# HW2

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### 一、變數定義

"", "", ""),

```
mushroom_data <- data.frame(</pre>
     Variable = c('family', 'name', 'class', 'cap.diameter_min', 'cap.diameter_max', 'cap.shape',
                                        'Cap.surface', 'cap.color', 'does.bruise.or.bleed', 'gill.attachment',
                                        'gill.spacing', 'gill.color', 'stem.height_min', 'stem.height_max', 'stem.width_min',
                                       'stem.width_max', 'stem.root', 'stem.surface', 'stem.color', 'veil.type', 'veil.color',
                                       'has.ring', 'ring.type', 'Spore.print.color', 'habitat', 'season',
                                       'cap.diameter_mean', 'stem.height_mean', 'stem.width_mean'),
     `Data Type` = c('character', 'character', 'factor', 'numerical', 'numerical', 'factor', 'factor'
                                               'factor', 'numerical', 'numerical', 'numerical', 'factor', 'facotr', 'facotr
                                               'factor', 'factor', 'factor', 'numerical', 'numerical'),
     Definition = c("Mushrooms' family", "Mushrooms' name", "Edible or not", "The minimum of mushrooms' cap
                                            "The maximum of mushrooms' cap diameter", "The shape of mushrooms' cap", "The surface of
                                            "The color of mushrooms' cap", "Mushrooms' bruise or bleed or not", "How the gill attac
                                            "The space between the gill", "The color of the gill", "The minimum height of mushrooms
                                            "The maximum height of mushrooms' stem", "The minimum width of mushrooms' stem",
                                            "The maximum width of mushrooms' stem", "The root of mushrooms' stem", "The surface of
                                            "The color of mushrooms' stem", "The type of veil is partial or universal", "The color
                                            "Mushrooms have ring or not", "What the type of mushrooms' ring is", "The color of mush
                                            "Mushrooms' habitat", "The season mushroom grows", "The mean of mushrooms' cap diameter
                                            "The mean height of mushrooms' stem", "The mean width of mushrooms' stem"),
     Note = c("", "", "poisonous=p, edible=e", "", "", "bell=b, conical=c, convex=x, flat=f, sunken=s, sphe
                             "fibrous=i, grooves=g, scaly=y, smooth=s, shiny=h, leathery=l, silky=k, sticky=t, wrinkled=w
                             "brown=n, buff=b, gray=g, green=r, pink=p, purple=u, red=e, white=w, yellow=y, blue=l, orange
                             "bruise-or-bleeding=t, no=f", "adnate=a, adnexed=x, decurrent=d, free=e, sinuate=s, pores=p,
                             "close=c, distant=d, none=f", "brown=n, buff=b, gray=g, green=r, pink=p, purple=u, red=e, wh:
                             "", "", "", "bulbous=b, swollen=s, club=c, cup=u, equal=e, rhizomorphs=z, rooted=r",
                             "fibrous=i, grooves=g, scaly=y, smooth=s, shiny=h, leathery=l, silky=k, sticky=t, wrinkled=w
                             "brown=n, buff=b, gray=g, green=r, pink=p, purple=u, red=e, white=w, yellow=y, blue=l, orange
                             "ring=t, none=f", "cobwebby=c, evanescent=e, flaring=r, grooved=g, large=l, pendant=p, sheatl
```

"brown=n, buff=b, gray=g, green=r, pink=p, purple=u, red=e, white=w, yellow=y, blue=l, orange "grasses=g, leaves=l, meadows=m, paths=p, heaths=h, urban=u, waste=w, woods=d", "spring=s, so

```
stringsAsFactors = FALSE
)
knitr::kable(mushroom_data)
```

Variable	Data.T	Гу <b>ре</b> finition	Note
family	charac	ctle/tushrooms'	
		family	
name	charac	ctle/hushrooms'	
		name	
class		Edible or not	poisonous=p, edible=e
cap.diame	tenume	ri <b>Ta</b> le minimum of	
		mushrooms' cap diameter	
can diame	tom i monov	ri <b>Ta</b> le maximum of	
cap.aiairic	canarias	mushrooms' cap	
		diameter	
cap.shape	factor	The shape of	bell=b, conical=c, convex=x, flat=f, sunken=s,
		mushrooms' cap	spherical=p, others=o
Cap.surfac	e factor	The surface of	fibrous=i, grooves=g, scaly=y, smooth=s, shiny=h,
•		mushrooms' cap	leathery=I, silky=k, sticky=t, wrinkled=w, fleshy=e
cap.color	factor	The color of	brown=n, buff=b, gray=g, green=r, pink=p, purple=u,
		mushrooms' cap	red=e, white=w, yellow=y, blue=l, orange=o, black=k
does.bruis	e. <b>Cardoloe</b> r	e <b>d</b> /lushrooms'	bruise-or-bleeding=t, no=f
		bruise or bleed or	
	<b>.</b>	not	
gill.attachr	n <b>eac</b> tor	How the gill attach	adnate=a, adnexed=x, decurrent=d, free=e, sinuate=s,
مناا معمونهم	. f	The ange	pores=p, none=f, unknown=x
giii.spacing	j lactor	The space between the gill	close=c, distant=d, none=f
gill.color	factor	The color of the	brown=n, buff=b, gray=g, green=r, pink=p, purple=u,
giii.coioi	ractor	gill	red=e, white=w, yellow=y, blue=l, orange=o, black=k,
		9	none=f
stem.heiah	ntm <b>ain</b> e	ri <b>₹a</b> le minimum	
	_	height of	
		mushrooms'	
		stem	
stem.heigh	nt <u>r</u> maane	ri <b>Tal</b> e maximum	
		height of	
		mushrooms'	
		stem	
stem.wiatr	ı_mume	ri <b>Tal</b> e minimum	
		width of mushrooms'	
		stem	
stem width	mme	ri <b>Ta</b> le maximum	
Sterri.wiati	i_iiuxici	width of	
		mushrooms'	
		stem	
stem.root	factor	The root of	bulbous=b, swollen=s, club=c, cup=u, equal=e,
		mushrooms'	rhizomorphs=z, rooted=r
		stem	

Variable	Data.T	<b>урe</b> finition	Note
stem.surfac	c∉acotr	The surface of mushrooms' stem	fibrous=i, grooves=g, scaly=y, smooth=s, shiny=h, leathery=l, silky=k, sticky=t, wrinkled=w, fleshy=e, none=f
stem.color	factor	The color of mushrooms' stem	brown=n, buff=b, gray=g, green=r, pink=p, purple=u, red=e, white=w, yellow=y, blue=l, orange=o, black=k, none=f
veil.type	factor	The type of veil is partial or universal	partial=p, universal=u
veil.color	factor	The color of mushrooms' veil	brown=n, buff=b, gray=g, green=r, pink=p, purple=u, red=e, white=w, yellow=y, blue=l, orange=o, black=k, none=f
has.ring	factor	Mushrooms have ring or not	ring=t, none=f
ring.type	factor	What the type of mushrooms' ring is	cobwebby=c, evanescent=e, flaring=r, grooved=g, large=l, pendant=p, sheathing=s, zone=z, scaly=y, movable=m, none=f, unknown=z
Spore.print	t. <b>đebo</b> or	The color of mushrooms' spore print	brown=n, buff=b, gray=g, green=r, pink=p, purple=u, red=e, white=w, yellow=y, blue=l, orange=o, black=k
habitat	factor	Mushrooms' habitat	grasses=g, leaves=l, meadows=m, paths=p, heaths=h, urban=u, waste=w, woods=d
season	factor	The season mushroom grows	spring=s, summer=u, autumn=a, winter=w
cap.diamet	:en_umæa	nitale mean of mushrooms' cap diameter	
stem.heigh	t <u>r</u> noeæn	ri <b>ca</b> le mean height of mushrooms' stem	
stem.width	_meale	ri <b>Ta</b> le mean width of mushrooms' stem	

### 二、讀取資料

```
# R Interface to Python
library(reticulate)
library(Hmisc)
library(tidyr)
library(dplyr)

df <- read.csv("C:/Users/ASUS/Downloads/mushroom/primary_data.csv", sep=";", stringsAsFactors=FALSE)

process_numeric <- function(column) {
    df <- df %>%
        separate(column, into = c(pasteO(column, "_min"), pasteO(column, "_max")), sep = ",", fill = "right"
        mutate(
        across(starts_with(column), ~ as.numeric(gsub("\\[|\\]", "", .)))
    ) %>%
        mutate(
        !!pasteO(column, "_mean") := ifelse(is.na(!!sym(pasteO(column, "_max"))), !!sym(pasteO(column, "_r
```

```
!!paste0(column, "_min") := ifelse(!is.na(!!sym(paste0(column, "_max"))), !!sym(paste0(column, "_i
           !!paste0(column, "_max") := ifelse(!is.na(!!sym(paste0(column, "_min"))), !!sym(paste0(column, "_r
       ) %>%
   return(df)
numeric_columns <- c("cap.diameter", "stem.height", "stem.width")</pre>
for (col in numeric_columns) {
   df <- process_numeric(col)</pre>
category_map <- list(</pre>
    "cap-shape" = c(b="bell", c="conical", x="convex", f="flat", s="sunken", p="spherical", o="others"),
    "cap-surface" = c(i="fibrous", g="grooves", y="scaly", s="smooth", h="shiny", l="leathery", k="silky"
    "cap-color" = c(n="brown", b="buff", g="gray", r="green", p="pink", u="purple", e="red", w="white", y=
    "does-bruise-bleed" = c(t="bruises-or-bleeding", f="no"),
    "gill-attachment" = c(a="adnate", x="adnexed", d="decurrent", e="free", s="sinuate", p="pores", f="nor
    "gill-spacing" = c(c="close", d="distant", f="none"),
    "gill-color" = c(n="brown", b="buff", g="gray", r="green", p="pink", u="purple", e="red", w="white",
    "stem-root" = c(b="bulbous", s="swollen", c="club", u="cup", e="equal", z="rhizomorphs", r="rooted"),
    "stem-surface" = c(i="fibrous", g="grooves", y="scaly", s="smooth", h="shiny", l="leathery", k="silky"
    "stem-color" = c(n="brown", b="buff", g="gray", r="green", p="pink", u="purple", e="red", w="white",
    "veil-type" = c(p="partial", u="universal"),
    "veil-color" = c(n="brown", b="buff", g="gray", r="green", p="pink", u="purple", e="red", w="white", y
    "has-ring" = c(t="ring", f="none"),
    "ring-type" = c(c="cobwebby", e="evanescent", r="flaring", g="grooved", l="large", p="pendant", s="she
    "spore-print-color" = c(n="brown", b="buff", g="gray", r="green", p="pink", u="purple", e="red", w="wl
    "habitat" = c(g="grasses", l="leaves", m="meadows", p="paths", h="heaths", u="urban", w="waste", d="weaths", u="urban", u="urban", w="waste", d="weaths", u="urban", u="urban", u="urban", u="weaths", u="urban", u="urban", u="weaths", u="urban", u="
    "season" = c(s="spring", u="summer", a="autumn", w="winter")
for (col in c("cap-shape", "habitat", "season")) {
   df[[col]] <- unlist(lapply(df[[col]], function(x) {</pre>
       if (is.na(x)) return(NA)
       values <- unlist(strsplit(gsub("\\[|\\]", "", x), ","))</pre>
       if (col %in% c("habitat", "season")) {
          return(paste(values, collapse=", "))
       } else {
          mapped_values <- category_map[[col]][values]</pre>
          return(paste(mapped_values, collapse=", "))
   }))
df <- df %>%
   mutate(across(everything(), ~ gsub("\\[|\\]", "", .))) # `[]`
df <- df %>%
   mutate(
       across(c("cap.diameter_min", "cap.diameter_max", "stem.height_min", "stem.height_max",
                        "stem.width_min", "stem.width_max", "cap.diameter_mean", "stem.height_mean", "stem.width_me
```

```
~ as.numeric(.))
  )
latex(describe(df), file="")
                                                          df
173 Observations
                                        29 Variables
family
        missing
0
                  distinct
 173
                            Bolbitius Family Bolete Family Bracket Fungi Chanterelle Fam Saddle-Cup Family Stropharia Family Tricholoma Family Wax Gill Family
lowest : Amanita Family
                                                                                      Chanterelle Family
highest: Russula Family
name
        missing
                  distinct
 173
lowest : Amethyst Deceiver
                                   Aniseed Funnel Cap
                                                            Apricot Fungus
                                                                                     Bare-toothed Russula
                                                                                                               Bay Bolete
highest: Yellow-gilled Russula
                                  Yellow-staining Mushroom Yellow-stemmed Bell Cap Yellow Swamp Russula
                                                                                                               Yellow Wax cap
class
       missing
0
                  distinct
 173
Value
Frequency
Proportion 0.445 0.555
cap.diameter_min
                                                                                            .05
                            Info
0.976
                                            pMedian
                                                                                             .90
                                                                                                   .95
8
 n
172
        missing
                  distinct
                                    Mean
                                                        Gmd
                                    3.776
                                                        2.533
Value
                                     2.0
39
                                                 4.0
26
                                                              6.0 7.0
11 4
                                           3.0
                                                        5.0
                                                                          8.0 10.0 12.0
             Frequency
Proportion 0.012 0.023 0.006 0.099 0.227 0.140 0.151 0.169 0.064 0.023 0.052 0.023 0.012
For the frequency table, variable is rounded to the nearest 0
cap.diameter_max
                                                                                            missing
                  distinct
                             Info
                                    Mean
                                            pMedian
                                                        Gmd
                                                                          .25
5
 172
                            0.991
Value
Frequency
             4.0 5.0
12 18
                                                        6.0
16
                                                            7.0 8.0
7 16
Proportion 0.017 0.006 0.023 0.041 0.035 0.070 0.105 0.093 0.041 0.093 0.017 0.163 0.105 0.017
            15.0 18.0 20.0 25.0 30.0
15 3 5 5 2
Proportion 0.087 0.017 0.029 0.029 0.012
For the frequency table, variable is rounded to the nearest {\tt 0}
                                                                                             cap.shape
       missing
0
                  distinct
 173
lowest : b
                 b, f b, f, s b, x b, x, f, highest: x, f
                                                                    x, f, s x, o
                                                                                    x, p
Cap.surface
                                                                                            missing
                  distinct
 133
             40
lowest : d
highest: t, w, d

    \begin{array}{l}
      d, e, y, i d, k \\
      w, t
   \end{array}

                                                     d, s
y, s
                                          d, k, s
cap.color
        missing
0
                  distinct
 173
lowest : b
highest: y
                                                    e e, n
y, o, g, n, r y, o, r, n
```

Pale	does.bruise.or.bleed
### Properties 0.827 0.173  ### Sing distinct 145	
Frequency   32   34   35   16   10   17   16   21   21   21   21   21   21   21	Value f t
Value	
Yalue	gill.attachment
Proportion	
Value	Frequency 32 8 25 16 10 17 16 21
Value	gill.spacing
Preparation   70   22   10	n missing distinct 102 71 3
Name	Frequency 70 22 10
173   0   59	gill.color
Stem.height_min	
No   No   No   No   No   No   No   No	lowest: b b, p, w b, u e f , highest: y, n y, o, e y, r y, r, k y, w
Value 1 2 3 4 5 6 7 8 10 12 15 15 18 18 20 26 10 15 10 12 15 16 18 18 20 25 16 17 10 18 18 12 15 18 18 20 26 10 18 18 18 18 10 12 15 18 18 20 26 10 18 18 18 18 18 18 18 18 18 18 18 18 18	stem.height_min
Proportion 0.012 0.124 0.224 0.306 0.141 0.088 0.018 0.041 0.029 0.006 0.012  For the frequency table, variable is rounded to the nearest 0  Stem.height_max n missing distinct lnfo Mean pMedian Gmd .05 .10 .25 .50 .75 .90 .95	n missing distinct Info Mean pMedian Gmd .05 .10 .25 .50 .75 .90 .95 170 3 11 0.955 4.382 4 2.157 2 2 3 4 5 7 8
Stem.height_max	
n missing distinct lnfo Mean pMedian 8 Gmd .05 .10 .25 .50 .75 .90 .95  Value 0.55 .10 .20 3.0 4.0 5.0 .95  Value 40.0 5 .10 .25 .50 .75 .90 .95  Value 40.0 5 .10 .20 3.0 4.0 5.0 6.0 7 .0 94 .0.117 0.043 0.006 0.062 0.235 0.006 0.123 0.099 0.006  Value 40.0 5 For the frequency table, variable is rounded to the nearest 0  Value 40.0 5 Frequency 1 7 .0 94 0.074 0.117 0.043 0.006 0.062 0.235 0.006 0.123 0.099 0.006  Value 40.0 5 .0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 10.0 12.0 15.0 20.0 30.0 90 0.006  Value 40.0 5 .0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 10.0 12.0 15.0 20.0 30.0 90 0.006  Value 40.0 5 .0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 10.0 12.0 15.0 20.0 30.0 90 0.006  Value 40.0 5 .0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 10.0 12.0 15.0 20.0 30.0 90 0.006  Value 40.0 5 .0 1.0 5 .0 74 0.074 0.117 0.043 0.006 0.062 0.235 0.006 0.123 0.099 0.006  Value 40.0 5 .0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 10.0 12.0 15.0 20.0 30.0 90 0.006  For the frequency table, variable is rounded to the nearest 0  Stem.width_max  n missing distinct lnfo Mean pMedian 6 Gmd 0.5 1.0 2.5 .50 .75 .90 .95  The frequency 1 5 1.0 2.0 0.991 16.5 8 15 13.51 3 4 8 15 20 30 40  Value 1 2 3 4 5 6 7 8 8 10 12 15 18 20 25  Frequency 1 5 1.0 2.0 0.991 16.5 8 15 13.51 3 4 2 1 19 9 4 26 10  Proportion 0.006 0.031 0.062 0.056 0.031 0.019 0.019 0.105 0.093 0.068 0.117 0.025 0.160 0.062  Value 1 2 3 4 5 6 7 8 10 11 19 4 26 10  Proportion 0.006 0.031 0.062 0.056 0.031 0.019 0.019 0.105 0.093 0.068 0.117 0.025 0.160 0.062  Value 30 40 50 60 80 100  Frequency 1 5 10 9 5 3 3 17 15 11 119 4 26 10  Proportion 0.006 0.031 0.062 0.056 0.031 0.019 0.019 0.105 0.093 0.068 0.117 0.025 0.160 0.062	For the frequency table, variable is rounded to the nearest 0
Value 40.0 Frequency 1 do 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	stem.height_max
Proportion 0.006 0.012 0.035 0.082 0.147 0.094 0.218 0.012 0.206 0.006 0.071 0.006 0.059 0.006	n missing distinct Info Mean pMedian Gmd .05 .10 .25 .50 .75 .90 .95 170 3 18 0.976 9.029 8.5 4.205 4.45 5.00 6.00 8.00 10.00 15.00 15.00
Frequency 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Value 2 3 4 5 6 7 8 9 10 11 12 14 15 18 Frequency 1 2 6 14 25 16 37 2 35 1 12 1 10 1 Proportion 0.006 0.012 0.035 0.082 0.147 0.094 0.218 0.012 0.206 0.006 0.071 0.006 0.059 0.006
Stem.width_min	Frequency 4 1 1 1
n missing distinct Info Mean pMedian 6.785 2 10 .25 .50 .75 .90 .95  162 11 15 0.98 8.83 pMedian 6.785 2 2 2 4 8 10 20 20  Value 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 10.0 12.0 15.0 20.0 30.0  Frequency 1 6 17 12 12 19 7 1 10 38 1 20 16 1  Proportion 0.006 0.037 0.105 0.074 0.074 0.117 0.043 0.006 0.062 0.235 0.006 0.123 0.099 0.006  Value 40.0  Frequency 1 Proportion 0.006  For the frequency table, variable is rounded to the nearest 0  Stem.width_max   n missing distinct Info Mean pMedian 6.78	
Value 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 10.0 12.0 15.0 20.0 30.0 Frequency 1 6 17 12 12 19 7 1 10 38 1 20 16 1 Proportion 0.006 0.037 0.105 0.074 0.074 0.117 0.043 0.006 0.062 0.235 0.006 0.123 0.099 0.006  Value 40.0 Frequency 1 Proportion 0.006  For the frequency table, variable is rounded to the nearest 0  Stem.width_max  n missing distinct Info Mean pMedian Gmd .05 .10 .25 .50 .75 .90 .95 162 11 20 0.991 16.58 15 13.51 3 4 8 15 20 30 40  Value 1 2 3 4 5 6 7 8 10 12 15 18 20 25 Frequency 1 5 10 9 5 3 3 17 15 11 19 4 26 10 Proportion 0.006 0.031 0.062 0.056 0.031 0.019 0.019 0.105 0.093 0.068 0.117 0.025 0.160 0.062  Value 30 40 50 60 80 100 Frequency 11 8 1 2 1 1 Proportion 0.068 0.049 0.006 0.012 0.006 0.006	stem.width_min
Frequency 1 6 17 12 12 19 7 1 10 38 1 20 16 1 Proportion 0.006 0.037 0.105 0.074 0.074 0.117 0.043 0.006 0.062 0.235 0.006 0.123 0.099 0.006  Value 40.0 Frequency 1 Proportion 0.006  For the frequency table, variable is rounded to the nearest 0  stem.width_max  n missing distinct Info Mean pMedian Gmd .05 .10 .25 .50 .75 .90 .95 162 11 20 0.991 16.58 15 13.51 3 4 8 15 20 30 40  Value 1 2 3 4 5 6 7 8 10 12 15 18 20 25 Frequency 1 5 10 9 5 3 3 3 17 15 11 19 4 26 10 Proportion 0.006 0.031 0.062 0.056 0.031 0.019 0.019 0.105 0.093 0.068 0.117 0.025 0.160 0.062  Value 30 40 50 60 80 100 Frequency 11 8 1 2 1 1 Proportion 0.068 0.049 0.006 0.012 0.006 0.006	
Frequency 1 Proportion 0.006  For the frequency table, variable is rounded to the nearest 0  Stem.width_max   n missing distinct Info Mean pMedian Gmd .05 .10 .25 .50 .75 .90 .95 162 11 20 0.991 16.58 15 13.51 3 4 8 15 20 30 40  Value 1 2 3 4 5 6 7 8 10 12 15 18 20 25 Frequency 1 5 10 9 5 3 3 17 15 11 19 4 26 10 Proportion 0.006 0.031 0.062 0.056 0.031 0.019 0.019 0.105 0.093 0.068 0.117 0.025 0.160 0.062  Value 30 40 50 60 80 100 Frequency 11 8 1 2 1 1 1 Proportion 0.068 0.049 0.006 0.012 0.006 0.006	Frequency 1 6 17 12 12 19 7 1 10 38 1 20 16 1
For the frequency table, variable is rounded to the nearest 0  stem.width_max  n missing distinct Info Mean pMedian Gmd .05 .10 .25 .50 .75 .90 .95 162 11 20 0.991 16.58 15 13.51 3 4 8 15 20 30 40  Value 1 2 3 4 5 6 7 8 10 12 15 18 20 25 Frequency 1 5 10 9 5 3 3 3 17 15 11 19 4 26 10 Proportion 0.006 0.031 0.062 0.056 0.031 0.019 0.019 0.105 0.093 0.068 0.117 0.025 0.160 0.062  Value 30 40 50 60 80 100 Frequency 11 8 1 2 1 1 Proportion 0.068 0.049 0.006 0.012 0.006 0.006	Frequency 1
n missing distinct lnfo Mean pMedian Gmd .05 .10 .25 .50 .75 .90 .95 16.58 15 13.51 3 4 8 15 20 30 40    Value 1 2 3 4 5 6 7 8 10 12 15 18 20 25 .50 .75 .90 .95   Frequency 1 5 10 9 5 3 3 3 17 15 11 19 4 26 10   Proportion 0.006 0.031 0.062 0.056 0.031 0.019 0.019 0.105 0.093 0.068 0.117 0.025 0.160 0.062    Value 30 40 50 60 80 100   Frequency 11 8 1 2 1 1 1   Proportion 0.068 0.049 0.006 0.012 0.006 0.006	•
162 11 20 0.991 16.58 15 13.51 3 4 8 15 20 30 40  Value 1 2 3 4 5 6 7 8 10 12 15 18 20 25  Frequency 1 5 10 9 5 3 3 17 15 11 19 4 26 10  Proportion 0.006 0.031 0.062 0.056 0.031 0.019 0.019 0.105 0.093 0.068 0.117 0.025 0.160 0.062  Value 30 40 50 60 80 100  Frequency 11 8 1 2 1 1  Proportion 0.068 0.049 0.006 0.012 0.006 0.006	stem.width_max
Frequency 1 5 10 9 5 3 3 17 15 11 19 4 26 10 Proportion 0.006 0.031 0.062 0.056 0.031 0.019 0.019 0.105 0.093 0.068 0.117 0.025 0.160 0.062  Value 30 40 50 60 80 100 Frequency 11 8 1 2 1 1 Proportion 0.068 0.049 0.006 0.012 0.006 0.006	
Frequency 11 8 1 2 1 1 Proportion 0.068 0.049 0.006 0.012 0.006 0.006	Frequency 1 5 10 9 5 3 3 17 15 11 19 4 26 10
·	Value 30 40 50 60 80 100 Frequency 11 8 1 2 1 1
	•

stem.root	The second of
n missing distinct 27 146 5	
Value b c f r s Frequency 9 2 3 4 9 Proportion 0.333 0.074 0.111 0.148 0.333	
stem.surface	
n missing distinct 65 108 14	
Value f g h i i, s i, t i, y k k, s s s, h t y Frequency 3 5 1 11 1 1 1 4 1 15 1 7 13 Proportion 0.046 0.077 0.015 0.169 0.015 0.015 0.015 0.062 0.015 0.231 0.015 0.108 0.200	y, s 1 0.015
stem.color	
n missing distinct 173 0 41	
lowest: b, u e e, n e, u, y e, y , highest: w, y y y, e, n y, n	y, o, k
veil.type	
n missing distinct value 9 164 1 u	
Value u Frequency 9 Proportion 1	
veil.color	
n missing distinct 21 152 7	
Value e, n k n u w y y, w Frequency 1 1 1 1 15 1 1 Proportion 0.048 0.048 0.048 0.714 0.048 0.048	
has.ring	
n missing distinct 173 0 2	
Value f t Frequency 130 43 Proportion 0.751 0.249	
ring.type	
n missing distinct 166 7 13	
Value e e, g f g g, p l l, e l, p l, r m p r z Frequency 6 1 137 2 2 2 1 1 2 3 6 Proportion 0.036 0.006 0.825 0.012 0.012 0.012 0.006 0.006 0.012 0.006 0.012 0.036 0.036	
Spore.print.color	
n missing distinct 18 155 8	
Value g k k, r k, u n p p, w w Frequency 1 5 1 1 3 3 1 3 Proportion 0.056 0.278 0.056 0.056 0.167 0.056 0.167	
habitat	1
n missing distinct 173 0 21	
lowest : d d, h g g, d g, d, h highest: m m, d m, h p, d w	

season						$\label{eq:continuous} (\mathbf{r}_{i}, \mathbf{r}_{i}, \mathbf$	Ι.				
n missing d 173 0	listinct 10										
Value Frequency Proportion	a 16 0.092	a, w 15 0.087	s 1 0.006	o.006	s, u s, 3 0.017	u, a 5 0.029					
Frequency	a, w 13 0.075	u 1 0.006	u, a u 106 0.613	1, a, w 12 0.069							
cap.diameter_mean											
n missing dist 1 172	tinct Info 1 0	Mean 50									
Value 50 Frequency 1 Proportion 1											
stem.height_mean											
n missing dist 3 170	tinct Info 1 0	Mean 0									
Value 0 Frequency 3 Proportion 1											
stem.width_mean	1					11.	1				
n missing dis 11 162	stinct Info 4 0.918	Mean pMe 4.091	edian Gm 5 5.05								
Value 0 1 2 10 Frequency 3 3 1 4 Proportion 0.273 0.273 0.091 0.364											
For the frequency t			the neares	st 0							

### 二、資料簡號

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#### 1. 整體分析:

整筆資料有173個觀測值和29個變數,代表共有173種蘑菇,29個變數中,有family、name、class、cap.diameter\_min、cap.diameter\_max、cap.shape、Cap.surface、cap.color、does.bruise.or.bleed、gill.attachment、gill.spacing、gill.color、stem.height\_min、stem.height\_max、stem.width\_min、stem.width\_max、stem.root、stem.surface、stem.color、veil.type、veil.color、has.ring、ring.type、Spore.print.color、habitat、season、cap.diameter\_mean、stem.height\_mean、stem.width\_mean。

- cap.diameter\_min、cap.diameter\_max和cap.diameter\_mean:
   cap.diameter\_min、cap.diameter\_max各有一缺失值,該缺失值僅提供mean故分別處理。
- 3. stem.height\_min、stem.height\_max和stem.height\_mean:
  stem.height\_min、stem.height\_max各有三缺失值,該缺失值僅提供mean故分別處理。
- 4. stem.width\_min、stem.width\_max和stem.width\_mean:
   stem.width\_min、stem.width\_max各有十一缺失值,該缺失值僅提供mean故分別處理。
- 5. Cap.surface: 有40項缺失值。
- 6. gill.attachment: 有71項缺失值。
- 7. stem.root :
- 7. 5tcm:00t : 有146項缺失值。
- 8. stem.surface: 有108項缺失值。
- 9. veil.type: 有164項缺失值。
- 10. veil.color: 有152項缺失值。

- 11. ring.type: 有7項缺失值。
- 12. Spore.print.color: 有155項缺失值。

## 四、table one

### library(table1)

table1(~family+cap.diameter\_min+cap.diameter\_max+cap.shape+Cap.surface+cap.color+does.bruise.or.bleed+grantstem.height\_min+stem.height\_max+stem.width\_min+stem.width\_max+stem.root+stem.surface+stem.color+ring.type+Spore.print.color+habitat+season+cap.diameter\_mean+stem.height\_mean+stem.width\_mean|close

	e	р	Overall
	(N=77)	(N=96)	(N=173)
family			
Amanita Family	3 (3.9%)	5 (5.2%)	8 (4.6%)
Bolbitius Family	1 (1.3%)	2 (2.1%)	3 (1.7%)
Bolete Family	11 (14.3%)	3 (3.1%)	14 (8.1%)
Bracket Fungi	1 (1.3%)	6 (6.3%)	7 (4.0%)
Chanterelle Family	3 (3.9%)	0 (0%)	3 (1.7%)
Entoloma Family	1 (1.3%)	6 (6.3%)	7 (4.0%)
Hydnum Family	1 (1.3%)	0 (0%)	1 (0.6%)
Ink Cap Family	6 (7.8%)	7 (7.3%)	13 (7.5%)
Lepiota Family	2 (2.6%)	1 (1.0%)	3 (1.7%)
Morel Family	1 (1.3%)	0 (0%)	1 (0.6%)
Mushroom Family	4 (5.2%)	1 (1.0%)	5 (2.9%)
Oyster Mushroom Family	2 (2.6%)	0 (0%)	2 (1.2%)
Pluteus Family	2 (2.6%)	0 (0%)	2 (1.2%)
Russula Family	11 (14.3%)	16 (16.7%)	27 (15.6%)
Stropharia Family	1 (1.3%)	7 (7.3%)	8 (4.6%)
Tricholoma Family	23 (29.9%)	20 (20.8%)	43 (24.9%)
Wax Gill Family	4 (5.2%)	4 (4.2%)	8 (4.6%)
Cortinarius Family	0 (0%)	11 (11.5%)	11 (6.4%)
Crepidotus Family	0 (0%)	1 (1.0%)	1 (0.6%)
Ear-Pick Family	0 (0%)	1 (1.0%)	1 (0.6%)
Jelly Discs Family	0 (0%)	1 (1.0%)	1 (0.6%)
Paxillus Family	0 (0%)	3 (3.1%)	3 (1.7%)
Saddle-Cup Family	0 (0%)	1 (1.0%)	1 (0.6%)
cap.diameter_min			
Mean (SD)	4.16 (2.38)	3.47 (2.27)	3.78 (2.34)
Median [Min, Max]	4.00 [0.500, 12.0]	3.00 [0.400, 10.0]	3.00 [0.400, 12.0]
Missing	1 (1.3%)	0 (0%)	1 (0.6%)
cap.diameter_max			
Mean (SD)	10.3 (5.76)	8.29 (5.58)	9.20 (5.73)
Median [Min, Max]	10.0 [1.50, 30.0]	7.00 [1.00, 30.0]	8.00 [1.00, 30.0]
Missing	1 (1.3%)	0 (0%)	1 (0.6%)
cap.shape			
b	2 (2.6%)	8 (8.3%)	10 (5.8%)
b, f	2 (2.6%)	3 (3.1%)	5 (2.9%)
c	1 (1.3%)	2 (2.1%)	3 (1.7%)
с, х	1 (1.3%)	0 (0%)	1 (0.6%)

	е	р	Overall
c, x, f	1 (1.3%)	0 (0%)	1 (0.6%)
f	4 (5.2%)	4 (4.2%)	8 (4.6%)
f, s	3 (3.9%)	5 (5.2%)	8 (4.6%)
f, x	1 (1.3%)	1 (1.0%)	2 (1.2%)
0	1 (1.3%)	7 (7.3%)	8 (4.6%)
p, b	1 (1.3%)	2 (2.1%)	3 (1.7%)
p, c, o	1 (1.3%)	0 (0%)	1 (0.6%)
p, f	2 (2.6%)	0 (0%)	2 (1.2%)
р, х	3 (3.9%)	1 (1.0%)	4 (2.3%)
p, x, f	2 (2.6%)	0 (0%)	2 (1.2%)
S	4 (5.2%)	5 (5.2%)	9 (5.2%)
S, O	2 (2.6%)	0 (0%)	2 (1.2%)
X	23 (29.9%)	25 (26.0%)	48 (27.7%)
x, f	14 (18.2%)	15 (15.6%)	29 (16.8%)
x, f, s	7 (9.1%)	6 (6.3%)	13 (7.5%)
x, p	1 (1.3%)	1 (1.0%)	2 (1.2%)
x, s	1 (1.3%)	2 (2.1%)	3 (1.7%)
b, f, s	0 (0%)	1 (1.0%)	1 (0.6%)
b, x	0 (0%)	3 (3.1%)	3 (1.7%)
b, x, f	0 (0%)	1 (1.0%)	1 (0.6%)
c, f	0 (0%)	2 (2.1%)	2 (1.2%)
p	0 (0%)	1 (1.0%)	1 (0.6%)
Х, О	0 (0%)	1 (1.0%)	1 (0.6%)
Cap.surface	C (C75)	_ (=.070)	= (0.070)
	19 (24.7%)	21 (21.9%)	40 (23.1%)
d	4 (5.2%)	5 (5.2%)	9 (5.2%)
d, k	1 (1.3%)	1 (1.0%)	2 (1.2%)
d, s	1 (1.3%)	0 (0%)	1 (0.6%)
e	3 (3.9%)	2 (2.1%)	5 (2.9%)
e, y	1 (1.3%)	0 (0%)	1 (0.6%)
g	5 (6.5%)	7 (7.3%)	12 (6.9%)
g, s, h, t	1 (1.3%)	0 (0%)	1 (0.6%)
g, s, t	1 (1.3%)	0 (0%)	1 (0.6%)
h	3 (3.9%)	2 (2.1%)	5 (2.9%)
h, s, d	1 (1.3%)	0 (0%)	1 (0.6%)
h, t	6 (7.8%)	4 (4.2%)	10 (5.8%)
i, y	2 (2.6%)	0 (0%)	2 (1.2%)
', y 	2 (2.6%)	2 (2.1%)	4 (2.3%)
S	8 (10.4%)	5 (5.2%)	13 (7.5%)
s, d	1 (1.3%)	0 (0%)	1 (0.6%)
s, t	2 (2.6%)	2 (2.1%)	4 (2.3%)
s, y	1 (1.3%)	2 (2.1%)	3 (1.7%)
t	2 (2.6%)	10 (10.4%)	12 (6.9%)
t, h	1 (1.3%)	1 (1.0%)	2 (1.2%)
t, h, s	1 (1.3%)	0 (0%)	1 (0.6%)
t, 11, 5 W	2 (2.6%)	3 (3.1%)	5 (2.9%)
w, t	1 (1.3%)	0 (0%)	1 (0.6%)
	7 (9.1%)	7 (7.3%)	14 (8.1%)
y v s	1 (1.3%)	0 (0%)	1 (0.6%)
y, s d e v i	0 (0%)	1 (1.0%)	1 (0.6%)
d, e, y, i	0 (0%)		1 (0.6%)
d, k, s	0 (0%)	1 (1.0%)	
e, k, s, h	0 (0 /0)	1 (1.0%)	1 (0.6%)

e, t, k		e	р	Overall
g, s, d         0 (0%)         1 (1.0%)         1 (0.6%)           h, s, t         0 (0%)         1 (1.0%)         1 (0.6%)           h, t, w         0 (0%)         1 (1.0%)         1 (0.6%)           h, t, y         0 (0%)         1 (1.0%)         1 (0.6%)           i e         0 (0%)         4 (4.2%)         4 (2.3%)           i, e         0 (0%)         4 (4.2%)         4 (2.3%)           k, e         0 (0%)         1 (1.0%)         1 (0.6%)           k, e         0 (0%)         1 (1.0%)         1 (0.6%)           s, h         0 (0%)         1 (1.0%)         1 (0.6%)           s, n         0 (0%)         1 (1.0%)         1 (0.6%)           s, n         0 (0%)         1 (1.0%)         1 (0.6%)           s, n         0 (0%)         1 (1.0%)         1 (0.6%)           b, u         1 (1.3%)         0 (0%)         1 (0.6%)           b, u         1 (1.3%)         0 (0%)         1 (0.6%)           g, k         1	e, t, k	0 (0%)	1 (1.0%)	1 (0.6%)
g, s, d         0 (0%)         1 (1.0%)         1 (0.6%)           h, s, t         0 (0%)         1 (1.0%)         1 (0.6%)           h, t, w         0 (0%)         1 (1.0%)         1 (0.6%)           h, t, y         0 (0%)         1 (1.0%)         1 (0.6%)           i e         0 (0%)         4 (4.2%)         4 (2.3%)           i, e         0 (0%)         4 (4.2%)         4 (2.3%)           k, e         0 (0%)         1 (1.0%)         1 (0.6%)           k, e         0 (0%)         1 (1.0%)         1 (0.6%)           s, h         0 (0%)         1 (1.0%)         1 (0.6%)           s, n         0 (0%)         1 (1.0%)         1 (0.6%)           s, n         0 (0%)         1 (1.0%)         1 (0.6%)           s, n         0 (0%)         1 (1.0%)         1 (0.6%)           b, u         1 (1.3%)         0 (0%)         1 (0.6%)           b, u         1 (1.3%)         0 (0%)         1 (0.6%)           g, k         1	g, h	0 (0%)	1 (1.0%)	1 (0.6%)
n, s, t		0 (0%)		1 (0.6%)
h, t, w	9		1 (1.0%)	
h, t, y			1 (1.0%)	1 (0.6%)
i				
i, e	•			
k, e 0 (0%) 4 (4.2%) 4 (2.3%) k, e 0 (0%) 1 (1.0%) 1 (0.6%) s, h 0 (0%) 1 (1.0%) 1 (0.6%) s, i 1 (0.6%) s, i 1 (1.0%) 1 (1.0%) 1 (1.0%) s, i 1	i, e			
k, e         0 (0%)         1 (1.0%)         1 (0.6%)           s, h         0 (0%)         1 (1.0%)         1 (0.6%)           s, i         0 (0%)         1 (1.0%)         1 (0.6%)           t, w, d         0 (0%)         1 (1.0%)         1 (0.6%)           cap.color         v         v         t           b         1 (1.3%)         0 (0%)         1 (0.6%)           e, n, y         2 (2.6%)         0 (0%)         2 (1.2%)           g, k         1 (1.3%)         1 (1.0%)         2 (1.2%)           g, n         6 (7.8%)         4 (4.2%)         10 (5.8%)           g, u, n, p         1 (1.3%)         0 (0%)         1 (0.6%)           k, n, w         1 (1.3%)         0 (0%)         1 (0.6%)           l, g, b, w         1 (1.3%)         0 (0%)         1 (0.6%)           l, r, w         1 (1.3%)         0 (0%)         1 (0.6%)           l, u, g, n         1 (1.3%)         0 (0%)         1 (0.6%)           l, u, g, n         1 (1.3%)         0 (0%)         1 (0.6%)           l, v         1 (1.3%)         0 (0%)         1 (0.6%)           n, w         1 (1.3%)         0 (0%)         1 (0.6%)           n, b				
s, h         0 (0%)         1 (1.0%)         1 (0.6%)           s, i         0 (0%)         1 (1.0%)         1 (0.6%)           t, w, d         0 (0%)         1 (1.0%)         1 (0.6%)           cap.color         1         1 (0.6%)         1 (0.6%)           b, u         1 (1.3%)         0 (0%)         1 (0.6%)           e, n, y         2 (2.6%)         0 (0%)         2 (1.2%)           g, k         1 (1.3%)         1 (1.0%)         2 (1.2%)           g, u, n, p         6 (7.8%)         4 (4.2%)         10 (5.8%)           g, u, n, p         1 (1.3%)         0 (0%)         1 (0.6%)           k, n, w         1 (1.3%)         0 (0%)         1 (0.6%)           l, g, b, w         1 (1.3%)         0 (0%)         1 (0.6%)           l, r, w         1 (1.3%)         0 (0%)         1 (0.6%)           l, u, g, n         1 (1.3%)         0 (0%)         1 (0.6%)           l, u, g, n         1 (1.3%)         0 (0%)         1 (0.6%)           l, u, g, n         1 (1.3%)         0 (0%)         1 (0.6%)           n, w         1 (1.3%)         0 (0%)         1 (0.6%)           n, w         1 (1.3%)         0 (0%)         1 (0.6%)				
s, i       0 (0%)       1 (1.0%)       1 (0.6%)         t, w, d       0 (0%)       1 (1.0%)       1 (0.6%)         cap.color       ***         b       1 (1.3%)       0 (0%)       1 (0.6%)         b, u       1 (1.3%)       0 (0%)       1 (0.6%)         e, n, y       2 (2.6%)       0 (0%)       2 (1.2%)         g, k       1 (1.3%)       1 (1.0%)       2 (1.2%)         g, n       6 (7.8%)       4 (4.2%)       10 (5.8%)         g, u, n, p       1 (1.3%)       0 (0%)       1 (0.6%)         k, n, w       1 (1.3%)       0 (0%)       1 (0.6%)         l, g, b, w       1 (1.3%)       0 (0%)       1 (0.6%)         l, r, w       1 (1.3%)       0 (0%)       1 (0.6%)         l, u, g, n       1 (1.3%)       0 (0%)       1 (0.6%)         l, u, g, n       1 (1.3%)       0 (0%)       1 (0.6%)         n, w       1 (1.3%)       0 (0%)       1 (0.6%)         n, w       1 (1.3%)       0 (0%)       1 (0.6%)         n, b       1 (1.3%)       0 (0%)       1 (0.6%)         n, c       1 (1.3%)       0 (0%)       3 (1.7%)         n, e       1 (1.3%)       0 (0%			•	
t, w, d cap.color b 1 (1.3%) 0 (0%) 1 (0.6%) b, u 1 (1.3%) 0 (0%) 1 (0.6%) e, n, y 2 (2.6%) 0 (0%) 2 (1.2%) g, k 1 (1.3%) 1 (1.0%) 2 (1.2%) g, n 6 (7.8%) 4 (4.2%) 10 (5.8%) g, u, n, p 1 (1.3%) 0 (0%) 1 (0.6%) k, u, n, p 1 (1.3%) 0 (0%) 1 (0.6%) k, n, w 1 (1.3%) 0 (0%) 1 (0.6%) l, g, b, w 1 (1.3%) 0 (0%) 1 (0.6%) l, g, b, w 1 (1.3%) 0 (0%) 1 (0.6%) l, u, u, p, n 1 (1.3%) 0 (0%) 1 (0.6%) l, u, u, p, n 1 (1.3%) 0 (0%) 1 (0.6%) l, u, y 1 (1.3%) 0 (0%) 1 (0.6%) n 22 (28.6%) 16 (16.7%) 38 (22.0%) n, b 1 (1.3%) 1 (1.0%) 2 (1.2%) n, e 1 (1.3%) 1 (1.0%) 2 (1.2%) n, e 1 (1.3%) 1 (1.0%) 2 (1.2%) n, e 1 (1.3%) 1 (1.0%) 2 (1.2%) n, o 2 (2.6%) 2 (2.1%) 4 (2.3%) n, o, e 1 (1.3%) 0 (0%) 1 (0.6%) n, p, e 1 (1.3%) 0 (0%) 1 (0.6%) n, p, e 1 (1.3%) 0 (0%) 1 (0.6%) n, p, e 1 (1.3%) 0 (0%) 1 (0.6%) n, p, e 1 (1.3%) 0 (0%) 1 (0.6%) n, p, e 1 (1.3%) 0 (0%) 1 (0.6%) n, p, e 1 (1.3%) 0 (0%) 1 (0.6%) n, p, e 1 (1.3%) 0 (0%) 1 (0.6%) n, p, e 1 (1.3%) 0 (0%) 1 (0.6%) n, p, e 1 (1.3%) 0 (0%) 1 (0.6%) n, p, e 1 (1.3%) 0 (0%) 1 (0.6%) n, p, e 1 (1.3%) 0 (0%) 1 (0.6%) n, p, e 1 (1.3%) 0 (0%) 1 (0.6%) n, y, w 1 (1.3%) 0 (0%) 1 (0.6%) n, y, e 1 (1.3%) 0 (0%) 1 (0.6%) n, y, e 1 (1.3%) 0 (0%) 1 (0.6%) n, y, e 1 (1.3%) 0 (0%) 1 (0.6%) n, y, e 1 (1.3%) 0 (0%) 1 (0.6%) n, y, e 1 (1.3%) 0 (0%) 1 (0.6%) n, y, e 1 (1.3%) 0 (0%) 1 (0.6%) n, y, e 1 (1.3%) 0 (0%) 1 (0.6%) n, y				
cap.color b b, u 1 (1.3%) 0 (0%) 1 (0.6%) b, u 1 (1.3%) 0 (0%) 1 (0.6%) e, n, y 2 (2.6%) 0 (0%) 1 (1.0%) 2 (1.2%) g, k 1 (1.3%) 1 (1.0%) 2 (1.2%) g, n 6 (7.8%) 4 (4.2%) 1 (0.6%) 1 (0.				
b		5 (515)	_ (=:::,	_ (0.0.0)
b, u		1 (1.3%)	0 (0%)	1 (0.6%)
e, n, y g, k 1 (1.3%) 1 (1.0%) 2 (1.2%) g, k 1 (1.3%) 1 (1.0%) 2 (1.2%) g, n g, n 6 (7.8%) 4 (4.2%) 10 (5.8%) g, u, n, p 1 (1.3%) 0 (0%) 1 (0.6%) k, n, w 1 (1.3%) 0 (0%) 1 (0.6%) 1, q, b, w 1 (1.3%) 0 (0%) 1 (0.6%) 1, u, g, n 1 (1.3%) 0 (0%) 1 (0.6%) 1, u, g, n 1 (1.3%) 0 (0%) 1 (0.6%) 1, u, g, n 1 (1.3%) 0 (0%) 1 (0.6%) n, n 22 (28.6%) 16 (16.7%) 18 (22.0%) n, w 1 (1.3%) 0 (0%) 1 (0.6%) n, b 1 (1.3%) 1 (1.0%) 2 (1.2%) n, e 1 (1.3%) 1 (1.0%) 1 (0.6%) n, o 2 (2.6%) 2 (2.1%) 1 (2.2%) n, o, e 1 (1.3%) 1 (1.3%) 1 (1.0%) 1 (0.6%) n, p, e 1 (1.3%) 1 (1.3%) 1 (1.0%) 1 (0.6%) n, p, e 1 (1.3%) 1 (1.0%) 1 (0.6%) n, p, e 1 (1.3%) 1 (1.0%) 1 (0.6%) n, p, e 1 (1.3%) 1 (1.0%) 1 (0.6%) n, p, e 1 (1.3%) 1 (1.0%) 1 (0.6%) n, p, e 1 (1.3%) 1 (1.0%) 1 (0.6%) n, y, w 1 (1.3%) 1 (1.3%) 1 (1.0%) 1 (0.6%) n, y, w 1 (1.3%) 1 (1.3%) 1 (1.0%) 1 (0.6%) n, y, w 1 (1.3%) 0 (0%) 1 (0.6%) n, y, w 1 (1.3%) 0 (0%) 1 (0.6%) n, y, w 1 (1.3%) 0 (0%) 1 (0.6%) n, y, w 1 (1.3%) 0 (0%) 1 (0.6%) n, y, w 1 (1.3%) 0 (0%) 1 (0.6%) n, y, w 1 (1.3%) 0 (0%) 1 (0.6%) n, y, w 1 (1.3%) 0 (0%) 1 (0.6%) n, y, e 1 (1.3%) 1 (1.0%) 1 (		• •		
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n, o, e       1 (1.3%)       0 (0%)       1 (0.6%)         n, p, e       1 (1.3%)       1 (1.0%)       2 (1.2%)         n, r, u, y       1 (1.3%)       0 (0%)       1 (0.6%)         n, w       1 (1.3%)       3 (3.1%)       4 (2.3%)         n, y       3 (3.9%)       6 (6.3%)       9 (5.2%)         n, y, e       1 (1.3%)       0 (0%)       1 (0.6%)         n, y, w       1 (1.3%)       0 (0%)       1 (0.6%)         o, b       1 (1.3%)       0 (0%)       1 (0.6%)         o, n       1 (1.3%)       0 (0%)       1 (0.6%)         o, p, e       1 (1.3%)       0 (0%)       1 (0.6%)         u, k       1 (1.3%)       0 (0%)       1 (0.6%)         w, g       1 (1.3%)       0 (0%)       1 (0.6%)         w, g       1 (1.3%)       1 (1.0%)       2 (1.2%)         w, n       2 (2.6%)       2 (2.1%)       4 (2.3%)         w, p, o       1 (1.3%)       0 (0%)       1 (0.6%)         w, y       1 (1.3%)       1 (1.0%)       2 (1.2%)         y       6 (7.8%)       4 (4.2%)       10 (5.8%)         b, p, e, y       0 (0%)       1 (1.0%)       3 (3.1%)	_			• •
n, p, e       1 (1.3%)       1 (1.0%)       2 (1.2%)         n, r, u, y       1 (1.3%)       0 (0%)       1 (0.6%)         n, w       1 (1.3%)       3 (3.1%)       4 (2.3%)         n, y       3 (3.9%)       6 (6.3%)       9 (5.2%)         n, y, e       1 (1.3%)       0 (0%)       1 (0.6%)         n, y, w       1 (1.3%)       0 (0%)       1 (0.6%)         o, b       1 (1.3%)       0 (0%)       1 (0.6%)         o, n       1 (1.3%)       0 (0%)       1 (0.6%)         o, p, e       1 (1.3%)       0 (0%)       1 (0.6%)         w, d       6 (7.8%)       6 (6.3%)       12 (6.9%)         w, g       1 (1.3%)       1 (1.0%)       2 (1.2%)         w, n       2 (2.6%)       2 (2.1%)       4 (2.3%)         w, p, o       1 (1.3%)       0 (0%)       1 (0.6%)         w, y       1 (1.3%)       0 (0%)       1 (0.6%)         w, y       1 (1.3%)       1 (1.0%)       2 (1.2%)         y       6 (7.8%)       4 (4.2%)       10 (5.8%)         b, p, e, y       0 (0%)       1 (1.0%)       3 (1.7%)				
n, r, u, y       1 (1.3%)       0 (0%)       1 (0.6%)         n, w       1 (1.3%)       3 (3.1%)       4 (2.3%)         n, y       3 (3.9%)       6 (6.3%)       9 (5.2%)         n, y, e       1 (1.3%)       0 (0%)       1 (0.6%)         n, y, w       1 (1.3%)       0 (0%)       1 (0.6%)         o, b       1 (1.3%)       0 (0%)       1 (0.6%)         o, n       1 (1.3%)       0 (0%)       1 (0.6%)         u, k       1 (1.3%)       0 (0%)       1 (0.6%)         w       6 (7.8%)       6 (6.3%)       12 (6.9%)         w, g       1 (1.3%)       1 (1.0%)       2 (1.2%)         w, n       2 (2.6%)       2 (2.1%)       4 (2.3%)         w, p, o       1 (1.3%)       0 (0%)       1 (0.6%)         w, y       1 (1.3%)       1 (1.0%)       2 (1.2%)         y       6 (7.8%)       4 (4.2%)       10 (5.8%)         b, p, e, y       0 (0%)       1 (1.0%)       3 (1.7%)				
n, w       1 (1.3%)       3 (3.1%)       4 (2.3%)         n, y       3 (3.9%)       6 (6.3%)       9 (5.2%)         n, y, e       1 (1.3%)       0 (0%)       1 (0.6%)         n, y, w       1 (1.3%)       0 (0%)       1 (0.6%)         o, b       1 (1.3%)       0 (0%)       1 (0.6%)         o, n       1 (1.3%)       0 (0%)       1 (0.6%)         u, k       1 (1.3%)       0 (0%)       1 (0.6%)         w, g       1 (1.3%)       0 (0%)       1 (6.9%)         w, g       1 (1.3%)       1 (1.0%)       2 (1.2%)         w, n       2 (2.6%)       2 (2.1%)       4 (2.3%)         w, p, o       1 (1.3%)       0 (0%)       1 (0.6%)         w, y       1 (1.3%)       1 (1.0%)       2 (1.2%)         y       6 (7.8%)       4 (4.2%)       10 (5.8%)         b, p, e, y       0 (0%)       1 (1.0%)       1 (0.6%)         e       0 (0%)       3 (3.1%)       3 (1.7%)				• •
n, y       3 (3.9%)       6 (6.3%)       9 (5.2%)         n, y, e       1 (1.3%)       0 (0%)       1 (0.6%)         n, y, w       1 (1.3%)       0 (0%)       1 (0.6%)         o, b       1 (1.3%)       0 (0%)       1 (0.6%)         o, n       1 (1.3%)       0 (0%)       1 (0.6%)         o, p, e       1 (1.3%)       0 (0%)       1 (0.6%)         w       6 (7.8%)       6 (6.3%)       12 (6.9%)         w, g       1 (1.3%)       1 (1.0%)       2 (1.2%)         w, n       2 (2.6%)       2 (2.1%)       4 (2.3%)         w, p, o       1 (1.3%)       1 (1.0%)       2 (1.2%)         y       6 (7.8%)       4 (4.2%)       10 (5.8%)         b, p, e, y       0 (0%)       1 (1.0%)       3 (3.1%)				
n, y, e       1 (1.3%)       0 (0%)       1 (0.6%)         n, y, w       1 (1.3%)       0 (0%)       1 (0.6%)         o, b       1 (1.3%)       0 (0%)       1 (0.6%)         o, n       1 (1.3%)       0 (0%)       1 (0.6%)         o, p, e       1 (1.3%)       0 (0%)       1 (0.6%)         u, k       1 (1.3%)       0 (0%)       1 (0.6%)         w, g       1 (1.3%)       0 (0%)       12 (6.9%)         w, n       2 (2.6%)       2 (2.1%)       4 (2.3%)         w, p, o       1 (1.3%)       0 (0%)       1 (0.6%)         w, y       1 (1.3%)       1 (1.0%)       2 (1.2%)         y       6 (7.8%)       4 (4.2%)       10 (5.8%)         b, p, e, y       0 (0%)       1 (1.0%)       1 (0.6%)         e       0 (0%)       3 (3.1%)       3 (1.7%)				
n, y, w       1 (1.3%)       0 (0%)       1 (0.6%)         o, b       1 (1.3%)       0 (0%)       1 (0.6%)         o, n       1 (1.3%)       0 (0%)       1 (0.6%)         o, p, e       1 (1.3%)       0 (0%)       1 (0.6%)         u, k       1 (1.3%)       0 (0%)       1 (0.6%)         w, g       1 (1.3%)       1 (1.0%)       2 (1.2%)         w, n       2 (2.6%)       2 (2.1%)       4 (2.3%)         w, p, o       1 (1.3%)       0 (0%)       1 (0.6%)         w, y       1 (1.3%)       1 (1.0%)       2 (1.2%)         y       6 (7.8%)       4 (4.2%)       10 (5.8%)         b, p, e, y       0 (0%)       1 (1.0%)       3 (1.7%)				
o, b       1 (1.3%)       0 (0%)       1 (0.6%)         o, n       1 (1.3%)       0 (0%)       1 (0.6%)         o, p, e       1 (1.3%)       0 (0%)       1 (0.6%)         u, k       1 (1.3%)       0 (0%)       1 (0.6%)         w, g       1 (1.3%)       6 (6.3%)       12 (6.9%)         w, n       2 (2.6%)       2 (2.1%)       4 (2.3%)         w, p, o       1 (1.3%)       0 (0%)       1 (0.6%)         w, y       1 (1.3%)       1 (1.0%)       2 (1.2%)         y       6 (7.8%)       4 (4.2%)       10 (5.8%)         b, p, e, y       0 (0%)       1 (1.0%)       1 (0.6%)         e       0 (0%)       3 (3.1%)       3 (1.7%)	=			
o, n       1 (1.3%)       0 (0%)       1 (0.6%)         o, p, e       1 (1.3%)       0 (0%)       1 (0.6%)         u, k       1 (1.3%)       0 (0%)       1 (0.6%)         w       6 (7.8%)       6 (6.3%)       12 (6.9%)         w, g       1 (1.3%)       1 (1.0%)       2 (1.2%)         w, n       2 (2.6%)       2 (2.1%)       4 (2.3%)         w, p, o       1 (1.3%)       0 (0%)       1 (0.6%)         w, y       1 (1.3%)       1 (1.0%)       2 (1.2%)         y       6 (7.8%)       4 (4.2%)       10 (5.8%)         b, p, e, y       0 (0%)       1 (1.0%)       1 (0.6%)         e       0 (0%)       3 (3.1%)       3 (1.7%)				
o, p, e       1 (1.3%)       0 (0%)       1 (0.6%)         u, k       1 (1.3%)       0 (0%)       1 (0.6%)         w       6 (7.8%)       6 (6.3%)       12 (6.9%)         w, g       1 (1.3%)       1 (1.0%)       2 (1.2%)         w, n       2 (2.6%)       2 (2.1%)       4 (2.3%)         w, p, o       1 (1.3%)       0 (0%)       1 (0.6%)         w, y       1 (1.3%)       1 (1.0%)       2 (1.2%)         y       6 (7.8%)       4 (4.2%)       10 (5.8%)         b, p, e, y       0 (0%)       1 (1.0%)       1 (0.6%)         e       0 (0%)       3 (3.1%)       3 (1.7%)				
u, k       1 (1.3%)       0 (0%)       1 (0.6%)         w       6 (7.8%)       6 (6.3%)       12 (6.9%)         w, g       1 (1.3%)       1 (1.0%)       2 (1.2%)         w, n       2 (2.6%)       2 (2.1%)       4 (2.3%)         w, p, o       1 (1.3%)       0 (0%)       1 (0.6%)         w, y       1 (1.3%)       1 (1.0%)       2 (1.2%)         y       6 (7.8%)       4 (4.2%)       10 (5.8%)         b, p, e, y       0 (0%)       1 (1.0%)       1 (0.6%)         e       0 (0%)       3 (3.1%)       3 (1.7%)				
w       6 (7.8%)       6 (6.3%)       12 (6.9%)         w, g       1 (1.3%)       1 (1.0%)       2 (1.2%)         w, n       2 (2.6%)       2 (2.1%)       4 (2.3%)         w, p, o       1 (1.3%)       0 (0%)       1 (0.6%)         w, y       1 (1.3%)       1 (1.0%)       2 (1.2%)         y       6 (7.8%)       4 (4.2%)       10 (5.8%)         b, p, e, y       0 (0%)       1 (1.0%)       1 (0.6%)         e       0 (0%)       3 (3.1%)       3 (1.7%)				• •
w, g       1 (1.3%)       1 (1.0%)       2 (1.2%)         w, n       2 (2.6%)       2 (2.1%)       4 (2.3%)         w, p, o       1 (1.3%)       0 (0%)       1 (0.6%)         w, y       1 (1.3%)       1 (1.0%)       2 (1.2%)         y       6 (7.8%)       4 (4.2%)       10 (5.8%)         b, p, e, y       0 (0%)       1 (1.0%)       1 (0.6%)         e       0 (0%)       3 (3.1%)       3 (1.7%)			• •	
w, n       2 (2.6%)       2 (2.1%)       4 (2.3%)         w, p, o       1 (1.3%)       0 (0%)       1 (0.6%)         w, y       1 (1.3%)       1 (1.0%)       2 (1.2%)         y       6 (7.8%)       4 (4.2%)       10 (5.8%)         b, p, e, y       0 (0%)       1 (1.0%)       1 (0.6%)         e       0 (0%)       3 (3.1%)       3 (1.7%)				
w, p, o       1 (1.3%)       0 (0%)       1 (0.6%)         w, y       1 (1.3%)       1 (1.0%)       2 (1.2%)         y       6 (7.8%)       4 (4.2%)       10 (5.8%)         b, p, e, y       0 (0%)       1 (1.0%)       1 (0.6%)         e       0 (0%)       3 (3.1%)       3 (1.7%)	_			
w, y       1 (1.3%)       1 (1.0%)       2 (1.2%)         y       6 (7.8%)       4 (4.2%)       10 (5.8%)         b, p, e, y       0 (0%)       1 (1.0%)       1 (0.6%)         e       0 (0%)       3 (3.1%)       3 (1.7%)			• •	
y 6 (7.8%) 4 (4.2%) 10 (5.8%) b, p, e, y 0 (0%) 1 (1.0%) 1 (0.6%) e 0 (0%) 3 (3.1%) 3 (1.7%)				
b, p, e, y 0 (0%) 1 (1.0%) 1 (0.6%) e 0 (0%) 3 (3.1%) 3 (1.7%)		• •		• •
e 0 (0%) 3 (3.1%) 3 (1.7%)				
		• •		
Δn (1/10%) 7/71%\ 7/170/\		• •		
	e, n	0 (0%)	2 (2.1%)	2 (1.2%)
e, n, p, w 0 (0%) 1 (1.0%) 1 (0.6%)	e, n, p, w	U (U%)	I (I.U%)	I (U.6%)

	е	р	Overall
e, o	0 (0%)	1 (1.0%)	1 (0.6%)
e, o, k	0 (0%)	1 (1.0%)	1 (0.6%)
e, p, w	0 (0%)	1 (1.0%)	1 (0.6%)
e, u, y	0 (0%)	1 (1.0%)	1 (0.6%)
g .	0 (0%)	1 (1.0%)	1 (0.6%)
g, n, k	0 (0%)	1 (1.0%)	1 (0.6%)
g, r, k, n	0 (0%)	1 (1.0%)	1 (0.6%)
g, r, n	0 (0%)	2 (2.1%)	2 (1.2%)
g, u, n	0 (0%)	1 (1.0%)	1 (0.6%)
l, k	0 (0%)	1 (1.0%)	1 (0.6%)
n, e, y	0 (0%)	1 (1.0%)	1 (0.6%)
n, o, y, w	0 (0%)	1 (1.0%)	1 (0.6%)
0	0 (0%)	2 (2.1%)	2 (1.2%)
o, e, n, k	0 (0%)	1 (1.0%)	1 (0.6%)
о, у	0 (0%)	3 (3.1%)	3 (1.7%)
o, y, r	0 (0%)	1 (1.0%)	1 (0.6%)
р	0 (0%)	2 (2.1%)	2 (1.2%)
r .	0 (0%)	1 (1.0%)	1 (0.6%)
r, l	0 (0%)	1 (1.0%)	1 (0.6%)
r, n	0 (0%)	1 (1.0%)	1 (0.6%)
r, p, y	0 (0%)	1 (1.0%)	1 (0.6%)
r, y	0 (0%)	1 (1.0%)	1 (0.6%)
u	0 (0%)	2 (2.1%)	2 (1.2%)
w, u	0 (0%)	1 (1.0%)	1 (0.6%)
w, y, g, n	0 (0%)	1 (1.0%)	1 (0.6%)
y, n	0 (0%)	3 (3.1%)	3 (1.7%)
y, o	0 (0%)	1 (1.0%)	1 (0.6%)
y, o, g, n, r	0 (0%)	1 (1.0%)	1 (0.6%)
y, o, r, n	0 (0%)	1 (1.0%)	1 (0.6%)
does.bruise.or.bleed	62 (01 00/)	90 (92 39/)	142 (92 70/)
f •	63 (81.8%) 14 (18.2%)	80 (83.3%) 16 (16.7%)	143 (82.7%) 30 (17.3%)
t gill attachment	14 (10.2%)	16 (16.7%)	30 (17.5%)
gill.attachment	10 (13.0%)	18 (18.8%)	28 (16.2%)
2	11 (14.3%)	21 (21.9%)	32 (18.5%)
a a, d	5 (6.5%)	3 (3.1%)	8 (4.6%)
d	9 (11.7%)	16 (16.7%)	25 (14.5%)
	10 (13.0%)	6 (6.3%)	16 (9.2%)
e f	4 (5.2%)	6 (6.3%)	10 (5.8%)
p	12 (15.6%)	5 (5.2%)	17 (9.8%)
S	7 (9.1%)	9 (9.4%)	16 (9.2%)
X	9 (11.7%)	12 (12.5%)	21 (12.1%)
gill.spacing	5 (22.770)	12 (12.575)	== (==.=75)
gspacing	31 (40.3%)	40 (41.7%)	71 (41.0%)
С	29 (37.7%)	41 (42.7%)	70 (40.5%)
d	13 (16.9%)	9 (9.4%)	22 (12.7%)
f	4 (5.2%)	6 (6.3%)	10 (5.8%)
gill.color	. (-,-,-,	- (0.0.0)	(5.5.5)
b	1 (1.3%)	0 (0%)	1 (0.6%)
b, u	1 (1.3%)	0 (0%)	1 (0.6%)
f	4 (5.2%)	6 (6.3%)	10 (5.8%)
g	3 (3.9%)	1 (1.0%)	4 (2.3%)
<u> </u>	` '	` ,	` ,

	е	р	Overall
g, k	1 (1.3%)	1 (1.0%)	2 (1.2%)
g, n	1 (1.3%)	2 (2.1%)	3 (1.7%)
g, p	1 (1.3%)	0 (0%)	1 (0.6%)
g, w	2 (2.6%)	0 (0%)	2 (1.2%)
g, w, y	1 (1.3%)	0 (0%)	1 (0.6%)
k, n	2 (2.6%)	4 (4.2%)	6 (3.5%)
k, p, w	1 (1.3%)	0 (0%)	1 (0.6%)
n	3 (3.9%)	8 (8.3%)	11 (6.4%)
n, y	1 (1.3%)	1 (1.0%)	2 (1.2%)
0	2 (2.6%)	2 (2.1%)	4 (2.3%)
o, b	1 (1.3%)	0 (0%)	1 (0.6%)
o, e	1 (1.3%)	1 (1.0%)	2 (1.2%)
	1 (1.3%)	4 (4.2%)	5 (2.9%)
o, y	3 (3.9%)	5 (5.2%)	8 (4.6%)
p	1 (1.3%)	0 (0%)	1 (0.6%)
p, n		• •	
p, n, k	1 (1.3%)	0 (0%)	1 (0.6%)
p, w	3 (3.9%)	2 (2.1%)	5 (2.9%)
r	1 (1.3%)	0 (0%)	1 (0.6%)
u, w	1 (1.3%)	0 (0%)	1 (0.6%)
W	21 (27.3%)	15 (15.6%)	36 (20.8%)
w, n	3 (3.9%)	2 (2.1%)	5 (2.9%)
w, p	1 (1.3%)	2 (2.1%)	3 (1.7%)
w, p, y	1 (1.3%)	0 (0%)	1 (0.6%)
w, u, g, n	1 (1.3%)	0 (0%)	1 (0.6%)
w, y	3 (3.9%)	2 (2.1%)	5 (2.9%)
у	6 (7.8%)	7 (7.3%)	13 (7.5%)
y, e, n	1 (1.3%)	0 (0%)	1 (0.6%)
y, k	1 (1.3%)	0 (0%)	1 (0.6%)
y, n	1 (1.3%)	4 (4.2%)	5 (2.9%)
y, r	1 (1.3%)	0 (0%)	1 (0.6%)
b, p, w	0 (0%)	1 (1.0%)	1 (0.6%)
e	0 (0%)	1 (1.0%)	1 (0.6%)
g, n, u	0 (0%)	1 (1.0%)	1 (0.6%)
g, r, w	0 (0%)	1 (1.0%)	1 (0.6%)
g, u	0 (0%)	1 (1.0%)	1 (0.6%)
k, p	0 (0%)	1 (1.0%)	1 (0.6%)
n, e, y	0 (0%)	1 (1.0%)	1 (0.6%)
n, p	0 (0%)	2 (2.1%)	2 (1.2%)
n, r	0 (0%)	1 (1.0%)	1 (0.6%)
n, u	0 (0%)	1 (1.0%)	1 (0.6%)
n, w	0 (0%)	2 (2.1%)	2 (1.2%)
p, y	0 (0%)	1 (1.0%)	1 (0.6%)
p, y, r	0 (0%)	1 (1.0%)	1 (0.6%)
r, y	0 (0%)	1 (1.0%)	1 (0.6%)
w, b, n	0 (0%)	1 (1.0%)	1 (0.6%)
	0 (0%)	1 (1.0%)	1 (0.6%)
w, g	0 (0%)	1 (1.0%)	1 (0.6%)
w, g, k	0 (0%)	1 (1.0%)	1 (0.6%)
w, g, p, n			
w, g, u	0 (0%)	1 (1.0%)	1 (0.6%)
w, r	0 (0%)	1 (1.0%)	1 (0.6%)
w, y, g, n	0 (0%)	1 (1.0%)	1 (0.6%)
y, g, k	0 (0%)	1 (1.0%)	1 (0.6%)

	e	р	Overall
y, o, e	0 (0%)	1 (1.0%)	1 (0.6%)
y, r, k	0 (0%)	1 (1.0%)	1 (0.6%)
y, w	0 (0%)	1 (1.0%)	1 (0.6%)
stem.height_min			
Mean (SD)	4.52 (2.20)	4.27 (2.22)	4.38 (2.21)
Median [Min, Max]	4.00 [2.00, 15.0]	4.00 [1.00, 15.0]	4.00 [1.00, 15.0]
Missing	0 (0%)	3 (3.1%)	3 (1.7%)
stem.height_max	, ,	, ,	, ,
Mean (SD)	9.58 (5.03)	8.57 (3.80)	9.03 (4.41)
Median [Min, Max]	8.00 [3.00, 35.0]	8.00 [2.00, 20.0]	8.00 [2.00, 35.0]
Missing	0 (0%)	3 (3.1%)	3 (1.7%)
stem.width_min			
Mean (SD)	10.2 (6.90)	7.67 (5.65)	8.83 (6.36)
Median [Min, Max]	10.0 [1.00, 40.0]	5.00 [0.500, 20.0]	8.00 [0.500, 40.0]
Missing	4 (5.2%)	7 (7.3%)	11 (6.4%)
stem.width_max			
Mean (SD)	19.2 (15.9)	14.4 (11.8)	16.6 (13.9)
Median [Min, Max]	15.0 [2.00, 100]	10.0 [1.00, 60.0]	15.0 [1.00, 100]
Missing	4 (5.2%)	7 (7.3%)	11 (6.4%)
stem.root			
	67 (87.0%)	79 (82.3%)	146 (84.4%)
b	6 (7.8%)	3 (3.1%)	9 (5.2%)
S	4 (5.2%)	5 (5.2%)	9 (5.2%)
С	0 (0%)	2 (2.1%)	2 (1.2%)
f	0 (0%)	3 (3.1%)	3 (1.7%)
r	0 (0%)	4 (4.2%)	4 (2.3%)
stem.surface			
	53 (68.8%)	55 (57.3%)	108 (62.4%)
i	4 (5.2%)	7 (7.3%)	11 (6.4%)
i, t	1 (1.3%)	0 (0%)	1 (0.6%)
k	1 (1.3%)	3 (3.1%)	4 (2.3%)
k, s	1 (1.3%)	0 (0%)	1 (0.6%)
S	9 (11.7%)	6 (6.3%)	15 (8.7%)
t	3 (3.9%)	4 (4.2%)	7 (4.0%)
у	4 (5.2%)	9 (9.4%)	13 (7.5%)
y, s f	1 (1.3%)	0 (0%)	1 (0.6%)
f	0 (0%)	3 (3.1%)	3 (1.7%)
g h	0 (0%)	5 (5.2%)	5 (2.9%)
	0 (0%)	1 (1.0%)	1 (0.6%)
i, s	0 (0%)	1 (1.0%)	1 (0.6%)
i, y	0 (0%)	1 (1.0%)	1 (0.6%)
s, h	0 (0%)	1 (1.0%)	1 (0.6%)
stem.color			
b, u	1 (1.3%)	0 (0%)	1 (0.6%)
e, n	1 (1.3%)	2 (2.1%)	3 (1.7%)
e, y	1 (1.3%)	0 (0%)	1 (0.6%)
g	2 (2.6%)	0 (0%)	2 (1.2%)
g, w	1 (1.3%)	0 (0%)	1 (0.6%)
g, n	1 (1.3%)	3 (3.1%)	4 (2.3%)
g, w	2 (2.6%)	0 (0%)	2 (1.2%)
k, n	1 (1.3%)	1 (1.0%)	2 (1.2%)
l, r, w	1 (1.3%)	0 (0%)	1 (0.6%)

	е	р	Overall
n	15 (19.5%)	20 (20.8%)	35 (20.2%)
n, g	1 (1.3%)	1 (1.0%)	2 (1.2%)
n, o	1 (1.3%)	1 (1.0%)	2 (1.2%)
n, p, w	1 (1.3%)	0 (0%)	1 (0.6%)
n, w	2 (2.6%)	1 (1.0%)	3 (1.7%)
n, y	1 (1.3%)	1 (1.0%)	2 (1.2%)
o, e	1 (1.3%)	0 (0%)	1 (0.6%)
o, n	1 (1.3%)	0 (0%)	1 (0.6%)
o, y	1 (1.3%)	4 (4.2%)	5 (2.9%)
u	1 (1.3%)	1 (1.0%)	2 (1.2%)
W	32 (41.6%)	25 (26.0%)	57 (32.9%)
w, n	2 (2.6%)	1 (1.0%)	3 (1.7%)
w, o	1 (1.3%)	0 (0%)	1 (0.6%)
w, y	1 (1.3%)	2 (2.1%)	3 (1.7%)
у	5 (6.5%)	8 (8.3%)	13 (7.5%)
e	0 (0%)	1 (1.0%)	1 (0.6%)
e, u, y	0 (0%)	1 (1.0%)	1 (0.6%)
f	0 (0%)	3 (3.1%)	3 (1.7%)
g, r, n	0 (0%)	2 (2.1%)	2 (1.2%)
g, u, n	0 (0%)	1 (1.0%)	1 (0.6%)
k	0 (0%)	1 (1.0%)	1 (0.6%)
n, e	0 (0%)	2 (2.1%)	2 (1.2%)
n, p	0 (0%)	1 (1.0%)	1 (0.6%)
0	0 (0%)	1 (1.0%)	1 (0.6%)
р	0 (0%)	2 (2.1%)	2 (1.2%)
r, y	0 (0%)	1 (1.0%)	1 (0.6%)
u, e	0 (0%)	1 (1.0%)	1 (0.6%)
w, l, n	0 (0%)	1 (1.0%)	1 (0.6%)
w, u	0 (0%)	1 (1.0%)	1 (0.6%)
y, e, n	0 (0%)	1 (1.0%)	1 (0.6%)
y, n	0 (0%)	4 (4.2%)	4 (2.3%)
y, o, k	0 (0%)	1 (1.0%)	1 (0.6%)
veil.type	` ,	,	` ,
31	74 (96.1%)	90 (93.8%)	164 (94.8%)
u	3 (3.9%)	6 (6.3%)	9 (5.2%)
veil.color	. (2.2	. ( )	
	68 (88.3%)	84 (87.5%)	152 (87.9%)
W	7 (9.1%)	8 (8.3%)	15 (8.7%)
у	1 (1.3%)	0 (0%)	1 (0.6%)
y, w	1 (1.3%)	0 (0%)	1 (0.6%)
e, n	0 (0%)	1 (1.0%)	1 (0.6%)
k	0 (0%)	1 (1.0%)	1 (0.6%)
n	0 (0%)	1 (1.0%)	1 (0.6%)
u	0 (0%)	1 (1.0%)	1 (0.6%)
has.ring	` ,	` '	•
f	60 (77.9%)	70 (72.9%)	130 (75.1%)
t	17 (22.1%)	26 (27.1%)	43 (24.9%)
ring.type	·· (==·=··/	- (/-/	~ \= ···• / •/
3·-7 F -	4 (5.2%)	3 (3.1%)	7 (4.0%)
e	3 (3.9%)	3 (3.1%)	6 (3.5%)
f	61 (79.2%)	76 (79.2%)	137 (79.2%)
g	2 (2.6%)	0 (0%)	2 (1.2%)
9	_ (=.070)	- (0,0)	_ (,

	e	n	Overall
		p	
!	1 (1.3%)	1 (1.0%)	2 (1.2%)
l, p	1 (1.3%)	0 (0%)	1 (0.6%)
l, r	2 (2.6%)	0 (0%)	2 (1.2%)
m	1 (1.3%)	0 (0%)	1 (0.6%)
p	1 (1.3%)	1 (1.0%)	2 (1.2%)
r	1 (1.3%)	2 (2.1%)	3 (1.7%)
e, g	0 (0%)	1 (1.0%)	1 (0.6%)
g, p	0 (0%)	2 (2.1%)	2 (1.2%)
l, e	0 (0%)	1 (1.0%)	1 (0.6%)
Z	0 (0%)	6 (6.3%)	6 (3.5%)
Spore.print.color			
	72 (93.5%)	83 (86.5%)	155 (89.6%)
g k	1 (1.3%)	0 (0%)	1 (0.6%)
k	1 (1.3%)	4 (4.2%)	5 (2.9%)
р	1 (1.3%)	2 (2.1%)	3 (1.7%)
W	2 (2.6%)	1 (1.0%)	3 (1.7%)
k, r	0 (0%)	1 (1.0%)	1 (0.6%)
k, u	0 (0%)	1 (1.0%)	1 (0.6%)
n	0 (0%)	3 (3.1%)	3 (1.7%)
p, w	0 (0%)	1 (1.0%)	1 (0.6%)
habitat			
d	47 (61.0%)	57 (59.4%)	104 (60.1%)
d, h	1 (1.3%)	3 (3.1%)	4 (2.3%)
g	1 (1.3%)	10 (10.4%)	11 (6.4%)
g, d	6 (7.8%)	4 (4.2%)	10 (5.8%)
g, d, h	1 (1.3%)	0 (0%)	1 (0.6%)
g, h, d	1 (1.3%)	2 (2.1%)	3 (1.7%)
g, l, m, d	1 (1.3%)	0 (0%)	1 (0.6%)
g, m	3 (3.9%)	2 (2.1%)	5 (2.9%)
g, m, d	1 (1.3%)	4 (4.2%)	5 (2.9%)
g, u, d	1 (1.3%)	0 (0%)	1 (0.6%)
Ĭ	1 (1.3%)	0 (0%)	1 (0.6%)
l, d	7 (9.1%)	6 (6.3%)	13 (7.5%)
l, d, h	1 (1.3%)	0 (0%)	1 (0.6%)
l, h	1 (1.3%)	0 (0%)	1 (0.6%)
m	1 (1.3%)	1 (1.0%)	2 (1.2%)
m, d	2 (2.6%)	1 (1.0%)	3 (1.7%)
w	1 (1.3%)	0 (0%)	1 (0.6%)
g, l, d	0 (0%)	1 (1.0%)	1 (0.6%)
h, d	0 (0%)	2 (2.1%)	2 (1.2%)
m, h	0 (0%)	1 (1.0%)	1 (0.6%)
p, d	0 (0%)	2 (2.1%)	2 (1.2%)
season	,	` '	` ,
a	5 (6.5%)	11 (11.5%)	16 (9.2%)
a, w	9 (11.7%)	6 (6.3%)	15 (8.7%)
S	1 (1.3%)	0 (0%)	1 (0.6%)
s, a, w	1 (1.3%)	0 (0%)	1 (0.6%)
s, u	2 (2.6%)	1 (1.0%)	3 (1.7%)
s, u, a	1 (1.3%)	4 (4.2%)	5 (2.9%)
s, u, a, w	7 (9.1%)	6 (6.3%)	13 (7.5%)
u, a	43 (55.8%)	63 (65.6%)	106 (61.3%)
u, a, w	8 (10.4%)	4 (4.2%)	12 (6.9%)
	- ()	- ( / - /	(3.273)

	е	р	Overall
u	0 (0%)	1 (1.0%)	1 (0.6%)
cap.diameter_mean			
Mean (SD)	50.0 (NA)	NA (NA)	50.0 (NA)
Median [Min, Max]	50.0 [50.0, 50.0]	NA [NA, NA]	50.0 [50.0, 50.0]
Missing	76 (98.7%)	96 (100%)	172 (99.4%)
stem.height_mean	,	, ,	,
Mean (SD)	NA (NA)	0 (0)	0 (0)
Median [Min, Max]	NA [NA, NA]	0 [0, 0]	0 (0, 01
Missing	77 (100%)	93 (96.9%)	170 (98.3%)
stem.width_mean	,	,	,
Mean (SD)	7.75 (4.50)	2.00 (3.61)	4.09 (4.72)
Median [Min, Max]	10.0 [1.00, 10.0]	1.00 [0, 10.0]	1.00 [0, 10.0]
Missing	73 (94.8%)	89 (92.7%)	162 (93.6%)