

## Resources

**I**t's surprising what you'll pick up from a book or tape the second or even third time you read or view it, especially if you study and then go out and work stock in between.

Buy the Williams videotape, read the literature available, and attend the Bud Williams Stockmanship School. This school is likely the best training you'll ever attend anywhere. Watch his tape, read, and practice before going to a school if you can. If you have an interest in his stockmanship schools or want to purchase videotapes, call Eunice Williams at 940-934-6521 or email [Eunice@stockmanship.com](mailto:Eunice@stockmanship.com). Web page: [www.Stockmanship.com](http://www.Stockmanship.com)

### Articles in *Patterns of Choice* and on the web

#### **Range productivity, rest, and desertification**

Allan Savory with Jody Butterfield, *Holistic Management: A New Framework for Decision Making* (Island Press, 1999). See also [www.holisticmanagement.org](http://www.holisticmanagement.org)

#### **From Savory CTR's website**

Nothing has generated as much controversy in the development of holistic management as the use of large herding animals as a tool in land restoration and management, though in recent years the controversy has subsided.

Early references to the positive role of animals, at least in pasture management, are contained in the writings of Andre Voisin, *Grass Productivity*, first published in 1959 (and reprinted by Island Press, Covelo, California, 1988) and *Better Grassland Sward*, 1960, both Crosby Lockwood & Son Ltd., London.

#### **Beneficial effects of large herbivores**

Bell, Richard. 1971. "A Grazing Ecosystem in the Serengeti," *American Scientist*, vol. 225, no. 1, 86-93.

Davies, William, 1938. "Vegetation of Grass Verges and Other Excessively Trodden Habitats," *Journal of Ecology*, vol. 6, 38-49.

Geist, Valerius. 1974. "On the Relationship of Social Evolution and Ecology in Ungulates," *American Zoologist*, vol. 14, 205-220.

## Resources

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Gordon, Iain, and Patrick Duncan. 1988. "Pastures New for Conservation," *New Scientist*, vol. 117, no. 1604, 54-59.

McNaughton, S.J., M.B. Coughenour and L.L. Wallace. 1982. "Interactive Processes in Grassland Ecosystems," *Grasses and Grasslands: Systematics and Ecology*. Norman: University of Oklahoma Press, 167-193.

McNaughton, S.J. 1984. "Grazing Lawns: Animals in Herds, Plant Form, and Coevolution," *The American Naturalist*, vol. 124, no. 6, 863-883.

McNaughton, S.J. 1979. "Grazing as an Optimization Process: Grass-Ungulate Relationships in the Serengeti," *The American Naturalist*, vol. 113, no. 5, 691-703.

McNaughton, S.J., F.F. Banyikwa, and M. M. McNaughton. 1997. "Promotion of the Cycling of Diet-Enhancing Nutrients by African Grazers," *Science*, vol. 278, 1798-1800.

Paige, Ken and Thomas Whitham. 1987. "Overcompensation in Response to Mammalian Herbivory: The Advantage of Being Eaten," *American Naturalist*, vol. 129, 407-416.

Bell and McNaughton, in particular, draw attention to the importance of large herding ungulates on the grasslands of East Africa (largely brittle environments). In all cases, unfortunately, the role of herd behavior and predation was missed. McNaughton theorizes that the herding ungulates, in some manner, learned that their concentration produced a more palatable form on the grass plants upon which they fed and thus the herding/moving pattern developed.

Allan Savory, on the other hand, suggests that predators produce the tendency to concentrate, and that concentrated dung and urine deposition

produces the tendency for animals feeding close to the ground to move. Where large predators have been removed, their prey remains scattered more often and more widely and become more static. Scientists are already beginning to understand the co-evolution of herding herbivores and grasslands and will undoubtedly also come to understand that predators were vital components too.

The research of Iain Gordon and Patrick Duncan indicates that the impact of large herbivores is greater than we realized, even in less brittle environments. They report the loss of species diversity in European wetlands with the removal of livestock.

### Horse handling

Ed Techick, *77 Years with Horses*, videotape series 2001. Stockman Films, Arco, Idaho 83213; phone 208-527-3182.



Ed Techick and "Latigo".

Francois Lemaire deRuffieu, *The Handbook of Riding Essentials* (Harper & Row, Publishers, New York, 1986)

Charles O. Williamson, *Breaking and Training the Stockhorse (and teaching basic principles of dressage)* (Caldwell, Idaho, Caxton Printers Ltd., 1992).