

EVALUATION OF THE PHENOLOGICAL CYCLE OF AVOCADO (*PERSEA AMERICANA* MILL) CV. HASS IN THE IRRIGATED AREA OF SANTA ROSA-SAYÁN, PERU

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The objective of this work was to evaluate the phenological behavior of avocado cv. Hass under irrigation in Santa Rosa – Sayán. Eleven avocado trees 4.5 years old situated in the Horno Alto orchard were selected. In those trees, 4 branches of the same size and vigor were tagged, one on each side of the tree at the level of the medium part of the top. The following parameters were evaluated: Vegetative development determined both in the apical bud and in a lateral terminal bud; for that, only the vegetative shoot that grows over the developed inflorescence was considered. Reproductive development evaluated in the whole flower panicle developed from the apical bud and from a lateral terminal bud; the parameters quantified were length of flowering, fruit set and fruit development. Statistical analysis used was CRBD and for mean comparison of the treatments Duncan test ($\mu = 0.05$) was used. The results show that the vegetative development from indeterminate inflorescences presented a single cycle which occurred between 7 and 144 days after the initiation of growth (DAIG). Lateral growth also showed a single cycle, occurring between 29 and 112 DAIG. Regarding reproductive development, the flowering season lasted approximately one month and occurred between 64 and 91 DAIG at the same time that vegetative flush. Fruit set occurred between 79 and 137 DAIG. Fruit growth occurred intensely between 122 and 184 DAIG and declined notably afterwards although it continued until evaluations were finished.