Table 1. Analysis of variance and means for double, triple and total number

of seeds as influenced by operator and seed size. Seeds were medium flat. Values are the averages from 100 planter strikes (total strikes 200 per operator). Planter operated such that vertical (straight up and down) strikes were made for all operators.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Source of variation | df | Singles | Blanks† | Doubles± | Triples¶ | Total¶¶ | Perfs 1 | Perfs 2 |
|  |  |  | Sig. level |  |  |
| Operator | 1 | 0.102NS | 0.100NS | 0.527NS | 0.324NS | 0.105NS | 0.102NS | 0.235NS |
|  |  |  | Means/10 |  |  |
| Operator 1 |  | 7.7A | 1.40A | 1.30A | 0.1A | 9.55A | 0.70A | 0.68A |
| Operator 2 |  | 7.0A | 0.80A | 1.50A | 0A | 10.45A | 0.77A | 0.75A |

Table 2. Analysis of variance and means for double, triple and total number

of seeds as influenced by operator and seed size. Seeds were small rounds. Values are the averages from 200 planter strikes.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
| Source of variation | df | Singles | Blanks† | Doubles± | Triples¶ | Total¶¶ | Perfs 1 | Perfs2 |
|  |  |  | Sig. level |  |  |
| Operator | 1 | 0.618NS | 0.409NS | 0.312NS |  | 0.203NS | 0.618NS | 0.907NS |
|  |  |  | Means/10 |  |  |
| Operator 1 |  | 8.2A | 0.80A | 0.90A | 0 | 10.05A | 0.82A | 0.83A |
| Operator 2 |  | 8.4A | 1.10A | 0.60A | 0 | 9.40A | 0.84A | 0.82A |

Table1. Analysis of variance and means for double, triple and total number of seeds as influenced by operator and strike. Seeds were large round. Values are the averages from 200 planter strikes.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Source of variation | df | Singles | Blanks† | Doubles± | Triples¶ | Total¶¶ | Perfs  | Perfs2 |
|  |  |  | Sig. level |  |  |
| Operator | 1 | 0.0064\*\* | 0.0025 \*\* | 0.8463 NS | 0.3236 NS | 0.0052\* | 0.0064\*\* | 0.0065\*\* |
|  |  |  | Operator means |  |  |
|  |  |  | Seed means/10 |  |
| Operator1 |  | 6.70B | 2.35A | 0.80A | 0.00A | 8.10B | 0.67B | 0.65B |
| Operator2  |  | 7.95A | 1.20B | 0.75A | 0.05A | 9.50A | 0.79A | 0.78A |

Treatment means with the same letter are not statistically different

\*,\*\*, \*\*\* significant at the 0.1, 0.05, and 0.01 probability levels, respectively

† Number of strikes where no seeds were released

±Number of strikes where 2 seeds were released

¶ Number of strikes where 3 or 4 seeds were released

¶¶ Total number of seeds released from the planter with 200 strikes

NS-Not significant
Operator 1 = Peter

Operator 2 = Sulu

Observations:

Doubles have decreased significantly. Triples are now zero. Both operators used strong force while handling the planter.