Table 3. Effect of grazing on aboveground biomass for a traditional Bermuda grass pasture, or Bermuda grass planted with pigeon pea or soybean. Biomass was measured pre-grazing for both periods, but post-grazed biomass is only shown for the grazing that occurred after initiation of pigeon pea flowering.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | Pre-grazed Biomass |  | Post-grazed Biomass |
| Pasture System | Type of Biomass | Mean | SD |  | Mean | SD |
|  |  | --------------------------- (kg ha-1) --------------------------- |
|  |  |  |
|  |  | Prior to pigeon pea flowering† |
| Bermuda grass | Grass | 5259 | 1144 |  | In. | In. |
| Pigeon pea | Grass | 5974 | 1936 |  | In. | In. |
|  | Pigeon pea | 131 | 104 |  | In. | In. |
| Soybean | Grass | 3147 | 1015 |  | In. | In. |
|  | Soybean | 825 | 322 |  | In. | In. |
|  |  |  |  |  |  |  |
|  |  | After onset of pigeon pea flowering‡ |
| Bermuda grass | Grass | 7720 | 2078 |  | 3362 | 434 |
| Pigeon pea | Grass | 4062 | 716 |  |  1767 | est. |
|  | Pigeon pea | 345 | 312 |  | 125 | 143 |
| Soybean | Grass | 3335 | 108 |  | 1451 | est. |
|  | Soybean | 528 | 198 |  | 38 | 32 |

† Due to insufficient biomass after grazing, it was not possible to collect post-grazing biomass data for the pre-flowering grazing period.

‡ Post-grazed biomass of grass between pigeon pea and soybean rows was not collected.

In.: Insufficient growth for accurate measurement due to extent of grazing.

est.: The post grazing grass biomass for pigeon pea and soybean pasture systems was estimated based on the mean percent reduction in the pure Bermuda grass plots. Therefore, no standard deviation could be calculated.