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## Recommended seeding rates

The following table shows the recommended seeding rates per hectare based on 85% germination, 20cm x 20 cm planting distance, and 2-3 seedlings per hill.

| Purpose                        | Crop Establishment method | Amount of seeds (kg/ha) | Seed source                   |
|--------------------------------|---------------------------|-------------------------|-------------------------------|
| Foundation seed production     | Transplanted              | 20                      | Breeder seeds                 |
| Experiments                    | Transplanted              | 40                      | Foundation seeds              |
|                                | Direct wet-seeded         | 40-60                   |                               |
| Commercial production (inbred) | Transplanted              | 40                      | Certified or registered seeds |
|                                | Direct wet-seeded         | 40-60                   |                               |
| Commercial production (hybrid) | Transplanted              | 20                      | F <sub>1</sub> seeds          |

How to compute for the proper amount of seeds to be used per plot:

$$\text{Amount of seeds (g)/plot} = \frac{\text{Area of the plot (m}^2\text{)}}{\text{Planting distance (m}^2\text{)}} \times \text{Number of seedlings per hill} \times \frac{100}{\text{Germination rate (\%)}} \times \frac{25 \text{ g}}{1000 \text{ grains}}$$

For a 10 m<sup>2</sup> plot, for example, the amount of seeds with 85% germination rate at 3 seedlings/hill and planting distance of 20cm x 20cm can be computed as follows:

$$\begin{aligned} \text{Amount of seeds for sowing (g)} &= \frac{10\text{m}^2}{0.2\text{m} \times 0.2\text{m}} \times 3 \times \frac{100}{85} \times \frac{25}{1000} \\ &= 250 \times 3 \times 1.18 \times 0.025 \\ &= 22.1 \text{ g} \end{aligned}$$

Source: Field Operations Manual. 2007. Philippine Rice Research Institute.