

Rodney K. Heitschmidt - Refereed Journal Articles at Vernon

1. Heitschmidt, R. K. 1979. Relative annual broomweed abundance as related to selected climatic factors. *Journal of Range Management* 32:401-403.
2. Heitschmidt, R. K., Kothmann, M. M., and Rawlins, W. J. 1982. Cow-calf response to stocking rates, grazing systems and winter supplementation at the Texas Experimental Ranch. *Journal of Range Management* 35:204-210.
3. Heitschmidt, R. K., Price, D. L., Gordon, R. A., and Frasure, J. R. 1982. Short duration grazing at the Texas Experimental Ranch: Effects on aboveground net primary production and seasonal growth dynamics. *Journal of Range Management* 35:367-372.
4. Heitschmidt, R. K., Gordon, R. A., and Bluntzer, J. S. 1982. Short duration grazing at the Texas Experimental Ranch: Effects on forage quality. *Journal of Range Management* 35:372-374.
5. Heitschmidt, R. K., Frasure J. R., Price, D. L., and Rittenhouse, L. R. 1982. Short duration grazing at the Texas Experimental Ranch: Weight gains of growing heifers. *Journal of Range Management* 35:375-379.
6. Heitschmidt, R. K. 1982. Diurnal variation in weight and rates of shrink of range cows and calves. *Journal of Range Management* 35:717-720.
7. Whitson, R. E., Heitschmidt, R. K., Kothmann, M. M., and Lundgren, G. K. 1982. The impact of grazing systems on the magnitude and stability of ranch income in the Rolling Plains of Texas. *Journal of Range Management* 35:526-532.
8. Heitschmidt, R. K., and Schultz, R. D. 1985. Effects of drought on a grassland in the northern Rolling Plains of Texas. *SW Naturalist* 30:319-320.
9. Walker, J. W., Heitschmidt, R. K., and Dowhower, S. L. 1985. Evaluation of pedometers for measuring distance traveled by cattle on two grazing systems. *Journal of Range Management* 38:90-93.
10. Walker, J. W., Stuth, J. W., Heitschmidt, R.K., and Dowhower, S. L. 1985. A new esophageal plug. *Journal of Range Management* 38:185-187.
11. Price, D. L., Heitschmidt, R. K., Dowhower, S. A., and Frasure, J. R. 1985. Rangeland vegetation response following control of brownspine pricklypear (*Opuntia phaeacantha*) with herbicide. *Weed Sci.* 33:630-633.
12. Heitschmidt, R. K., Schultz, R. D., and Scifres, C. J. 1986. Herbaceous biomass dynamics and net primary production following chemical control of honey mesquite. *Journal of Range Management* 39:67-71.
13. Walker, J. W., and Heitschmidt, R. K. 1986. Effect of various grazing systems on type and density of cattle trails. *Journal of Range Management* 39:428-431.

14. Heitschmidt, R. K., Dowhower, S. L., and Walker, J. W. 1987. 14- vs. 42-paddock rotational grazing: aboveground biomass dynamics, forage production, and harvest efficiency. *Journal of Range Management* 40:216-223.
15. Heitschmidt, R. K., Dowhower, S. L., and Walker, J. W. 1987. 14- vs. 42-paddock rotational grazing: forage quality. *Journal of Range Management* 40:315-317.
16. Heitschmidt, R. K., Dowhower, S. L., and Walker, J. W. 1987. Some effects of a rotational grazing treatment on quantity and quality of available forage and amount of ground litter. *Journal of Range Management* 40:318-321.
17. Pluhar, J. J., Knight, R. W., and Heitschmidt, R. K. 1987. Infiltration rates and sediment production as influenced by grazing systems in the Texas Rolling Plains. *Journal of Range Management* 40:428-431.
18. Van Tassell, L. W., Heitschmidt, R. K., and Conner, J. R. 1987. Modeling variation of range calf growth under conditions of environmental uncertainty. *Journal of Range Management* 40:310-314.
19. Greene, L. W., Pinchak, W. E., and Heitschmidt, R. K. 1987. Seasonal dynamics of minerals in forages at the Texas Experimental Ranch. *Journal of Range Management* 40:502-506.
20. Heitschmidt, R. K., Ansley, R. J., Dowhower, S. L., Jacoby, P. W., and Price, D. L. 1988. Some observations from the excavation of honey mesquite root systems. *Journal of Range Management* 41:227-231.
21. Pieper, R.D. & R.K. Heitschmidt. 1988. Is short-duration grazing the answer? *Journal of Soil & Water Conservation*. 43:133-137.
22. Heitschmidt, R. K., Dowhower, S. L., Pinchak, W. E., and Canon, S. K. 1989. Effects of stocking rate on quantity and quality of available forage in a southern mixed grass prairie. *Journal of Range Management* 42:468-473.
23. Pinchak, W. E., Greene, L. W., and Heitschmidt, R. K. 1989. Mineral dynamics in beef cattle diets from a southern mixed grass prairie. *Journal of Range Management* 42:431-433.
24. Price, D. L., and Heitschmidt, R. K. 1989. Reductions in belowground biomass estimates from freezing of soil cores. *Plant & Soil* 116:273-274.
25. Riechers, R. K., Conner, J. R., and Heitschmidt, R. K. 1989. Economic consequences of alternative stocking rate adjustment tactics: a simulation approach. *Journal of Range Management* 42:165-171.
26. Walker, J. W., Heitschmidt, R. K., and Dowhower, S. L. 1989. Some effects of a rotational grazing treatment on cattle preference for plant communities. *Journal of Range Management* 42:143-148.

27. Walker, J. W., Heitschmidt, R. K., de Moraes, E.A., Kothmann, M. M., and Dowhower, S. L. 1989. Quality and botanical composition of cattle diets under rotational and continuous grazing treatments. *Journal of Range Management* 42:239-242.
28. Walker, J. W., and Heitschmidt, R. K. 1989. Some effects of a rotational grazing treatment on cattle grazing behavior. *Journal of Range Management* 42:337-342.
29. Walker, J. W., Stuth, J. W., and Heitschmidt, R. K. 1989. A simulation approach for evaluating field data from grazing trials. *Agricultural Systems* 30:301-316.
30. Heitschmidt, R. K., Conner, J. R., Canon, S. K., Pinchak, W. E., Walker, J. W., and Dowhower, S. L. 1990. Cow/calf production and economic returns from yearlong continuous, deferred rotation and rotational grazing treatments. *Journal of Production Agriculture* 3:92-99.
31. Heitschmidt, R. K., Briske, D. D., and Price, D. L. 1990. Patterns of interspecific tiller defoliation in a mixed grass prairie grazed by cattle. *Grass For. Sci.* 45:215-222.
32. Pinchak, W. E., Canon, S. K., Heitschmidt, R. K., and Dowhower, S. L. 1990. Effect of long-term, year-long grazing at moderate and heavy rates of stocking on diet selection and forage intake dynamics. *Journal of Range Management* 42:304-309.
33. Carlson, D. H., Thurow, T. L., Knight, R. W., and Heitschmidt, R. K. 1990. Effect of honey mesquite on the water balance of Texas Rolling Plains rangeland. *Journal of Range Management* 43:491-496.
34. Heitschmidt, R. K., and Dowhower, S. L. 1991. Herbage response following control of honey mesquite within single tree lysimeters. *Journal of Range Management* 44:144-149.
35. McKown, C. D., Walker, J. W., Stuth, J. W., and Heitschmidt, R. K. 1991. Nutrient intake of cattle on rotational and continuous grazing treatments. *Journal of Range Management* 44:596-601.
36. Heitschmidt, R. K., and Walker, J. W. 1996. Grazing management: technology for sustaining rangeland ecosystems? *Rangeland Journal* 18:194-215.
37. Weltzin, J. F., Archer, S., and Heitschmidt, R. K. 1997. Small-mammal regulation of vegetation structure in a temperate savanna. *Ecology* 78:751-763.
38. Weltzin, J. F., Dowhower, S. L., and Heitschmidt, R. K. 1997. Prairie dog effects on plant community structure in Southern mixed-grass prairie. *Southwestern Naturalist* 42:251-258.
39. Weltzin, J. F., Archer, S. R., and Heitschmidt, R. K. 1998. Defoliation and woody plant (*Prosopis glandulosa*) seedling regeneration: potential vs. realized herbivory tolerance. *Plant Ecology* 138:127-135.