

Table of Contents

Foreword <i>J. E. Hairston and N. W. Buehring</i>	III
The tillage revolution and impact of conservation mandates in the Southern Region <i>G. B. Triplett</i>	1
Tillage selection: soil stewardship vs. financial survival <i>D. C. Ditsch, R. L. Trimble, and J. M. Wade</i>	5
Wildlife benefits from conservation tillage <i>R. W. Dimmick and W. G. Minser..</i>	9
No-till demonstrations in North Alabama <i>D. A. Mays, B. N. Bradford, and W. G. Bennett..</i>	13
Tillage practices on Kentucky cropland: The 1985 Food Security Act's effect <i>D. Ditsch and L. Murdock</i>	15
Conservation tillage cropping systems for the Texas Southern High Plains <i>J. W. Keeling, C. W. Wendt, J. R. Gannaway, A. B. Onken, W. M. Lyle, R. J. Lascano, and J. R. Abernathy</i>	19
Influence of long-term no-tillage on crop rooting in an Ultisol <i>W. L. Hargrove, J. E. Box, Jr., D. E. Radcliffe, J.W. Johnson, and C. S. Rothrock..</i>	22
Influence of long-term no-tillage on the physical properties of an Ultisol <i>M. H. Golabi, D. E. Radcliffe, W. L. Hargrove, E. W. Tollner, and R. L. Clark..</i>	26
Effect of traffic and tillage on mechanical impedance in a layered soil <i>D. E. Radcliffe, G. Manor, G. W. Langdale, R. L. Clark, and R. R. Bruce..</i>	30
Interseeding conservation system: compaction and plant response <i>A. Khalilian, C. E. Hood, J. H. Palmer, and F. Holbrook</i>	34
Nitrogen fertilizer requirements for corn with no-tillage and cropping systems <i>L. J. Oyer and J. T. Touchton</i>	38
Response of corn hybrids differing in root morphology to conservation tillage systems <i>R. C. Kingery, D. W. Reeves, and J. H. Edwards</i>	41
Influence of irrigation and conservation tillage on corn and soybean yields <i>F. M. Rhoads</i>	44

Cover cropping and N fertilization for no-tillage corn production in Mississippi <i>J. J. Varco and L. K. Marshall</i>	47
In-row and between-row subsoiling for sorghum doublecropped with winter grains grown in various tillage systems <i>J. T. Touchton and H. H. Bryant</i>	49
Grain sorghum and soybean rotations evaluated in conventional and no-till planting systems <i>J. R. Johnson, W. E. Stevens, and H. D. Palmertree..</i>	53
Soybean response to reduced tillage systems on selected soil resource areas <i>D. B. Reginelli, N. W. Buehring, N. C. Edwards, J. J. Varco, and M. A. Blaine..</i>	56
Yields of soybean cultivars with high cyst nematode levels as affected by tillage, crop rotation, and cultivar <i>J. H. Edwards. D. L. Thurlow and J.T. Eason</i>	62
Influence of tillage and lime on nutrition of soybeans doublecropped with wheat <i>S. M. Dabney</i>	65
Soybean-wheat doublecropping systems for the loessial terrace soils of northeast Louisiana <i>R. L. Hutchinson, T. R. Sharpe, and T. P. Talbot</i>	69
Net returns for soybean reduced tillage systems on three land resource areas <i>N. W. Buehring, S. R. Spurlock, N. C. Edwards, D.B. Reginelli, and M.A. Blaine</i>	72
Influence of tillage systems on wheat yields and the need for in-row subsoiling for doublecropped soybeans <i>R. R. Sharpe, J. T. Touchton, and D. W. Reeves</i>	76
Soybean-wheat intercropping response and effect on estimated net returns <i>M. A. Blaine, N. W. Buehring, J. G. Hamill, and D. B. Reginelli..</i>	79
Tillage Effects on Nutrient Loadings of Waterways <i>T. A. Dillaha, S. Mostaghimi, and C. D. Heatwole..</i>	83
Effect of hairy vetch, crimson clover, and rye cover crops on yield and quality of no-till flue-cured tobacco in North Carolina <i>T. Wiepke, A. D. Worsham, and R. W Lemons</i>	86