

Category	: International Rice Research Conference
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Keyword 1	: Water management
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Title of Entry	: Economics of Row Rice Production System in US
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Select only one type of presentation	: 15 minute oral presentation
Abstract	: Row rice (or furrow irrigated rice) is an upland rice production system that involves irrigating rice with furrows. As of 2016, Arkansas had about 2.7 percent (40,797 acre) of total rice production under row rice production. In 2017, the area under row rice is estimated to be 9 percent of total rice production. The objective of the paper is to compare the economics of the row rice production system with alternative rice production systems. There is currently very little information available about the economics of the row rice system, and it is imperative for producers to know the economics of this system before they get involved with it. Actual field trials for this system were conducted in 2016, and data with respect to production costs and net revenues are summarized and reported in this paper. The University of Arkansas 2016 Crop Enterprise Budgets are used to study profitability of rice under different production systems with emphasis on row rice. Economic data from 6 different row rice plots are compared with other production systems using data from four different producers. Producers #1 and #2 each had a control (conventional) field, whereas producers #3 and #4 had no control field. Producers provided production data sheets listing inputs, equipment used and timing of operations, and these data were used to develop crop budgets. Based on the 2016 results, the average fertilizer and nutrient cost for row rice is \$69.29 per acre higher when compared with other production systems. Likewise, the chemicals or herbicides average cost for row rice is \$84.89 per acre, which is relatively low when compared to conventional and Alternate Wetting and Drying (AWD) fields. Cost of herbicides used in weed management of row rice is higher when compared to straight and counter levee systems. The net returns to row rice have a variation from

a minimum of \$38.02 per acre to a maximum of \$208.42 per acre. The wide variation in net returns is attributed to variation in yields.

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