thousands of people and is an excellent event for us to interact with the general public.

Attended the 1998 Upper Colorado Environmental Plant Center Advisory Meeting, Thursday, August 20, 1998 at Meeker, Colorado. A tour was given of the Plant Materials Center and one of the scheduled stops was at my forage plots. I was asked to give a short talk about the plots. I estimated there were 30 people on the tour.

Wheat Field Day in Northwest Colorado. Monday, August 3, 1998 at Hayden, Colorado. A group of about 20 people, most of which were farmers, toured winter wheat plots, spring wheat plots, and spring alternative crop demonstrations (malting barley, canola, sunflowers, and PAM/fertilizer plots). I gave brief comments about the plots at both locations.

Tour of Roundup Ready corn plots at the Fruita Research Center. Sponsored by Monsanto, July 23, 1998. I gave comments about the plots to a group of about 15 farmers and industry people.

Tour of research at the Fruita Research Center for the 50 for Colorado State Leadership Program. 50 for Colorado is a statewide leadership program that is run by the non-profit, Colorado Association of Commerce and Industry. I provided a tour of current field research at the Research Center to a group of nearly 50 adults, most of which were from eastern Colorado (Denver metro area) on June 20, 1998.

Tour of research center and field research, April 24, 1998 for nine Plateau Valley High School students and their teacher.

Coors Field Day, August 26, 1997. Keith Catlin Farm, Montrose, Colorado. Presentation was made on the results of the malting barley cultivar performance test conducted at this location. Sponsored by the Coors Brewing Company.

Fruita Research Center Field Day, Thursday, August 14, 1997. Presentations were made on new and alternate crops and cropping systems, and conservation tillage and PAM demonstration, Fruita, Colorado.

Tour of the Fruita Research Center and field research for the Colorado Department of Agriculture Commission, July 24, 1997.

Tour of the Fruita Research Center and field research for State Extension Advisory Council (approximately 25 people), July 29, 1996.

Tour of the Fruita Research Center and field research for West River Unschoolers (approximately 20 people), July 10, 1996.

Tour of the Fruita Research Center and field research for Rotary Group Study Exchange Team from New Zealand (5 people), May 28, 1996.

Tour of the Fruita Research Center for Mesa State College plant physiology class April 19, 1996.

Fruita Research Center Field Day, Thursday, August 14, 1995. A presentation was made on Conservation tillage on furrow-irrigated cropland, and other things”.

Tour of malting barley field plots at the Keith Catlin Farm, Montrose, Colorado, August 4, 1995. Sponsored by the Coors Brewing Company.

Tour of the Fruita Research Center and field research for Colorado research center superintendents, July 13, 1995.

Tour of the Fruita Research Center and field research on conservation tillage and was the host for the Director of Wheat Research in India during July 8-12, 1995.

Tour of Research Center and field research for Bulgarian scientist, August 29, 1994.

Tour of the Fruita Research Center and research for students with the International Irrigation Center from Utah State University, June 24, 1994.

Tour of the Research Center and field research for Mesa State College class (ag communication skills). April 11, 1994.

Fruita Research Center Field Day, Thursday, August 12, 1993. A presentation was made on malt barley production in western Colorado, sweet corn nitrogen fertility, and alfalfa production in western Colorado.

Malt Barley Field Day, Tuesday, July 27, 1993. Keith Catlin Farm, Montrose, Colorado. Presentation and tour of malt barley research in Montrose.

Tour of the Fruita Research Center and talk on conservation tillage research for State of Colorado Cooperative Extension agents. July 8, 1993.

Tour of the Fruita Research Center and research for representatives of Pioneer Hi-Bred Int'l, Inc., May 11, 1993.

Tour of the Fruita Research Center and research for Elaine Jones of the Colorado Rancher/Farmer - May 6, 1993.

Participated in Pioneer Field Day to discuss test strips of pioneer corn hybrids and ear stunt evaluation plots. October 21, 1992. Mannel Farms. Loma, Colorado.

Tour of conservation tillage research at the Fruita Research Center for Mesa State College agriculture class. September 11, 1992.

Tour of the Fruita Research Center and current research for the Colorado Agricultural Commission and the Colorado Commissioner of Agriculture. May 20, 1992.

Oral presentation of agronomic research and tour of the Fruita Research Center to Soil Conservation Service employees in Colorado, November 22, 1991, Fruita Research Center, Fruita, Colorado.

Tour of the Fruita Research Center and research for Afghan scientists - October 9, 1991.

Fruita Research Center Field Tour of Agronomic Research, August 1, 1991, Fruita Research Center, Fruita, Colorado.

Fruita Research Center Field Day, July 27, 1989. Presentation was made entitled "Soybean production and sorghum seed production in western Colorado."

Tour of the Fruita Research Center and research for representatives of Northrup King - September 19, 1988.

Tour of the Fruita Research Center and research for Biosoiltech Management - September 1, 1988.

Tour of the Fruita Research Center and research for Asgrow Seed Company representatives - September 1, 1988.

Durum Wheat Field Tour. Tour of durum wheat research and discussion of durum wheat production in western Colorado, July 12, 1988. Fruita Research Center, Fruita, Colorado.

Dry Bean and Soybean Field Tour. Tour of soybean and dry bean cultivar performance tests, nitrogen fertilization of dry bean, and adaptation nursery of South American dry bean lines. August 27, 1987. Olathe, Colorado.

Fruita Research Center Field Day, July 23, 1987. Presentation entitled, "Soybean Production in Western Colorado."

Tour of the Fruita Research Center and research for State of Colorado, Joint Budget Committee - July 21, 1987.

Tour of the Fruita Research Center and research for Colorado Commissioner of Agriculture, Peter Decker - July 15, 1987.

Tour of research plots of ethephon and nitrogen fertilization in winter barley to a group of farmers, June 25, 1987.

Soybean production workshop, March 3, 1987, Fruita Research Center, Fruita, Colorado.

Tour of the Fruita Research Center and research for Environmental Horticulture class from Mesa State College - October 29, 1986.

Soybean Field Tour, August 26, 1986, Fruita Research Center, Fruita, Colorado. Tour and discussion of soybean research and production in the Grand Valley of Colorado.

Tour of the Fruita Research Center and research for Director of the Potash and Phosphate Institute - July 29, 1986.

Tour of the Fruita Research Center and research for the regional representative of The Nitragin Company - July 15, 1986.

Tour of the Fruita Research Center and research for the regional representative of Ortho Chemical Company - July 8, 1986.

Tour of the Fruita Research Center and research for representatives of Union Carbide - April 1, 1986.

Field Crop Day Program, February 14, 1986, Delta, Colorado. Oral presentation entitled, "Tillage effects on yield in dry bean and 1985 dry bean cultivar performance test."

Fruita Research Center Field Day, August 1, 1985. Oral presentation entitled, "Plant Growth Regulators and Nitrogen Fertilization in Winter Barley."

Tour of the Fruita Research Center and research for several representatives of Northrup King Co. - June 6, 1985.

Tour of the Fruita Research Center and research for Chinese delegation of scientist and governmental officials - May 14, 1985.

Tour of the Fruita Research Center and research several representatives of Southwest Seeds of Dolores, Colorado - September 13, 1984.

Tour of the Fruita Research Center and research for representatives of the Potash and Phosphate Institute - July 13, 1984.



## **GUEST LECTURES**

Guest lecture, two-hour classroom oral Powerpoint presentation on weed control practices to students (8) and field tour at WCRC-Fruita, November 12, 2013, for Western Colorado Community College class on Sustainable Crop Production, Grand Junction, CO.

Guest lecture, one-hour classroom oral Powerpoint presentation on weed control practices to students (4), November 27, 2012. Western Colorado Community College, Grand Junction, CO.

Banquet Guest Speaker, Tri-Beta Biological Society, Western Region District 1 Regional Conference. Saturday, April 10, 1999. Mesa State College, Grand Junction, Colorado. Slide presentation on sustainable agriculture. Approximately 60 people in attendance.

Guest lectures at Mesa State College to General Biology classes on "Sustainability and the Future of Agriculture in the 21<sup>st</sup> century," October 28, 1998. This was a one-hour lecture to each of two classes (8:00 a.m. and 12 noon to approximately 75 students); Other lectures to General Biology students at Mesa State College on similar topics- October 3, 1997, October 7, 1996 February 28, 1995, June 28, 1995, October 6, 1995, June 14, 1994, and October 4, 1994.

Seminar presentation on the topic of "Conservation tillage under furrow irrigation in western Colorado", February 16, 1996 to the CIMMYT research staff, Obregon, Mexico.

Guest lecture at Mesa State College to Production Agriculture class on current agricultural issues, November 13, 1993.

Guest lecture at Mesa State College to Farm and Ranch Management class on the topic of crop rotations, March 18, 1993.

Colorado Agricultural Leadership Program. January 28, 1993 at Cortez and January 29, 1993 at Grand Junction. Slide presentations were made on "Can agriculture communicate environmental issues with the non-agricultural public?"

Lecture to consultants, technicians, university personnel, seed certification personnel, and government officials on dry bean seed production problems and potential in Santa Cruz, Bolivia. February 3, 1992. Santa Cruz, Bolivia, South America.

Lecture to consultants and officials at PROMASOR on assessment of dry bean seed production potential in Santa Cruz, Bolivia. January 27, 1992. Santa Cruz, Bolivia, South America.

## **WEBSITES, SOCIAL MEDIA**

Created a You Tube video to explain the automated forage harvesting system I use in my research. The has been viewed by hundreds of people. The forage video is posted at the following <http://aes-wcrc.agsci.colostate.edu/forage-video/> It has also been uploaded to the university You Tube account. 2013.

Participated in the development of our website for western Colorado biomass research [www.wccnbc.org](http://www.wccnbc.org). 2010.

Designed and had constructed a pull-up display to highlight WCRC-Fruita. April 2011.

Website developed during 2002 to inform/educate people regarding our research project entitled, "Commercial and Strategic Rubber from Crop Plants and Bioreactors." The website address is [www.naturalrubber.info](http://www.naturalrubber.info). The website was not refereed. This website is currently not active. It was active for several years.

## **TELEVISION**

- Determining alfalfa hay quality, aired August 29, 1995.
- Fall planting alfalfa, aired August 22, 1995.
- Scheduling dry bean harvest based on stage of maturity, aired August 30, 1994.
- Scouting for white mold in dry beans, aired August 16, 1994.
- Conservation tillage under furrow-irrigated conditions, aired July 26, 1994.
- Growth and development of plants under water stress, aired July 19, 1994.
- Determining alfalfa hay moisture, aired July 4, 1995.
- Cultivating crops properly, aired June 28, 1994.
- Harvest timing of alfalfa, aired May 24, 1994.
- Proper pest identification, aired May 17, 1994.
- Planting quality seed, aired April 26, 1994
- Soil temperature and planting field crop seeds, aired April 19, 1994.
- Spring field tillage, aired March 15, 1994.
- Knowing your soil pH, aired March 8, 1994.
- Knowing the texture of your soil - February 22, 1994.
- Television interview with Channel 11 News about how the wet weather affected seed crops in western Colorado. September 29, 1997.
- Winter annual weed control - February 15, 1994.
- The future of agriculture - February 1, 1994.
- Selecting crop varieties - aired January 18, 1994.
- Using pesticides - aired January 4, 1994.
- Use of manure in crop production, aired December 28, 1993.
- Using scientific information to guide public policy issues, aired December 21, 1993.
- Managing stored grain, aired October 26, 1993.

- Determining grain moisture, aired October 19, 1993.
- Management of surface crop residues, aired October 12, 1993.
- Producing dry beans in western Colorado, aired September 14, 1993.
- Controlling creeping perennial weeds in the fall, aired September 7, 1993.
- Reducing soil compaction, aired August 17, 1993.
- Upcoming Fruita Research Center Field Day, aired August 10, 1993.
- Planting certified seed, aired March 9, 1993.
- Identifying soil compaction, aired March 2, 1993.

I was the featured expert for the following television segments which were filmed for the agricultural report. The agriculture report aired each Tuesday just before the weather report on the news at noon and again at 10:00 p.m. on KREX-Television in Grand Junction, Colorado. Randy Ristau, Extension Agronomist, was the anchor for the ag report.

Television interview for KREX-TV on the effect of the mild winter temperatures on field crops in western Colorado, February 9, 1995.

Participated in the first and last segments of a five-part series on protecting agricultural land for KREX-TV that aired October 3-7, 1994.

Television interviews with KREX and KJCT television stations and the Fruita Times newspaper regarding verticillium wilt in western Colorado. August 4, 1992.

Television interview with KREX television regarding current situation with small grain crop in western Colorado. June 11, 1992.

Television interview with KREX-TV regarding the alfalfa stem nematode and wheat in western Colorado, April 13, 1992.

Television interview with KREX-TV regarding wheat and pea mixtures for alternative hay forage production in western Colorado on October 21, 1991.

Television interview with KREX-TV regarding dry beans in western Colorado, October 3, 1991.

## **POPULAR ARTICLES**

Pearson, Calvin H. Large format poster, "Sixty-two Years of Agronomic Research in Western Colorado at the Western Colorado Research Center at Fruita." 2010.

Pearson, Calvin H. Large format poster, "Developing low-Input, High-Biomass, Perennial Cropping Systems to Support a Bioenergy Economy on Marginal land in the Intermountain West." 2010.

Pearson, Calvin H., and Morgan Williams. Large format poster, "Biobutanol – The Second Generation Biofuel." 2010.

Pearson, Calvin H., Joe Brummer, and Andy Beahm. Large format poster, "Corn Production using Living Mulch Cropping Systems" 2010.

Pearson, Calvin H. Large format poster, "Agronomic Research in Western Colorado." 2010.

Article on the front page of the Grand Junction Daily Sentinel entitled, "Sunflower field blooms with hope for new fuel." July 26, 2006.

Pearson, C.H. 2006. Little or no-cost management practices increase hay profits. *The Progressive Hay Grower* 7:11-14.

Cornish, K., C.M. McMahan, C.H. Pearson, D.T. Ray, and D.K. Shintani. 2005. Biotechnological development of domestic rubber producing crops. *Rubber World* 233:40-44.

Pearson, Calvin H. 2004. Making Hay the Right Way. p. 29-40. In: *Colorado Forage Research 2003: Alfalfa, Irrigated Pastures, and Mountain Meadows* (Brummer, Joe E. and Calvin H. Pearson, compiled and edited by). Colorado State University, Agricultural Experiment Station and Cooperative Extension, Technical Bulletin TB04-01. Fort Collins, Colorado. (This article was reprinted by permission in *The Progressive Hay Grower*, vol. 5, no. 5, September/October, 2004.)

Pearson, Calvin H. 2001. Little or No-Cost Management Practices Increase Hay Profits. *In: The Progressive Hay Grower* 2(5):19-20. Jerome, Idaho.

Pearson, Calvin H. 2000. Ten important gardening tips. *Colorado Country Life Magazine* 31(4):22-23.

Pearson, Calvin H. 2000. Going native: including native plants in your landscape. *Colorado Country Life Magazine* 31(5):22-23.

Pearson, Calvin H. 2000. Battling weeds - strategies that will win the war. *Colorado Country Life Magazine* 31(6):22-23.

Pearson, Calvin H. 2000. Plant a feast for a beast. *Colorado Country Life Magazine* 31(7):22-23.

Pearson, Calvin H. 2000. Planting a defense. *Colorado Country Life Magazine* 31(8):22-23.

Pearson, Calvin H. 2000. Prescription for healthy soil. *Colorado Country Life Magazine* 31(9):26-27.

Pearson, Calvin H. 1999. Spodnam - a new harvest aid for alfalfa hay producers? The Waterline no. 126, October 1999.

Pearson, Calvin H. 1999. Evaluating pasture grasses: Warm-season grasses may be a good production choice in western Colorado. From the Groundup, Agronomy News. Department of Soil and Crop Sciences, Cooperative Extension Newsletter. Volume 19 (4):8-9.

Pearson, Calvin H. 1997. American dream threatens agricultural production. Guest editorial in The Daily Sentinel, Grand Junction newspaper, January 5, 1997.

Pearson, Calvin H. Using manure in Crop Production. Agricultural Connections in the Tri-River Area. Colorado State University. Tri-River Area Extension Newsletter. January 1994.

Pearson, Calvin H. 1993 Variety Performance Test Results. Agricultural Connections in the Tri-River Area. Colorado State University. Tri-River Area Extension Newsletter. January 1994.

Pearson, Calvin H. Fall soil sampling. The Waterline. November 1994, no. 78.

Pearson, Calvin H. Fall dormancy and winterhardiness in alfalfa. Agricultural Connections in the Tri-River Area. Colorado State University. Tri-River Area Extension Newsletter. April 1994.

Pearson, Calvin H. Reducing field compaction. Agricultural Connections in the Tri-River Area. Colorado State University. Tri-River Area Extension Newsletter. July 1993.

Pearson, Calvin H. Crop Rotation Versus Monoculture. Agricultural Connections in the Tri-River Area. Colorado State University. Tri-River Area Extension Newsletter. July 1993.

Pearson, Calvin H. These are no Has-Beans. Agricultural Connections in the Tri-River Area. Colorado State University. Tri-River Area Extension Newsletter. July 1993.

Pearson, Calvin H. No-till planter for furrow-irrigated conservation tillage cropping systems. The Waterline. Colorado State University Cooperative Extension. November 1992.

Pearson, Calvin H. Verticillium wilt identified in Tri-River area. Crop-Notes. Colorado State University. Tri-River Area Extension Newsletter. September 1992.

Pearson, Calvin H. Pesticide application. Crop-Notes. Colorado State University. Tri-River Area Extension Newsletter. April 1992.

Pearson, Calvin H. Fall Preparations for Winter. Crop-Notes. Colorado State University. Tri-River Area Extension Newsletter. November 1991.

Pearson, Calvin H. Field Cultivating Row Crops. Crop-Notes. Colorado State University. Tri-River Area Extension Newsletter. June 1991.

Pearson, Calvin H. Alfalfa Stem Nematode: 1991 Outlook. Crop-Notes. Colorado State University. Tri-River Area Extension Newsletter. May 1991.

Pearson, Calvin H. Jointed Goatgrass: A Serious Threat To Wheat. Crop-Notes. Colorado State University. Tri-River Area Extension Newsletter. March 1991.

Pearson, Calvin H. Conservation tillage in furrow-irrigated cropping systems. The Waterline. Colorado State University Cooperative Extension, no. 37. October 1990.

Pearson, Calvin H. Crop rotation. Crop-Notes. Colorado State University. Tri-River Area Extension Newsletter. August 1990.

Pearson, Calvin H. Controlling field bindweed. Crop-Notes. Colorado State University. Tri-River Area Extension Newsletter. June 1990.

Pearson, Calvin H., and Harold M. Golus. Ear stunting of corn in western Colorado. Colorado State University. Cooperative Extension. Agron-O-Gram. April 1990.

Pearson, Calvin H. Improving irrigation efficiency in western Colorado. Fruita Co-op Newsletter. March 1990.

Pearson, Calvin H. The photosynthetic factory. Crop-Notes. Colorado State University. Tri-River Area Extension Newsletter. vol. 3, no. 1, 1989.

Pearson, Calvin H. Herbicide application tips. Crop-Notes. Colorado State University. Tri-River Area Extension Newsletter. vol. 3, no. 2, 1989.

Pearson, Calvin H. Drill versus broadcast planting small grains. Crop-Notes. Colorado State University. Tri-River Area Extension Newsletter. vol. 3, no. 4, 1989.

Pearson, Calvin H. Liquid fertilizers. Crop-Notes. Colorado State University. Tri-River Area Extension Newsletter. vol. 2, no. 1, 1988.

Pearson, Calvin H. Soybean production in western Colorado - here to stay? Crop-Notes. Colorado State University. Tri-River Area Extension Newsletter. vol. 2, no. 2, 1988.

Pearson, Calvin H. Controlling field bindweed. Crop-Notes. Colorado State University. Tri-River Area Extension Newsletter. vol. 2, no. 3, 1988.

Pearson, C.H., and H. M. Golus. Soybean and durum wheat production in western Colorado, p.3. In: Agronomy Newsletter, Colorado State University, Fort Collins, Colorado. Fall 1988.

Pearson, Calvin H. Corn hybrids respond differently to nitrogen fertilization. Article written for The Waterline, Issue no. 10, August 1987. A cooperative extension newsletter.

Pearson, Calvin H. Planting quality seed. Crop-Notes. Colorado State University. Tri-River Area Extension Newsletter. vol. 1, no. 1, 1987.

Pearson, Calvin H. Visual indicators of physiological crop maturity. Crop-Notes. Colorado State University. Tri-River Area Extension Newsletter. vol. 1, no. 2, 1987.

Pearson, Calvin H. Determining soybean harvest losses. Crop-Notes. Colorado State University. Tri-River Area Extension Newsletter. vol. 1, no. 3, 1987.

## **MENTORING**

Provided summer internship for EC to become familiar with agriculture and agricultural research. Summer 2013.

Provided letter of recommendation for NH to apply for a graduate school (PhD in microbiology) at the University of Wisconsin-Madison and the University of California-Berkeley. November 2013.

Provided a letter of documentation to Ingmire Phillips Insurance, Inc. for local farmer for crop insurance claim on alfalfa seed. September 23, 2013.

Provided letter of recommendation for CR to apply for medical school. February 2013.

Summer internship for JH to become familiar with agriculture and agricultural research. Summer 2012.

Provided letter of recommendation for MW to apply for a NSF Graduate Research Fellowship at the University of California-Berkeley. November 2012.

Provided technical assistance to IM, CSU Extension to help with the planning and developing of a plant material demonstration field to be located in Paonia, CO. Met several times during 2012-2013.

Retired senior citizen volunteer to assist with grounds maintenance and various other designated light tasks. Cheryl Whiteman (2009 to present).

Student intern (JF) from Fruita Monument High School to obtain work experience in my lab. Winter 2009.

Wrote letter of support for colleague at Texas A&M University who was applying for a Dept. Head position. November 17, 2006.

Wrote letter of support for colleague at Texas A&M University who was nominated to be a 2006 ASA Fellow. March 29 2006.

Wrote letter of support for colleague at Alabama A&M University who was nominated for the 2006 ASA-CSSA-SSSA International Service in Crop Science Award. March 28, 2006.

Upon request, submitted a letter of recommendation in behalf of colleague application for the J.G. Boswell Chair in agronomy at the California State University at Fresno. January 23, 2003.

Mentor for several years (1999-2003) for AB in the Department of Soil & Crop Sciences, Southwest Colorado Research Center.

Attended Southwestern Colorado Research Center Advisory Meeting, Cortez Conference Center, Wednesday, February 21, 2001. Cortez, Colorado.

Prepared letter of support/recommendation for Dr. Mary Beth Kirkham for her nomination for K-States's College of Agriculture Excellence in Graduate Teaching Award. Kansas State University. March 24, 2001. She was successful in winning the award.

From 1997-2002 I have worked with a lady who is 60 years old. She is partially disabled and is living in low-income conditions. She is enrolled in a program that is government funded and is designed to help people upgrade their skills so they can become more gainfully employed. She is learning multi-media computer software and helping us to develop an interactive cd-rom on plant materials. Plant materials are plants species that are used to enhance the environment. Plant materials can be used in many applications including wildlife habitat, urban landscaping, wetlands, streambank stabilization, reclamation, soil erosion control, remediation, and education.

Collected alfalfa samples from across western Colorado during summer 1995. Samples were collected from the Grand Valley, Collbran area, Rifle/Newcastle area, Hotchkiss/Crawford area, and the Norwood/Paradox area. Three to four alfalfa fields were sampled each month during May, June, July, August, September, and October. Plant samples were sent to Cecilia de Tomasel for evaluation for nematodes. Cecilia was an M.S. student in Plant Pathology and this was part of her thesis research.



I wrote a letter of recommendation and advised a high school student who applied for a diversity scholarship in a student exchange program. ZF was awarded the scholarship and spent the 1993-94 school year in Germany.

PM was employed at the Research Center as a Research Associate from 1986 to 1988. While at the Research Center he developed an interest in dry beans. He was responsible for the day-to-day operations of the Dry Bean Foundation Seed Project. He and I also worked together on a research project on the effect of seed size and planting depth on field performance of pinto bean, which we subsequently published. Because of this experience he developed a desire to pursue a Ph.D. in plant breeding in dry beans. He completed a Ph.D. at North Dakota State University, did a post-doc at Michigan State University, was employed with USDA in Puerto Rico as a dry bean breeder, and is now with USDA as a dry bean breeder at Prosser, Washington USA.

I served as an adviser for a M.S. student from France who spent a two-month internship at the Fruita Research Center during the spring of 1989.

I provided leadership for the Fruita Research Center for two years for a summer youth employment program for the disadvantaged. The program was sponsored by the Resource Center in Grand Junction and student wages were provided by the State of Colorado. During 1989 we employed Jeff DeCrow and Robert Venegas and during 1990 we employed Pat Serrano and Ernie Martinez. They assisted in maintenance and improvements at the Fruita Research Center, such as painting, cleaning, repairing, and remodeling.

The past five years we have had a faculty affiliate (former USDA-ARS employee from California) working at the Research Center. He conducted a research project on the effects of traffic on nonstructural carbohydrates and productivity in alfalfa. I have helped him with the experimental design, layout of his research, various aspects of the methodology, and we have discussed the possible results and impact of his findings.

During 1991 through 1993 I submitted grant proposals and obtained funding from USDA, Cooperative State Research Service to participate in the Research Apprenticeship Program for Minority High School Students. This program is designed to allow high school students to work directly with scientists and receive encouragement to select agriculture as a career. The students I mentored in this program were: Kristen (1991), Keara (1992), and Aubrey. Working with these young people was a delightful and rewarding experience.

In November 1992 I was asked by a faculty member of Mesa State College to tour the College Farm and give recommendations that would improve the productivity of the farm. People who operate the Mesa State College Farm have had very little farming experience and they needed information about tillage, herbicide use, crop rotation, and other aspects of cropping practices.

## **EXPERT WITNESS**

Expert witness for international litigation involving GE LLRice601. Dr. Pearson was hired by a law firm in Little Rock, Arkansas. This law firm represented three European companies. Because of his testimony obtained through deposition the parties settled out of court. His knowledge and experience working with transgenic sunflowers, alfalfa, and corn, and the containment and management of GMO plant species was key to settling the lawsuit. 2009-2010.

Expert witness for the Office of the Attorney General, State of Arizona, on a case involving durum wheat. My involvement lasted seven months. Traveled to Phoenix, Arizona on March 17-19, 1998 to provide my testimony. I was the only expert witness for the State of Arizona in this case. My testimony was key to winning the case for the State of Arizona and in saving the state from paying the plaintiff many thousands of dollars.

## **SERVICE**

Served on USDA-AFRI – Bioenergy CAP grant panel on three panels in which we reviewed and provided recommendations for awarding very large multi-million dollar grants to research consortia. January 4-7, 2011; February 27-March 2, 2012; April 1-3, 2012; June 8-14, 2013. Washington, D.C.

Search Committee Member for the WCRC Manager. February-May 2013.

Provided WCRC-Fruita data for the United States 2012 Census of Agriculture. February 2013.

Provided weekly crop progress reports (requested and submitted online) to the Colorado Field Office of the National Agricultural Statistics Service during 2013, 2012, 2011.

Committee Chair, 2013, Committee member, 2011 – A446 Carl Sprengel Agronomic Research Award. American Society of Agronomy.

Committee member - A449.2 – Darrel S. Metcalf Student Manuscript Contest. 2012, 2013. American Society of Agronomy.

Member of the abstract review committee and made recommendations regarding proposed presentations if they were acceptable for presentation at the 2013 International Biomass Conference to be held April 8-10, 2013 in Minneapolis. Reviewed 30 abstracts January 2013.

Dr. Pearson contracted with Buckley Air Force Base (via US Fish & Wildlife Service funding) to provide recommendations (in a written document) plant species and planting and establishment procedures and methods for native shortgrass prairie vegetation through the variables of soil amendments, seed mix, seasonal timing, installation methods, water requirements, and maintenance. This project required travel to BAFB along with written recommendations. 2013.

Collected and shipped native dandelion seeds to John Cardina at Ohio State University/OARDC at Wooster, OH. April 30, 2012.

Evaluated the performance (research record) of Dr. HMS for promotion to the rank of Full Professor at the University of Jordan in the country of Jordan. December 2012.

Assessed the PhD Dissertation of MIS, Department of Agronomy, Sindh Agriculture University, Tandojam, Pakistan. Fall 2012. Thesis entitled, "Seedling establishment and yield of various field crops under different seed priming periods and available soil moisture."

Assessed the PhD Dissertation of MUU, Department of Agronomy, Sindh Agriculture University, Tandojam, Pakistan. April 2011. Thesis entitled, "Productivity and monitoring studies on sugar beet (*Beta vulgaris* L.) intercropped with cereal, oil seed, and legumes."

Search Committee Member for the fruit position at WCRC-OM. 2011.

In 2011, we obtained a 1973 Gleaner K Plot Combine as a donation from Syngenta Seeds. It is in pretty good shape and will replace the 1949 A Gleaner Plot combine we purchased from Crops Testing many years ago. I spent most of the winter 2012 working on repairing/improving the combine inside and out.

Requested by the University Dean Council and Appointment & Promotion Committee Secretary in 2012 to evaluate a faculty member at the University of Jordan for promotion to Full Professor. This was for the University of Jordan in the country of Jordan in the Middle East.

Requested by the Incharge Director of Advanced Studies during 2012 to evaluate the thesis of two different Ph.D. candidates in the Department of Agronomy at the Sindh Agriculture University Tandojam, Pakistan.

Assessed the PhD Dissertation of AFS, Department of Agronomy, Sindh Agriculture University, Tandojam, Pakistan. 2011. Thesis entitled, “Integrated effect of inorganic and organic fertilizers on the yield of sustainability of plant and ratoon sugarcane (*Saccharum officinarum* L.).”

By request, I evaluated the performance (research record) of Dr. NHS for promotion to the rank of Full Professor at the Jordan University of Science and Technology in the country of Jordan. February 2010.

Participated in developing the position announcement for the College and Ag Sciences and Ag Experiment Station Coordinator for Sponsored Project Support. August 18, 2006.

Upon request from the university president, reviewed dossier and prepared written evaluation for Dr. MT for his promotion and seniority in rank and salary at the Jordan University of Science & Technology. December 5, 2003.

Judge, Western Colorado Science Fair, Mesa State College. Grand Junction, Colorado. March 7, 2003.

Upon request provided a letter of support for Jim W., a 2003 summer hourly worker at the Western Colorado Research at Fruita.

Member of the Fruita Monument High School FFA Advisory Committee. Meeting held on Tuesday, April 9, 2002 at 7 pm at FMHS, Fruita, Colorado.

Judge, Western Colorado Science Fair, Mesa State College. Grand Junction, Colorado. March 8-9, 2002.

Participated in Mesa County District 51, “Career Opportunity Fair.” The objective of the fair was to give students insight into, and knowledge of, the world of work as it relates to their academic pursuits. Tuesday, May 7, 2002, 6:30 to 8:30 pm, Adams Mark Hotel, Grand Junction, Colorado. I offered information about Colorado State University, the Department of Soil & Crop Sciences, the College of Agriculture, Western Colorado Research Center, and information about being an agronomist and plant biologist.

Member of Steering Committee for the Fruita City Council and the Mesa County Board of Commissioners for the Transfer of Development Rights/Credits program. Summer/Winter 2002.

Senior Finals Judge - 2001 Western Colorado Science Fair, Mesa State College, Grand Junction, Colorado. March 2, 2001. (POINT OF INTEREST) I judged the project (one of three judges) of Ryan Patterson, senior at Central High School in Grand Junction. He won the Western Colorado Science Fair and he also won numerous national and international awards for his project, totaling in cash value of several hundred thousand dollars. He also attended the awards ceremony of the Nobel Prizes in Stockholm Sweden during December 2001.

Luncheon speaker at the Fruita Rotary Club. October 9, 2001. Slide presentation on current research at the Western Colorado Research Center. Fruita Civic Center. Fruita, Colorado 15 people.

On-site demonstration and presentation to students and teachers of Valley School on soil fertility and seedbed preparation for a community garden. September 26, 2001. Assisted students and teachers with information to develop a community garden a part of a practicum for a class at school.

Major Land Resource Area 34 Coordination Meeting, Forage Suitability Group. Natural Resources Conservation Service. Grand Junction, Colorado March 20, 2001.

Member of Steering Committee for the City of Fruita and Mesa County, Colorado. 2001-2002.

Attended City of Fruita public planning meeting on "Fruita - Looking forward with 2020 vision. February 8, 2000. Fruita, Colorado.

Attended Alfalfa Seed Growers Meeting, Fruita Research Center, February 3, 2000. 25 growers in attendance.

Judged agronomic crops at the Colorado State Fair on August 18-19 in Pueblo, Colorado.

Completed a survey for Preparing for Leadership in the Agricultural Research and Higher Education System, ESCOP/ACOP Leadership Development Program Survey of Graduates for Class 5.

Science Fair Judge, Western Colorado Science Fair, Mesa State College, March 5, 1999, Mesa State College.

Was interviewed on public radio, KVNF, Paonia, for 25 minutes about agricultural research and related issues of western Colorado (1999).

Member of the Gunnison Basin Selenium Task Force. This group consists of numerous people from a broad range of interests (i.e. farmers, Bureau of Reclamation, Sierra Club, NRCS, Division of Wildlife). I was asked to be a key participant for phytoremediation of selenium on agricultural lands (1999).

Met with officials at the Louisiana-Pacific waferboard plant in Olathe, Colorado to discuss possible common research interests as related to kenaf and poplar. Also, in attendance was a representative of the Shavano Soil Conservation District, Montrose, June 8, 1999.

Served as chair of a committee charged with the task of designing a new cover for *Agronomy Journal*. The committee was formed in early 1998 and we were to come to the ASA annual meeting in Baltimore to be held in late October 1998 with several cover possibilities for the ASA Editorial Board to discuss and from which a new cover could be selected. We completed the assignment as charged.

Appointed by Dr. Jim Quick, Head of the Department of Soil and Crop Sciences, to serve as the Department representative to the Western Colorado Research Center Management Advisory Committee on November 4, 1998.

Completed term of appointment by the Mesa County Commissioners to the Mesa County Agricultural Advisory Panel. Term of appointment from October 1, 1997 to October 1, 1998. Science Fair Judge at the Western Colorado Science Fair, Mesa State College, Grand Junction, Colorado, March 5, 1999, March 6, 1998, March 7, 1997, March 8, 1996, March 15-16, 1991, and March 17, 1989.

Appointed by the Director of the Colorado Agricultural Experiment Station on August 7, 1997 to serve on the Foundation Seed Committee.

Appointed by the Deputy Director of the Colorado Agricultural Experiment Station on April 2, 1997 to be the Station's official representative to the WCC-91 regional research coordinating committee on improving stress resistance of forages in the western United States.

Worked as a consultant for several days for the Colorado Seed Growers Association during 1996, 1997, and 1998 and inspected several hundred acres of alfalfa and red clover seed that are being grown in western Colorado.

Member of the search committee for the Director of the Agricultural Experiment Station, November 1996 - June 1997.

Provided annual written evaluations for several western Colorado regional Cooperative Extension specialists over the last several years.

Committee member of the Northwest Region Implementation Team for Cooperative Extension 2000. Participated in developing a strategic plan for the Northwest Region. November 1995 - January 1996.

Crops judge at the Montrose County Fair, August 2, 1995.

Advisory Search Committee for Associate Academic Vice President for Agriculture and Outreach Programs and Dean of the College of Agricultural Sciences. This assignment took over a year (1990-91) to complete and required numerous trips from Grand Junction to Fort Collins and considerable expenditure of my time and budget to complete this assignment.

In 1993 a plant materials park was established under my direction and in cooperation and assistance with the other personnel at the Fruita Research Center to evaluate plant material species for adaptation to arid climates, such as those of western Colorado. More than 125 species and cultivars of plants have been established. These include a wide diversity of grasses, legumes, sages, low maintenance turfs, wildflowers, shrubs, and trees. Plant materials are plants species that are used to enhance the environment. Plant materials can be used in many applications including wildlife habitat, urban landscaping, wetlands, streambank stabilization, reclamation, soil erosion control, remediation, and education. The Park is divided into three sections- (1) a wetlands or aquatic site, (2) an irrigated site, and (3) a dryland site. The purpose of the park is to acquaint the public with plant materials and agricultural activities. The Park is open to the public and over the years we have conducted numerous tours for individuals and groups of all sizes. Each year we make modest improvements to the Plant Materials Park as time and resources permit.

Judge for displays on conservation of natural resources at the Colorado Soil Conservation Service Annual Meeting, Grand Junction, Colorado on November 20, 1985.

Crops Judge for Mesa County Fair, August 1985, Grand Junction, Colorado.

## **MANUSCRIPT REVIEWS**

Reviewed Manuscript INDCRO-D-13-00050 entitled, "A new method for quantitative and qualitative analysis of polyisoprene in guayule" for the Journal of Industrial Crops and Products. February/March 2013.

Reviewed Manuscript ID rsif-2013-0181 entitled "Investigating the Rheological Properties of Native Plant Latex" for the Journal of the Royal Society Interface. March 2013.

Reviewed Manuscript INDCRO-D-13-00329 entitled, Preliminary study on the use of ATR-FTIR spectroscopy for analysis of Saffron spice (*Crocus sativus* L.) for the Journal of Industrial Crops and Products. March 2013.

Reviewed Manuscript SRE-07-032 entitled, “Study on the rheological, mechanical and swelling properties of natural rubber reinforced with blend of coconut fibre and N330, for Scientific Research and Essays. March 2013.

Reviewed Manuscript JPLN.201300238 entitled, “White clover living mulch controlled by only mowing supplies nitrogen to corn,” for the Journal of Plant Nutrition and Soil Science. June 2013.

Reviewed TB13-XX – Regression Modeling Weather and Biosolids, Effects on Dryland Wheat Yields in Eastern Colorado, 2001-2012 by K.A. Barbarick et al. October 2013.

Reviewed revised Manuscript ID rsif-2013-0847 entitled “Investigating the Rheological Properties of Native Plant Latex” for the Journal of the Royal Society Interface. Sept. 2013.

Reviewed TR12-13 entitled “Making Better Decisions, 2012 Colorado Corn Hybrid Performance Trials by Jerry Johnson et al. November 2012.

Reviewed Manuscript AJAR11-2222 entitled, “Interaction between different nitrogen fertilizer levels and maize-bean intercropping patterns.” Review conducted for the African Journal of Agricultural Research. January 2012.

Reviewed Manuscript ID CJPS2012-038 and Manuscript ID CJPS2012-038.R1 entitled, “Lower levels of harvest traffic on alfalfa (*Medicago sativa* L.) have minimal impact on long-term yields” by Eric Rechel et al. June 2012.

Reviewed Manuscript CM-RS-11-0121.R1 for Crop Management entitled, “A cost comparison of organic and conventional apple production in the State of Washington.” January 2012.

Reviewed Manuscript CM-RS-11-0153 for Crop Management entitled, “Social dimensions of organic production and systems research.” January 2012.

Reviewed Manuscript CM-RS-11-0117.R1 for Crop Management. March 2012.

Reviewed Manuscript CM-RV-12-0028 entitled, “Comparing organic and conventional farming systems: metrics and research approaches” for Crop Management. March 2012.

Reviewed Extension fact sheet entitled, “Guide for production dryland camelina” by N. Enjalbert and J. Johnson. March 2011.



Reviewed TR11-08 entitled “Making Better Decisions, 2011 Colorado Sunflower Variety Performance Trials by Jerry Johnson et al. December 2011.

Reviewed TR11-08 entitled “Making Better Decisions, 2011 Colorado Corn Variety Performance Trials by Jerry Johnson et al. December 2011.

Reviewed Extension fact sheet entitled, “Fertilizing cool-season and grass-legume mixtures” by Brummer et al. July 2011.

Reviewed grant proposals for the California Department of Food and Agriculture, Fertilizer Research and Education Program. July 2011.

Reviewed Manuscript AGF0870 entitled, “Composted biosolids as a source of iron for hybrid poplars (*Populus* sp) grown in Northwest New Mexico,” for Agroforestry Systems. March 2010.

Reviewed TR10-12 entitled “Making Better Decisions, 2010 Colorado Corn Variety Performance Trials by Jerry Johnson et al. December 2010.

Reviewed INDCRO-D-10-00356 entitled, “The ultrastructure of low temperature stimulated rubber-producing cortical parenchyma in guayule,” for Industrial Crops and Products. July 2010.

Reviewed Crop Management Manuscript #CM-RS-10-0019 entitled, ‘Inhibiting lodging of wheatgrass for seed production.’ February 2010.

Reviewer for Manuscript #A06-131 and edited seven manuscripts for *Agronomy Journal* during 2006.

Reviewed - Colorado State University, Agricultural Experiment Station and Cooperative Extension, Technical Report TR06-01.

Reviewed grant proposal for the Colorado Water Resources Research Institute – October 11, 2006.

Conducted detailed review of five manuscripts for *Agronomy Journal* in 2003.

Conducted detailed review during 2003 of publication entitled, “Best Management Practices for Colorado Corn.” 87 pages.

Reviewed Technical Report TR03-10, Making Better Decisions: 2003 Colorado Corn, Soybean, and Sunflower Variety Performance Trials. 24 pages. December 17, 2003

Reviewed grant proposal #2003-01069 for USDA-CSREES, NRI Competitive Grants Program. March 12, 2003.

Reviewed grant proposal #2003-00084 for USDA-CSREES, Small Business Innovation Research Program Competitive Grants Program. January 14, 2003

Reviewed several manuscripts, in detail, for *Agronomy Journal* (2002).

Reviewed manuscript for the Australian Journal of Experimental Agriculture entitled, “An accurate and mobile weigh bin for peanuts (2002).

Reviewed Manuscripts #A01-97 and #A01-98 for *Agronomy Journal*. May 2001.

Reviewed and edited by request from Fred Judson, “Western Colorado Foundation Seed Project,” information for web site. February 9, 2001.

Reviewed manuscripts during June 2001 and December 2001 for AES technical reports entitled, “Assessment of Irrigation Water Management and Demonstration of Irrigation Scheduling Tools in the Full Service Area of the Dolores Project: 1996-2000 Part I: Survey Results TR01-6 and “Assessment of Irrigation Water Management and Demonstration of Irrigation Scheduling Tools in the Full Service Area of the Dolores Project: 1996-2000 Part II: Calibration of the Watermark Soil Moisture Sensor and Etagage Atmometer, TR01-7,” by Abdel Berrada, Tom Hooten, Israel Broner, and Grant Cardon.

Reviewed manuscript entitled, “Forage production and quality of 14 grasses for fall and winter grazing,” for USDA-ARS Research Geneticist at the Forage and Range Research Laboratory at Logan, Utah. May 18, 2000.

Reviewed manuscript for *Agronomy Journal* entitled, “Stubble management effects on three creeping red fescue cultivars (2000).

Reviewed manuscript for AES technical bulletin entitled, “Is agricultural research a good investment?” (2000).

## **SIGNIFICANT MEETINGS, CONFERENCES, AND EVENTS**

*NOTE: For many years I maintained a record of personal consultations with clientele. I no longer keep such a record. Below illustrates the types of requests/interactions I have with clientele.*

February 2-4, 2014. Research Center Administrator’s Society Winter Meeting, Dallas, Texas.

February 3-5, 2013. Research Center Administrator's Society Winter Meeting, Orlando, Florida.

November 1, 2013 – met locally with Agricultural Experiment Station and Extension personnel to discuss effort towards the livestock industry in western Colorado.

Attended Commercial Pesticide Application Training Workshop on Tuesday, February 19, 2013 at the Two Rivers Convention Center, Grand Junction, Colorado. Participated in this meeting to obtain continuing education credits for my Colorado Qualified Supervisor's Pesticide license.

Business Innovation Roundtable Meeting. Roundtable discussion with U.S. Senator Mark Udall. February 23, 2011. Leitner Poma Headquarters. Grand Junction, Colorado.

Oilseed Biofuel Project Meeting. February 24, 2011. Olathe Coop. Olathe, Colorado. Organized by Extension and Water Resource Specialist.

College of Ag Sciences dinner. Tuesday, August 16, 2011. Wine Country Inn. Palisade, Colorado.

Flux Farm Foundation Board Meeting. July 22, 2010. Carbondale, Colorado.

Participated in the Association for the Advancement of Industrial Crops Annual Meeting. September 20-22, 2010. Fort Collins, CO.

Joint WCRC/Tri-River Cooperative Extension Planning and Coordinating Meeting. Grand Junction, CO WCRC-OM meeting room. January 31, 2006.

Joint WCRC/Tri-River Cooperative Extension Planning and Coordinating Meeting. Grand Junction, CO. WCRC-OM meeting room. December 1, 2006.

Alternative Agriculture Advisory Team Project meeting. November 19, 2003. Grand Vista Hotel, Grand Junction, Colorado.

Attended meeting at the Colorado Department of Agriculture regarding the potential for establishing a marketing order for the hay industry in Colorado. March 28, 2000. Lakewood, Colorado.

Invited participant at the CSU Cooperative Extension Western Regional Stakeholders meeting, Eagle, Colorado, November 16, 1999.

Upper Colorado Environmental Plant Center Advisory Meeting, September 15, 1999, Plant Materials Center, Meeker, Colorado.

Participant in the Farm and Ranch Day, Saturday, April 17, 1999. Western Colorado Research Center personnel set up a booth. We gave away complimentary dry bean samples to the public. We also gave away a considerable amount of CSU and College of Agriculture promotional literature and some technical literature. This was an excellent way for us to interact with the general public. We participated in this event in since 1996. This event attracts thousands of people and is an excellent event for us to participate in.

Meeting to discuss restructuring *Agronomy Journal*, January 13-14, 1999, ASA-CSSA-SSSA Headquarters, Madison, Wisconsin.

Attended Commercial Pesticide Application Training Workshop on Thursday, February 19, 1998 at the Holiday Inn, Grand Junction, Colorado. Participated in this meeting to obtain continuing education credits for my Colorado Qualified Supervisor's Pesticide license.

Western Colorado Research Center Advisory/Outreach Meeting, February 16, 1998, Holiday Inn, Grand Junction, Colorado.

Meeting with northwest Colorado growers on January 28, 1998 at Hayden, Colorado to discuss future research plans and needs in that region of the state.

Invited participant in the Northwest Region Key Stakeholders Meeting, Colorado State University Cooperative Extension, November 13, 1997, Glenwood Springs, Colorado. I was invited as a representative of the research centers in western Colorado.

Meeting to provide background information for a feasibility study regarding the Fruita Consumers Coop purchasing the feed mill from Farmland Industries, October 11, 1997. Members of the committee conducting the study were Dr. Don Lybecker, CSU Professor of Agricultural Economics, Dr. Susan Hine, CSU Assistant Professor of Agribusiness Management, and three CSU students. I provided background and answered questions about crop production in western Colorado.

Participated in a meeting under the direction of the Director of the Colorado Agricultural Experiment Station to discuss policy for exclusive release of CSU dry bean cultivars, September 16, 1997, Fort Collins, CO. Those in attendance were administrators, faculty, and administrative professionals that are involved in dry bean research, breeding, and seed production at Colorado State University.

Attended Superintendent/Manager Conference, Colorado Agricultural Experiment Station, September 4-5, 1997, LaJunta/Rocky Ford, Colorado.

Participant in a meeting to discuss water issues from a Cooperative Extension perspective in western Colorado July 29, 1997, Montrose, Colorado.

1997 Upper Colorado Environmental Plant Center Advisory Meeting, July 17, 1997 in Meeker, Colorado.

Northwest Regional Meeting, Colorado State University Cooperative Extension, Ramada Inn, Grand Junction, Colorado, May 7, 1997. Slide presentation by Calvin Pearson about Experiment Station Research Centers.

Dryland Crop Rotations Opportunities for Northwest Colorado - Brainstorming Session, Craig, Colorado, March 20, 1997.

Alfalfa and Clover Seed Growers Meeting, March 12, 1997, West Gate Inn, Fruita, Colorado. Made comments to those in attendance about the challenges of producing alfalfa seed in western Colorado.

Dry Bean Production Growers Seminar, February 19, 1997, Olathe Community Center in Olathe, Colorado.

Agricultural Experiment Station Research Center Conference, February 11-12, 1997 in Fort Collins, Colorado.

Western Colorado Regional Research Center Advisory Committee Meeting, February 5, 1997, 6:00 - 9:30 p.m., Holiday Inn, Grand Junction, Colorado.

Colorado Hay and Forage Association Annual Meeting on January 10, 1997, Denver, Colorado. Comments to the group about current forage research being conducted at the Fruita Research Center.

Attended Mountain Meadows Research Center Field Day, June 27, 1996 at Gunnison, Colorado.

Attended Mountain Meadow Research Center Advisory Committee Meeting, February 27, 1996, Gunnison, Colorado.

Attended Agricultural Experiment Station Conference, February 19-21, 1996 in Fort Collins, Colorado.

Member of the selection committee for the Tri-River Area Cooperative Extension Agent Position for Soil and Crop Science, December 1994 - January 1995.

Participant in planning meeting of the Water Resources Task Group in preparation for the Strategic Plan for the Water Resources Program at Colorado State University December 11-12, 1995, Fort Collins, Colorado.

Participated in the Mountain Meadow Research Center Advisory Committee Meeting, February 22, 1995, Gunnison, Colorado.

Attended the Agricultural Experiment Station Conference, January 9-10, 1995, Fort Collins, Colorado.

Attended 24th Annual Colorado Crop Protection Institute, November 3-4, 1994, Fort Collins, Colorado. I attended this meeting to fulfill some of my continuing education requirements for my Colorado Department of Agriculture, Qualified Supervisor Pesticide Applicator's license.

Attended 1994 Field Day at the Agricultural Research, Development and Education Center, August 12, 1994, Fort Collins, Colorado.

At the request of our Department Head I rewrote the Foundation Seed Policy for CSU during 1994 and I chaired the committee that was convened to review the document (January 19, 1995).

Participated on the local selection committee for a Cooperative Extension irrigation position located at Delta, Colorado. Candidate interviews held June 22, 1994.

Attended and participated in the Department of Agronomy Faculty Retreat, January 13, 1994, Loveland, Colorado.

Attended Dry Bean Management Clinic, an intensive short course, January 5-7, 1994, Fort Collins, Colorado. Sponsored by Cooperative Extension.

Attended and participated in the discussion at the Western Premium Bean Seed Meeting, February 2, 1993, Friendship Hall, Montrose, Colorado.

Attended 3rd annual conference of the Department of Agronomy, Colorado State University, New Trends in Agronomy, January 12, 1993, Fort Collins, Colorado.

Participated in Agricultural Experiment Station Research Center Conference, December 14-15, 1992, Fort Collins, Colorado.

Attended West Slope Seed Conditioning Workshop in Montrose, Colorado on December 17, 1992.

Chaired Task Force on plant parasitic nematodes in Colorado for the Agricultural Experiment Station Director. Prepared written report on plant parasitic nematodes in Colorado, November 12, 1992.

Meeting with the Fruita Chamber of Commerce to discuss agriculture in Mesa County, November 1992.

Meeting with the Grand Junction Chamber of Commerce to discuss agriculture in Mesa County, November 18, 1992.

Member of the Foundation Seed Committee in the Department of Soil and Crop Sciences for many years.

Represented Colorado at the Regional W-150 meetings for the genetic improvement of dry beans for yield, pest resistance, and value held in Riverside, California, January 24-25, 1991.

Attended workshop on water quality in irrigated agriculture, January 16-17, 1991. Sponsored by Cooperative Extension and coordinated by Extension Agricultural Engineering. Colorado State University, Fort Collins, Colorado.

Attended the Colorado Seed Growers Association annual meetings, December 6, 1985, Denver; November 29-30, 1990, Denver; December 3-5, 1992. Estes Park, Colorado; November 30-December 1, 1995, Denver, Colorado.

Foundation Dry Bean Seed Meeting for managers of Foundation Dry Bean Seed Projects in the U.S. Hosted by Colorado Foundation Bean Seed Project, Calvin Pearson, meeting chairman., December 3, 1992, Estes Park, Colorado.

Meeting with Dr. Gerald Griffin, USDA-ARS nematologist, held in Logan, Utah to discuss alfalfa stem nematode problems in western Colorado, February 5, 1991.

Agricultural Experiment Station Research Center Conference, February 14-15, 1991, Fort Collins, Colorado.

Meeting with Delta County Commissioners to describe current agronomic research in western Colorado and to solicit funding for 1992, November 13, 1991.

Attended interviews of finalists and provided input for the Tri-River Area Cooperative Extension Agronomist position 1990.

Meeting of the Colorado Bean Seed Growers and seed dealers in the CDBAB, March 22, 1990, Montrose, Colorado.

Meeting with the Montrose County Commissioners to describe current agronomic research in western Colorado and to solicit funding for 1990, February 5, 1990.

Attended meeting on sweet corn production in the Grand Valley, February 12, 1990, Ramada Inn, Grand Junction, Colorado.

Committee meeting to review large basin releveling. May 15, 1990, Fruita Research Center, Fruita, Colorado.

Meeting regarding debt retirement and operation of the Foundation Dry Bean Project. Fruita Research Center staff and Department Head, June 30, 1990, Fruita, Colorado.

Foundation bean seed meeting for foundation seed managers of dry bean producing states in the U.S., December 12, 1990, Red Lion Inn, Boise, Idaho.

Attended and participated in an Agricultural Experiment Station Long-Range Planning Meeting. April 20, 1990, Fort Collins, Colorado.

Russian Wheat Aphid Research Planning Meeting, February 22, 1989, Fort Collins and June 15, 1989, Colorado Springs. The purpose of these meetings was to discuss research on Russian wheat aphid.

Branch Research Center Planning Conference, February 23-24, 1989, Fort Collins, Colorado.

The purpose of the conference was to develop a long-term research plan for a state-wide research effort.

Member and participant of the Russian Wheat Aphid Coordinating and Planning Committee, 1988.

Agricultural Experiment Station, Member of the Colorado Agricultural Initiative Research Centers Subcommittee, 1987.

Regional Research Center Concept Conference, November 19, 1986, Fort Collins, Colorado.

District 4 Seed Growers Meeting, November 19, 1990, Montrose; November 26, 1991, Delta; November 23, 1992, Montrose; November 23, 1993, Olathe; and November 11, 1994, Olathe, Colorado. During these meetings I present current information about dry bean foundation seed in Colorado and the operation of the Foundation Seed Project at the Fruita Research Center.



Fruita Research Center Advisory Committee meetings, February 6 and December 10, 1986, April 14, 1987, February 26 and December 3, 1990, February 12, 1991, February 18, 1992, February 24, 1993, and March 1, 1994, February 23, 1995, February 28, 1996, February 5, 1997, February 16, 1998, Fruita Research Center, Fruita, Colorado.

Provided assessments of job performance for several CSU employees in Cooperative Extension and faculty in other departments in the College of Agriculture. These individuals have been located both in on- and off-campus offices. I have been asked to evaluate several people each year for the past several years.

Secretary/Treasurer for the Water Users of the Park Estates Subdivision - 1992 to 1997.