Seed Propagation Protocol Form



SEED PROPAGATION PROTOCOL

This form collates the information about the best method for seed propagation and growing up of the target species.

Authorship (people that contributed propagation information):

Date of publication:

Logo/s of the affiliated organisation(s):

GENERAL INFORMATION						
Taxon name	Scientific name of the propagated species		Name/s of propagator/	Name(s) of the person or people that carried out the propagation		
Family	Plant family of the propagated species		Organisation	Organisation(s) where the propagation was carried out		
Origin of seeds	Site(s) and country where seeds were collected		Site and country	Site(s) and country where the propagation took place		

SEED DESCRIPTION & PROCESSING Description of the seeds and the processing of the seeds before seed sowing.					
Fruit/seed transport	Describe how fruit/seeds have been stored during transport from the field to the nursery				
Processing of fruits/seeds	Describe how the fruits/seeds are processed in situ or in the nursery (seed extraction methods, seed cleaning, handling of fruits/seeds)				
Method to assess seed viability	Describe method used to estimate seed viability (e.g. floating test, cut test, tetrazolium test, X-ray test)				
% Estimated seed viability	(Number of viable seeds) x 100 / (Total number of seed for which viability was estimated)				
Type of seed	Choose one of these options: Orthodox, Intermediate, Recalcitrant or Unknown				
Seed size	Include a measuring unit (e.g. mm, cm)				
Number of seeds per gram	Count a reasonable number of seeds and weigh them. Then, divide the number of seeds by their weight (e.g. 100 seeds / 5 g = 20 seeds/g)				
Seed storage	If seeds have been stored before germination, mention storage facilities (seed bank, fridge, freezer), and describe conditions (humidity, temperature), type of container, and storage time length.				

Add photographs of the fruit and seeds. Make sure to include a detailed description of the photo, such as the growth stage, date, activity or process.

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GERMINATION						
	Description of procedures, materials for seed germination and the germination success.					
Procedures	Seed treatment	Describe treatment applied to the seed before sowing (e.g. mechanical scarification, chemical scarification, soaking, stratification, smoke treatment). If applied, include the duration of the treatment.				
	Seed sowing media	Media composition: include percentages/ratio for the different components				
	Container	Describe size and material of the container in which seeds are sown				
	Seed spacing	Describe the recommended spacing between the seeds when sown. Include a measuring unit (e.g. mm, cm)				
	Seed depth	Describe how deep the seeds are sown. Include a measuring unit (e.g. mm, cm)				
	Watering technique	Describe watering tool, technique and frequency during sowing and germination				
	Germination facilities	Describe the facilities where the germination of seeds took place (e.g. close case, outdoor shaded area, heated bench, covered/bagged container)				
	Environmental conditions	Describe the environmental conditions where germination took place (temperature, humidity, and photoperiod)				
Success	Time of year for seed germination	List month/s of the year when seed germination is best				
	Duration until germination	Average number of days/months/years until seeds germinated				
	% Germination success	(Number of seeds germinated) x 100 / (Total number of seeds sowed)				
Materials		List the materials needed for seed germination to help with the planning of this activity. E.g. trays, sieves, dibbers, labels, ruler				

+ Add photographs of the germination process. Make sure to include a detailed description of the photo, such as the growth stage, date, activity or process.

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FIRST POTTING					
Description of procedures and materials for the cultivation of the plants and the success of the growing of the plants.					
Procedures	Growing Media	Media composition: include percentages/ratio for the different components			
	Container	Describe size and material of the container in which plants are potted			
	Fertiliser	If used, include: type (organic or inorganic); nutrient composition and its ratio; and application (added to soil, dissolved on water, foliar application)			
	Watering technique	Describe watering tool, technique and frequency while growing the plants			
	Plant growing facilities	Describe the facilities where the plant growing took place (e.g. glasshouse, outdoors, shaded area)			
	Environmental conditions	Describe the environmental conditions where the plant growing took place (temperature, humidity, light levels)			
	Number of days until first potting	Average number of days since the start of seeds sowing until first potting			
Success	Duration until established plants	Average number of days/month/years for which the plant growth was monitored until the establishment of plants			
	% Plants established	(Number of plants established) x 100 /(Total number of plants potted)			
	Health observations	Record any signs of pest or disease, nutrient deficiency, damage and the stage when they were observed (e.g. during germination, growing of seedlings, growing of plants)			
Materials		List material needed for potting to help with the planning of this activity. E.g. pots, dibbers, labels			

+ Add photographs of the pricking out, potting, and the growing of plants. Make sure to include a detailed description of the photo, such as the growth stage, date, activity or process.