

RS 8/5/28  
Agricultural, Consumer, and Environmental Sciences  
Agricultural Engineering Department  
H. Paul Bateman Papers, 1870, 1918, 1942-94, 1997

Box 1:

Biographical, 1997  
Air Jet Metering System, Ohio State University, 1974, 1985, 1988  
Climatological Data, Urbana, Illinois, 1965-81  
Corn Moisture by Dates, 1974  
DeKalb - Diehl, Don, 1981  
Dickey-john, 1971-78  
"Taking a New Stand," n.d.  
Financial Assistance - Machinery Companies, Seed Germination Tests, 1975-76  
Frosted Corn, April 1976  
Funk Seeds - Armstrong, Jack, 1976-78  
    Soybean and Corn Germination Results from Funks, 1976  
    Soybean and Corn Germination Results from Funks, 1977  
Harris Grain Elevator, Harris, Illinois, 1970  
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Lanham, Frank, 1971, 1973  
Monitors, Warner Electric, Lovecamp, Cris, 1979  
Nitrogen Fertilizer, 1975  
Notes, Survey, 1942-46  
    Deere 7000 Conservation Planter Notes, 1978; Productivity Time Study, 1979; White Planters, 1980  
    Planter Study, 1981, 1982, 1983  
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    7000 Max Emerge 6 Row Wide, 8 Row Narrow and Wide and 12 Row Narrow Drawn Planters, n.d.  
    7100 Mounted Max Emerge Planters, n.d.  
    7000 4-Row Wide, 4 and 6 Row Narrow Max Emerge Conservation Planters, n.d.  
    Monitrol System, n.d.  
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Oliver, 540 4 and 6 Row Planter, 1966

- White, 5400 Plant Aire, 1974  
 White, 5100 Seed Boss Planter, 1980  
 Pioneer Seed Company, 1976-88  
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 Planters - Plateless Planter Population Percent of Farms, DeKalb Ag Research Results, 1951, 1979  
 Planters - Makes, Sizes and Types of Planters in Illinois (Deere Information), 1979  
 Plate Cell Fill, Seed Company Recommendations (Worn Planter), n.d.  
 Publications (Bateman) List, 1977  
 "The Effect of Full Load on Farm Machine Operating Economies," *Journal of American Society of Agricultural Engineers*, April 1943  
 "Effects of Basic Tillage Methods and Soil Compaction on Corn Production," *Ag Experiment Station Bulletin 645*, June 1959  
 (Paper Review) "Rotary Tillers and Moldboard Plow Performance," by AW Cooper, WR Gill, and CA Reeves, 1963  
 "Effect of Field Machine Compaction on Soil Physical Properties and Crop Response," *American Society of Agricultural Engineers v.6, no. 1*, 1963  
 (Paper) "Effect of Soil Density on the Energy Required and Soil Pulverization for the Plowing Operation," *American Society of Agricultural Engineers Cultural Practices Tillage Seminar, National Tillage Laboratory, Auburn, Alabama, March 10, 1964*  
 "Energy Required to Pulverize Soil at Different Degrees of Compaction," by Bateman, MP Naik, and RR Yoerger, *Journal of Agricultural Engineering Research*, v. 10, no. 2, October 1965  
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 "Planter Metering, Soil and Plant Factors Affecting Corn Ear Population," *Transactions of the American Society of Agricultural Engineers*, v. 15, no. 6, 1972  
 Reichenberger, Larry, *Farm Journal*, 1988  
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 Reports (Bateman):  
 Field Performance of John Deere Experimental Planters, prepared for John Deere Planter Works, Moline, Illinois, 1973  
 Field Performance of John Deere Experimental Max-Emerge Planters, prepared for John Deere Plow and Planter Works, 1974  
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 Field Performance of White Aire Planters, 1975 Models - 5400 Plant/Aire, prepared for White Farm Equipment Company, Oak Brook, Illinois, 1975

Box 2:

Reports (Bateman) cont:

- Field Performance Accuracy of Dickey-john Monitors, Report for 1974, 1975, 1976 Results, prepared for Dickey-john Corp., Auburn, Illinois, 1977
- Field Performance of John Deere Monitrol System, 1977 Results, prepared for Dickey-john Corp. and John Deere Plow and Planter Works, 1977-78
- Field Performance of John Deere 7000 Conservation Planters, 1978 Season, prepared for John Deere Plow and Planter Works, Moline, Illinois, 1978-79

Reports/Calculations (Bateman):

- Notes from owner survey, 1978
- 40: Hamilton, Robert and Barry, IHC 12-30" rows, 1977-78
- 117: Welsh, Joe, IHC Cyclo, 1977-78
- 250: Baugher, Richard, 1978
- 251: Compton, Gerald, 1978
- 252: Freese, Edward, 1978
- 253: Heap, Lowell, 1978
- 254: Johnson, Virgil, Deere Monitrol, 1978
- 255: Miller, Mark, 1978
- 300: Howell, Harold, IHC Dial-A-Rate, 1978
- 301: Berberich, Frank, 6-32" rows, 1978
- 302: Eddleman, RE, 4-32" rows, 1978
- 303: Miller, Ralph, 1978
- 304: Kelley, Steve, 1978
- 305: Butts, Charles, 1978
- 306: Shelton, Herschel, 1978
- 307: Arnold, Randy, 2-6 30" rows, 1978
- 308: McIntosh, William, 1978
- 309: Thomas, Ross, 6-30" rows, 1978
- 310: Summers, Thomas, 4-38" rows, 1978
- 311: Gallerin, Bill, 6-30" rows, 1978
- 312: Swartzentruber, Don, 4-36" rows, 1978
- 313: Streen, Harold, 4-38" rows, 1978
- 314: Stultz, burton, 6-30" rows, 1978
- 315: Rosenbaum, Jerry, 4-38" rows, 1978
- 316: Nice, Robert, 4-36" rows, 1978
- 317: Pearson, J.L., 1978
- 318: Morton, Lyon, 1978

- Deere Conservation Planter Report, Preface (original), 1978
- Part I and II, 1978
- Rough tables to prepare report preface and section I, 1978

Preliminary Report, July 1978  
 Summary analysis, 1978  
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 Dealer information, 1978  
 Farmers and Dealers report, 1978-79  
 Comments on Report, 1979  
 Planter Plans, 1979  
 Champaign County, IL, SW Conservation District, 1980-81  
 Time Distributions for Planting Operations, Deere Productivity Study (1979), prepared for John Deere Plow and Planter Works, Moline, Illinois, 1979-80  
 Summary Report, 1980  
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 Planter Field Performance for Planting Corn and Soybeans, Summary for White Planters, 1980 Season, prepared for John Deere Plow and Planter Works, Moline, Illinois, 1981  
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Box 3:

Reports (Bateman) cont.

Planter Field Performance for Planting Corn: New IHC 800s vs. Old IHC Cyclos, 1981 Study Results, prepared for John Deere Plow and Planter Works, Moline, Illinois, 1981-82  
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 Rohlfing, Lori, *Agriculture Alumni* article, 1991  
 Seed Coating to Improve Germination, 1979  
 Seed Germination, Dept. of Agriculture Results, 1979  
 Seed Weights per Pound Results, 1975  
 Soil Conservation No-Till Workshop, September 22, 1981  
 Soil Test Results, 1968-74  
 Soybean and Corn Germination study, 1975  
 Soybeans - Estimated Bushels of Soybeans Harvested at Various Moisture Percents, 1974-75

Sprayers, 1975

*Successful Farming* Report, "Machinery Trends of the 80's," 1979

*Successful Farming*, Performance of Metering and Placement Systems for Plate and Plateless Systems (for *Successful Farming*), 1976-78

Tillage, history of by Arnold Skromme, 1870, 1918, 1985-86, 1990

"Tillage Systems and the Agricultural Environment," Proceedings from Illinois Tillage Conferences, January-March 1989

Tractor Costs, 1957, n.d.

Jonathan Baldwin Turner Scholarship, 1981-90  
1990-94

Box 4:

Calculations for Reports (oversize/scrapbook box)

Soil Depth Test Calculations, arranged by Shallow, Medium and Deeper Settings  
(not used for a report), January 1976

Calculations to Compare Deere Max-Emerge with Conventional Systems for Percent  
of seeds that Produced Plants (not used in a report), January 1976

Deere Max-Emerge Tables and Figures, January 1976

Calculations for 1974 Deere Tables-Charts

Monitor Report for Dickey-john, February 3, 1977

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Deere Conservation Planter, 1978 Season

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