

format-version: 1.2
date: 10:09:2009 15:22
auto-generated-by: OBO-Edit 2.0
default-namespace: sorghum_trait
namespace-id-rule: * CO_324:\$sequence(7,0,9999999)\$

[Term]
id: CO_324:0000000
name: CGIAR sorghum trait ontology

[Term]
id: CO_324:0000001
name: leaf related traits
def: "A trait associated with the leaf." [CO:jb]
comment: This will help identify leaf related trait terms.
is_a: CO_324:0000000 ! CGIAR sorghum trait ontology

[Term]
id: CO_324:0000002
name: Flag leaf weight
def: "Weight of the flag leaf (the one just below the panicle)."
[ICRIS:002]
synonym: "<new synonym>" RELATED []
is_a: CO_324:0000001 ! leaf related traits

[Term]
id: CO_324:0000003
name: Rest of leaves weight
def: "Total leaf weight minus flag leaf weight per pot." [ICRIS:003]
is_a: CO_324:0000001 ! leaf related traits

[Term]
id: CO_324:0000004
name: leaf weight
def: "Measure of the leaf weight." [ICRIS:021]
synonym: "<new synonym>" RELATED []
synonym: "LFWT" EXACT []
xref: TO:0000505
is_a: CO_324:0000001 ! leaf related traits

[Term]
id: CO_324:0000005
name: grain related trait
def: "This will help identify grain-related traits." [CO:jb]
is_a: CO_324:0000000 ! CGIAR sorghum trait ontology

[Term]
id: CO_324:0000006
name: Grain dry weight
def: "Dry weight of the grains." [ICRIS:005]
is_a: CO_324:0000005 ! grain related trait

[Term]
id: CO_324:0000007
name: grain number
def: "Number of grains in one panicle." [ICRIS:007]
synonym: "kernel number" EXACT []
xref: TO:0002759
xref: XX:<new dbxref>
is_a: CO_324:0000005 ! grain related trait

[Term]
id: CO_324:0000008
name: Grain weight over panicle
def: "Weight of grain over that of panicle." [ICRIS:006]
is_a: CO_324:0000005 ! grain related trait

[Term]
id: CO_324:0000009
name: grain number per square meter
def: "Number of grains in the inflorescence per square meter."
[ICRIS:008]
synonym: "grain number per square meter" RELATED []
xref: TO:0002759
is_a: CO_324:0000005 ! grain related trait

[Term]
id: CO_324:0000010
name: panicle related trait
def: "This is to identify traits related to the panicle." [CO:jb]
is_a: CO_324:0000000 ! CGIAR sorghum trait ontology

[Term]
id: CO_324:0000011
name: panicle weight
def: "Weight of the panicles from the plants in a pot or plot."
[ICRIS:009]
synonym: "<new synonym>" RELATED []
synonym: "PNWT" EXACT []
xref: TO:0000014
is_a: CO_324:0000010 ! panicle related trait

[Term]
id: CO_324:0000012
name: panicle harvest index
def: "Indicates grain weight divided by panicle weight." [ICRIS:010]
synonym: "<new synonym>" RELATED []
synonym: "PNHI" EXACT []
xref: XX:<new dbxref>
is_a: CO_324:0000010 ! panicle related trait

[Term]
id: CO_324:0000013
name: number of panicles

def: "Number of panicles per plant or per pot." [ICRIS:011]
synonym: "number of panicle" EXACT []
xref: TO:0000152
xref: XX:<new dbxref>
is_a: CO_324:0000010 ! panicle related trait

[Term]

id: CO_324:0000014
name: panicle weight without grain
def: "Weight of the panicle without grain." [ICRIS:004]
is_a: CO_324:0000010 ! panicle related trait

[Term]

id: CO_324:0000015
name: yield related trait
def: "This identifies terms related to yield." [CO:jb]
is_a: CO_324:0000000 ! CGIAR sorghum trait ontology

[Term]

id: CO_324:0000016
name: Nitrogen digestibility
def: "Value derived from the analysis of stover using Near Infrared Reflectance Spectrophotometry (NIRS)." [ICRIS:024]
is_a: CO_324:0000030 ! stover related traits

[Term]

id: CO_324:0000017
name: seed weight
def: "Average weight of seeds obtained from a plant\\, representing the overall yields or produce from the field." [ICRIS:012]
xref: TO:0000181
is_a: CO_324:0000015 ! yield related trait

[Term]

id: CO_324:0000018
name: 100 seed weight
def: "The weight of 100 seeds in grams." [ICRIS:014]
synonym: "hundred gram weight" RELATED []
is_a: CO_324:0000015 ! yield related trait

[Term]

id: CO_324:0000019
name: harvest index
def: "Proportion of usable (economically significant) biomass over total (biological) biomass\\, expressed as a percentage." [ICRIS:015]
synonym: "<new synonym>" RELATED []
synonym: "HI" RELATED []
synonym: "HVID" RELATED []
xref: TO:0000128
is_a: CO_324:0000015 ! yield related trait

[Term]

id: CO_324:0000020
name: Biomass dry weight
def: "The dry weight of the whole plant." [ICRIS:016]
synonym: "plant dry weight" RELATED []
synonym: "TDM" RELATED []
xref: TO:0000352
is_a: CO_324:0000015 ! yield related trait

[Term]

id: CO_324:0000021
name: stem related trait
def: "This will help identify stem anatomical and morphological traits." [CO:jb]
is_a: CO_324:0000000 ! CGIAR sorghum trait ontology

[Term]

id: CO_324:0000022
name: stem weight
def: "Weight of stem measured in grams." [ICRIS:017]
is_a: CO_324:0000021 ! stem related trait

[Term]

id: CO_324:0000023
name: mineral and ion content related trait
def: "This will identify traits related to ion content." [CO:jb]
is_a: CO_324:0000000 ! CGIAR sorghum trait ontology

[Term]

id: CO_324:0000024
name: shoot sodium content
def: "The percent sodium ion content measured in the shoot."
[ICRIS:018]
is_a: CO_324:0000023 ! mineral and ion content related trait

[Term]

id: CO_324:0000025
name: shoot potassium content
def: "The percent content of potassium ion measured in the shoots of the plant." [ICRIS:019]
is_a: CO_324:0000023 ! mineral and ion content related trait

[Term]

id: CO_324:0000026
name: flowering time
def: "This will help identify traits related to flowering time."
[CO:jb]
is_a: CO_324:0000000 ! CGIAR sorghum trait ontology

[Term]

id: CO_324:0000027
name: days to flower
def: "Number of days from emergence to flowering stage." [ICRIS:020]

synonym: "days to flowering" EXACT []
xref: TO:0000344
is_a: CO_324:0000026 ! flowering time

[Term]

id: CO_324:0000028
name: stem over leaf weight
def: "The ratio of the weight of stem over weight of leaves."
[ICRIS:021]
is_a: CO_324:0000021 ! stem related trait

[Term]

id: CO_324:0000029
name: days to flower-post rainy
def: "Number of days from emergence to flowering stage measured in the post-rainy season (rabi)." [ICRIS:032]
synonym: "days to flowering" EXACT []
xref: TO:0000344
is_a: CO_324:0000026 ! flowering time

[Term]

id: CO_324:0000030
name: stover related traits
def: "This will help identify traits related to stover." [CO:jb]
is_a: CO_324:0000000 ! CGIAR sorghum trait ontology

[Term]

id: CO_324:0000031
name: organic matter digestibility
def: "Value derived from chemical analysis of dried and ground stover, usually using Near Infrared Reflectance Spectrophotometry (NIRS)."
[ICRIS:022]
is_a: CO_324:0000030 ! stover related traits

[Term]

id: CO_324:0000032
name: stover dry weight
def: "The weight of dry stalks and leaves (stover) from a plant or plants from a pot." [ICRIS:023]
is_a: CO_324:0000030 ! stover related traits

[Term]

id: CO_324:0000033
name: growth and development stage related traits
def: "This will help identify traits that can be categorised under growth/development stages in sorghum." [CO:jb]
is_a: CO_324:0000000 ! CGIAR sorghum trait ontology

[Term]

id: CO_324:0000034
name: days to maturity
def: "Number of days from planting to maturity." [ICRIS:013]

xref: TO:0000469
is_a: CO_324:0000033 ! growth and development stage related traits

[Term]

id: CO_324:0000035
name: days to harvest
def: "Number of days from planting to harvest." [ICRIS:025]
xref: TO:0000469
is_a: CO_324:0000033 ! growth and development stage related traits

[Term]

id: CO_324:0000036
name: metabolised energy
def: "Value derived from chemical analysis of dried and ground stover, ." [ICRIS:026]
is_a: CO_324:0000030 ! stover related traits

[Term]

id: CO_324:0000037
name: plant height
def: "Length (cm) of the main stalk recorded on 10 random plants from the base of the stalk to the tip of the panicle." [ICRIS:027]
is_a: CO_324:0000033 ! growth and development stage related traits

[Term]

id: CO_324:0000038
name: plant height-postrainy
def: "Mean canopy height (cm) of representative plants from soil surface measured at the end of flowering in the post-rainy season(rabi)." [ICRIS:028]
is_a: CO_324:0000033 ! growth and development stage related traits

[Term]

id: CO_324:0000039
name: nodal tillering
def: "The presence or absence of tillers arising from the upper nodes in sorghum stems." [ICRIS:029]
is_a: CO_324:0000033 ! growth and development stage related traits

[Term]

id: CO_324:0000040
name: basal tillers number
def: "Number of basal tillers measured on plants in the field." [ICRIS:030]
is_a: CO_324:0000033 ! growth and development stage related traits

[Term]

id: CO_324:0000041
name: days to flower-rainy
def: "Number of days from emergence to flowering stage measured in the rainy season (kharif)." [ICRIS:031]
synonym: "days to flowering" EXACT []

xref: TO:0000344
is_a: CO_324:0000026 ! flowering time

[Term]

id: CO_324:0000042
name: panicle width
def: "Width of the panicle in (cm) from the plants in a pot or field."
[ICRIS:033]
synonym: "EHWD" RELATED []
xref: TO:0000637
is_a: CO_324:0000010 ! panicle related trait

[Term]

id: CO_324:0000043
name: glume covering
def: "Cover over the grain measured in (%) or as either
uncovered/fully/half/three quarters/one quarter covered." [ICRIS:034]
xref: TO:0001000
is_a: CO_324:0000051 ! spikelet anatomy and morphology trait

[Term]

id: CO_324:0000044
name: seed subcoat
def: "A qualitative trait measured as the presence or absence of a
seed subcoat." [ICRIS:035]
is_a: CO_324:0000005 ! grain related trait

[Term]

id: CO_324:0000045
name: seed color
def: "The color of the seed." [ICRIS:036]
xref: TO:0000486
is_a: CO_324:0000005 ! grain related trait

[Term]

id: CO_324:0000046
name: seed size
def: "The size of the seed in mm." [ICRIS:037]
xref: TO:0000391
is_a: CO_324:0000005 ! grain related trait

[Term]

id: CO_324:0000047
name: seed lustre
def: "A qualitative trait measured as either lustrous or non lustrous
seed." [ICRIS:038]
is_a: CO_324:0000005 ! grain related trait

[Term]

id: CO_324:0000048
name: panicle length

def: "Is the actual measurement of panicle in centimeters from panicle base to tip." [ICRIS:039]
is_a: CO_324:0000010 ! panicle related trait

[Term]

id: CO_324:0000049
name: panicle exertion
def: "Degree of emergence of the panicle from the flag leaf sheath." [ICRIS:040]
is_a: CO_324:0000010 ! panicle related trait

[Term]

id: CO_324:0000050
name: panicle compactness and shape
def: "Trait evaluates the compactness and shape of the panicle as either with loose drooping branches/semi-loose drooping/very loose/very loose stiff branches/compact oval/compact elliptic/semi-compact oval or elliptic." [ICRIS:041]
is_a: CO_324:0000010 ! panicle related trait

[Term]

id: CO_324:0000051
name: spikelet anatomy and morphology trait
def: "This will help identify traits related to spikelet morphology and anatomy." [CO:jb]
is_a: CO_324:0000000 ! CGIAR sorghum trait ontology

[Term]

id: CO_324:0000052
name: glume color
def: "Color of the glume." [ICRIS:042]
xref: TO:0000221
is_a: CO_324:0000051 ! spikelet anatomy and morphology trait

[Term]

id: CO_324:0000053
name: phytochemical compound content
def: "This will help identify traits related to pigmentation." [CO:jb]
is_a: CO_324:0000000 ! CGIAR sorghum trait ontology

[Term]

id: CO_324:0000054
name: plant pigmentation
def: "Pigmentation of the whole plant, whether pigmented or tanned." [ICRIS:043]
is_a: CO_324:0000053 ! phytochemical compound content

[Term]

id: CO_324:0000055
name: leaf color
def: "This will help identify traits related to pigmentation of the leaf." [CO:jb]

is_a: CO_324:0000000 ! CGIAR sorghum trait ontology

[Term]

id: CO_324:0000056

name: leaf vein color

def: "This will help identify traits related to pigmentation of the leaf-vein." [CO:jb]

is_a: CO_324:0000055 ! leaf color

[Term]

id: CO_324:0000057

name: leaf midrib color

def: "Trait measures leaf midrib color whether brown / dull green /yellow /white" [ICRIS:044]

xref: TO:0000720

is_a: CO_324:0000056 ! leaf vein color

[Term]

id: CO_324:0000058

name: threshability

def: "The threshability of the panicle, either difficult to thresh, freely threshable or partly threshable." [ICRIS:045]

synonym: "panicle threshability" RELATED []

xref: TO:0000406

is_a: CO_324:0000069 ! inflorescence anatomy and morphology trait

[Term]

id: CO_324:0000059

name: fungal disease resistance

def: "This is to identify traits that assess damage caused by fungal infection." [CO:jb]

is_a: CO_324:0000000 ! CGIAR sorghum trait ontology

[Term]

id: CO_324:0000060

name: sorghum leaf blight resistance

def: "Causative agent:Setosphaeria turcica.It causes large cigar shaped lesions on leaves; on young leaves lesions are small, narrow and water soaked.Colorof the lesions are yellow, red or black depending on the cultivar" [ICRIS:046]

is_a: CO_324:0000059 ! fungal disease resistance

[Term]

id: CO_324:0000061

name: sorghum downy mildew resistance-field

def: "Causative agent:Peronospora sp.It causes abundant downy white growth on the under surfaces of infected portions of leaves during humid weather, mature infected leaves become necrotic and intervenal tissues disintegrate to give the typical shredded leaf symptom.The resistance measured in % is carried out on plants grown in the field." [ICRIS:047]

is_a: CO_324:0000059 ! fungal disease resistance

[Term]
id: CO_324:0000062
name: sorghum downy mildew resistance - glasshouse
def: "Causative agent:Peronospora sp.The resistance measured in % is carried out on plants grown in the glasshouse." [ICRIS:048]
is_a: CO_324:0000059 ! fungal disease resistance

[Term]
id: CO_324:0000063
name: sorghum rust resistance
def: "Causative agent: Puccinia purpurea. Infection causes purple, red or tan flecks on both surfaces of leaves, leaving a reddish powder on fingers when passed over it. The trait measures % area of leaf damaged." [ICRIS:049]
is_a: CO_324:0000059 ! fungal disease resistance

[Term]
id: CO_324:0000064
name: sorghum grain mold
def: "Causative agent: Aspergillus spp and Penicillium spp. Trait is measured as extent of grain surface covered with mold. Molded grain show pink, orange, gray, white or black discoloration depending on the fungus involved." [ICRIS:050]
is_a: CO_324:0000059 ! fungal disease resistance

[Term]
id: CO_324:0000065
name: Insect damage resistance
def: "This is to identify traits that evaluate damage caused by insects." [CO:jb]
is_a: CO_324:0000000 ! CGIAR sorghum trait ontology

[Term]
id: CO_324:0000066
name: sorghum shoot fly resistance-rainy
def: "Causative agent:Atherigona soccata. Larval feeding results in central leaf wilting and drying causing the typical deadheart symptom.The susceptibility or resistance of the plants is evaluated in the rainy(Kharif) season" [ICRIS:051]
is_a: CO_324:0000065 ! Insect damage resistance

[Term]
id: CO_324:0000067
name: sorghum shoot fly resistance-post-rainy
def: "Causative agent:Atherigona soccata. Larval feeding results in central leaf wilting and drying causing the typical deadheart symptom.The susceptibility or resistance of the plants is evaluated in the post-rainy(rabi) season" [ICRIS:052]
is_a: CO_324:0000065 ! Insect damage resistance

[Term]

id: CO_324:0000068
name: sorghum stem borer resistance
def: "Causative agent:Chilo partellus. Infections causes the appearance of small elongated holes in young whorl leaves, tunnelling of earheads results in breakage or chaffy earheads affecting grain development." [ICRIS:053]
is_a: CO_324:0000065 ! Insect damage resistance

[Term]

id: CO_324:0000069
name: inflorescence anatomy and morphology trait
def: "This will help identify traits related to inflorescence morphology and anatomy." [CO:jb]
is_a: CO_324:0000000 ! CGIAR sorghum trait ontology