CONTENTS

Features

262 Pesticides, common sense, and groundwater
Keith D. Bjerke suggests that producers should accept the responsibility to protect the quality of groundwater or face the consequences

263 Mr. Secretary, I would like to know...
Secretary of Agriculture Clayton Yeutter answers questions from members of the Soil and Water Conservation Society

267 Is cumulative watershed effects analysis coming of age?
John Coburn explains how this controversial process might be the key to the long-term maintenance of water quality and sustained yield in the many forests

271 Furrow diking to conserve water
B. L. Harris and J. H. Krishna review the history and benefits of furrow diking in the Texas High Plains

274 Fuel from crops: Economic and environmental issues
Gerard E. D'Souza, Anwarul Hogue, and Charles E. Bohac analyze the potential hazards of increasing crop production to produce fuel ethanol

279 Approximate original contour reclamation: An alternative in steep-slope terrains
Carl E. Zipper, W. Lee Daniels, and James C. Bell summarize the results of an experimental variance to the approximate original contour requirements of the federal surface mining law

284 Informing teachers about natural resource management issues
James L. Kramer outlines a program of the North Dakota Lignite Council to educate teachers about coal mining and reclamation

286 Soil bioengineering for streambank protection
Robert E. Kohnke and Anna K. Boller look at the use of live woody plant cuttings with bioengineering to solve streambank erosion problems

288 Cooperative leadership in waste management
Dawn W. Genes and Archie J. Gaul tell how a local community consortium worked to develop a method of composting fish by-products

290 Does short-duration grazing work in arid and semiarid regions?
F. C. Bryant, B. E. Dahl, R. D. Pettit, and C. M. Britton draw some useful conclusions about short-duration grazing based on research and rancher experience in the Southwest

294 Short-duration grazing: Experiences from the Edwards Plateau region in Texas
Charles A. Taylor, Jr., offers more recommendations on grazing management based on research in West Texas

Commentary

303 Informed opinion: Filling the soil erosion data gap
H. E. Dregne calls for use of an expert opinion system to estimate the extent and severity of soil erosion’s impact on crop productivity
Research Reports

317 Private public-interest land use planning: Land trusts in the upper Midwest
Pamela E. Foti and Harvey M. Jacobs

320 Conservation production systems with and without grass barriers in the northern Great Plains
J K. Ase and L. L. Reitz

323 Soil erosion and nonpoint-source pollution control in an Idaho watershed
Tony Prato, Hong-Qi Shi, Ron Rhew, and Merlyn Brusven

328 Relationship of landscape position and properties to crop production
A. J. Jones, L. N. Mielke, C. A. Bartles, and C. A. Miller

332 Re-examination of the off-site costs of wind erosion in New Mexico
Steven Piper and Paul C. Huszar

334 Estimating the off-site benefits from a reduction in wind erosion and the optimal level of wind erosion control: An application in New Mexico
Steven Piper

339 The on-site costs of wind erosion on farms in New Mexico
Bob Davis and Gary Condra

344 Comparisons of grazing systems in Wyoming
Richard H. Hart, Marilyn J. Samuel, J. W. Waggoner, Jr., and M. A. Smith

347 Vegetation characteristics and soil loss by wind
T.A.M. van de Ven, D. W. Fryrear, and W. P. Spaan

349 The probability of precipitation and the crop-yield, soil-depth function
Angelos Pagoulatos

351 Soil displacement in stump-uprooting equipment trials on a root rot-infested cutover
R. B. Smith and E. F. Wiss

Departments

260 The SWCS view
261 Pen points
307 In the news
313 Professional services & classifieds
314 Upcoming
315 Books, etc.

Cover: Horses graze on lush range in the foothills of the Sierra Nevada, Kern County, California. Soil Conservation Service photo by Ron Nichols.