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Evaluation of Four Garlic (*Allium sativum* L.) Varieties

During 2009, we studied under field conditions the behavior and adaptation of four garlic varieties, in Hermosillo Coast, Sonora., Mexico. The evaluated varieties were: Chinese, Perla, Morado Taiwan and Purple regional. All varieties were planted in double rows having an average population of 160,000 plants per hectare. This experiment was carried out in the Agricultural Experimental Station of the University of Sonora at Hermosillo, Mexico. The varieties were planted in double rows with plant spacing of 12 cm and a separation between rows of 1 meter. The evaluated varieties are the most used in the region of the Sonora River, being an optimal planting region for the successful growth and development of garlic cultivation. The results obtained in this study, indicates that there are statistical differences in ($P < .05$) the varieties that were evaluated, the Chinese and Pearl varieties surpassed the yield of Taiwan and regional Purple varieties (19.87 and 12.21 and 8.52 to 16,212 ton / Ha) respectively. The diameter of the bulb of the tested varieties showed no significant difference ($P > .05$) since the difference was just over 1 cm in diameter (6.5, 5.5, 5.0 and 5.1) respectively, so Chinese variety had a diameter of 6.5 and 5.0. Lowest diameter was the variety Taiwan. The yields and diameters obtained in this experiment indicate that with a population of 160,000 plants per hectare at 12 cm of separation between plants we can get good size and yield under climatic conditions of the Hermosillo Coast; Mexico.

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