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default-namespace: chickpea_trait
namespace-id-rule: * CO_338:\$sequence(7,0,9999999)\$

[Term]
id: CO_338:0000000
name: CGIAR chickpea trait ontology

[Term]
id: CO_338:0000001
name: fruit related trait
def: "Helps identify traits related to chickpea pods." [CO:jb]
is_a: CO_338:0000000 ! CGIAR chickpea trait ontology

[Term]
id: CO_338:0000002
name: pod weight
def: "Weight of pods from a plant grown in the pot or field."
[ICRIS:101]
is_a: CO_338:0000001 ! fruit related trait

[Term]
id: CO_338:0000003
name: pod number
def: "Is a count of the number of pods per plant grown in the pot or field." [ICRIS:102]
is_a: CO_338:0000001 ! fruit related trait

[Term]
id: CO_338:0000004
name: pods per plant
def: "Number of pods counted per plant grown in the pot or field."
[ICRIS:103]
is_a: CO_338:0000001 ! fruit related trait

[Term]
id: CO_338:0000005
name: seeds per pod
def: "Number of seeds counted per pod from a plant grown in the pot or field." [ICRIS:104]
is_a: CO_338:0000001 ! fruit related trait

[Term]
id: CO_338:0000006
name: growth and development stage related traits
def: "This will help identify traits that can be categorised under growth/development stages in chickpea." [CO:jb]
is_a: CO_338:0000000 ! CGIAR chickpea trait ontology

[Term]

id: CO_338:0000007
name: apical primary branches number
def: "Mean number of apical primary branches from five representative plants." [ICRIS:105]
is_a: CO_338:0000006 ! growth and development stage related traits

[Term]

id: CO_338:0000008
name: apical secondary branches number
def: "Mean number of apical secondary branches on five representative plants." [ICRIS:106]
is_a: CO_338:0000006 ! growth and development stage related traits

[Term]

id: CO_338:0000009
name: basal primary branches number
def: "Mean number of basal primary branches recorded from five representative plants." [ICRIS:107]
is_a: CO_338:0000006 ! growth and development stage related traits

[Term]

id: CO_338:0000010
name: basal secondary branches number
def: "Mean number of basal secondary branches recorded from five representative plants." [ICRIS:108]
is_a: CO_338:0000006 ! growth and development stage related traits

[Term]

id: CO_338:0000011
name: growth habit
def: "A qualitative description of the growth habit of the plant, whether erect / semi-erect / prostrate / spreading / semi-spreading." [ICRIS:109]
is_a: CO_338:0000006 ! growth and development stage related traits

[Term]

id: CO_338:0000012
name: tertiary branches number
def: "Mean number of tertiary branches on five representative plants." [ICRIS:110]
is_a: CO_338:0000006 ! growth and development stage related traits

[Term]

id: CO_338:0000013
name: plant anatomy related traits
def: "This is to identify traits related to the anatomy of the plant." [CO:jb]
is_a: CO_338:0000000 ! CGIAR chickpea trait ontology

[Term]

id: CO_338:0000014
name: plant width

def: "Mean canopy spread (cm) of five representative plants at the end of flowering." [ICRIS:111]
is_a: CO_338:0000013 ! plant anatomy related traits

[Term]

id: CO_338:0000015
name: plant pigmentation
def: "A qualitative trait measuring the presence or absence of anthocyanin pigmentation in the plant." [ICRIS:112]
is_a: CO_338:0000050 ! phytochemical compound content

[Term]

id: CO_338:0000016
name: flower anatomy related traits
def: "This is to identify traits related to the anatomy of the flower." [CO:jfb]
is_a: CO_338:0000000 ! CGIAR chickpea trait ontology

[Term]

id: CO_338:0000017
name: flower color
def: "A qualitative trait measuring flower color to be white/white with pink streaks/pink/dark pink/light pink/very light pink/blue/light blue." [ICRIS:113]
xref: TO:0000537
is_a: CO_338:0000016 ! flower anatomy related traits

[Term]

id: CO_338:0000018
name: seed anatomy related traits
def: "This is to identify traits related to the anatomy of the seed." [CO:jfb]
is_a: CO_338:0000000 ! CGIAR chickpea trait ontology

[Term]

id: CO_338:0000019
name: seed shape
def: "A qualitative trait measuring seed shape to be either angular/pea shaped/owl's head in shape." [ICRIS:114]
xref: TO:0000484
is_a: CO_338:0000018 ! seed anatomy related traits

[Term]

id: CO_338:0000020
name: seed color
def: "A qualitative trait measuring seed color that could take the values reddish brown/yellowish beige/greyish brown/black/brownish beige/light brown/green/salmon brown/grey/mosaic/light yellow/ivory/yellow/orange brown/yellow brown/orange/beige/brown/light orange/brownish mosaic/light green/dark brown." [ICRIS:115]
xref: TO:0000486
is_a: CO_338:0000018 ! seed anatomy related traits

[Term]
id: CO_338:0000021
name: seed surface
def: "A qualitative trait measuring seed surface that could take the values smooth/rough/tuberculated." [ICRIS:116]
is_a: CO_338:0000018 ! seed anatomy related traits

[Term]
id: CO_338:0000022
name: dots on seed coat
def: "A qualitative trait measuring the presence or absence of dots on the seed coat." [ICRIS:117]
is_a: CO_338:0000018 ! seed anatomy related traits

[Term]
id: CO_338:0000023
name: plant height
def: "Mean canopy height (cm) of five representative plants from soil surface measured at the end of flowering." [ICRIS:118]
is_a: CO_338:0000013 ! plant anatomy related traits

[Term]
id: CO_338:0000024
name: yield traits
def: "This is to identify traits related to yield." [CO:jb]
is_a: CO_338:0000000 ! CGIAR chickpea trait ontology

[Term]
id: CO_338:0000025
name: seed weight
def: "Average weights of air-dried seeds obtained from a plant, representing the overall yield or produce from the field." [ICRIS:119]
xref: TO:0000589
is_a: CO_338:0000024 ! yield traits

[Term]
id: CO_338:0000026
name: 100-seed weight
def: "Measurement in grams of 100 well-developed whole air-dried seeds." [ICRIS:120]
xref: TO:0000269
is_a: CO_338:0000024 ! yield traits

[Term]
id: CO_338:0000027
name: seed yield
def: "Seed yield at maturity (kg ha⁻¹)." [ICRIS:121]
synonym: "grain yield" RELATED []
xref: TO:0000396
is_a: CO_338:0000024 ! yield traits

[Term]
id: CO_338:0000028
name: seed number
def: "Number of seeds in the pod of sampled legume plant/s."
[ICRIS:122]
xref: TO:0000445
is_a: CO_338:0000024 ! yield traits

[Term]
id: CO_338:0000029
name: harvest index
def: "Proportion of usable (economically significant) biomass over total (biological) biomass, expressed as a percentage." [ICRIS:123]
xref: TO:0000128
is_a: CO_338:0000024 ! yield traits

[Term]
id: CO_338:0000030
name: shoot weight
def: "Weight of the shoot without roots." [ICRIS:124]
xref: TO:0000568
is_a: CO_338:0000024 ! yield traits

[Term]
id: CO_338:0000031
name: abiotic stress trait
def: "This is to identify traits measured in relation to abiotic stress." [CO:jb]
is_a: CO_338:0000000 ! CGIAR chickpea trait ontology

[Term]
id: CO_338:0000032
name: shoot sodium
def: "Shoot sodium content in % from plants/subsetof plants at vegetative stage." [ICRIS:125]
is_a: CO_338:0000031 ! abiotic stress trait

[Term]
id: CO_338:0000033
name: shoot potassium
def: "Shoot potassium content in % from plants/subset of plants at vegetative stage." [ICRIS:126]
is_a: CO_338:0000031 ! abiotic stress trait

[Term]
id: CO_338:0000034
name: root weight
def: "The average dry or fresh weight of the root determined in a study." [ICRIS:127]
xref: TO:0000279
is_a: CO_338:0000031 ! abiotic stress trait

[Term]
id: CO_338:0000035
name: fungal disease resistance
def: "This is to identify traits that assess damage caused by fungal infection." [CO:jb]
is_a: CO_338:0000000 ! CGIAR chickpea trait ontology

[Term]
id: CO_338:0000036
name: Botrytis grey mold resistance
def: "Causative agent:Botrytis cinerea.It causes water soaked and irregular lesions on the pod that contain either small shriveled seeds or no seeds at all; lesions girdle the stem completely." [ICRIS:128]
is_a: CO_338:0000035 ! fungal disease resistance

[Term]
id: CO_338:0000037
name: Fusarium wilt resistance
def: "Causative agent:Fusarium oxysporum f.sp. ciceris.It causes seedlings to die, seedlings collapse and lie flat on the ground, when uprooted plants show uneven shrinking of the stem above and below the collar region." [ICRIS:129]
is_a: CO_338:0000035 ! fungal disease resistance

[Term]
id: CO_338:0000038
name: Colleotrichum blight resistance
def: "Causative agent:Colletotrichum capsici.It causes elongated, sunken, dark brown spots on the lower part of the stem, wilting and drying due to severe infection." [ICRIS:130]
is_a: CO_338:0000035 ! fungal disease resistance

[Term]
id: CO_338:0000039
name: Ascochyta blight resistance
def: "Causative agent:Ascochyta rabiei.It causes dark brown lesions at the base of the stem of emerging seedlings, seen during the flowering and podding phases as patches of blighted plants in the field, affected seedlings die." [ICRIS:131]
is_a: CO_338:0000035 ! fungal disease resistance

[Term]
id: CO_338:0000040
name: Insect damage resistance
def: "This is to identify traits that assess damage caused by insects." [CO:jb]
is_a: CO_338:0000000 ! CGIAR chickpea trait ontology

[Term]
id: CO_338:0000041
name: Pod borer

def: "Causative agent:Helicoverpa armigera. The insect feeds on all green parts and defoliate young crops, large larvae cut round holes in the pod wall and devour the seed inside. The extent of damage is measured in %." [ICRIS:132]

is_a: CO_338:0000040 ! Insect damage resistance

[Term]

id: CO_338:0000042

name: Flowering time

def: "This is to identify traits associated with the time of flowering." [CO:jb]

is_a: CO_338:0000000 ! CGIAR chickpea trait ontology

[Term]

id: CO_338:0000043

name: days to flowering

def: "Number of days to flower after emergence, obtained from subtracting the flowering date from the sowing date." [ICRIS:133]

xref: TO:0000344

is_a: CO_338:0000042 ! Flowering time

[Term]

id: CO_338:0000044

name: days to maturity

def: "Number of days from sowing to maturity." [ICRIS:134]

xref: TO:0000469

is_a: CO_338:0000006 ! growth and development stage related traits

[Term]

id: CO_338:0000045

name: plant number per pot

def: "Number of plants per pot." [ICRIS:135]

is_a: CO_338:0000006 ! growth and development stage related traits

[Term]

id: CO_338:0000046

name: TDM at maturity

def: "The dry weight of the whole plant at maturity." [ICRIS:136]

synonym: "plant dry weight" RELATED []

synonym: "total dry mass" RELATED []

xref: TO:0000352

is_a: CO_338:0000024 ! yield traits

[Term]

id: CO_338:0000047

name: TDM without roots

def: "The dry weight of the whole plant minus roots." [ICRIS:137]

synonym: "plant dry weight" RELATED []

synonym: "total dry mass" RELATED []

xref: TO:0000352

is_a: CO_338:0000024 ! yield traits

[Term]
id: CO_338:0000048
name: filled double pod number
def: "Is a count of the number of filled chickpea double pods produced by a double podded line." [ICRIS:138]
is_a: CO_338:0000003 ! pod number

[Term]
id: CO_338:0000049
name: flowering duration
def: "Number of days over which plants continue to flower."
[ICRIS:139]
is_a: CO_338:0000042 ! Flowering time

[Term]
id: CO_338:0000050
name: phytochemical compound content
def: "This will help identify traits related to pigmentation." [CO:jb]
is_a: CO_338:0000000 ! CGIAR chickpea trait ontology