## DIFFERENCES BETWEEN EXTINCT MASTODONS AND MAMMOTHS American mastodon Mammoths Mammut americanum For example, Mammuthus primigenius BODY 1. Unknown. The possibility exists 1. Long hair, dense underwool; skin COVERING that body covering included thickness similar to that of living underfur and long hair elephants; subcutaneous fat up to 9.0 cm $(3^{1}/2 \text{ in})$ thick SKELETON 1. On the whole, stockier. 1. More delicately built with heavier frame 2. Head and shoulders are 2. Head and shoulders are slightly above hindquarters much above hindquarters 3. More thoracic vertebrae 3. Fewer thoracic vertebrae (20-21 pairs) (18-20 pairs) CRANIUM 1. Flattened on top and bottom 1. Flattened on front and (low-domed) back (high-domed) 2. Borders of eye socket are rounder 2. Borders of eye socket are squarer 3. Tusks project slightly below 3. Tusks project much below horizontal, curve outward horizontal, curve outward and then inward and then much more inward MANDIBLE 1. Elongated 1. Shortened (brevirostry) 2. Sometimes possess a pair of 2. No incisors (see under incisors (tusks) at front dentition) DENTITION 1. Nipple-like chewing surface 1. Flat chewing surface (bunodont, adapted for browsing) with ridges (lophodont, adapted for grazing) 2. Low-crowned (brachyodont) 2. High-crowned (hypsodont) 3. Crown without or with very 3. Crown with much cement little bonding material (cement) 4. Thicker enamel 4. Thinner enamel 5. Fewer ridges per a given length 5. High Laminary Index (low Laminary Index) 6. Dental formula is: 6. Dental formula is: 1033 1033 1033 — or —, a total of 26-28 teeth ----, a total of 26 teeth 0 0 3 3 1 0 3 3 0 0 3 3 FEEDING 1. Fed on a variety of plant 1. Fed on a variety of plants, HABITS material, twigs and leaves grasses being the most being most commonly eaten commonly eaten (mostly grazer) (mostly browser) 2. Jaws used in crushing action 2. Jaws used in grinding action in up-and-down motion in a forward-backward motion

Figure 6. Differences Between Extinct Mastodons and Mammoths.