

**Title** Postharvest Damage and Some Physical Properties of Fresh Longan  
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### **Abstract**

This research was to determine the postharvest damage and some physical properties of fresh longan. Methodology comprised sampling of fresh longan packaged in distribution packaging at the two big open markets of Thailand (Tai and Sri Moommeng). The damage of packaged longan was analyzed. Physical properties of dimension, sphericity, specific gravity, packing density, angle of repose, porosity and coefficient of friction were determined. Results showed that the postharvest damage of packaged fresh longan included drop, crack, deformed, bruise, punctures, black due to sulfur treatment and decay. The maximum damage ranging from 18.6-19.0% happened at the top container of the rearside of the truck. Majority of the damage was attributed by drop. The large, medium, small longan was designated by the diameter of 27.2-29.5 mm, 29.5-34.3 mm, and greater than 34.3 mm, respectively. Sphericity, specific gravity, angle of repose and porosity were 0.91, 1.097, 26 degree, 42.6% respectively. Packing density for the trapezoidal, rectangular and truck bed packaging was 0.375, 0.346 and 0.486 respectively. Static coefficient of friction on various contacting surfaces (e.g. plywood, steel, stainless steel, plastic) was 0.39, 0.478, 0.321 and 0.312 respectively.