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| **Supplemental Table 1: List of the South American plants in the MSH Mondes reference collection that produce starch grains.** |
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| **Binomial name** | **Common name** |  |
|  |  |  |
| *Agrostis* spp. | Bentgrass |  |
| *Annona cherimola* | Cherimoya |  |
| *Arachis hypogaea*  | Peanut |  |
| *Bixa orellana* | Annatto |  |
| *Bromus* spp. | Bromegrass |  |
| *Calathea allouia* | Lleren |  |
| *Canavalia ensiformis*  | Jack Bean |  |
| *Canavalia plagiosperma*  | n/a |  |
| *Canna edulis* | Achira |  |
| *Capsicum annuum* | Chili pepper |  |
| *Capsicum baccatum*  | Chili pepper |  |
| *Chenopodium quinoa* | Quinoa |  |
| *Coccoloba uvifera* | Sea grape |  |
| *Cucurbita pepo* | Squash |  |
| *Cucurbita ficifolia* | Squash |  |
| *Cucurbita maxima* | Squash |  |
| *Cucurbita moschata* | Squash |  |
| *Dioscorea trifida*  | Yam |  |
| *Dracontium asperum*  | n/a |  |
| *Echinopsis peruviana*  | Peruvian torch cactus |  |
| *Heliconia* sp. | Heliconia |  |
| *Inga feuillei* | Pacay |  |
| *Inga spectabilis* | Guaba de machete |  |
| *Ipomoea batatas* | Sweet potato |  |
| *Lagenaria siceraria* | Bottle gourd |  |
| *Lepidium meyenii*  | Maca |  |
| *Manihot esculenta* | Manioc |  |
| *Maranta arundinacea* | Arrowroot |  |
| *Oxalis tuberosa* | Oca |  |
| *Passiflora edulis* | Passion fruit |  |
| *Pachyrhizus erosus*  | Jicama |  |
| *Panicum* spp. | Panicgrass |  |
| *Paspalum* spp. | Crowngrass |  |
| *Persea americana* | Avocado |  |
| *Phaseolus augusti* | Wild bean |  |
| *Phaseolus lunatus* | Lima bean |  |
| *Phaseolus vulgaris* | Common bean |  |
| *Pouteria lucuma* | Lucuma |  |
| *Prosopis juliflora* | Mesquite |  |
| *Prosopis pallida* | American carob tree/Algarrobo |  |
| *Psidium guajava* | Guava |  |
| *Sicana odorifera*  | Cassabanana |  |
| *Solanum tuberosum* | Potato |  |
| *Typha* sp. | Cattail  |  |
| *Ullucus tuberosus*  | Ulluco |  |
| *Xanthosoma sagittifolium*  | Malanga |  |
| *Zea mays\** | Maize |  |
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| *Notes*. \*Includes different maize races |  |  |