

format-version: 1.2  
date: 15:01:2010 14:04  
auto-generated-by: OBO-Edit 2.0  
default-namespace: potato\_trait  
namespace-id-rule: \* CO\_330:\$sequence(7,0,9999999)\$

[Term]  
id: CO\_330:0000000  
name: CGIAR Potato Trait Ontology

[Term]  
id: CO\_330:0000002  
name: XIX-Vegetative period  
def: "Estimated vegetative period from planting to harvest."  
[CIP\_Data\_Dictionary:Descriptor]  
is\_a: CO\_330:0000204 ! agronomic trait

[Term]  
id: CO\_330:0000003  
name: II-Leaf shape  
def: "The leaf is a photosynthetic and transpiring organ, usually developed from leaf primordium in the bud; an expanded, usually green, organ borne on the stem of a plant."  
[Plant\_Information\_Center:Botanical\_Dictionary]  
is\_a: CO\_330:0000205 ! morphological trait

[Term]  
id: CO\_330:0000004  
name: I-Plant habit  
def: "The plant habit or vegetative feature is the general aspect or mode of growth of a plant."  
[Plant\_Information\_Center:Botanical\_Dictionary]  
is\_a: CO\_330:0000205 ! morphological trait

[Term]  
id: CO\_330:0000005  
name: XVIII-Tuber sprout color  
is\_a: CO\_330:0000205 ! morphological trait

[Term]  
id: CO\_330:0000009  
name: 0-Absent  
is\_a: CO\_330:0000010 ! VIII-Anther pigmentation  
is\_a: CO\_330:0000037 ! Flower\_secondary\_color  
is\_a: CO\_330:0000038 ! Flower\_secondary\_color\_distribution  
is\_a: CO\_330:0000080 ! Number\_of\_primary\_lateral\_leaflets  
is\_a: CO\_330:0000082 !  
Number\_of\_interjected\_leaflets\_between\_lateral\_leaflets  
is\_a: CO\_330:0000083 !  
Number\_of\_interjected\_leaflets\_on\_the\_petiollules  
is\_a: CO\_330:0000099 ! IX-Pistil pigmentation  
is\_a: CO\_330:0000114 ! Sprout\_secondary\_color\_distribution

is\_a: CO\_330:0000115 ! Sprout\_secondary\_color  
is\_a: CO\_330:0000124 ! IV-Stem wing shape  
is\_a: CO\_330:0000133 ! Tuber\_flesh\_secondary\_color  
is\_a: CO\_330:0000134 ! Tuber\_flesh\_secondary\_color\_distribution  
is\_a: CO\_330:0000156 ! Tuber\_shape\_unusual  
is\_a: CO\_330:0000168 ! Tuber\_skin\_secondary\_color  
is\_a: CO\_330:0000170 ! Tuber\_skin\_secondary\_color\_distribution

[Term]

id: CO\_330:0000010  
name: VIII-Anther pigmentation  
def: "Color for anther pigmentation." [CIP\_Data\_Dictionary:Descriptor]  
comment: An anther is the pollen-bearing portion of stamen  
is\_a: CO\_330:0000205 ! morphological trait

[Term]

id: CO\_330:0000011  
name: 7-Purple  
synonym: "CO\_330:0000224" RELATED []  
synonym: "CO\_330:0000225" RELATED []  
xref: CO\_330:0000224  
xref: CO\_330:0000225  
is\_a: CO\_330:0000016 ! X-Calyx color  
is\_a: CO\_330:0000029 ! Flower\_predominant\_color  
is\_a: CO\_330:0000037 ! Flower\_secondary\_color  
is\_a: CO\_330:0000122 ! III-Stem color  
is\_a: CO\_330:0000128 ! Tuber\_flesh\_predominant\_color  
is\_a: CO\_330:0000133 ! Tuber\_flesh\_secondary\_color

[Term]

id: CO\_330:0000012  
name: 1-Pigmented anther stripe (AS)  
is\_a: CO\_330:0000010 ! VIII-Anther pigmentation

[Term]

id: CO\_330:0000013  
name: 2-Pigmented anther tip (PA)  
is\_a: CO\_330:0000010 ! VIII-Anther pigmentation

[Term]

id: CO\_330:0000014  
name: 3-AS and PA  
def: "Pigmented anther stripe (AS) and pigmented anther tip (PA)."  
[CIP\_Data\_Dictionary:Descriptor]  
is\_a: CO\_330:0000010 ! VIII-Anther pigmentation

[Term]

id: CO\_330:0000015  
name: 4-Other  
synonym: "CO\_330:0000226" RELATED []  
synonym: "CO\_330:0000227" RELATED []  
synonym: "CO\_330:0000228" RELATED []

xref: CO\_330:0000226  
xref: CO\_330:0000227  
xref: CO\_330:0000228  
is\_a: CO\_330:0000010 ! VIII-Anther pigmentation

[Term]

id: CO\_330:0000016  
name: X-Calyx color  
def: "Calyx is the lower most whorl of modified leaves, sepal."  
[Plant\_Information\_Center:Botanical\_Dictionary]  
is\_a: CO\_330:0000205 ! morphological trait

[Term]

id: CO\_330:0000017  
name: 2-Green with few pigmented spots  
is\_a: CO\_330:0000016 ! X-Calyx color  
is\_a: CO\_330:0000122 ! III-Stem color

[Term]

id: CO\_330:0000018  
name: 3-Green with many pigmented spots  
is\_a: CO\_330:0000016 ! X-Calyx color  
is\_a: CO\_330:0000122 ! III-Stem color

[Term]

id: CO\_330:0000019  
name: 5-Pigmented with few green spots  
is\_a: CO\_330:0000016 ! X-Calyx color  
is\_a: CO\_330:0000122 ! III-Stem color

[Term]

id: CO\_330:0000020  
name: 4-Pigmented with many green spots  
is\_a: CO\_330:0000016 ! X-Calyx color  
is\_a: CO\_330:0000122 ! III-Stem color

[Term]

id: CO\_330:0000021  
name: 6-Reddish  
is\_a: CO\_330:0000016 ! X-Calyx color

[Term]

id: CO\_330:0000022  
name: 1-White  
is\_a: CO\_330:0000029 ! Flower\_predominant\_color  
is\_a: CO\_330:0000037 ! Flower\_secondary\_color  
is\_a: CO\_330:0000113 ! Sprout\_predominant\_color  
is\_a: CO\_330:0000115 ! Sprout\_secondary\_color  
is\_a: CO\_330:0000128 ! Tuber\_flesh\_predominant\_color  
is\_a: CO\_330:0000133 ! Tuber\_flesh\_secondary\_color

[Term]

id: CO\_330:0000023  
name: 1-Green  
is\_a: CO\_330:0000016 ! X-Calyx color  
is\_a: CO\_330:0000061 ! XII-Fruit color  
is\_a: CO\_330:0000084 ! XI-Pedicel color  
is\_a: CO\_330:0000122 ! III-Stem color

[Term]  
id: CO\_330:0000024  
name: VII-Flower color  
is\_a: CO\_330:0000205 ! morphological trait

[Term]  
id: CO\_330:0000025  
name: Flower\_color\_intensity  
is\_a: CO\_330:0000024 ! VII-Flower color

[Term]  
id: CO\_330:0000026  
name: 3-Intense  
is\_a: CO\_330:0000025 ! Flower\_color\_intensity

[Term]  
id: CO\_330:0000027  
name: 2-Intermediate  
is\_a: CO\_330:0000025 ! Flower\_color\_intensity  
is\_a: CO\_330:0000169 ! Tuber\_skin\_color\_intensity

[Term]  
id: CO\_330:0000028  
name: 1-Light  
is\_a: CO\_330:0000025 ! Flower\_color\_intensity

[Term]  
id: CO\_330:0000029  
name: Flower\_predominant\_color  
is\_a: CO\_330:0000024 ! VII-Flower color

[Term]  
id: CO\_330:0000030  
name: 2-Red-pink  
is\_a: CO\_330:0000029 ! Flower\_predominant\_color  
is\_a: CO\_330:0000037 ! Flower\_secondary\_color

[Term]  
id: CO\_330:0000031  
name: 8-Violet  
synonym: "CO\_330:0000220" RELATED []  
xref: CO\_330:0000220  
is\_a: CO\_330:0000029 ! Flower\_predominant\_color  
is\_a: CO\_330:0000037 ! Flower\_secondary\_color  
is\_a: CO\_330:0000128 ! Tuber\_flesh\_predominant\_color

is\_a: CO\_330:0000133 ! Tuber\_flesh\_secondary\_color

[Term]

id: CO\_330:0000032

name: 3-Red-purple

is\_a: CO\_330:0000029 ! Flower\_predominant\_color

is\_a: CO\_330:0000037 ! Flower\_secondary\_color

[Term]

id: CO\_330:0000033

name: 6-Lilac

is\_a: CO\_330:0000029 ! Flower\_predominant\_color

is\_a: CO\_330:0000037 ! Flower\_secondary\_color

[Term]

id: CO\_330:0000034

name: 4-Sky blue

is\_a: CO\_330:0000029 ! Flower\_predominant\_color

is\_a: CO\_330:0000037 ! Flower\_secondary\_color

[Term]

id: CO\_330:0000035

name: 5-Blue-purple

is\_a: CO\_330:0000029 ! Flower\_predominant\_color

is\_a: CO\_330:0000037 ! Flower\_secondary\_color

[Term]

id: CO\_330:0000036

name: 1 pair

is\_a: CO\_330:0000080 ! Number\_of\_primary\_lateral\_leaflets

is\_a: CO\_330:0000082 !

Number\_of\_interjected\_leaflets\_between\_lateral\_leaflets

is\_a: CO\_330:0000083 !

Number\_of\_interjected\_leaflets\_on\_the\_petiollules

[Term]

id: CO\_330:0000037

name: Flower\_secondary\_color

is\_a: CO\_330:0000024 ! VII-Flower color

[Term]

id: CO\_330:0000038

name: Flower\_secondary\_color\_distribution

is\_a: CO\_330:0000024 ! VII-Flower color

[Term]

id: CO\_330:0000039

name: 8-Stipples

is\_a: CO\_330:0000038 ! Flower\_secondary\_color\_distribution

[Term]

id: CO\_330:0000040

name: 3-Both sides of the acumen  
is\_a: CO\_330:0000038 ! Flower\_secondary\_color\_distribution

[Term]

id: CO\_330:0000041  
name: 1-Upper side of the acumen  
is\_a: CO\_330:0000038 ! Flower\_secondary\_color\_distribution

[Term]

id: CO\_330:0000042  
name: 6-Bands on the lower side  
is\_a: CO\_330:0000038 ! Flower\_secondary\_color\_distribution

[Term]

id: CO\_330:0000043  
name: 2-Lower side of the acumen  
is\_a: CO\_330:0000038 ! Flower\_secondary\_color\_distribution

[Term]

id: CO\_330:0000044  
name: 4-Star  
is\_a: CO\_330:0000038 ! Flower\_secondary\_color\_distribution

[Term]

id: CO\_330:0000045  
name: 5-Bands on the upper side  
is\_a: CO\_330:0000038 ! Flower\_secondary\_color\_distribution

[Term]

id: CO\_330:0000046  
name: 7-Bands on both sides  
is\_a: CO\_330:0000038 ! Flower\_secondary\_color\_distribution

[Term]

id: CO\_330:0000047  
name: 9-Spots (very few)  
is\_a: CO\_330:0000038 ! Flower\_secondary\_color\_distribution

[Term]

id: CO\_330:0000048  
name: VI-Flower shape  
is\_a: CO\_330:0000205 ! morphological trait

[Term]

id: CO\_330:0000049  
name: 7-Rotate  
is\_a: CO\_330:0000048 ! VI-Flower shape

[Term]

id: CO\_330:0000050  
name: 5-Pentagonal  
is\_a: CO\_330:0000048 ! VI-Flower shape

[Term]  
id: CO\_330:0000051  
name: 3-Semi-estellate  
is\_a: CO\_330:0000048 ! VI-Flower shape

[Term]  
id: CO\_330:0000052  
name: 1-Stellate  
is\_a: CO\_330:0000048 ! VI-Flower shape

[Term]  
id: CO\_330:0000053  
name: 9-Very rotate  
is\_a: CO\_330:0000048 ! VI-Flower shape

[Term]  
id: CO\_330:0000054  
name: V-Flowering degree  
is\_a: CO\_330:0000205 ! morphological trait

[Term]  
id: CO\_330:0000055  
name: 7-Flowering profuse  
is\_a: CO\_330:0000054 ! V-Flowering degree

[Term]  
id: CO\_330:0000056  
name: 1-Bud abortion  
is\_a: CO\_330:0000054 ! V-Flowering degree

[Term]  
id: CO\_330:0000057  
name: 0-No buds  
is\_a: CO\_330:0000054 ! V-Flowering degree

[Term]  
id: CO\_330:0000058  
name: 3-Flowering scarce  
is\_a: CO\_330:0000054 ! V-Flowering degree

[Term]  
id: CO\_330:0000059  
name: 5-Flowering moderate  
is\_a: CO\_330:0000054 ! V-Flowering degree

[Term]  
id: CO\_330:0000061  
name: XII-Fruit color  
is\_a: CO\_330:0000205 ! morphological trait

[Term]

id: CO\_330:0000062  
name: 2-Green with few white spots  
is\_a: CO\_330:0000061 ! XII-Fruit color

[Term]

id: CO\_330:0000063  
name: 3-Green with white stripes  
is\_a: CO\_330:0000061 ! XII-Fruit color

[Term]

id: CO\_330:0000064  
name: 6-Green with purple stripes  
is\_a: CO\_330:0000061 ! XII-Fruit color

[Term]

id: CO\_330:0000065  
name: 4-Green with abundant white spots  
is\_a: CO\_330:0000061 ! XII-Fruit color

[Term]

id: CO\_330:0000066  
name: 5-Green with purple spots  
is\_a: CO\_330:0000061 ! XII-Fruit color

[Term]

id: CO\_330:0000067  
name: 7-Predominantly purple  
is\_a: CO\_330:0000061 ! XII-Fruit color

[Term]

id: CO\_330:0000068  
name: XIII-Fruit shape  
is\_a: CO\_330:0000205 ! morphological trait

[Term]

id: CO\_330:0000069  
name: Type\_of\_leaf\_dissection  
is\_a: CO\_330:0000003 ! II-Leaf shape

[Term]

id: CO\_330:0000070  
name: 2-Globose with terminal mucron  
is\_a: CO\_330:0000068 ! XIII-Fruit shape

[Term]

id: CO\_330:0000071  
name: 1-Globose  
is\_a: CO\_330:0000068 ! XIII-Fruit shape

[Term]

id: CO\_330:0000072  
name: 3-Ovoid



is\_a: CO\_330:0000068 ! XIII-Fruit shape  
is\_a: CO\_330:0000219 ! Tuber outline

[Term]

id: CO\_330:0000073  
name: 6-Long conical  
is\_a: CO\_330:0000068 ! XIII-Fruit shape

[Term]

id: CO\_330:0000074  
name: 4-Ovoid with terminal mucron  
is\_a: CO\_330:0000068 ! XIII-Fruit shape

[Term]

id: CO\_330:0000075  
name: 5-Conical  
is\_a: CO\_330:0000068 ! XIII-Fruit shape

[Term]

id: CO\_330:0000076  
name: 7-Pyriform  
is\_a: CO\_330:0000068 ! XIII-Fruit shape

[Term]

id: CO\_330:0000077  
name: 1-Entire leaves  
is\_a: CO\_330:0000069 ! Type\_of\_leaf\_dissection

[Term]

id: CO\_330:0000078  
name: 3-Dissected leaves  
is\_a: CO\_330:0000069 ! Type\_of\_leaf\_dissection

[Term]

id: CO\_330:0000079  
name: 2-Lobed leaves  
is\_a: CO\_330:0000069 ! Type\_of\_leaf\_dissection

[Term]

id: CO\_330:0000080  
name: Number\_of\_primary\_lateral\_leaflets  
is\_a: CO\_330:0000003 ! II-Leaf shape

[Term]

id: CO\_330:0000081  
name: 7-Late maturing  
def: "From150 to 180 days." [CIP\_Data\_Dictionary:Descriptor]  
is\_a: CO\_330:0000002 ! XIX-Vegetative period

[Term]

id: CO\_330:0000082  
name: Number\_of\_interjected\_leaflets\_between\_lateral\_leaflets

is\_a: CO\_330:0000003 ! II-Leaf shape

[Term]

id: CO\_330:0000083

name: Number\_of\_interjected\_leaflets\_on\_the\_petiollules

is\_a: CO\_330:0000003 ! II-Leaf shape

[Term]

id: CO\_330:0000084

name: XI-Pedicel color

def: "Pedicel is the individual flower stalk."

[Plant\_Information\_Center:Botanical\_Dictionary]

is\_a: CO\_330:0000205 ! morphological trait

[Term]

id: CO\_330:0000085

name: 2-Pigmented articulation only

is\_a: CO\_330:0000084 ! XI-Pedicel color

[Term]

id: CO\_330:0000086

name: 7-Mostly pigmented and green articulation

is\_a: CO\_330:0000084 ! XI-Pedicel color

[Term]

id: CO\_330:0000087

name: 3-Slightly pigmented throughout

is\_a: CO\_330:0000084 ! XI-Pedicel color

[Term]

id: CO\_330:0000088

name: 4-Slightly pigmented throughout and articulation

is\_a: CO\_330:0000084 ! XI-Pedicel color

[Term]

id: CO\_330:0000089

name: 6-Pigmented below articulation

is\_a: CO\_330:0000084 ! XI-Pedicel color

[Term]

id: CO\_330:0000090

name: 5-Pigmented above articulation

is\_a: CO\_330:0000084 ! XI-Pedicel color

[Term]

id: CO\_330:0000091

name: 8-Completely pigmented

is\_a: CO\_330:0000084 ! XI-Pedicel color

[Term]

id: CO\_330:0000092

name: 5 pairs

is\_a: CO\_330:0000080 ! Number\_of\_primary\_lateral\_leaflets

[Term]

id: CO\_330:0000093

name: 4 pairs

is\_a: CO\_330:0000080 ! Number\_of\_primary\_lateral\_leaflets

[Term]

id: CO\_330:0000094

name: 2 pairs

is\_a: CO\_330:0000080 ! Number\_of\_primary\_lateral\_leaflets

is\_a: CO\_330:0000082 !

Number\_of\_interjected\_leaflets\_between\_lateral\_leaflets

is\_a: CO\_330:0000083 !

Number\_of\_interjected\_leaflets\_on\_the\_petiollules

[Term]

id: CO\_330:0000095

name: 3 pairs

is\_a: CO\_330:0000080 ! Number\_of\_primary\_lateral\_leaflets

is\_a: CO\_330:0000082 !

Number\_of\_interjected\_leaflets\_between\_lateral\_leaflets

is\_a: CO\_330:0000083 !

Number\_of\_interjected\_leaflets\_on\_the\_petiollules

[Term]

id: CO\_330:0000096

name: 7 or more pairs

is\_a: CO\_330:0000080 ! Number\_of\_primary\_lateral\_leaflets

[Term]

id: CO\_330:0000097

name: 6 pairs

is\_a: CO\_330:0000080 ! Number\_of\_primary\_lateral\_leaflets

[Term]

id: CO\_330:0000098

name: 4 or more pairs

is\_a: CO\_330:0000082 !

Number\_of\_interjected\_leaflets\_between\_lateral\_leaflets

is\_a: CO\_330:0000083 !

Number\_of\_interjected\_leaflets\_on\_the\_petiollules

[Term]

id: CO\_330:0000099

name: IX-Pistil pigmentation

def: "Pistil is one or more fused carpels consisting of stigma, style (if present) and ovary."

[Plant\_Information\_Center:Botanical\_Dictionary]

is\_a: CO\_330:0000205 ! morphological trait

[Term]

id: CO\_330:0000100  
name: 1-Pigmented stigma (PS)  
is\_a: CO\_330:0000099 ! IX-Pistil pigmentation

[Term]

id: CO\_330:0000101  
name: 2-Pigmented ovary (PO)  
is\_a: CO\_330:0000099 ! IX-Pistil pigmentation

[Term]

id: CO\_330:0000102  
name: 3-Pigmented ovary wall (OW)  
is\_a: CO\_330:0000099 ! IX-Pistil pigmentation

[Term]

id: CO\_330:0000103  
name: 4-PS and PO  
def: "Pigmented stigma (PS) and pigmented ovary (PO)."  
[CIP\_Data\_Dictionary:Descriptor]  
is\_a: CO\_330:0000099 ! IX-Pistil pigmentation

[Term]

id: CO\_330:0000104  
name: 5-PS and OW  
def: "Pigmented stigma (PS) and pigmented ovary wall (OW)."  
[CIP\_Data\_Dictionary:Descriptor]  
is\_a: CO\_330:0000099 ! IX-Pistil pigmentation

[Term]

id: CO\_330:0000105  
name: 6-PO and OW  
def: "Pigmented Ovary (PO) and pigmented ovary wall (OW)."  
[CIP\_Data\_Dictionary:Descriptor]  
is\_a: CO\_330:0000099 ! IX-Pistil pigmentation

[Term]

id: CO\_330:0000106  
name: 1-Erect  
is\_a: CO\_330:0000004 ! I-Plant habit

[Term]

id: CO\_330:0000107  
name: 7-PS, PO and OW  
def: "Pigmented stigma (PS), pigmented ovary (PO) and ovary wall (OW)."  
[CIP\_Data\_Dictionary:Descriptor]  
is\_a: CO\_330:0000099 ! IX-Pistil pigmentation

[Term]

id: CO\_330:0000108  
name: 2-Semi-erect  
is\_a: CO\_330:0000004 ! I-Plant habit

[Term]  
id: CO\_330:0000109  
name: 4-Prostrate  
is\_a: CO\_330:0000004 ! I-Plant habit

[Term]  
id: CO\_330:0000110  
name: 3-Decumbent  
is\_a: CO\_330:0000004 ! I-Plant habit

[Term]  
id: CO\_330:0000111  
name: 5-Semi-rosette  
is\_a: CO\_330:0000004 ! I-Plant habit

[Term]  
id: CO\_330:0000112  
name: 6-Rosette  
is\_a: CO\_330:0000004 ! I-Plant habit

[Term]  
id: CO\_330:0000113  
name: Sprout\_predominant\_color  
is\_a: CO\_330:0000005 ! XVIII-Tuber sprout color

[Term]  
id: CO\_330:0000114  
name: Sprout\_secondary\_color\_distribution  
is\_a: CO\_330:0000005 ! XVIII-Tuber sprout color

[Term]  
id: CO\_330:0000115  
name: Sprout\_secondary\_color  
is\_a: CO\_330:0000005 ! XVIII-Tuber sprout color

[Term]  
id: CO\_330:0000116  
name: 2-Pink  
synonym: "CO\_330:0000221" RELATED []  
xref: CO\_330:0000221  
is\_a: CO\_330:0000113 ! Sprout\_predominant\_color  
is\_a: CO\_330:0000115 ! Sprout\_secondary\_color

[Term]  
id: CO\_330:0000117  
name: 6-Red  
synonym: "CO\_330:0000222" RELATED []  
xref: CO\_330:0000222  
is\_a: CO\_330:0000122 ! III-Stem color  
is\_a: CO\_330:0000128 ! Tuber\_flesh\_predominant\_color  
is\_a: CO\_330:0000133 ! Tuber\_flesh\_secondary\_color  
is\_a: CO\_330:0000167 ! Tuber\_skin\_predominant\_color

is\_a: CO\_330:0000168 ! Tuber\_skin\_secondary\_color

[Term]  
id: CO\_330:0000118  
name: 6-Around bud  
is\_a: CO\_330:0000114 ! Sprout\_secondary\_color\_distribution

[Term]  
id: CO\_330:0000119  
name: 3-At the apex  
is\_a: CO\_330:0000114 ! Sprout\_secondary\_color\_distribution

[Term]  
id: CO\_330:0000120  
name: 5-Heavily scattered throughout  
is\_a: CO\_330:0000114 ! Sprout\_secondary\_color\_distribution

[Term]  
id: CO\_330:0000121  
name: 4-Lightly scattered throughout  
is\_a: CO\_330:0000114 ! Sprout\_secondary\_color\_distribution

[Term]  
id: CO\_330:0000122  
name: III-Stem color  
is\_a: CO\_330:0000205 ! morphological trait

[Term]  
id: CO\_330:0000123  
name: 1-At the base  
is\_a: CO\_330:0000114 ! Sprout\_secondary\_color\_distribution

[Term]  
id: CO\_330:0000124  
name: IV-Stem wing shape  
is\_a: CO\_330:0000205 ! morphological trait

[Term]  
id: CO\_330:0000125  
name: 1-Wing straight  
is\_a: CO\_330:0000124 ! IV-Stem wing shape

[Term]  
id: CO\_330:0000126  
name: 3-Wing dentate  
is\_a: CO\_330:0000124 ! IV-Stem wing shape

[Term]  
id: CO\_330:0000127  
name: 2-Wing undulate  
is\_a: CO\_330:0000124 ! IV-Stem wing shape

[Term]  
id: CO\_330:0000128  
name: Tuber\_flesh\_predominant\_color  
is\_a: CO\_330:0000155 ! XVII-Tuber flesh color

[Term]  
id: CO\_330:0000129  
name: 2-Cream  
is\_a: CO\_330:0000128 ! Tuber\_flesh\_predominant\_color  
is\_a: CO\_330:0000133 ! Tuber\_flesh\_secondary\_color

[Term]  
id: CO\_330:0000130  
name: 3-Light yellow  
is\_a: CO\_330:0000128 ! Tuber\_flesh\_predominant\_color  
is\_a: CO\_330:0000133 ! Tuber\_flesh\_secondary\_color

[Term]  
id: CO\_330:0000131  
name: 4-Yellow  
synonym: "CO\_330:0000223" RELATED []  
xref: CO\_330:0000223  
is\_a: CO\_330:0000128 ! Tuber\_flesh\_predominant\_color  
is\_a: CO\_330:0000133 ! Tuber\_flesh\_secondary\_color

[Term]  
id: CO\_330:0000132  
name: 5-Dark yellow  
is\_a: CO\_330:0000128 ! Tuber\_flesh\_predominant\_color  
is\_a: CO\_330:0000133 ! Tuber\_flesh\_secondary\_color

[Term]  
id: CO\_330:0000133  
name: Tuber\_flesh\_secondary\_color  
is\_a: CO\_330:0000155 ! XVII-Tuber flesh color

[Term]  
id: CO\_330:0000134  
name: Tuber\_flesh\_secondary\_color\_distribution  
is\_a: CO\_330:0000155 ! XVII-Tuber flesh color

[Term]  
id: CO\_330:0000135  
name: 1-Scattered spots  
is\_a: CO\_330:0000134 ! Tuber\_flesh\_secondary\_color\_distribution

[Term]  
id: CO\_330:0000136  
name: 2-Scattered areas  
is\_a: CO\_330:0000134 ! Tuber\_flesh\_secondary\_color\_distribution

[Term]

id: CO\_330:0000137  
name: 5-Vascular ring and medulla  
is\_a: CO\_330:0000134 ! Tuber\_flesh\_secondary\_color\_distribution

[Term]

id: CO\_330:0000138  
name: 3-Narrow vascular ring  
is\_a: CO\_330:0000134 ! Tuber\_flesh\_secondary\_color\_distribution

[Term]

id: CO\_330:0000139  
name: 4-Broad vascular ring  
is\_a: CO\_330:0000134 ! Tuber\_flesh\_secondary\_color\_distribution

[Term]

id: CO\_330:0000140  
name: 6-All flesh except medulla  
is\_a: CO\_330:0000134 ! Tuber\_flesh\_secondary\_color\_distribution

[Term]

id: CO\_330:0000141  
name: XVI-Tuber shape  
is\_a: CO\_330:0000205 ! morphological trait

[Term]

id: CO\_330:0000142  
name: 7-Long-oblong  
is\_a: CO\_330:0000219 ! Tuber outline

[Term]

id: CO\_330:0000143  
name: 2-Rounded  
is\_a: CO\_330:0000219 ! Tuber outline

[Term]

id: CO\_330:0000144  
name: 5-Elliptical  
is\_a: CO\_330:0000219 ! Tuber outline

[Term]

id: CO\_330:0000145  
name: 4-Obovoid  
is\_a: CO\_330:0000219 ! Tuber outline

[Term]

id: CO\_330:0000146  
name: 6-Oblong  
is\_a: CO\_330:0000219 ! Tuber outline

[Term]

id: CO\_330:0000147  
name: 1-Compressed (oblate)



is\_a: CO\_330:0000219 ! Tuber outline

[Term]  
id: CO\_330:0000148  
name: 8-Elongated  
is\_a: CO\_330:0000219 ! Tuber outline

[Term]  
id: CO\_330:0000149  
name: Tuber\_shape\_eye\_deep  
is\_a: CO\_330:0000141 ! XVI-Tuber shape

[Term]  
id: CO\_330:0000150  
name: 7-Deep  
is\_a: CO\_330:0000149 ! Tuber\_shape\_eye\_deep

[Term]  
id: CO\_330:0000151  
name: 5-Slightly deep  
is\_a: CO\_330:0000149 ! Tuber\_shape\_eye\_deep

[Term]  
id: CO\_330:0000152  
name: 3-Shallow  
is\_a: CO\_330:0000149 ! Tuber\_shape\_eye\_deep

[Term]  
id: CO\_330:0000153  
name: 1-Protruding  
is\_a: CO\_330:0000149 ! Tuber\_shape\_eye\_deep

[Term]  
id: CO\_330:0000154  
name: 9-Very deep  
is\_a: CO\_330:0000149 ! Tuber\_shape\_eye\_deep

[Term]  
id: CO\_330:0000155  
name: XVII-Tuber flesh color  
is\_a: CO\_330:0000205 ! morphological trait

[Term]  
id: CO\_330:0000156  
name: Tuber\_shape\_unusual  
is\_a: CO\_330:0000141 ! XVI-Tuber shape

[Term]  
id: CO\_330:0000157  
name: 5-Falcated  
is\_a: CO\_330:0000156 ! Tuber\_shape\_unusual

[Term]  
id: CO\_330:0000158  
name: 1-Flattened  
is\_a: CO\_330:0000156 ! Tuber\_shape\_unusual

[Term]  
id: CO\_330:0000159  
name: 2-Clavated  
is\_a: CO\_330:0000156 ! Tuber\_shape\_unusual

[Term]  
id: CO\_330:0000160  
name: 4-Fusiformed  
is\_a: CO\_330:0000156 ! Tuber\_shape\_unusual

[Term]  
id: CO\_330:0000161  
name: 3-Reniformed  
is\_a: CO\_330:0000156 ! Tuber\_shape\_unusual

[Term]  
id: CO\_330:0000162  
name: 7-Digitated  
is\_a: CO\_330:0000156 ! Tuber\_shape\_unusual

[Term]  
id: CO\_330:0000163  
name: 6-Coiled  
is\_a: CO\_330:0000156 ! Tuber\_shape\_unusual

[Term]  
id: CO\_330:0000164  
name: 9-Tuberose  
is\_a: CO\_330:0000156 ! Tuber\_shape\_unusual

[Term]  
id: CO\_330:0000165  
name: 8-Concertina-shaped  
is\_a: CO\_330:0000156 ! Tuber\_shape\_unusual

[Term]  
id: CO\_330:0000166  
name: XV-Tuber skin color  
is\_a: CO\_330:0000205 ! morphological trait

[Term]  
id: CO\_330:0000167  
name: Tuber\_skin\_predominant\_color  
is\_a: CO\_330:0000166 ! XV-Tuber skin color

[Term]  
id: CO\_330:0000168

name: Tuber\_skin\_secondary\_color  
is\_a: CO\_330:0000166 ! XV-Tuber skin color

[Term]  
id: CO\_330:0000169  
name: Tuber\_skin\_color\_intensity  
is\_a: CO\_330:0000166 ! XV-Tuber skin color

[Term]  
id: CO\_330:0000170  
name: Tuber\_skin\_secondary\_color\_distribution  
is\_a: CO\_330:0000166 ! XV-Tuber skin color

[Term]  
id: CO\_330:0000171  
name: 1-White-cream  
is\_a: CO\_330:0000167 ! Tuber\_skin\_predominant\_color  
is\_a: CO\_330:0000168 ! Tuber\_skin\_secondary\_color

[Term]  
id: CO\_330:0000172  
name: 3-Orange  
is\_a: CO\_330:0000167 ! Tuber\_skin\_predominant\_color  
is\_a: CO\_330:0000168 ! Tuber\_skin\_secondary\_color

[Term]  
id: CO\_330:0000173  
name: 4-Brownish  
is\_a: CO\_330:0000167 ! Tuber\_skin\_predominant\_color  
is\_a: CO\_330:0000168 ! Tuber\_skin\_secondary\_color

[Term]  
id: CO\_330:0000174  
name: 7-Purplish\_red  
is\_a: CO\_330:0000167 ! Tuber\_skin\_predominant\_color  
is\_a: CO\_330:0000168 ! Tuber\_skin\_secondary\_color

[Term]  
id: CO\_330:0000175  
name: 9-Dark\_purple\_black  
is\_a: CO\_330:0000167 ! Tuber\_skin\_predominant\_color  
is\_a: CO\_330:0000168 ! Tuber\_skin\_secondary\_color

[Term]  
id: CO\_330:0000176  
name: 1-Pale  
is\_a: CO\_330:0000169 ! Tuber\_skin\_color\_intensity

[Term]  
id: CO\_330:0000177  
name: 3-Dark  
is\_a: CO\_330:0000169 ! Tuber\_skin\_color\_intensity

[Term]  
id: CO\_330:0000178  
name: 4-Scattered  
def: "Pigmentation is distributed at random in one or more areas of the tuber." [CIP\_Data\_Dictionary:Descriptor]  
is\_a: CO\_330:0000170 ! Tuber\_skin\_secondary\_color\_distribution

[Term]  
id: CO\_330:0000179  
name: 2-Pigmented eyebrows  
def: "Pigmentation is present in the eyebrows only."  
[CIP\_Data\_Dictionary:Descriptor]  
is\_a: CO\_330:0000170 ! Tuber\_skin\_secondary\_color\_distribution

[Term]  
id: CO\_330:0000180  
name: 3-Splashed  
def: "Pigmentation is confined to areas around the eyes."  
[CIP\_Data\_Dictionary:Descriptor]  
is\_a: CO\_330:0000170 ! Tuber\_skin\_secondary\_color\_distribution

[Term]  
id: CO\_330:0000181  
name: 1-Pigmented eyes  
def: "Pigmentation is confined to the eyes only."  
[CIP\_Data\_Dictionary:Descriptor]  
is\_a: CO\_330:0000170 ! Tuber\_skin\_secondary\_color\_distribution

[Term]  
id: CO\_330:0000182  
name: 6-Stippled  
def: "Surface of the tuber is more or less uniformly covered with spots." [CIP\_Data\_Dictionary:Descriptor]  
is\_a: CO\_330:0000170 ! Tuber\_skin\_secondary\_color\_distribution

[Term]  
id: CO\_330:0000183  
name: 5-Spectacled  
def: "Areas around the eyes do not show pigmentation but the remainder of the tuber is pigmented." [CIP\_Data\_Dictionary:Descriptor]  
is\_a: CO\_330:0000170 ! Tuber\_skin\_secondary\_color\_distribution

[Term]  
id: CO\_330:0000184  
name: 3-Early maturing  
def: "From 90 to 119 days." [CIP\_Data\_Dictionary:Descriptor]  
is\_a: CO\_330:0000002 ! XIX-Vegetative period

[Term]  
id: CO\_330:0000185  
name: 1-Very early maturing

def: "Less than 90 days." [CIP\_Data\_Dictionary:Descriptor]  
is\_a: CO\_330:0000002 ! XIX-Vegetative period

[Term]

id: CO\_330:0000186  
name: 5-Medium maturing  
def: "From 120 to 149 days." [CIP\_Data\_Dictionary:Descriptor]  
is\_a: CO\_330:0000002 ! XIX-Vegetative period

[Term]

id: CO\_330:0000187  
name: 9-Very late maturing  
def: "More than 180 days." [CIP\_Data\_Dictionary:Descriptor]  
is\_a: CO\_330:0000002 ! XIX-Vegetative period

[Term]

id: CO\_330:0000188  
name: Accession  
def: "A plant or group of similar plants received from a single source at a single time. Each accession is assigned a unique accession number." [UBC\_BOTANICAL\_GARDEN:]  
is\_a: CO\_330:0000000 ! CGIAR Potato Trait Ontology

[Term]

id: CO\_330:0000189  
name: CIP 700001  
is\_a: CO\_330:0000188 ! Accession  
relationship: has\_anther\_pigmentation CO\_330:0000009 ! 0-Absent  
relationship: has\_calyx\_color CO\_330:0000019 ! 5-Pigmented with few green spots  
relationship: has\_flower\_color\_intensity CO\_330:0000027 ! 2-Intermediate  
relationship: has\_flower\_predominant\_color CO\_330:0000033 ! 6-Lilac  
relationship: has\_flower\_secondary\_color CO\_330:0000011 ! 7-Purple  
relationship: has\_flower\_secondary\_color\_distribution CO\_330:0000042 ! 6-Bands on the lower side  
relationship: has\_flower\_shape CO\_330:0000050 ! 5-Pentagonal  
relationship: has\_flowering\_degree CO\_330:0000058 ! 3-Flowering scarce  
relationship: has\_fruit\_color CO\_330:0000023 ! 1-Green  
relationship:  
has\_number\_of\_interjected\_leaflets\_between\_lateral\_leaflets CO\_330:0000094 ! 2 pairs  
relationship: has\_number\_of\_interjected\_leaflets\_on\_the\_petiollules CO\_330:0000009 ! 0-Absent  
relationship: has\_number\_of\_primary\_lateral\_leaflets CO\_330:0000092 ! 5 pairs  
relationship: has\_pedicel\_color CO\_330:0000090 ! 5-Pigmented above articulation  
relationship: has\_pistil\_pigmentation CO\_330:0000009 ! 0-Absent  
relationship: has\_plant\_habit CO\_330:0000110 ! 3-Decumbent  
relationship: has\_stem\_wing\_shape CO\_330:0000125 ! 1-Wing straight

relationship: has\_tuber\_flesh\_predominant\_color CO\_330:0000129 ! 2-Cream  
relationship: has\_tuber\_flesh\_secondary\_color CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_flesh\_secondary\_color\_distribution CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_shape CO\_330:0000146 ! 6-Oblong  
relationship: has\_tuber\_shape\_eye\_deep CO\_330:0000151 ! 5-Slightly deep  
relationship: has\_tuber\_shape\_unusual CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_skin\_color\_intensity CO\_330:0000027 ! 2-Intermediate  
relationship: has\_tuber\_skin\_predominant\_color CO\_330:0000117 ! 6-Red  
relationship: has\_tuber\_skin\_secondary\_color CO\_330:0000223 ! 2-Yellow  
relationship: has\_tuber\_skin\_secondary\_color\_distribution CO\_330:0000182 ! 6-Stippled  
relationship: has\_type\_of\_leaf\_dissection CO\_330:0000078 ! 3-Dissected leaves  
relationship: has\_vegetative\_period CO\_330:0000186 ! 5-Medium maturing

[Term]

id: CO\_330:0000190  
name: CIP 700002  
is\_a: CO\_330:0000188 ! Accession  
relationship: has\_anther\_pigmentation CO\_330:0000009 ! 0-Absent  
relationship: has\_calyx\_color CO\_330:0000019 ! 5-Pigmented with few green spots  
relationship: has\_flower\_color\_intensity CO\_330:0000026 ! 3-Intense  
relationship: has\_flower\_predominant\_color CO\_330:0000011 ! 7-Purple  
relationship: has\_flower\_secondary\_color CO\_330:0000022 ! 1-White  
relationship: has\_flower\_secondary\_color\_distribution CO\_330:0000043 ! 2-Lower side of the acumen  
relationship: has\_flower\_shape CO\_330:0000049 ! 7-Rotate  
relationship: has\_flowering\_degree CO\_330:0000058 ! 3-Flowering scarce  
relationship: has\_fruit\_color CO\_330:0000023 ! 1-Green  
relationship:  
has\_number\_of\_interjected\_leaflets\_between\_lateral\_leaflets CO\_330:0000094 ! 2 pairs  
relationship: has\_number\_of\_interjected\_leaflets\_on\_the\_petiollules CO\_330:0000036 ! 1 pair  
relationship: has\_number\_of\_primary\_lateral\_leaflets CO\_330:0000097 ! 6 pairs  
relationship: has\_pedicel\_color CO\_330:0000086 ! 7-Mostly pigmented and green articulation  
relationship: has\_pistil\_pigmentation CO\_330:0000009 ! 0-Absent  
relationship: has\_plant\_habit CO\_330:0000108 ! 2-Semi-erect  
relationship: has\_sprout\_secondary\_color\_distribution CO\_330:0000009 ! 0-Absent  
relationship: has\_stem\_wing\_shape CO\_330:0000126 ! 3-Wing dentate  
relationship: has\_tuber\_flesh\_predominant\_color CO\_330:0000130 ! 3-Light yellow

relationship: has\_tuber\_flesh\_secondary\_color CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_shape CO\_330:0000146 ! 6-Oblong  
relationship: has\_tuber\_shape\_eye\_deep CO\_330:0000150 ! 7-Deep  
relationship: has\_tuber\_shape\_unusual CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_skin\_color\_intensity CO\_330:0000177 ! 3-Dark  
relationship: has\_tuber\_skin\_predominant\_color CO\_330:0000011 ! 7-Purple  
relationship: has\_tuber\_skin\_secondary\_color CO\_330:0000225 ! 8-Purple  
relationship: has\_tuber\_skin\_secondary\_color\_distribution CO\_330:0000181 ! 1-Pigmented eyes  
relationship: has\_type\_of\_leaf\_dissection CO\_330:0000078 ! 3-Dissected leaves  
relationship: has\_vegetative\_period CO\_330:0000186 ! 5-Medium maturing

[Term]

id: CO\_330:0000191  
name: CIP 700005  
is\_a: CO\_330:0000188 ! Accession  
relationship: has\_anther\_pigmentation CO\_330:0000013 ! 2-Pigmented anther tip (PA)  
relationship: has\_calyx\_color CO\_330:0000019 ! 5-Pigmented with few green spots  
relationship: has\_flower\_color\_intensity CO\_330:0000026 ! 3-Intense  
relationship: has\_flower\_predominant\_color CO\_330:0000011 ! 7-Purple  
relationship: has\_flower\_secondary\_color CO\_330:0000033 ! 6-Lilac  
relationship: has\_flower\_secondary\_color\_distribution CO\_330:0000009 ! 0-Absent  
relationship: has\_flower\_shape CO\_330:0000050 ! 5-Pentagonal  
relationship: has\_flowering\_degree CO\_330:0000058 ! 3-Flowering scarce  
relationship: has\_fruit\_color CO\_330:0000062 ! 2-Green with few white spots  
relationship:  
has\_number\_of\_interjected\_leaflets\_between\_lateral\_leaflets CO\_330:0000036 ! 1 pair  
relationship: has\_number\_of\_interjected\_leaflets\_on\_the\_petiollules CO\_330:0000009 ! 0-Absent  
relationship: has\_number\_of\_primary\_lateral\_leaflets CO\_330:0000093 ! 4 pairs  
relationship: has\_pedicel\_color CO\_330:0000088 ! 4-Slightly pigmented throughout and articulation  
relationship: has\_pistil\_pigmentation CO\_330:0000009 ! 0-Absent  
relationship: has\_plant\_habit CO\_330:0000110 ! 3-Decumbent  
relationship: has\_stem\_wing\_shape CO\_330:0000125 ! 1-Wing straight  
relationship: has\_tuber\_flesh\_predominant\_color CO\_330:0000129 ! 2-Cream  
relationship: has\_tuber\_flesh\_secondary\_color CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_flesh\_secondary\_color\_distribution CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_shape CO\_330:0000146 ! 6-Oblong  
relationship: has\_tuber\_shape\_eye\_deep CO\_330:0000152 ! 3-Shallow

relationship: has\_tuber\_shape\_unusual CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_skin\_color\_intensity CO\_330:0000027 ! 2-Intermediate  
relationship: has\_tuber\_skin\_predominant\_color CO\_330:0000223 ! 2-Yellow  
relationship: has\_tuber\_skin\_secondary\_color CO\_330:0000225 ! 8-Purple  
relationship: has\_tuber\_skin\_secondary\_color\_distribution CO\_330:0000181 ! 1-Pigmented eyes  
relationship: has\_type\_of\_leaf\_dissection CO\_330:0000078 ! 3-Dissected leaves  
relationship: has\_vegetative\_period CO\_330:0000185 ! 1-Very early maturing

[Term]

id: CO\_330:0000192  
name: CIP 700016  
is\_a: CO\_330:0000188 ! Accession  
relationship: has\_anther\_pigmentation CO\_330:0000009 ! 0-Absent  
relationship: has\_calyx\_color CO\_330:0000011 ! 7-Purple  
relationship: has\_flower\_color\_intensity CO\_330:0000026 ! 3-Intense  
relationship: has\_flower\_predominant\_color CO\_330:0000011 ! 7-Purple  
relationship: has\_flower\_secondary\_color CO\_330:0000033 ! 6-Lilac  
relationship: has\_flower\_secondary\_color\_distribution CO\_330:0000043 ! 2-Lower side of the acumen  
relationship: has\_flower\_shape CO\_330:0000050 ! 5-Pentagonal  
relationship: has\_flowering\_degree CO\_330:0000059 ! 5-Flowering moderate  
relationship: has\_fruit\_color CO\_330:0000066 ! 5-Green with purple spots  
relationship:  
has\_number\_of\_interjected\_leaflets\_between\_lateral\_leaflets CO\_330:0000095 ! 3 pairs  
relationship: has\_number\_of\_interjected\_leaflets\_on\_the\_petiollules CO\_330:0000094 ! 2 pairs  
relationship: has\_number\_of\_primary\_lateral\_leaflets CO\_330:0000097 ! 6 pairs  
relationship: has\_pedicel\_color CO\_330:0000091 ! 8-Completely pigmented  
relationship: has\_pistil\_pigmentation CO\_330:0000102 ! 3-Pigmented ovary wall (OW)  
relationship: has\_plant\_habit CO\_330:0000110 ! 3-Decumbent  
relationship: has\_stem\_wing\_shape CO\_330:0000127 ! 2-Wing undulate  
relationship: has\_tuber\_flesh\_predominant\_color CO\_330:0000129 ! 2-Cream  
relationship: has\_tuber\_flesh\_secondary\_color CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_flesh\_secondary\_color\_distribution CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_shape CO\_330:0000146 ! 6-Oblong  
relationship: has\_tuber\_shape\_eye\_deep CO\_330:0000152 ! 3-Shallow  
relationship: has\_tuber\_shape\_unusual CO\_330:0000009 ! 0-Absent



relationship: has\_tuber\_skin\_color\_intensity CO\_330:0000027 ! 2-Intermediate  
relationship: has\_tuber\_skin\_predominant\_color CO\_330:0000174 ! 7-Purplish\_red  
relationship: has\_tuber\_skin\_secondary\_color CO\_330:0000225 ! 8-Purple  
relationship: has\_tuber\_skin\_secondary\_color\_distribution CO\_330:0000227 ! 7-Other  
relationship: has\_type\_of\_leaf\_dissection CO\_330:0000078 ! 3-Dissected leaves  
relationship: has\_vegetative\_period CO\_330:0000081 ! 7-Late maturing

[Term]

id: CO\_330:0000193  
name: CIP 700017  
is\_a: CO\_330:0000188 ! Accession  
relationship: has\_anther\_pigmentation CO\_330:0000009 ! 0-Absent  
relationship: has\_calyx\_color CO\_330:0000019 ! 5-Pigmented with few green spots  
relationship: has\_flower\_color\_intensity CO\_330:0000027 ! 2-Intermediate  
relationship: has\_flower\_predominant\_color CO\_330:0000033 ! 6-Lilac  
relationship: has\_flower\_secondary\_color CO\_330:0000022 ! 1-White  
relationship: has\_flower\_secondary\_color\_distribution CO\_330:0000040 ! 3-Both sides of the acumen  
relationship: has\_flower\_shape CO\_330:0000049 ! 7-Rotate  
relationship: has\_flowering\_degree CO\_330:0000058 ! 3-Flowering scarce  
relationship: has\_fruit\_color CO\_330:0000023 ! 1-Green  
relationship:  
has\_number\_of\_interjected\_leaflets\_between\_lateral\_leaflets CO\_330:0000094 ! 2 pairs  
relationship: has\_number\_of\_interjected\_leaflets\_on\_the\_petiollules CO\_330:0000009 ! 0-Absent  
relationship: has\_number\_of\_primary\_lateral\_leaflets CO\_330:0000093 ! 4 pairs  
relationship: has\_pedicel\_color CO\_330:0000089 ! 6-Pigmented below articulation  
relationship: has\_pistil\_pigmentation CO\_330:0000102 ! 3-Pigmented ovary wall (OW)  
relationship: has\_plant\_habit CO\_330:0000110 ! 3-Decumbent  
relationship: has\_stem\_wing\_shape CO\_330:0000125 ! 1-Wing straight  
relationship: has\_tuber\_flesh\_predominant\_color CO\_330:0000131 ! 4-Yellow  
relationship: has\_tuber\_flesh\_secondary\_color CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_flesh\_secondary\_color\_distribution CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_shape CO\_330:0000146 ! 6-Oblong  
relationship: has\_tuber\_shape\_eye\_deep CO\_330:0000151 ! 5-Slightly deep  
relationship: has\_tuber\_shape\_unusual CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_skin\_color\_intensity CO\_330:0000177 ! 3-Dark  
relationship: has\_tuber\_skin\_predominant\_color CO\_330:0000221 ! 5-Pink

relationship: has\_tuber\_skin\_secondary\_color CO\_330:0000117 ! 6-Red  
relationship: has\_tuber\_skin\_secondary\_color\_distribution  
CO\_330:0000227 ! 7-Other  
relationship: has\_type\_of\_leaf\_dissection CO\_330:0000078 ! 3-Dissected  
leaves  
relationship: has\_vegetative\_period CO\_330:0000186 ! 5-Medium maturing

[Term]

id: CO\_330:0000194  
name: CIP 700020  
is\_a: CO\_330:0000188 ! Accession  
relationship: has\_anther\_pigmentation CO\_330:0000009 ! 0-Absent  
relationship: has\_calyx\_color CO\_330:0000020 ! 4-Pigmented with many  
green spots  
relationship: has\_flower\_color\_intensity CO\_330:0000026 ! 3-Intense  
relationship: has\_flower\_predominant\_color CO\_330:0000033 ! 6-Lilac  
relationship: has\_flower\_secondary\_color CO\_330:0000009 ! 0-Absent  
relationship: has\_flower\_secondary\_color\_distribution CO\_330:0000009 !  
0-Absent  
relationship: has\_flower\_shape CO\_330:0000050 ! 5-Pentagonal  
relationship: has\_flowering\_degree CO\_330:0000058 ! 3-Flowering scarce  
relationship: has\_fruit\_color CO\_330:0000062 ! 2-Green with few white  
spots  
relationship:  
has\_number\_of\_interjected\_leaflets\_between\_lateral\_leaflets  
CO\_330:0000094 ! 2 pairs  
relationship: has\_number\_of\_interjected\_leaflets\_on\_the\_petiollules  
CO\_330:0000036 ! 1 pair  
relationship: has\_number\_of\_primary\_lateral\_leaflets CO\_330:0000093 !  
4 pairs  
relationship: has\_pedicel\_color CO\_330:0000088 ! 4-Slightly pigmented  
throughout and articulation  
relationship: has\_pistil\_pigmentation CO\_330:0000009 ! 0-Absent  
relationship: has\_plant\_habit CO\_330:0000108 ! 2-Semi-erect  
relationship: has\_sprout\_secondary\_color CO\_330:0000009 ! 0-Absent  
relationship: has\_sprout\_secondary\_color\_distribution CO\_330:0000009 !  
0-Absent  
relationship: has\_stem\_wing\_shape CO\_330:0000125 ! 1-Wing straight  
relationship: has\_tuber\_flesh\_predominant\_color CO\_330:0000129 ! 2-  
Cream  
relationship: has\_tuber\_flesh\_secondary\_color CO\_330:0000009 ! 0-  
Absent  
relationship: has\_tuber\_flesh\_secondary\_color\_distribution  
CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_shape CO\_330:0000146 ! 6-Oblong  
relationship: has\_tuber\_shape\_eye\_deep CO\_330:0000151 ! 5-Slightly  
deep  
relationship: has\_tuber\_shape\_unusual CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_skin\_color\_intensity CO\_330:0000176 ! 1-Pale  
relationship: has\_tuber\_skin\_predominant\_color CO\_330:0000223 ! 2-  
Yellow  
relationship: has\_tuber\_skin\_secondary\_color CO\_330:0000225 ! 8-Purple

relationship: has\_tuber\_skin\_secondary\_color\_distribution  
CO\_330:0000227 ! 7-Other  
relationship: has\_type\_of\_leaf\_dissection CO\_330:0000078 ! 3-Dissected  
leaves  
relationship: has\_vegetative\_period CO\_330:0000186 ! 5-Medium maturing

[Term]

id: CO\_330:0000195  
name: CIP 700030  
is\_a: CO\_330:0000188 ! Accession  
relationship: has\_calyx\_color CO\_330:0000019 ! 5-Pigmented with few  
green spots  
relationship: has\_flower\_color\_intensity CO\_330:0000028 ! 1-Light  
relationship: has\_flower\_predominant\_color CO\_330:0000031 ! 8-Violet  
relationship: has\_flower\_secondary\_color CO\_330:0000009 ! 0-Absent  
relationship: has\_flower\_secondary\_color\_distribution CO\_330:0000009 !  
0-Absent  
relationship: has\_flower\_shape CO\_330:0000050 ! 5-Pentagonal  
relationship: has\_flowering\_degree CO\_330:0000059 ! 5-Flowering  
moderate  
relationship: has\_fruit\_color CO\_330:0000023 ! 1-Green  
relationship:  
has\_number\_of\_interjected\_leaflets\_between\_lateral\_leaflets  
CO\_330:0000094 ! 2 pairs  
relationship: has\_number\_of\_interjected\_leaflets\_on\_the\_petiolules  
CO\_330:0000036 ! 1 pair  
relationship: has\_number\_of\_primary\_lateral\_leaflets CO\_330:0000092 !  
5 pairs  
relationship: has\_pedicel\_color CO\_330:0000088 ! 4-Slightly pigmented  
throughout and articulation  
relationship: has\_pistil\_pigmentation CO\_330:0000009 ! 0-Absent  
relationship: has\_plant\_habit CO\_330:0000110 ! 3-Decumbent  
relationship: has\_stem\_wing\_shape CO\_330:0000125 ! 1-Wing straight  
relationship: has\_tuber\_flesh\_predominant\_color CO\_330:0000129 ! 2-  
Cream  
relationship: has\_tuber\_flesh\_secondary\_color CO\_330:0000009 ! 0-  
Absent  
relationship: has\_tuber\_flesh\_secondary\_color\_distribution  
CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_shape CO\_330:0000146 ! 6-Oblong  
relationship: has\_tuber\_shape\_eye\_deep CO\_330:0000151 ! 5-Slightly  
deep  
relationship: has\_tuber\_shape\_unusual CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_skin\_color\_intensity CO\_330:0000027 ! 2-  
Intermediate  
relationship: has\_tuber\_skin\_predominant\_color CO\_330:0000223 ! 2-  
Yellow  
relationship: has\_tuber\_skin\_secondary\_color CO\_330:0000225 ! 8-Purple  
relationship: has\_tuber\_skin\_secondary\_color\_distribution  
CO\_330:0000180 ! 3-Splashed  
relationship: has\_type\_of\_leaf\_dissection CO\_330:0000078 ! 3-Dissected  
leaves

relationship: has\_vegetative\_period CO\_330:0000081 ! 7-Late maturing

[Term]

id: CO\_330:0000196

name: CIP 700031

is\_a: CO\_330:0000188 ! Accession

relationship: has\_anther\_pigmentation CO\_330:0000009 ! 0-Absent

relationship: has\_calyx\_color CO\_330:0000019 ! 5-Pigmented with few green spots

relationship: has\_flower\_color\_intensity CO\_330:0000028 ! 1-Light

relationship: has\_flower\_predominant\_color CO\_330:0000011 ! 7-Purple

relationship: has\_flower\_secondary\_color CO\_330:0000033 ! 6-Lilac

relationship: has\_flower\_secondary\_color\_distribution CO\_330:0000009 ! 0-Absent

relationship: has\_flower\_shape CO\_330:0000049 ! 7-Rotate

relationship: has\_flowering\_degree CO\_330:0000058 ! 3-Flowering scarce

relationship: has\_fruit\_color CO\_330:0000023 ! 1-Green

relationship:

has\_number\_of\_interjected\_leaflets\_between\_lateral\_leaflets

CO\_330:0000094 ! 2 pairs

relationship: has\_number\_of\_interjected\_leaflets\_on\_the\_petiолules

CO\_330:0000009 ! 0-Absent

relationship: has\_number\_of\_primary\_lateral\_leaflets CO\_330:0000092 !

5 pairs

relationship: has\_pedicel\_color CO\_330:0000088 ! 4-Slightly pigmented throughout and articulation

relationship: has\_pistil\_pigmentation CO\_330:0000102 ! 3-Pigmented ovary wall (OW)

relationship: has\_plant\_habit CO\_330:0000110 ! 3-Decumbent

relationship: has\_stem\_wing\_shape CO\_330:0000125 ! 1-Wing straight

relationship: has\_tuber\_flesh\_predominant\_color CO\_330:0000129 ! 2-Cream

relationship: has\_tuber\_flesh\_secondary\_color CO\_330:0000009 ! 0-Absent

relationship: has\_tuber\_flesh\_secondary\_color\_distribution

CO\_330:0000009 ! 0-Absent

relationship: has\_tuber\_shape CO\_330:0000146 ! 6-Oblong

relationship: has\_tuber\_shape\_eye\_deep CO\_330:0000151 ! 5-Slightly deep

relationship: has\_tuber\_shape\_unusual CO\_330:0000009 ! 0-Absent

relationship: has\_tuber\_skin\_color\_intensity CO\_330:0000177 ! 3-Dark

relationship: has\_tuber\_skin\_predominant\_color CO\_330:0000117 ! 6-Red

relationship: has\_tuber\_skin\_secondary\_color CO\_330:0000223 ! 2-Yellow

relationship: has\_tuber\_skin\_secondary\_color\_distribution

CO\_330:0000178 ! 4-Scattered

relationship: has\_type\_of\_leaf\_dissection CO\_330:0000078 ! 3-Dissected leaves

relationship: has\_vegetative\_period CO\_330:0000186 ! 5-Medium maturing

[Term]

id: CO\_330:0000197

name: CIP 700035

is\_a: CO\_330:0000188 ! Accession  
 relationship: has\_anther\_pigmentation CO\_330:0000009 ! 0-Absent  
 relationship: has\_calyx\_color CO\_330:0000019 ! 5-Pigmented with few  
 green spots  
 relationship: has\_flower\_color\_intensity CO\_330:0000027 ! 2-  
 Intermediate  
 relationship: has\_flower\_predominant\_color CO\_330:0000033 ! 6-Lilac  
 relationship: has\_flower\_secondary\_color CO\_330:0000011 ! 7-Purple  
 relationship: has\_flower\_secondary\_color\_distribution CO\_330:0000009 !  
 0-Absent  
 relationship: has\_flower\_shape CO\_330:0000049 ! 7-Rotate  
 relationship: has\_flowering\_degree CO\_330:0000058 ! 3-Flowering scarce  
 relationship: has\_fruit\_color CO\_330:0000062 ! 2-Green with few white  
 spots  
 relationship:  
 has\_number\_of\_interjected\_leaflets\_between\_lateral\_leaflets  
 CO\_330:0000094 ! 2 pairs  
 relationship: has\_number\_of\_interjected\_leaflets\_on\_the\_petiollules  
 CO\_330:0000036 ! 1 pair  
 relationship: has\_number\_of\_primary\_lateral\_leaflets CO\_330:0000092 !  
 5 pairs  
 relationship: has\_pedicel\_color CO\_330:0000090 ! 5-Pigmented above  
 articulation  
 relationship: has\_pistil\_pigmentation CO\_330:0000102 ! 3-Pigmented  
 ovary wall (OW)  
 relationship: has\_plant\_habit CO\_330:0000110 ! 3-Decumbent  
 relationship: has\_sprout\_secondary\_color CO\_330:0000116 ! 2-Pink  
 relationship: has\_stem\_wing\_shape CO\_330:0000125 ! 1-Wing straight  
 relationship: has\_tuber\_flesh\_predominant\_color CO\_330:0000130 ! 3-  
 Light yellow  
 relationship: has\_tuber\_flesh\_secondary\_color CO\_330:0000009 ! 0-  
 Absent  
 relationship: has\_tuber\_flesh\_secondary\_color\_distribution  
 CO\_330:0000009 ! 0-Absent  
 relationship: has\_tuber\_shape CO\_330:0000146 ! 6-Oblong  
 relationship: has\_tuber\_shape\_eye\_deep CO\_330:0000150 ! 7-Deep  
 relationship: has\_tuber\_shape\_unusual CO\_330:0000009 ! 0-Absent  
 relationship: has\_tuber\_skin\_color\_intensity CO\_330:0000027 ! 2-  
 Intermediate  
 relationship: has\_tuber\_skin\_predominant\_color CO\_330:0000174 ! 7-  
 Purplish\_red  
 relationship: has\_tuber\_skin\_secondary\_color CO\_330:0000221 ! 5-Pink  
 relationship: has\_tuber\_skin\_secondary\_color\_distribution  
 CO\_330:0000182 ! 6-Stippled  
 relationship: has\_type\_of\_leaf\_dissection CO\_330:0000078 ! 3-Dissected  
 leaves  
 relationship: has\_vegetative\_period CO\_330:0000186 ! 5-Medium maturing

[Term]

id: CO\_330:0000198  
 name: CIP 70037  
 is\_a: CO\_330:0000188 ! Accession

relationship: has\_anther\_pigmentation CO\_330:0000009 ! 0-Absent  
relationship: has\_calyx\_color CO\_330:0000021 ! 6-Reddish  
relationship: has\_flower\_color\_intensity CO\_330:0000027 ! 2-Intermediate  
relationship: has\_flower\_predominant\_color CO\_330:0000011 ! 7-Purple  
relationship: has\_flower\_secondary\_color CO\_330:0000033 ! 6-Lilac  
relationship: has\_flower\_secondary\_color\_distribution CO\_330:0000009 ! 0-Absent  
relationship: has\_flower\_shape CO\_330:0000050 ! 5-Pentagonal  
relationship: has\_flowering\_degree CO\_330:0000058 ! 3-Flowering scarce  
relationship: has\_fruit\_color CO\_330:0000023 ! 1-Green  
relationship:  
has\_number\_of\_interjected\_leaflets\_between\_lateral\_leaflets  
CO\_330:0000094 ! 2 pairs  
relationship: has\_number\_of\_interjected\_leaflets\_on\_the\_petiollules  
CO\_330:0000036 ! 1 pair  
relationship: has\_number\_of\_primary\_lateral\_leaflets CO\_330:0000092 ! 5 pairs  
relationship: has\_pedicel\_color CO\_330:0000090 ! 5-Pigmented above articulation  
relationship: has\_pistil\_pigmentation CO\_330:0000102 ! 3-Pigmented ovary wall (OW)  
relationship: has\_plant\_habit CO\_330:0000108 ! 2-Semi-erect  
relationship: has\_stem\_wing\_shape CO\_330:0000127 ! 2-Wing undulate  
relationship: has\_tuber\_flesh\_predominant\_color CO\_330:0000130 ! 3-Light yellow  
relationship: has\_tuber\_flesh\_secondary\_color CO\_330:0000011 ! 7-Purple  
relationship: has\_tuber\_flesh\_secondary\_color\_distribution CO\_330:0000135 ! 1-Scattered spots  
relationship: has\_tuber\_shape CO\_330:0000146 ! 6-Oblong  
relationship: has\_tuber\_shape\_eye\_deep CO\_330:0000151 ! 5-Slightly deep  
relationship: has\_tuber\_shape\_unusual CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_skin\_color\_intensity CO\_330:0000177 ! 3-Dark  
relationship: has\_tuber\_skin\_predominant\_color CO\_330:0000225 ! 8-Purple  
relationship: has\_tuber\_skin\_secondary\_color CO\_330:0000174 ! 7-Purplish\_red  
relationship: has\_tuber\_skin\_secondary\_color\_distribution CO\_330:0000227 ! 7-Other  
relationship: has\_type\_of\_leaf\_dissection CO\_330:0000078 ! 3-Dissected leaves  
relationship: has\_vegetative\_period CO\_330:0000187 ! 9-Very late maturing

[Term]

id: CO\_330:0000199

name: CIP 700045

is\_a: CO\_330:0000188 ! Accession

relationship: has\_anther\_pigmentation CO\_330:0000009 ! 0-Absent

relationship: has\_calyx\_color CO\_330:0000021 ! 6-Reddish

relationship: has\_flower\_color\_intensity CO\_330:0000027 ! 2-Intermediate  
relationship: has\_flower\_predominant\_color CO\_330:0000011 ! 7-Purple  
relationship: has\_flower\_secondary\_color CO\_330:0000033 ! 6-Lilac  
relationship: has\_flower\_secondary\_color\_distribution CO\_330:0000009 ! 0-Absent  
relationship: has\_flower\_shape CO\_330:0000050 ! 5-Pentagonal  
relationship: has\_flowering\_degree CO\_330:0000058 ! 3-Flowering scarce  
relationship: has\_fruit\_color CO\_330:0000023 ! 1-Green  
relationship:  
has\_number\_of\_interjected\_leaflets\_between\_lateral\_leaflets CO\_330:0000036 ! 1 pair  
relationship: has\_number\_of\_interjected\_leaflets\_on\_the\_petiollules CO\_330:0000009 ! 0-Absent  
relationship: has\_number\_of\_primary\_lateral\_leaflets CO\_330:0000093 ! 4 pairs  
relationship: has\_pedicel\_color CO\_330:0000091 ! 8-Completely pigmented  
relationship: has\_pistil\_pigmentation CO\_330:0000009 ! 0-Absent  
relationship: has\_plant\_habit CO\_330:0000110 ! 3-Decumbent  
relationship: has\_stem\_wing\_shape CO\_330:0000125 ! 1-Wing straight  
relationship: has\_tuber\_flesh\_predominant\_color CO\_330:0000129 ! 2-Cream  
relationship: has\_tuber\_flesh\_secondary\_color CO\_330:0000117 ! 6-Red  
relationship: has\_tuber\_flesh\_secondary\_color\_distribution CO\_330:0000139 ! 4-Broad vascular ring  
relationship: has\_tuber\_shape CO\_330:0000146 ! 6-Oblong  
relationship: has\_tuber\_shape\_eye\_deep CO\_330:0000151 ! 5-Slightly deep  
relationship: has\_tuber\_shape\_unusual CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_skin\_color\_intensity CO\_330:0000177 ! 3-Dark  
relationship: has\_tuber\_skin\_predominant\_color CO\_330:0000117 ! 6-Red  
relationship: has\_tuber\_skin\_secondary\_color CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_skin\_secondary\_color\_distribution CO\_330:0000009 ! 0-Absent  
relationship: has\_type\_of\_leaf\_dissection CO\_330:0000078 ! 3-Dissected leaves  
relationship: has\_vegetative\_period CO\_330:0000186 ! 5-Medium maturing

[Term]

id: CO\_330:0000200  
name: CIP 700050  
is\_a: CO\_330:0000188 ! Accession  
relationship: has\_anther\_pigmentation CO\_330:0000009 ! 0-Absent  
relationship: has\_calyx\_color CO\_330:0000019 ! 5-Pigmented with few green spots  
relationship: has\_flower\_color\_intensity CO\_330:0000028 ! 1-Light  
relationship: has\_flower\_predominant\_color CO\_330:0000011 ! 7-Purple  
relationship: has\_flower\_secondary\_color CO\_330:0000033 ! 6-Lilac  
relationship: has\_flower\_secondary\_color\_distribution CO\_330:0000009 ! 0-Absent  
relationship: has\_flower\_shape CO\_330:0000049 ! 7-Rotate

relationship: has\_flowering\_degree CO\_330:0000058 ! 3-Flowering scarce  
 relationship: has\_fruit\_color CO\_330:0000023 ! 1-Green  
 relationship:  
 has\_number\_of\_interjected\_leaflets\_between\_lateral\_leaflets  
 CO\_330:0000094 ! 2 pairs  
 relationship: has\_number\_of\_interjected\_leaflets\_on\_the\_petiollules  
 CO\_330:0000009 ! 0-Absent  
 relationship: has\_number\_of\_primary\_lateral\_leaflets CO\_330:0000092 !  
 5 pairs  
 relationship: has\_pedicel\_color CO\_330:0000088 ! 4-Slightly pigmented  
 throughout and articulation  
 relationship: has\_pistil\_pigmentation CO\_330:0000009 ! 0-Absent  
 relationship: has\_plant\_habit CO\_330:0000110 ! 3-Decumbent  
 relationship: has\_stem\_wing\_shape CO\_330:0000127 ! 2-Wing undulate  
 relationship: has\_tuber\_flesh\_predominant\_color CO\_330:0000129 ! 2-  
 Cream  
 relationship: has\_tuber\_flesh\_secondary\_color CO\_330:0000009 ! 0-  
 Absent  
 relationship: has\_tuber\_flesh\_secondary\_color\_distribution  
 CO\_330:0000009 ! 0-Absent  
 relationship: has\_tuber\_shape CO\_330:0000146 ! 6-Oblong  
 relationship: has\_tuber\_shape\_eye\_deep CO\_330:0000152 ! 3-Shallow  
 relationship: has\_tuber\_shape\_unusual CO\_330:0000009 ! 0-Absent  
 relationship: has\_tuber\_skin\_color\_intensity CO\_330:0000176 ! 1-Pale  
 relationship: has\_tuber\_skin\_predominant\_color CO\_330:0000223 ! 2-  
 Yellow  
 relationship: has\_tuber\_skin\_secondary\_color CO\_330:0000009 ! 0-Absent  
 relationship: has\_tuber\_skin\_secondary\_color\_distribution  
 CO\_330:0000009 ! 0-Absent  
 relationship: has\_type\_of\_leaf\_dissection CO\_330:0000078 ! 3-Dissected  
 leaves  
 relationship: has\_vegetative\_period CO\_330:0000186 ! 5-Medium maturing

[Term]

id: CO\_330:0000201  
 name: CIP 700070  
 is\_a: CO\_330:0000188 ! Accession  
 relationship: has-sprout\_predominant\_color CO\_330:0000022 ! 1-White  
 relationship: has\_anther\_pigmentation CO\_330:0000013 ! 2-Pigmented  
 anther tip (PA)  
 relationship: has\_calyx\_color CO\_330:0000020 ! 4-Pigmented with many  
 green spots  
 relationship: has\_flower\_color\_intensity CO\_330:0000026 ! 3-Intense  
 relationship: has\_flower\_predominant\_color CO\_330:0000011 ! 7-Purple  
 relationship: has\_flower\_secondary\_color CO\_330:0000033 ! 6-Lilac  
 relationship: has\_flower\_secondary\_color\_distribution CO\_330:0000009 !  
 0-Absent  
 relationship: has\_flower\_shape CO\_330:0000050 ! 5-Pentagonal  
 relationship: has\_flowering\_degree CO\_330:0000059 ! 5-Flowering  
 moderate  
 relationship: has\_fruit\_color CO\_330:0000023 ! 1-Green



relationship:  
has\_number\_of\_interjected\_leaflets\_between\_lateral\_leaflets  
CO\_330:0000094 ! 2 pairs  
relationship: has\_number\_of\_interjected\_leaflets\_on\_the\_petiollules  
CO\_330:0000036 ! 1 pair  
relationship: has\_number\_of\_primary\_lateral\_leaflets CO\_330:0000092 !  
5 pairs  
relationship: has\_pedicel\_color CO\_330:0000089 ! 6-Pigmented below  
articulation  
relationship: has\_pistil\_pigmentation CO\_330:0000102 ! 3-Pigmented  
ovary wall (OW)  
relationship: has\_plant\_habit CO\_330:0000108 ! 2-Semi-erect  
relationship: has\_sprout\_secondary\_color CO\_330:0000224 ! 4-Purple  
relationship: has\_stem\_wing\_shape CO\_330:0000125 ! 1-Wing straight  
relationship: has\_tuber\_flesh\_predominant\_color CO\_330:0000129 ! 2-  
Cream  
relationship: has\_tuber\_flesh\_secondary\_color CO\_330:0000009 ! 0-  
Absent  
relationship: has\_tuber\_flesh\_secondary\_color\_distribution  
CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_shape CO\_330:0000143 ! 2-Rounded  
relationship: has\_tuber\_shape\_eye\_deep CO\_330:0000151 ! 5-Slightly  
deep  
relationship: has\_tuber\_shape\_unusual CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_skin\_color\_intensity CO\_330:0000177 ! 3-Dark  
relationship: has\_tuber\_skin\_predominant\_color CO\_330:0000223 ! 2-  
Yellow  
relationship: has\_tuber\_skin\_secondary\_color CO\_330:0000174 ! 7-  
Purplish\_red  
relationship: has\_tuber\_skin\_secondary\_color\_distribution  
CO\_330:0000180 ! 3-Splashed  
relationship: has\_type\_of\_leaf\_dissection CO\_330:0000078 ! 3-Dissected  
leaves  
relationship: has\_vegetative\_period CO\_330:0000081 ! 7-Late maturing

[Term]

id: CO\_330:0000202  
name: CIP 700072  
is\_a: CO\_330:0000188 ! Accession  
relationship: has\_anther\_pigmentation CO\_330:0000009 ! 0-Absent  
relationship: has\_calyx\_color CO\_330:0000018 ! 3-Green with many  
pigmented spots  
relationship: has\_flower\_color\_intensity CO\_330:0000027 ! 2-  
Intermediate  
relationship: has\_flower\_predominant\_color CO\_330:0000033 ! 6-Lilac  
relationship: has\_flower\_secondary\_color CO\_330:0000011 ! 7-Purple  
relationship: has\_flower\_secondary\_color\_distribution CO\_330:0000042 !  
6-Bands on the lower side  
relationship: has\_flower\_shape CO\_330:0000050 ! 5-Pentagonal  
relationship: has\_flowering\_degree CO\_330:0000058 ! 3-Flowering scarce  
relationship: has\_fruit\_color CO\_330:0000062 ! 2-Green with few white  
spots

relationship:  
has\_number\_of\_interjected\_leaflets\_between\_lateral\_leaflets  
CO\_330:0000094 ! 2 pairs  
relationship: has\_number\_of\_interjected\_leaflets\_on\_the\_petiollules  
CO\_330:0000009 ! 0-Absent  
relationship: has\_number\_of\_primary\_lateral\_leaflets CO\_330:0000093 !  
4 pairs  
relationship: has\_pedicel\_color CO\_330:0000088 ! 4-Slightly pigmented  
throughout and articulation  
relationship: has\_pistil\_pigmentation CO\_330:0000009 ! 0-Absent  
relationship: has\_plant\_habit CO\_330:0000108 ! 2-Semi-erect  
relationship: has\_stem\_wing\_shape CO\_330:0000125 ! 1-Wing straight  
relationship: has\_tuber\_flesh\_predominant\_color CO\_330:0000129 ! 2-  
Cream  
relationship: has\_tuber\_flesh\_secondary\_color CO\_330:0000009 ! 0-  
Absent  
relationship: has\_tuber\_flesh\_secondary\_color\_distribution  
CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_shape CO\_330:0000146 ! 6-Oblong  
relationship: has\_tuber\_shape\_eye\_deep CO\_330:0000150 ! 7-Deep  
relationship: has\_tuber\_shape\_unusual CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_skin\_predominant\_color CO\_330:0000117 ! 6-Red  
relationship: has\_tuber\_skin\_secondary\_color CO\_330:0000223 ! 2-Yellow  
relationship: has\_tuber\_skin\_secondary\_color\_distribution  
CO\_330:0000182 ! 6-Stippled  
relationship: has\_type\_of\_leaf\_dissection CO\_330:0000078 ! 3-Dissected  
leaves  
relationship: has\_vegetative\_period CO\_330:0000184 ! 3-Early maturing

[Term]

id: CO\_330:0000203  
name: CIP 700075  
is\_a: CO\_330:0000188 ! Accession  
relationship: has\_anther\_pigmentation CO\_330:0000009 ! 0-Absent  
relationship: has\_calyx\_color CO\_330:0000020 ! 4-Pigmented with many  
green spots  
relationship: has\_flower\_color\_intensity CO\_330:0000026 ! 3-Intense  
relationship: has\_flower\_predominant\_color CO\_330:0000011 ! 7-Purple  
relationship: has\_flower\_secondary\_color CO\_330:0000033 ! 6-Lilac  
relationship: has\_flower\_secondary\_color\_distribution CO\_330:0000043 !  
2-Lower side of the acumen  
relationship: has\_flower\_shape CO\_330:0000050 ! 5-Pentagonal  
relationship: has\_flowering\_degree CO\_330:0000058 ! 3-Flowering scarce  
relationship: has\_fruit\_color CO\_330:0000023 ! 1-Green  
relationship:  
has\_number\_of\_interjected\_leaflets\_between\_lateral\_leaflets  
CO\_330:0000094 ! 2 pairs  
relationship: has\_number\_of\_interjected\_leaflets\_on\_the\_petiollules  
CO\_330:0000036 ! 1 pair  
relationship: has\_number\_of\_primary\_lateral\_leaflets CO\_330:0000092 !  
5 pairs

relationship: has\_pedicel\_color CO\_330:0000089 ! 6-Pigmented below articulation  
relationship: has\_pistil\_pigmentation CO\_330:0000102 ! 3-Pigmented ovary wall (OW)  
relationship: has\_plant\_habit CO\_330:0000108 ! 2-Semi-erect  
relationship: has\_stem\_wing\_shape CO\_330:0000125 ! 1-Wing straight  
relationship: has\_tuber\_flesh\_predominant\_color CO\_330:0000022 ! 1-White  
relationship: has\_tuber\_flesh\_secondary\_color CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_flesh\_secondary\_color\_distribution CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_shape CO\_330:0000142 ! 7-Long-oblong  
relationship: has\_tuber\_shape\_eye\_deep CO\_330:0000151 ! 5-Slightly deep  
relationship: has\_tuber\_shape\_unusual CO\_330:0000009 ! 0-Absent  
relationship: has\_tuber\_skin\_color\_intensity CO\_330:0000177 ! 3-Dark  
relationship: has\_tuber\_skin\_predominant\_color CO\_330:0000221 ! 5-Pink  
relationship: has\_tuber\_skin\_secondary\_color CO\_330:0000225 ! 8-Purple  
relationship: has\_tuber\_skin\_secondary\_color\_distribution CO\_330:0000178 ! 4-Scattered  
relationship: has\_type\_of\_leaf\_dissection CO\_330:0000078 ! 3-Dissected leaves  
relationship: has\_vegetative\_period CO\_330:0000186 ! 5-Medium maturing

[Term]

id: CO\_330:0000204  
name: agronomic trait  
is\_a: CO\_330:0000000 ! CGIAR Potato Trait Ontology

[Term]

id: CO\_330:0000205  
name: morphological trait  
is\_a: CO\_330:0000000 ! CGIAR Potato Trait Ontology

[Term]

id: CO\_330:0000219  
name: Tuber outline  
is\_a: CO\_330:0000141 ! XVI-Tuber shape

[Term]

id: CO\_330:0000220  
name: 5-Violet  
synonym: "CO\_330:0000031" RELATED []  
xref: CO\_330:0000031  
is\_a: CO\_330:0000113 ! Sprout\_predominant\_color  
is\_a: CO\_330:0000115 ! Sprout\_secondary\_color

[Term]

id: CO\_330:0000221  
name: 5-Pink  
synonym: "CO\_330:0000116" RELATED []

xref: CO\_330:0000116  
is\_a: CO\_330:0000167 ! Tuber\_skin\_predominant\_color  
is\_a: CO\_330:0000168 ! Tuber\_skin\_secondary\_color

[Term]

id: CO\_330:0000222  
name: 3-Red  
synonym: "CO\_330:0000117" RELATED []  
xref: CO\_330:0000117  
is\_a: CO\_330:0000113 ! Sprout\_predominant\_color  
is\_a: CO\_330:0000115 ! Sprout\_secondary\_color

[Term]

id: CO\_330:0000223  
name: 2-Yellow  
synonym: "CO\_330:0000131" RELATED []  
xref: CO\_330:0000131  
is\_a: CO\_330:0000167 ! Tuber\_skin\_predominant\_color  
is\_a: CO\_330:0000168 ! Tuber\_skin\_secondary\_color

[Term]

id: CO\_330:0000224  
name: 4-Purple  
synonym: "CO\_330:0000011" RELATED []  
synonym: "CO\_330:0000225" RELATED []  
xref: CO\_330:0000011  
xref: CO\_330:0000225  
is\_a: CO\_330:0000113 ! Sprout\_predominant\_color  
is\_a: CO\_330:0000115 ! Sprout\_secondary\_color

[Term]

id: CO\_330:0000225  
name: 8-Purple  
synonym: "CO\_330:0000011" RELATED []  
synonym: "CO\_330:0000224" RELATED []  
xref: CO\_330:0000011  
xref: CO\_330:0000224  
is\_a: CO\_330:0000167 ! Tuber\_skin\_predominant\_color  
is\_a: CO\_330:0000168 ! Tuber\_skin\_secondary\_color

[Term]

id: CO\_330:0000226  
name: 8-Other  
synonym: "CO\_330:0000015" RELATED []  
synonym: "CO\_330:0000227" RELATED []  
synonym: "CO\_330:0000228" RELATED []  
xref: CO\_330:0000015  
xref: CO\_330:0000227  
xref: CO\_330:0000228  
is\_a: CO\_330:0000099 ! IX-Pistil pigmentation

[Term]

id: CO\_330:0000227  
name: 7-Other  
synonym: "CO\_330:0000015" RELATED []  
synonym: "CO\_330:0000226" RELATED []  
synonym: "CO\_330:0000228" RELATED []  
xref: CO\_330:0000015  
xref: CO\_330:0000226  
xref: CO\_330:0000228  
is\_a: CO\_330:0000134 ! Tuber\_flesh\_secondary\_color\_distribution  
is\_a: CO\_330:0000170 ! Tuber\_skin\_secondary\_color\_distribution

[Term]

id: CO\_330:0000228  
name: 9-Other  
synonym: "CO\_330:0000015" RELATED []  
synonym: "CO\_330:0000226" RELATED []  
synonym: "CO\_330:0000227" RELATED []  
xref: CO\_330:0000015  
xref: CO\_330:0000226  
xref: CO\_330:0000227  
is\_a: CO\_330:0000128 ! Tuber\_flesh\_predominant\_color  
is\_a: CO\_330:0000133 ! Tuber\_flesh\_secondary\_color

[Typedef]

id: has-sprout\_predominant\_color  
name: has\_sprout\_predominant\_color

[Typedef]

id: has\_anther\_pigmentation  
name: has\_anther\_pigmentation

[Typedef]

id: has\_calyx\_color  
name: has\_calyx\_color

[Typedef]

id: has\_flower\_color\_intensity  
name: has\_flower\_color\_intensity

[Typedef]

id: has\_flower\_predominant\_color  
name: has\_flower\_predominant\_color

[Typedef]

id: has\_flower\_secondary\_color  
name: has\_flower\_secondary\_color

[Typedef]

id: has\_flower\_secondary\_color\_distribution  
name: has\_flower\_secondary\_color\_distribution

[Typedef]

id: has\_flower\_shape  
name: has\_flower\_shape

[Typedef]  
id: has\_flowering\_degree  
name: has\_flowering\_degree

[Typedef]  
id: has\_fruit\_color  
name: has\_fruit\_color

[Typedef]  
id: has\_fruit\_shape  
name: has\_fruit\_shape

[Typedef]  
id: has\_number\_of\_interjected\_leaflets\_between\_lateral\_leaflets  
name: has\_number\_of\_interjected\_leaflets\_between\_lateral\_leaflets

[Typedef]  
id: has\_number\_of\_interjected\_leaflets\_on\_the\_petiolules  
name: has\_number\_of\_interjected\_leaflets\_on\_the\_petiolules

[Typedef]  
id: has\_number\_of\_primary\_lateral\_leaflets  
name: has\_number\_of\_primary\_lateral\_leaflets

[Typedef]  
id: has\_pedicel\_color  
name: has\_pedicel\_color

[Typedef]  
id: has\_pistil\_pigmentation  
name: has\_pistil\_pigmentation

[Typedef]  
id: has\_plant\_habit  
name: has\_plant\_habit

[Typedef]  
id: has\_sprout\_secondary\_color  
name: has\_sprout\_secondary\_color

[Typedef]  
id: has\_sprout\_secondary\_color\_distribution  
name: has\_sprout\_secondary\_color\_distribution

[Typedef]  
id: has\_stem\_color  
name: has\_stem\_color

[Typedef]

id: has\_stem\_wing\_shape  
name: has\_stem\_wing\_shape

[Typedef]  
id: has\_tuber\_flesh\_predominant\_color  
name: has\_tuber\_flesh\_predominant\_color

[Typedef]  
id: has\_tuber\_flesh\_secondary\_color  
name: has\_tuber\_flesh\_secondary\_color

[Typedef]  
id: has\_tuber\_flesh\_secondary\_color\_distribution  
name: has\_tuber\_flesh\_secondary\_color\_distribution

[Typedef]  
id: has\_tuber\_shape  
name: has\_tuber\_shape

[Typedef]  
id: has\_tuber\_shape\_eye\_deep  
name: has\_tuber\_shape\_eye\_deep

[Typedef]  
id: has\_tuber\_shape\_unusual  
name: has\_tuber\_shape\_unusual

[Typedef]  
id: has\_tuber\_skin\_color\_intensity  
name: has\_tuber\_skin\_color\_intensity

[Typedef]  
id: has\_tuber\_skin\_predominant\_color  
name: has\_tuber\_skin\_predominant\_color

[Typedef]  
id: has\_tuber\_skin\_secondary\_color  
name: has\_tuber\_skin\_secondary\_color

[Typedef]  
id: has\_tuber\_skin\_secondary\_color\_distribution  
name: has\_tuber\_skin\_secondary\_color\_distribution

[Typedef]  
id: has\_type\_of\_leaf\_dissection  
name: has\_type\_of\_leaf\_dissection

[Typedef]  
id: has\_vegetative\_period  
name: has\_vegetative\_period