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### Evaluation of Five Garlic (*Allium sativum* L.) Varieties, Using Drip Irrigation

The performance and adaptation of five garlic varieties with the use of drip irrigation in Hermosillo Coast was evaluated. The varieties used were: Ampelo, Early California, Chino, Taiwan, and Rojo de Cuenca. All varieties were planted with a double row spacing between plants of 12 cm and 1 m between rows having an average population of 160,000 plants per hectare, with the exception of the Ampelo variety that was planted in single row with a separation of 20 cm between plants and 1 m between rows with a population of 50,000 plants per hectare. The results obtained indicate a significance level of 5%, that the "Chino" and "Ampelo" varieties, were the most yielding through the utilization of a drip irrigation system (1188.20 and 1070 gr/ p.u., respectively). Considering the variable diameter of the bulb, Ampelo variety resulted in the largest diameter (6.7 cm). In relation of varieties under flooding irrigation, "Chino" was the best (1117.5 gr / p.u.), but in the diameter of the Ampelo variety bulb was superior (6.2 cm.) In statistical analysis conducted on to the irrigation system used, the results indicated a significance level of 5%, that the varieties under drip irrigation system had superior performance over the varieties under flooding irrigation (1026.1 to 915.10 g / p.u.). Using drip irrigation all varieties had better bulb diameter (5.6 cm.) that normal (flooding) with an average of 5.2 cm.

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