

CURRICULUM VITAE
(as of 12/31/2022)

Name: Leonard Marshall Lauriault

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Education: M.S. in Crop Science, University of Kentucky, Lexington, KY. May 1989.
Thesis: The effect of thiamin supplementation on the ingestive behavior of beef cattle grazing endophyte-infected tall fescue (*J. Anim. Sci.* 68(1989):1245-1253).

B.S. in Agriculture, Berea College, Berea, KY. May 1980.

Employment Record:

Forage Crop Management Scientist (since January 1997) and Superintendent of the Rex E. Kirksey Agricultural Science Center at Tucumcari (since July 2012; also, Research Coordinator since July 2022). College Professor, July 2009 to Present; College Associate Professor, July 2004 to June 2009; College Assistant Professor, January 2002 to June 2004; Agricultural Science Specialist, January 1997 to December 2001. New Mexico State University College of Agricultural, Consumer and Environmental Sciences Department of Plant and Environmental Sciences. Las Cruces, NM.

Research Specialist, Forage Cultivar Evaluationist. July 1990 to December 1996. University of Kentucky College of Agriculture Department of Agronomy, Lexington, KY.

Area Regulatory Specialist. November 1989 to July 1990. University of Kentucky College of Agriculture Division of Regulatory Services, Lexington, KY.

Principal Laboratory Technician, Forage Management and Utilization. October 1980 to November 1989. University of Kentucky College of Agriculture Department of Agronomy, Lexington, KY.

Teaching and Field Assistant, Soil and Plant Science Laboratory and Berea College Forest. February 1978 to May 1980. Berea College Labor Program. Berea College Department of Agriculture, Berea, KY.

Awards and Honors:

ACSESS Journals - Agronomy Journal, Invitation to serve on publications Peer Review Advisory Committee (December 6, 2022).

Quay County 4-H Program, Quay County 4-H Volunteer of the Year (December 4, 2022).

Crop, Forage & Turfgrass Management Outstanding Reviewer, American Society of Agronomy/Crop Science Society of America (March 1, 2021).

Charles Tharp Farms Distinguished Service Award, New Mexico State University College of Agricultural, Consumer and Environmental Sciences, 2014

Extension Advocate Award, New Mexico State University Extension Specialists Association, 2011

Editors' Citation for Excellence in Manuscript Review, American Society of Agronomy, 2006

Constancia por la exposicion de la Conferencia Magistral, XXV Congreso Nacional de Control Biologico, La Sociedad Mexicana de Control Biologico, November 15, 2002

Conservation Service Award, New Mexico Area Conservation Districts, Region V, 1998

Conservationist Award, Canadian River Soil and Water Conservation District, 1998

A. Paul Nestor Employee Creativity Award, Finalist, University of Kentucky, 1995

Professional Societies:

American Society of Agronomy, 2000 to present

American Forage and Grassland Council, 1990 to present, Certified Forage and Grassland Professional
Crop Science Society of America, 2005 to present, representative or alternate to Association of Official
Seed Certifying Agencies' National Alfalfa and Miscellaneous Legume Variety Review Board (2014 to
2021)

Society of Southwestern Entomologists, 2020 to present

Western Society of Crop Science, 2007 to present, Secretary/treasurer (2007-2009), President-Elect (2008-
2009), President (2009-2011), Past-President (2011-2013)

New Mexico Hay Association, 1997 to present, Ex-officio Director

**Publications and Presentations since coming to New Mexico State University (*Denotes
corresponding author; underline denotes student):**

Refereed Journal Articles from previous five years (36 publications from 1997-2017)

Darapuneni, M. K., **Lauriault, L. M.**, Martinez, G., Idowu, O. J., Djaman, K. (2022). Yield potential and
water use efficiency of alternate rotation crops in the semiarid environment of southwestern USA.
Applied Engineering in Agriculture, 38(6), 845-851. <https://doi.org/10.13031/aea.15030>.

Umesh, M. R., Angadi, S., Begna, S., Gowda, P. H., Hagevoort, G. R., **Lauriault, L. M.**, Darapuneni, M. K.
(in press). Intercropping and species interactions on physiological and light use characteristics of
forage cereals-legumes combinations in semi-arid regions. *To appear in Field Crops Research*.

Lauriault, L. M., Marsalis, M. A., Cox, S. H., Duff, G. C. (2022). Seasonal mass, performance under
grazing, and animal preference for irrigated winter cereal forages under continuous stocking in a
semiarid, subtropical region. *MDPI Grasses*, 1(1), 1-11. 10.3390/grasses1010001.

Pratt, R. C., Grant, L., Velasco-Cruz, C., **Lauriault, L. M.** (2022). Field performance of selected and
landrace tepary bean varieties in diverse Southwestern USA irrigated production environments.
Legume Science, 4(157), 1-8. <http://doi.org/10.1002/leg3.157>.

Lauriault, L. M., Pietrasiak, N., Darapuneni, M. K., Dominguez, A., Martinez, G. K. (2022). Comparison of
surface water or treated municipal wastewater irrigation on alfalfa establishment, soil fertility, and soil
microbial conditions. *MDPI Soil Systems*, 6(67), 1-15. <https://doi.org/10.3390/soilsystems6030067>.

Lauriault, L. M., Guldán, S. J., Popiel-Powers, F., Steiner, R. L., Martin, C. A., Falk, C. L., Petersen, M.,
May, T. (2022). Relay intercropping winter cover crop effects on spring forage potential of sweet maize
stover and yearling cattle performance. *MDPI Animals Special Issue: Warm- and Cool-Season Annual
Pastures for Growing Ruminants in Semiarid Regions*, 12(1923), 1-10.
<https://doi.org/10.3390/ani12151923>.

Lauriault, L. M., Schmitz, L. H., Cox, S. H., Duff, G. C., Scholljegerdes, E. J. (2022). A comparison of
native grass and triticale pastures during late winter for growing cattle in semiarid regions. *MDPI
Agronomy Special Issue: Management of Grasslands - Forage Growth and Nutritive Composition,
Livestock Grazing and Performance*, 12(545), 1-10. 10.3390/agronomy12030545.

Darapuneni, M. K., Idowu, O. J., Sarihan, B., Dubois, D. W., Grover, K., Sanogo, S., Djaman, K., **Lauriault,
L. M.**, Omar, M., Dodla, S. (2021). Growth characteristics of summer cover crop grasses and their
relation to soil aggregate stability and wind erosion control in arid Southwest. *ASABE Applied
Engineering in Agriculture*, 37, 11023. <https://doi.org/10.13031/aea.13972>

Djaman, K., O'Neill, M. K., **Lauriault, L. M.**, Marsalis, M. A., Koudahe, K., Darapuneni, M. K. (2021). The
dynamics of forage yield of different fall dormancy rating alfalfa cultivars in a semiarid climate.

- Agricultural Research/Springer Publishing*, 10(1), 378-389.
<https://link.springer.com/article/10.1007/s40003-020-00518-8>.
- Kankarla, V., Shukla, M. K., **Lauriault, L. M.*** (2021). A preliminary report on the influence of various saline irrigation waters on nutritive value upon establishment of alfalfa and triticale as representative forages. *East African Scholars Journal of Agricultural and Life Sciences*, 4(9), 189-193.
<https://easpublisher.com/get-articles/2414>
- Lauriault, L. M.**, Darapuneni, M. K. (2021). Alfalfa rotation strategy and soil type influence soil characteristics and replanted alfalfa yield in the irrigated semiarid, subtropical southwestern USA. *MDPI Crops*, 1, 141-152. <https://doi.org/10.3390/crops1030014>
- Lauriault, L. M.**, Schmitz, L. H., Cox, S. H., Scholljegerdes, E. J. (2021). A comparison of pearl millet and sorghum-sudangrass pastures during the frost-prone autumn for growing beef cattle in semi-arid regions. *MDPI Agriculture*, 11, 541. doi.org/10.3390/agriculture11060541
- Beck, L. L., Marsalis, M. A., **Lauriault, L. M.**, Serena, M. (2020). Efficacy of various herbicides for the control of perennial *Plantago* spp. and effects on alfalfa damage and yield in alfalfa. *MDPI Agronomy* (10), 1710. doi:10.3390/agronomy10111710
- Darapuneni, M. K., Hergert, G. W., Bradshaw, J. D., Wilson, R., Aqeel, A., Harveson, R., Nielsen, R., **Lauriault, L. M.** (2020). Agronomic utilization of precipitated calcium carbonate - effect of PCC on sugar beet root aphid control and herbicide dose response of *Ko chia* grown on PCC piles. *MDPI Agronomy*, 10(537), 11. <https://doi.org/10.3390/agronomy10040537>
- Darapuneni, M. K., **Lauriault, L. M.**, VanLeeuwen, D. M., Angadi, S. V. (2020). Influence of irrigation regimes on influenced alfalfa dry matter yield and water productivity in a semiarid subtropical environment. *Irrigation and Drainage*, 69(5), 1063-1071. <https://doi.org/10.1002/ird.2490>
- Ibrahim, M., Jameel, M., Ul Haq, T. R., Nadeem, M. M., Rehmani, M. I. A., Abbas, A. N., Ahmad, S., Shabir, M. A., Iqbal, M. M., **Lauriault, L. M.*** (2020). The influence of integrated organic and inorganic fertilizers on forage yield and nutritive value of maize and soil properties. *East African Scholars Journal of Agriculture and Life Sciences*, 3, 383-388. doi: 10.36349/easjals.2020.v03i12.001
- Lauriault, L. M.**, Marsalis, M. A., Groesbeck, J. (2020). Revisiting alfalfa planting dates for the semiarid U.S. Southwest. *Agronomy Journal*, 112, 2006-2019. <https://doi.org/10.1002/agj2.20169>
- Lauriault, L. M.**, Puppala, N. (2020). Late-season forage harvest effects on pod and forage components of Valencia market type peanut. *Peanut Science*, 47, 66-71. <https://doi.org/10.3146/PS20-6.1>
- Lauriault, L. M.**, Shields, E. J., Testa, A. M., Porter, R. P. (2020). Persistence of select introduced entomopathogenic nematodes in the US Southwest as potential biological control for whitefringed beetle in alfalfa. *Southwestern Entomologist*, 45, 41-50. <https://doi.org/10.3958/059.045.0104>
- Lauriault, L. M.**, Waldron, B. (2020). Genotype and planting date influence *Bassia prostrata* in a semiarid, subtropical, dry winter region. *MDPI Agronomy*, 10: Special Issue - Breeding and Genetics of Forages for Semi-Arid and Arid Rangelands (251), 11. <https://doi.org/10.3390/agronomy10020251>
- Marsalis, M. A., **Lauriault, L. M.**, Darapuneni, M. K. (2020). Perennial cereal rye performance and comparisons with winter annual cereal forages in the semiarid, subtropical southwestern United States. *Crop Science*, 60, 507-514. <https://doi.org/10.1002/csc2.20069>
- Darapuneni, M. K., Idowu, O. J., **Lauriault, L. M.**, Dodla, S., Pavuluri, K., Ale, S., Grover, K., Angadi, S. (2019). Tillage and nitrogen rate effects on corn production and residual soil characteristics. *Agronomy Journal*, 111(3), 1524-1532.
- Darapuneni, M. K., **Lauriault, L. M.**, Angadi, S. (2019). Alfalfa termination strategies determine subsequent wheat and haygrazer forage yield and nutritive value. *Crop, Forage, and Turfgrass Management*, 5(1)(190034).

- Darapuneni, M. K., **Lauriault, L. M.**, Idowu, O. J., Grover, K., Djaman, K., Angadi, S. (2019). Temporal variations in plant and soil characteristics following a single strip-till manure application. *Soil & Tillage Research*, 194(104350), 1-9.
- Darapuneni, M. K., Angadi, S., Umesh, M., Contreras-Govea, F., Annadurai, K., Begna, S., Marsalis, M. A., Cole, A., Gowda, P., Hagevoort, G. R., **Lauriault, L. M.** (2018). Canopy development of annual legumes and forage sorghum intercrops and its relation to dry matter accumulation. *Agron. J.*, 110, 939-949.
- Lauriault, L. M.**, Guldán, S. J., Popiel-Powers, F., Steiner, R. L., Martin, C. A., Heyduck, R., Falk, C. L., Petersen, M., May, T. (2018). Relay intercropping with cover crops improved autumn forage potential of sweet maize stover. *MDPI Agriculture*, 8, 103. doi:10.3390/agriculture8070103.

Peer-reviewed New Mexico State University Agricultural Experiment Station Publications (9 publications from 1997-2017)

- Lauriault, L. M.**, Pratt, R. C., Grant, L. (2020). *BL 810, Forage nutritive value of selected tepary bean varieties in the Southwest Desert Basin and Southern High Plains regions of New Mexico* (pp. 8). Las Cruces, NM: Agricultural Experiment Station and Cooperative Extension Service, New Mexico State University. <https://aces.nmsu.edu/pubs/research/agronomy/BL810.pdf>

Peer-reviewed New Mexico State University Cooperative Extension Service Publications (24 publications from 1997-2017)

- Sutherland, C. A., Skidmore, A., **Lauriault, L. M.***, Marsalis, M. A., Pierce, J. B. (2022). *Circular 659 (revision), Whitefringed Beetle in New Mexico Alfalfa* (pp. 8 pp). Las Cruces, NM: Agricultural Experiment Station and Cooperative Extension Service, New Mexico State University. <https://pubs.nmsu.edu/circulars/CR659/index.html>.
- Marsalis, M. A., **Lauriault, L. M.**, Gifford, C. A. (2020). *CR695, Forage selection and establishment for irrigated pastures and hay in New Mexico* (pp. 12 pages). Las Cruces, NM: Agricultural Experiment Station and Cooperative Extension Service, New Mexico State University. https://aces.nmsu.edu/pubs/_circulars/CR695.pdf.
- Marsalis, M. A., **Lauriault, L. M.** (2020). *CR696, Perennial forage species for irrigated pastures and hay in New Mexico* (pp. 12 pages). Las Cruces, NM: Agricultural Experiment Station and Cooperative Extension Service, New Mexico State University. https://aces.nmsu.edu/pubs/_circulars/CR696.pdf.
- Marsalis, M. A., **Lauriault, L. M.** (2020). *CR697, Annual forage species for irrigated pastures and hay in New Mexico* (pp. 8 pages). Las Cruces, NM: Agricultural Experiment Station and Cooperative Extension Service, New Mexico State University. https://aces.nmsu.edu/pubs/_circulars/CR697.pdf
- Lauriault, L. M.**, Marsalis, M. A., Ward, M. A. (2018). *Circular 586 (major revision), Irrigated pasture management in New Mexico*. Las Cruces, NM: Agricultural Experiment Station and Cooperative Extension Service, New Mexico State University. http://aces.nmsu.edu/pubs/_circulars/CR586.pdf.
- Lauriault, L. M.**, Thompson, D., Pierce, J., Bennett, A., Schutte, B., Beck, L., Sutherland, C., Jimenez, D., Hamilton, W. (2018). *Circular 600 (major revision), Managing Aceria malherbae gall mites for control of field bindweed* (pp. 12). Las Cruces: New Mexico State University. http://aces.nmsu.edu/pubs/_circulars/CR600.pdf.

Publications while at the University of Kentucky, 1986-1996: 19 Refereed Journal Articles and 40 University of Kentucky Agricultural Experiment Station Research Reports and Cooperative Extension Service Publications, including forage variety test reports.