

Homework2

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Variable Definition

The detailed data coding book is presented in Figure 1.

□ 1: Figure 1: Data dictionary

Variable_Name	Data_Type	Description
family	String	Mushroom family name
name	String	Mushroom species name
class	Binary	Edibility: poisonous (p) or edible (e)
cap-diameter	Metrical (float)	Cap diameter in cm (min/max or mean)
cap-shape	Nominal	Cap shape: bell (b), conical (c), convex (x), flat (f), sunken (s), spherical (p), others (o)
cap-surface	Nominal	Cap surface: fibrous (i), grooves (g), scaly (y), smooth (s), shiny (h), leathery (l), silky (k)
cap-color	Nominal	Cap color: brown (n), buff (b), gray (g), green (r), pink (p), purple (u), red (e), white (w)
does-bruise-bleed	Nominal	Bruising or bleeding: true (t), false (f)
gill-attachment	Nominal	Gill attachment: adnate (a), adnexed (x), decurrent (d), free (e), sinuate (s), pores (p), other (o)
gill-spacing	Nominal	Gill spacing: close (c), distant (d), none (f)
gill-color	Nominal	Gill color: same as cap-color + none (f)
stem-height	Metrical (float)	Stem height in cm (min/max or mean)
stem-width	Metrical (float)	Stem width in mm (min/max or mean)
stem-root	Nominal	Stem root: bulbous (b), swollen (s), club (c), cup (u), equal (e), rhizomorphs (z), rootless (r)
stem-surface	Nominal	Stem surface: same as cap-surface + none (f)
stem-color	Nominal	Stem color: same as cap-color + none (f)
veil-type	Nominal	Veil type: partial (p), universal (u)
veil-color	Nominal	Veil color: same as cap-color + none (f)
has-ring	Nominal	Has ring: ring (t), none (f)

ring-type	Nominal	Ring type: cobwebby (c), evanescent (e), flaring (r), grooved (g), large (l), pendant (p)
spore-print-color	Nominal	Spore print color: same as cap-color
habitat	Nominal	Habitat: grasses (g), leaves (l), meadows (m), paths (p), heaths (h), urban (u), waste (w)
season	Nominal	Season: spring (s), summer (u), autumn (a), winter (w)

Data Description

Both `summary()` and `describe()` are functions used in exploratory data analysis (EDA) to understand the structure and distribution of data.

```
library(Hmisc)
summary(primary_data)
```

```

      family              name      class  cap.diameter
Tricholoma Family :43  Amethyst Deceiver  : 1  e:77  [2, 5] : 16
Russula Family    :27  Aniseed Funnel Cap  : 1  p:96  [5, 10]: 12
Bolete Family     :14  Apricot Fungus      : 1             [2, 6] : 10
Ink Cap Family    :13  Bare-toothed Russula: 1             [4, 8] :  9
Cortinarius Family:11  Bay Bolete          : 1             [2, 4] :  8
Amanita Family    : 8  Beechwood Sickener  : 1             [4, 10]:  8
(Other)           :57  (Other)              :167          (Other):110

      cap.shape  Cap.surface  cap.color  does.bruise.or.bleed  gill.attachment
[x]           :48           :40  [n]       :38  [f]:143              [a]       :32
[x, f]        :29  [y]       :14  [w]       :12  [t]: 30              :28
[x, f, s]:13  [s]       :13  [g, n]    :10              [d]       :25
[b]           :10  [g]       :12  [y]       :10              [x]       :21
[s]           : 9  [t]       :12  [n, y]   : 9              [p]       :17
[f, s]        : 8  [h, t]  :10  [n, e]   : 5              [e]       :16
(Other)       :56  (Other):72  (Other):89              (Other):34

gill.spacing  gill.color  stem.height  stem.width  stem.root  stem.surface
:71           [w]       :36  [4, 8] :21  [10, 20]: 16      :146              :108
[c]:70        [y]       :13  [4, 10]:16  [10, 15]: 15  [b]:  9  [s]       : 15
[d]:22        [n]       :11  [3, 6] :15  [5, 10] : 13  [c]:  2  [y]       : 13
[f]:10        [f]       :10  [2, 5] :11  [15, 20]:  9  [f]:  3  [i]       : 11
           [p]       : 8  [3, 8] :10  [2, 3]  :  9  [r]:  4  [t]       :  7
           [k, n]  : 6  [5, 10]: 8  [4, 8]  :  8  [s]:  9  [g]       :  5
           (Other):89  (Other):92  (Other) :103          (Other): 14

      stem.color  veil.type  veil.color  has.ring  ring.type  Spore.print.color
[w]           :57      :164           :152  [f]:130  [f]       :137           :155
[n]           :35  [u]:  9  [w]       : 15  [t]: 43           :  7  [k]       :  5
[y]           :13           [e, n] :  1           [e]       :  6  [n]       :  3
[o, y] :  5           [k]       :  1           [z]       :  6  [p]       :  3
[g, n] :  4           [n]       :  1           [r]       :  3  [w]       :  3
[y, n] :  4           [u]       :  1           [g, p]  :  2  [g]       :  1
```

(Other):55	(Other): 2	(Other): 12	(Other): 3
habitat	season		
[d] :104	[u, a] :106		
[l, d] : 13	[a] : 16		
[g] : 11	[a, w] : 15		
[g, d] : 10	[s, u, a, w]: 13		
[g, m, d]: 5	[u, a, w] : 12		
[g, m] : 5	[s, u, a] : 5		
(Other) : 25	(Other) : 6		

```
describe(primary_data)
```

```
primary_data
```

```
23 Variables      173 Observations
```

```
-----
```

```
family
```

```
      n missing distinct
173      0         23
```

```
lowest : Amanita Family      Bolbitius Family      Bolete Family      Bracket Fungi      Chanterell
highest: Russula Family      Saddle-Cup Family      Stropharia Family      Tricholoma Family      Wax Gill F
```

```
-----
```

```
name
```

```
      n missing distinct
173      0         173
```

```
lowest : Amethyst Deceiver      Aniseed Funnel Cap      Apricot Fungus      Bare-toothed
highest: Yellow-brown Tricholoma      Yellow-cracked Bolete      Yellow-gilled Russula      Yellow-stai
```

```
-----
```

```
class
```

```
      n missing distinct
173      0         2
```

```
Value      e      p
Frequency    77    96
Proportion 0.445 0.555
```

```
-----
```

```
cap.diameter
```

```
      n missing distinct
173      0         51
```

```
lowest : [0.4, 1]      [0.5, 1.5] [0.5, 1]      [0.7, 1.3] [1, 1.5]
highest: [8, 14]      [8, 15]      [8, 20]      [8, 25]      [8, 30]
```

```
-----
```

```
cap.shape
```

```
      n missing distinct
```

173	0	27			
-----	---	----	--	--	--

lowest : [b, f, s] [b, f] [b, x, f] [b, x] [b]

highest: [x, f] [x, o] [x, p] [x, s] [x]

Cap.surface

n	missing	distinct
173	0	41

lowest : [d, e, y, i] [d, k, s] [d, k] [d, s]

highest: [t] [w, t] [w] [y, s] [y]

cap.color

n	missing	distinct
173	0	67

lowest : [b, p, e, y] [b, u] [b] [e, n, p, w] [e, n, y]

highest: [y, n] [y, o, g, n, r] [y, o, r, n] [y, o] [y]

does.bruise.or.bleed

n	missing	distinct
173	0	2

Value [f] [t]

Frequency 143 30

Proportion 0.827 0.173

gill.attachment

n	missing	distinct
173	0	9

Value [a, d] [a] [d] [e] [f] [p] [s] [x]

Frequency 28 8 32 25 16 10 17 16 21

Proportion 0.162 0.046 0.185 0.145 0.092 0.058 0.098 0.092 0.121

gill.spacing

n	missing	distinct
173	0	4

Value [c] [d] [f]

Frequency 71 70 22 10

Proportion 0.410 0.405 0.127 0.058

gill.color

n	missing	distinct
173	0	59

lowest : [b, p, w] [b, u] [b] [e] [f]

highest: [y, o, e] [y, r, k] [y, r] [y, w] [y]

stem.height

n	missing	distinct
173	0	46

lowest :	[0]	[1, 2]	[1, 3]	[10, 12]	[10, 15]
highest:	[8, 12]	[8, 15]	[8, 20]	[8, 25]	[8, 30]

stem.width

n	missing	distinct
173	0	48

lowest :	[0.5, 1]	[0]	[1, 2]	[1, 3]	[1]
highest:	[7, 15]	[8, 12]	[8, 15]	[8, 18]	[8, 20]

stem.root

n	missing	distinct
173	0	6

Value		[b]	[c]	[f]	[r]	[s]
Frequency	146	9	2	3	4	9
Proportion	0.844	0.052	0.012	0.017	0.023	0.052

stem.surface

n	missing	distinct
173	0	15

Value		[f]	[g]	[h]	[i, s]	[i, t]	[i, y]	[i]	[k, s]
Frequency	108	3	5	1	1	1	1	11	1
Proportion	0.624	0.017	0.029	0.006	0.006	0.006	0.006	0.064	0.006

Value		[k]	[s, h]	[s]	[t]	[y, s]	[y]
Frequency	4	1	15	7	1	13	
Proportion	0.023	0.006	0.087	0.040	0.006	0.075	

stem.color

n	missing	distinct
173	0	41

lowest :	[b, u]	[e, n]	[e, u, y]	[e, y]	[e]
highest:	[w]	[y, e, n]	[y, n]	[y, o, k]	[y]

veil.type

n	missing	distinct
173	0	2

Value	[u]
-------	-----

Frequency 164 9
 Proportion 0.948 0.052

veil.color

	n	missing	distinct
	173	0	8

Value		[e, n]	[k]	[n]	[u]	[w]	[y, w]	[y]
Frequency	152	1	1	1	1	15	1	1
Proportion	0.879	0.006	0.006	0.006	0.006	0.087	0.006	0.006

has.ring

	n	missing	distinct
	173	0	2

Value		[f]	[t]
Frequency	130	43	
Proportion	0.751	0.249	

ring.type

	n	missing	distinct
	173	0	14

Value		[e, g]	[e]	[f]	[g, p]	[g]	[l, e]	[l, p]	[l, r]
Frequency	7	1	6	137	2	2	1	1	2
Proportion	0.040	0.006	0.035	0.792	0.012	0.012	0.006	0.006	0.012

Value		[l]	[m]	[p]	[r]	[z]
Frequency	2	1	2	3	6	
Proportion	0.012	0.006	0.012	0.017	0.035	

Spore.print.color

	n	missing	distinct
	173	0	9

Value		[g]	[k, r]	[k, u]	[k]	[n]	[p, w]	[p]	[w]
Frequency	155	1	1	1	5	3	1	3	3
Proportion	0.896	0.006	0.006	0.006	0.029	0.017	0.006	0.017	0.017

habitat

	n	missing	distinct
	173	0	21

lowest :	[d, h]	[d]	[g, d, h]	[g, d]	[g, h, d]
highest:	[m, d]	[m, h]	[m]	[p, d]	[w]

season

	n	missing	distinct
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173 0 10

Value	[a, w]	[a]	[s, a, w]	[s, u, a, w]	[s, u, a]
Frequency	15	16	1	13	5
Proportion	0.087	0.092	0.006	0.075	0.029

Value	[s, u]	[s]	[u, a, w]	[u, a]	[u]
Frequency	3	1	12	106	1
Proportion	0.017	0.006	0.069	0.613	0.006

Table 1

By using `table1()`, we can display percentages and counts for categorical variables, compute mean, median, or other summary statistics for continuous variables, and we can effectively summarize these features and compare their distribution between edible (e) and poisonous (p) mushrooms.

	Poisonous	Edible	Overall
	(N=96)	(N=77)	(N=173)
family			
Amanita Family	5 (5.2%)	3 (3.9%)	8 (4.6%)
Bolbitius Family	2 (2.1%)	1 (1.3%)	3 (1.7%)
Bolete Family	3 (3.1%)	11 (14.3%)	14 (8.1%)
Bracket Fungi	6 (6.3%)	1 (1.3%)	7 (4.0%)
Cortinarius Family	11 (11.5%)	0 (0%)	11 (6.4%)
Crepidotus Family	1 (1.0%)	0 (0%)	1 (0.6%)
Ear-Pick Family	1 (1.0%)	0 (0%)	1 (0.6%)
Entoloma Family	6 (6.3%)	1 (1.3%)	7 (4.0%)
Ink Cap Family	7 (7.3%)	6 (7.8%)	13 (7.5%)
Jelly Discs Family	1 (1.0%)	0 (0%)	1 (0.6%)
Lepiota Family	1 (1.0%)	2 (2.6%)	3 (1.7%)
Mushroom Family	1 (1.0%)	4 (5.2%)	5 (2.9%)
Paxillus Family	3 (3.1%)	0 (0%)	3 (1.7%)
Russula Family	16 (16.7%)	11 (14.3%)	27 (15.6%)
Saddle-Cup Family	1 (1.0%)	0 (0%)	1 (0.6%)
Stropharia Family	7 (7.3%)	1 (1.3%)	8 (4.6%)
Tricholoma Family	20 (20.8%)	23 (29.9%)	43 (24.9%)
Wax Gill Family	4 (4.2%)	4 (5.2%)	8 (4.6%)
Chanterelle Family	0 (0%)	3 (3.9%)	3 (1.7%)
Hydnum Family	0 (0%)	1 (1.3%)	1 (0.6%)
Morel Family	0 (0%)	1 (1.3%)	1 (0.6%)

	Poisonous	Edible	Overall
Oyster Mushroom Family	0 (0%)	2 (2.6%)	2 (1.2%)
Pluteus Family	0 (0%)	2 (2.6%)	2 (1.2%)
name			
Apricot Fungus	1 (1.0%)	0 (0%)	1 (0.6%)
Beechwood Sickener	1 (1.0%)	0 (0%)	1 (0.6%)
Birch Russula	1 (1.0%)	0 (0%)	1 (0.6%)
Bitter Bolete	1 (1.0%)	0 (0%)	1 (0.6%)
Blackening Wax Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Blood-red Cortinarius	1 (1.0%)	0 (0%)	1 (0.6%)
Blue Leptonia	1 (1.0%)	0 (0%)	1 (0.6%)
Brick Caps	1 (1.0%)	0 (0%)	1 (0.6%)
Brown Bell Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Brown Goblet	1 (1.0%)	0 (0%)	1 (0.6%)
Brown Roll-rim	1 (1.0%)	0 (0%)	1 (0.6%)
Charcoal Pholiota	1 (1.0%)	0 (0%)	1 (0.6%)
Club-footed Funnel Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Clustered Tough Shank	1 (1.0%)	0 (0%)	1 (0.6%)
Common Ink Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Common White Inocybe	1 (1.0%)	0 (0%)	1 (0.6%)
Dark-centred Hebeloma	1 (1.0%)	0 (0%)	1 (0.6%)
Death Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Destroying Angel	1 (1.0%)	0 (0%)	1 (0.6%)
Dotted-stemmed Bolete	1 (1.0%)	0 (0%)	1 (0.6%)
Dung Roundhead	1 (1.0%)	0 (0%)	1 (0.6%)
Ear-pick Fungus	1 (1.0%)	0 (0%)	1 (0.6%)
Egg Yolk Fungus	1 (1.0%)	0 (0%)	1 (0.6%)
Egg-shell Toadstool	1 (1.0%)	0 (0%)	1 (0.6%)
Elfin's Saddle	1 (1.0%)	0 (0%)	1 (0.6%)
False Chanterelle	1 (1.0%)	0 (0%)	1 (0.6%)
False Panther Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Fleecy Milk Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Fly Agaric	1 (1.0%)	0 (0%)	1 (0.6%)
Fragile Russula	1 (1.0%)	0 (0%)	1 (0.6%)
Fuzzy Polypore	1 (1.0%)	0 (0%)	1 (0.6%)
Geranium-scented Russula	1 (1.0%)	0 (0%)	1 (0.6%)
Grass-green Russula	1 (1.0%)	0 (0%)	1 (0.6%)
Hairy Stereum	1 (1.0%)	0 (0%)	1 (0.6%)
Hay Cap	1 (1.0%)	0 (0%)	1 (0.6%)

	Poisonous	Edible	Overall
Horse-hair Fungus	1 (1.0%)	0 (0%)	1 (0.6%)
Ivory Clitocybe	1 (1.0%)	0 (0%)	1 (0.6%)
Jelly Babies	1 (1.0%)	0 (0%)	1 (0.6%)
Lilac Bell Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Little Wheel Fungus	1 (1.0%)	0 (0%)	1 (0.6%)
Livid Entoloma	1 (1.0%)	0 (0%)	1 (0.6%)
Lurid Bolete	1 (1.0%)	0 (0%)	1 (0.6%)
Magic Mushroom	1 (1.0%)	0 (0%)	1 (0.6%)
Magpie Ink Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Moss Pixy Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Oak Milk Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Olive-brown Panellus	1 (1.0%)	0 (0%)	1 (0.6%)
Orange Bell Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Orange Moss Agaric	1 (1.0%)	0 (0%)	1 (0.6%)
Orange-red Wax Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Panther Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Parrot Wax Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Petticoat Fungus	1 (1.0%)	0 (0%)	1 (0.6%)
Plums and custard	1 (1.0%)	0 (0%)	1 (0.6%)
Poison Pie	1 (1.0%)	0 (0%)	1 (0.6%)
Purple Cortinarius	1 (1.0%)	0 (0%)	1 (0.6%)
Red-banded Cortinarius	1 (1.0%)	0 (0%)	1 (0.6%)
Red-staining Inocybe	1 (1.0%)	0 (0%)	1 (0.6%)
Rooting Shank	1 (1.0%)	0 (0%)	1 (0.6%)
Rufous Milk Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Russet Tough Shank	1 (1.0%)	0 (0%)	1 (0.6%)
Rusty Carpet Ink Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Rusty Wood Rotter	1 (1.0%)	0 (0%)	1 (0.6%)
Saffron Parasol	1 (1.0%)	0 (0%)	1 (0.6%)
Shaggy Pholiota	1 (1.0%)	0 (0%)	1 (0.6%)
Silky Nolanea	1 (1.0%)	0 (0%)	1 (0.6%)
Silver Leaf Fungus	1 (1.0%)	0 (0%)	1 (0.6%)
Slimy Milk Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Small Brown Milk Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Soap-scented Tricholoma	1 (1.0%)	0 (0%)	1 (0.6%)
Soft Slipper Toadstool	1 (1.0%)	0 (0%)	1 (0.6%)
Spectacular Gymnopile	1 (1.0%)	0 (0%)	1 (0.6%)
Spotted Tough Shank	1 (1.0%)	0 (0%)	1 (0.6%)

	Poisonous	Edible	Overall
Spruce Milk Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Stinking Parasol	1 (1.0%)	0 (0%)	1 (0.6%)
Stinking Russula	1 (1.0%)	0 (0%)	1 (0.6%)
Straw-coloured Inocybe	1 (1.0%)	0 (0%)	1 (0.6%)
Striated Nolanea	1 (1.0%)	0 (0%)	1 (0.6%)
Stump Bell Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Sulphur Tricholoma	1 (1.0%)	0 (0%)	1 (0.6%)
Sulphur Tuft	1 (1.0%)	0 (0%)	1 (0.6%)
Sweet Milk Cap	1 (1.0%)	0 (0%)	1 (0.6%)
The Sickener	1 (1.0%)	0 (0%)	1 (0.6%)
Tufted Bell Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Turban Fungus	1 (1.0%)	0 (0%)	1 (0.6%)
Ugly Milk Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Umbrella Navel Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Velvet Roll-rim	1 (1.0%)	0 (0%)	1 (0.6%)
Verdigris Toadstool	1 (1.0%)	0 (0%)	1 (0.6%)
Weeping Widow	1 (1.0%)	0 (0%)	1 (0.6%)
White Leptonia	1 (1.0%)	0 (0%)	1 (0.6%)
White Saddle	1 (1.0%)	0 (0%)	1 (0.6%)
Wood Woolly-foot	1 (1.0%)	0 (0%)	1 (0.6%)
Woolly Milk Cap	1 (1.0%)	0 (0%)	1 (0.6%)
Yellow Wax cap	1 (1.0%)	0 (0%)	1 (0.6%)
Yellow-staining Mushroom	1 (1.0%)	0 (0%)	1 (0.6%)
Amethyst Deceiver	0 (0%)	1 (1.3%)	1 (0.6%)
Aniseed Funnel Cap	0 (0%)	1 (1.3%)	1 (0.6%)
Bare-toothed Russula	0 (0%)	1 (1.3%)	1 (0.6%)
Bay Bolete	0 (0%)	1 (1.3%)	1 (0.6%)
Blackening Russula	0 (0%)	1 (1.3%)	1 (0.6%)
Blackish Purple Russula	0 (0%)	1 (1.3%)	1 (0.6%)
Bleeding Brown Mushroom	0 (0%)	1 (1.3%)	1 (0.6%)
Bonnet Bell Cap	0 (0%)	1 (1.3%)	1 (0.6%)
Branched Oyster Mushroom	0 (0%)	1 (1.3%)	1 (0.6%)
Brown Birch Bolete	0 (0%)	1 (1.3%)	1 (0.6%)
Brown Stew Fungus	0 (0%)	1 (1.3%)	1 (0.6%)
Bulbous Honey Fungus	0 (0%)	1 (1.3%)	1 (0.6%)
Cep	0 (0%)	1 (1.3%)	1 (0.6%)
Changeable Melanoleuca	0 (0%)	1 (1.3%)	1 (0.6%)
Chanterelle	0 (0%)	1 (1.3%)	1 (0.6%)

	Poisonous	Edible	Overall
Clouded Agaric	0 (0%)	1 (1.3%)	1 (0.6%)
Clustered Brown Cap	0 (0%)	1 (1.3%)	1 (0.6%)
Coconut-scented Milk Cap	0 (0%)	1 (1.3%)	1 (0.6%)
Common Crumble Cap	0 (0%)	1 (1.3%)	1 (0.6%)
Common Funnel Cap	0 (0%)	1 (1.3%)	1 (0.6%)
Common Morel	0 (0%)	1 (1.3%)	1 (0.6%)
Common Yellow Russula	0 (0%)	1 (1.3%)	1 (0.6%)
Crab-scented Russula	0 (0%)	1 (1.3%)	1 (0.6%)
Cultivated Mushroom	0 (0%)	1 (1.3%)	1 (0.6%)
Dryad's Saddle	0 (0%)	1 (1.3%)	1 (0.6%)
Fairies' Bonnets	0 (0%)	1 (1.3%)	1 (0.6%)
Fairy Parasol	0 (0%)	1 (1.3%)	1 (0.6%)
Fairy Ring Champignon	0 (0%)	1 (1.3%)	1 (0.6%)
False Death Cap	0 (0%)	1 (1.3%)	1 (0.6%)
Fawn Pluteus	0 (0%)	1 (1.3%)	1 (0.6%)
Field Blewit	0 (0%)	1 (1.3%)	1 (0.6%)
Field Mushroom	0 (0%)	1 (1.3%)	1 (0.6%)
Glistening Ink Cap	0 (0%)	1 (1.3%)	1 (0.6%)
Greasy Tough Shank	0 (0%)	1 (1.3%)	1 (0.6%)
Grey Tricholoma	0 (0%)	1 (1.3%)	1 (0.6%)
Hedgehog Fungus	0 (0%)	1 (1.3%)	1 (0.6%)
Herald of Winter	0 (0%)	1 (1.3%)	1 (0.6%)
Honey Fungus	0 (0%)	1 (1.3%)	1 (0.6%)
Horn of Plenty	0 (0%)	1 (1.3%)	1 (0.6%)
Horse Mushroom	0 (0%)	1 (1.3%)	1 (0.6%)
Ivory Wax Cap	0 (0%)	1 (1.3%)	1 (0.6%)
Larch Bolete	0 (0%)	1 (1.3%)	1 (0.6%)
Meadow Wax Cap	0 (0%)	1 (1.3%)	1 (0.6%)
Milky Bell Cap	0 (0%)	1 (1.3%)	1 (0.6%)
Orange Birch Bolete	0 (0%)	1 (1.3%)	1 (0.6%)
Oyster Mushroom	0 (0%)	1 (1.3%)	1 (0.6%)
Parasitic Bolete	0 (0%)	1 (1.3%)	1 (0.6%)
Parasol Mushroom	0 (0%)	1 (1.3%)	1 (0.6%)
Peppery Bolete	0 (0%)	1 (1.3%)	1 (0.6%)
Peppery Milk Cap	0 (0%)	1 (1.3%)	1 (0.6%)
Porcelain Mushroom	0 (0%)	1 (1.3%)	1 (0.6%)
Red-cracked Bolete	0 (0%)	1 (1.3%)	1 (0.6%)
Saffron Milk Cap	0 (0%)	1 (1.3%)	1 (0.6%)

	Poisonous	Edible	Overall
Scaly Tricholoma	0 (0%)	1 (1.3%)	1 (0.6%)
Scarlet Hood	0 (0%)	1 (1.3%)	1 (0.6%)
Shaggy Ink Cap	0 (0%)	1 (1.3%)	1 (0.6%)
Shaggy Parasol	0 (0%)	1 (1.3%)	1 (0.6%)
Shallow-pored Bolete	0 (0%)	1 (1.3%)	1 (0.6%)
Slippery Jack	0 (0%)	1 (1.3%)	1 (0.6%)
Small Bleeding Bell Cap	0 (0%)	1 (1.3%)	1 (0.6%)
Spring Agaric	0 (0%)	1 (1.3%)	1 (0.6%)
St George's Mushroom	0 (0%)	1 (1.3%)	1 (0.6%)
Tawny Grisette	0 (0%)	1 (1.3%)	1 (0.6%)
The Blusher	0 (0%)	1 (1.3%)	1 (0.6%)
The Charcoal Burner	0 (0%)	1 (1.3%)	1 (0.6%)
The Deceiver	0 (0%)	1 (1.3%)	1 (0.6%)
The Miller	0 (0%)	1 (1.3%)	1 (0.6%)
Tubed Chanterelle	0 (0%)	1 (1.3%)	1 (0.6%)
Two-toned Crumble Cap	0 (0%)	1 (1.3%)	1 (0.6%)
Veined Pluteus	0 (0%)	1 (1.3%)	1 (0.6%)
Velvet Shank	0 (0%)	1 (1.3%)	1 (0.6%)
Wood Blewit	0 (0%)	1 (1.3%)	1 (0.6%)
Yellow Swamp Russula	0 (0%)	1 (1.3%)	1 (0.6%)
Yellow-brown Tricholoma	0 (0%)	1 (1.3%)	1 (0.6%)
Yellow-cracked Bolete	0 (0%)	1 (1.3%)	1 (0.6%)
Yellow-gilled Russula	0 (0%)	1 (1.3%)	1 (0.6%)
Yellow-stemmed Bell Cap	0 (0%)	1 (1.3%)	1 (0.6%)
class			
Poisonous	96 (100%)	0 (0%)	96 (55.5%)
Edible	0 (0%)	77 (100%)	77 (44.5%)
cap.diameter			
Mean (SD)	22.9 (12.3)	26.7 (11.5)	24.6 (12.1)
Median [Min, Max]	22.5 [1.00, 51.0]	27.0 [2.00, 51.0]	25.0 [1.00, 51.0]
cap.shape			
[b, f, s]	1 (1.0%)	0 (0%)	1 (0.6%)
[b, f]	3 (3.1%)	2 (2.6%)	5 (2.9%)
[b, x, f]	1 (1.0%)	0 (0%)	1 (0.6%)
[b, x]	3 (3.1%)	0 (0%)	3 (1.7%)
[b]	8 (8.3%)	2 (2.6%)	10 (5.8%)
[c, f]	2 (2.1%)	0 (0%)	2 (1.2%)
[c]	2 (2.1%)	1 (1.3%)	3 (1.7%)

	Poisonous	Edible	Overall
[f, s]	5 (5.2%)	3 (3.9%)	8 (4.6%)
[f, x]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[f]	4 (4.2%)	4 (5.2%)	8 (4.6%)
[o]	7 (7.3%)	1 (1.3%)	8 (4.6%)
[p, b]	2 (2.1%)	1 (1.3%)	3 (1.7%)
[p, x]	1 (1.0%)	3 (3.9%)	4 (2.3%)
[p]	1 (1.0%)	0 (0%)	1 (0.6%)
[s]	5 (5.2%)	4 (5.2%)	9 (5.2%)
[x, f, s]	6 (6.3%)	7 (9.1%)	13 (7.5%)
[x, f]	15 (15.6%)	14 (18.2%)	29 (16.8%)
[x, o]	1 (1.0%)	0 (0%)	1 (0.6%)
[x, p]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[x, s]	2 (2.1%)	1 (1.3%)	3 (1.7%)
[x]	25 (26.0%)	23 (29.9%)	48 (27.7%)
[c, x, f]	0 (0%)	1 (1.3%)	1 (0.6%)
[c, x]	0 (0%)	1 (1.3%)	1 (0.6%)
[p, c, o]	0 (0%)	1 (1.3%)	1 (0.6%)
[p, f]	0 (0%)	2 (2.6%)	2 (1.2%)
[p, x, f]	0 (0%)	2 (2.6%)	2 (1.2%)
[s, o]	0 (0%)	2 (2.6%)	2 (1.2%)
Cap.surface			
	21 (21.9%)	19 (24.7%)	40 (23.1%)
[d, e, y, i]	1 (1.0%)	0 (0%)	1 (0.6%)
[d, k, s]	1 (1.0%)	0 (0%)	1 (0.6%)
[d, k]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[d]	5 (5.2%)	4 (5.2%)	9 (5.2%)
[e, k, s, h]	1 (1.0%)	0 (0%)	1 (0.6%)
[e, t, k]	1 (1.0%)	0 (0%)	1 (0.6%)
[e]	2 (2.1%)	3 (3.9%)	5 (2.9%)
[g, h]	1 (1.0%)	0 (0%)	1 (0.6%)
[g, s, d]	1 (1.0%)	0 (0%)	1 (0.6%)
[g]	7 (7.3%)	5 (6.5%)	12 (6.9%)
[h, s, t]	1 (1.0%)	0 (0%)	1 (0.6%)
[h, t, w]	1 (1.0%)	0 (0%)	1 (0.6%)
[h, t, y]	1 (1.0%)	0 (0%)	1 (0.6%)
[h, t]	4 (4.2%)	6 (7.8%)	10 (5.8%)
[h]	2 (2.1%)	3 (3.9%)	5 (2.9%)
[i, e]	1 (1.0%)	0 (0%)	1 (0.6%)

	Poisonous	Edible	Overall
[i]	4 (4.2%)	0 (0%)	4 (2.3%)
[k, e]	1 (1.0%)	0 (0%)	1 (0.6%)
[k]	4 (4.2%)	0 (0%)	4 (2.3%)
[l]	2 (2.1%)	2 (2.6%)	4 (2.3%)
[s, h]	1 (1.0%)	0 (0%)	1 (0.6%)
[s, i]	1 (1.0%)	0 (0%)	1 (0.6%)
[s, t]	2 (2.1%)	2 (2.6%)	4 (2.3%)
[s, y]	2 (2.1%)	1 (1.3%)	3 (1.7%)
[s]	5 (5.2%)	8 (10.4%)	13 (7.5%)
[t, h]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[t, w, d]	1 (1.0%)	0 (0%)	1 (0.6%)
[t]	10 (10.4%)	2 (2.6%)	12 (6.9%)
[w]	3 (3.1%)	2 (2.6%)	5 (2.9%)
[y]	7 (7.3%)	7 (9.1%)	14 (8.1%)
[d, s]	0 (0%)	1 (1.3%)	1 (0.6%)
[e, y]	0 (0%)	1 (1.3%)	1 (0.6%)
[g, s, h, t]	0 (0%)	1 (1.3%)	1 (0.6%)
[g, s, t]	0 (0%)	1 (1.3%)	1 (0.6%)
[h, s, d]	0 (0%)	1 (1.3%)	1 (0.6%)
[i, y]	0 (0%)	2 (2.6%)	2 (1.2%)
[s, d]	0 (0%)	1 (1.3%)	1 (0.6%)
[t, h, s]	0 (0%)	1 (1.3%)	1 (0.6%)
[w, t]	0 (0%)	1 (1.3%)	1 (0.6%)
[y, s]	0 (0%)	1 (1.3%)	1 (0.6%)
cap.color			
[b, p, e, y]	1 (1.0%)	0 (0%)	1 (0.6%)
[e, n, p, w]	1 (1.0%)	0 (0%)	1 (0.6%)
[e, n]	2 (2.1%)	0 (0%)	2 (1.2%)
[e, o, k]	1 (1.0%)	0 (0%)	1 (0.6%)
[e, o]	1 (1.0%)	0 (0%)	1 (0.6%)
[e, p, w]	1 (1.0%)	0 (0%)	1 (0.6%)
[e, u, y]	1 (1.0%)	0 (0%)	1 (0.6%)
[e]	3 (3.1%)	0 (0%)	3 (1.7%)
[g, k]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[g, n, k]	1 (1.0%)	0 (0%)	1 (0.6%)
[g, n]	4 (4.2%)	6 (7.8%)	10 (5.8%)
[g, r, k, n]	1 (1.0%)	0 (0%)	1 (0.6%)
[g, r, n]	2 (2.1%)	0 (0%)	2 (1.2%)

	Poisonous	Edible	Overall
[g, u, n]	1 (1.0%)	0 (0%)	1 (0.6%)
[g]	1 (1.0%)	0 (0%)	1 (0.6%)
[l, k]	1 (1.0%)	0 (0%)	1 (0.6%)
[n, b]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[n, e, y]	1 (1.0%)	0 (0%)	1 (0.6%)
[n, e]	4 (4.2%)	1 (1.3%)	5 (2.9%)
[n, o, y, w]	1 (1.0%)	0 (0%)	1 (0.6%)
[n, o]	2 (2.1%)	2 (2.6%)	4 (2.3%)
[n, p, e]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[n, w]	3 (3.1%)	1 (1.3%)	4 (2.3%)
[n, y]	6 (6.3%)	3 (3.9%)	9 (5.2%)
[n]	16 (16.7%)	22 (28.6%)	38 (22.0%)
[o, e, n, k]	1 (1.0%)	0 (0%)	1 (0.6%)
[o, y, r]	1 (1.0%)	0 (0%)	1 (0.6%)
[o, y]	3 (3.1%)	0 (0%)	3 (1.7%)
[o]	2 (2.1%)	0 (0%)	2 (1.2%)
[p]	2 (2.1%)	0 (0%)	2 (1.2%)
[r, l]	1 (1.0%)	0 (0%)	1 (0.6%)
[r, n]	1 (1.0%)	0 (0%)	1 (0.6%)
[r, p, y]	1 (1.0%)	0 (0%)	1 (0.6%)
[r, y]	1 (1.0%)	0 (0%)	1 (0.6%)
[r]	1 (1.0%)	0 (0%)	1 (0.6%)
[u]	2 (2.1%)	0 (0%)	2 (1.2%)
[w, g]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[w, n]	2 (2.1%)	2 (2.6%)	4 (2.3%)
[w, u]	1 (1.0%)	0 (0%)	1 (0.6%)
[w, y, g, n]	1 (1.0%)	0 (0%)	1 (0.6%)
[w, y]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[w]	6 (6.3%)	6 (7.8%)	12 (6.9%)
[y, n]	3 (3.1%)	0 (0%)	3 (1.7%)
[y, o, g, n, r]	1 (1.0%)	0 (0%)	1 (0.6%)
[y, o, r, n]	1 (1.0%)	0 (0%)	1 (0.6%)
[y, o]	1 (1.0%)	0 (0%)	1 (0.6%)
[y]	4 (4.2%)	6 (7.8%)	10 (5.8%)
[b, u]	0 (0%)	1 (1.3%)	1 (0.6%)
[b]	0 (0%)	1 (1.3%)	1 (0.6%)
[e, n, y]	0 (0%)	2 (2.6%)	2 (1.2%)
[g, u, n, p]	0 (0%)	1 (1.3%)	1 (0.6%)

	Poisonous	Edible	Overall
[k, n, w]	0 (0%)	1 (1.3%)	1 (0.6%)
[l, g, b, w]	0 (0%)	1 (1.3%)	1 (0.6%)
[l, r, w]	0 (0%)	1 (1.3%)	1 (0.6%)
[l, u, g, n]	0 (0%)	1 (1.3%)	1 (0.6%)
[l, y]	0 (0%)	1 (1.3%)	1 (0.6%)
[n, w]	0 (0%)	1 (1.3%)	1 (0.6%)
[n, g]	0 (0%)	3 (3.9%)	3 (1.7%)
[n, o, e]	0 (0%)	1 (1.3%)	1 (0.6%)
[n, r, u, y]	0 (0%)	1 (1.3%)	1 (0.6%)
[n, y, e]	0 (0%)	1 (1.3%)	1 (0.6%)
[n, y, w]	0 (0%)	1 (1.3%)	1 (0.6%)
[o, b]	0 (0%)	1 (1.3%)	1 (0.6%)
[o, n]	0 (0%)	1 (1.3%)	1 (0.6%)
[o, p, e]	0 (0%)	1 (1.3%)	1 (0.6%)
[u, k]	0 (0%)	1 (1.3%)	1 (0.6%)
[w, p, o]	0 (0%)	1 (1.3%)	1 (0.6%)
does.bruise.or.bleed			
[f]	80 (83.3%)	63 (81.8%)	143 (82.7%)
[t]	16 (16.7%)	14 (18.2%)	30 (17.3%)
gill.attachment			
	18 (18.8%)	10 (13.0%)	28 (16.2%)
[a, d]	3 (3.1%)	5 (6.5%)	8 (4.6%)
[a]	21 (21.9%)	11 (14.3%)	32 (18.5%)
[d]	16 (16.7%)	9 (11.7%)	25 (14.5%)
[e]	6 (6.3%)	10 (13.0%)	16 (9.2%)
[f]	6 (6.3%)	4 (5.2%)	10 (5.8%)
[p]	5 (5.2%)	12 (15.6%)	17 (9.8%)
[s]	9 (9.4%)	7 (9.1%)	16 (9.2%)
[x]	12 (12.5%)	9 (11.7%)	21 (12.1%)
gill.spacing			
	40 (41.7%)	31 (40.3%)	71 (41.0%)
[c]	41 (42.7%)	29 (37.7%)	70 (40.5%)
[d]	9 (9.4%)	13 (16.9%)	22 (12.7%)
[f]	6 (6.3%)	4 (5.2%)	10 (5.8%)
gill.color			
[b, p, w]	1 (1.0%)	0 (0%)	1 (0.6%)
[e]	1 (1.0%)	0 (0%)	1 (0.6%)
[f]	6 (6.3%)	4 (5.2%)	10 (5.8%)

	Poisonous	Edible	Overall
[g, k]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[g, n, u]	1 (1.0%)	0 (0%)	1 (0.6%)
[g, n]	2 (2.1%)	1 (1.3%)	3 (1.7%)
[g, r, w]	1 (1.0%)	0 (0%)	1 (0.6%)
[g, u]	1 (1.0%)	0 (0%)	1 (0.6%)
[g]	1 (1.0%)	3 (3.9%)	4 (2.3%)
[k, n]	4 (4.2%)	2 (2.6%)	6 (3.5%)
[k, p]	1 (1.0%)	0 (0%)	1 (0.6%)
[n, e, y]	1 (1.0%)	0 (0%)	1 (0.6%)
[n, p]	2 (2.1%)	0 (0%)	2 (1.2%)
[n, r]	1 (1.0%)	0 (0%)	1 (0.6%)
[n, u]	1 (1.0%)	0 (0%)	1 (0.6%)
[n, w]	2 (2.1%)	0 (0%)	2 (1.2%)
[n, y]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[n]	8 (8.3%)	3 (3.9%)	11 (6.4%)
[o, e]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[o, y]	4 (4.2%)	1 (1.3%)	5 (2.9%)
[o]	2 (2.1%)	2 (2.6%)	4 (2.3%)
[p, w]	2 (2.1%)	3 (3.9%)	5 (2.9%)
[p, y, r]	1 (1.0%)	0 (0%)	1 (0.6%)
[p, y]	1 (1.0%)	0 (0%)	1 (0.6%)
[p]	5 (5.2%)	3 (3.9%)	8 (4.6%)
[r, y]	1 (1.0%)	0 (0%)	1 (0.6%)
[w, b, n]	1 (1.0%)	0 (0%)	1 (0.6%)
[w, g, k]	1 (1.0%)	0 (0%)	1 (0.6%)
[w, g, p, n]	1 (1.0%)	0 (0%)	1 (0.6%)
[w, g, u]	1 (1.0%)	0 (0%)	1 (0.6%)
[w, g]	1 (1.0%)	0 (0%)	1 (0.6%)
[w, n]	2 (2.1%)	3 (3.9%)	5 (2.9%)
[w, p]	2 (2.1%)	1 (1.3%)	3 (1.7%)
[w, r]	1 (1.0%)	0 (0%)	1 (0.6%)
[w, y, g, n]	1 (1.0%)	0 (0%)	1 (0.6%)
[w, y]	2 (2.1%)	3 (3.9%)	5 (2.9%)
[w]	15 (15.6%)	21 (27.3%)	36 (20.8%)
[y, g, k]	1 (1.0%)	0 (0%)	1 (0.6%)
[y, n]	4 (4.2%)	1 (1.3%)	5 (2.9%)
[y, o, e]	1 (1.0%)	0 (0%)	1 (0.6%)
[y, r, k]	1 (1.0%)	0 (0%)	1 (0.6%)

	Poisonous	Edible	Overall
[y, w]	1 (1.0%)	0 (0%)	1 (0.6%)
[y]	7 (7.3%)	6 (7.8%)	13 (7.5%)
[b, u]	0 (0%)	1 (1.3%)	1 (0.6%)
[b]	0 (0%)	1 (1.3%)	1 (0.6%)
[g, p]	0 (0%)	1 (1.3%)	1 (0.6%)
[g, w, y]	0 (0%)	1 (1.3%)	1 (0.6%)
[g, w]	0 (0%)	2 (2.6%)	2 (1.2%)
[k, p, w]	0 (0%)	1 (1.3%)	1 (0.6%)
[o, b]	0 (0%)	1 (1.3%)	1 (0.6%)
[p, n, k]	0 (0%)	1 (1.3%)	1 (0.6%)
[p, n]	0 (0%)	1 (1.3%)	1 (0.6%)
[r]	0 (0%)	1 (1.3%)	1 (0.6%)
[u, w]	0 (0%)	1 (1.3%)	1 (0.6%)
[w, p, y]	0 (0%)	1 (1.3%)	1 (0.6%)
[w, u, g, n]	0 (0%)	1 (1.3%)	1 (0.6%)
[y, e, n]	0 (0%)	1 (1.3%)	1 (0.6%)
[y, k]	0 (0%)	1 (1.3%)	1 (0.6%)
[y, r]	0 (0%)	1 (1.3%)	1 (0.6%)
stem.height			
Mean (SD)	21.5 (9.66)	24.2 (8.39)	22.7 (9.18)
Median [Min, Max]	22.0 [1.00, 44.0]	24.0 [5.00, 46.0]	22.0 [1.00, 46.0]
stem.width			
Mean (SD)	23.0 (14.0)	20.9 (13.8)	22.1 (13.9)
Median [Min, Max]	22.0 [1.00, 47.0]	16.0 [3.00, 48.0]	19.0 [1.00, 48.0]
stem.root			
	79 (82.3%)	67 (87.0%)	146 (84.4%)
[b]	3 (3.1%)	6 (7.8%)	9 (5.2%)
[c]	2 (2.1%)	0 (0%)	2 (1.2%)
[f]	3 (3.1%)	0 (0%)	3 (1.7%)
[r]	4 (4.2%)	0 (0%)	4 (2.3%)
[s]	5 (5.2%)	4 (5.2%)	9 (5.2%)
stem.surface			
	55 (57.3%)	53 (68.8%)	108 (62.4%)
[f]	3 (3.1%)	0 (0%)	3 (1.7%)
[g]	5 (5.2%)	0 (0%)	5 (2.9%)
[h]	1 (1.0%)	0 (0%)	1 (0.6%)
[i, s]	1 (1.0%)	0 (0%)	1 (0.6%)
[i, y]	1 (1.0%)	0 (0%)	1 (0.6%)

	Poisonous	Edible	Overall
[i]	7 (7.3%)	4 (5.2%)	11 (6.4%)
[k]	3 (3.1%)	1 (1.3%)	4 (2.3%)
[s, h]	1 (1.0%)	0 (0%)	1 (0.6%)
[s]	6 (6.3%)	9 (11.7%)	15 (8.7%)
[t]	4 (4.2%)	3 (3.9%)	7 (4.0%)
[y]	9 (9.4%)	4 (5.2%)	13 (7.5%)
[i, t]	0 (0%)	1 (1.3%)	1 (0.6%)
[k, s]	0 (0%)	1 (1.3%)	1 (0.6%)
[y, s]	0 (0%)	1 (1.3%)	1 (0.6%)
stem.color			
[e, n]	2 (2.1%)	1 (1.3%)	3 (1.7%)
[e, u, y]	1 (1.0%)	0 (0%)	1 (0.6%)
[e]	1 (1.0%)	0 (0%)	1 (0.6%)
[f]	3 (3.1%)	0 (0%)	3 (1.7%)
[g, n]	3 (3.1%)	1 (1.3%)	4 (2.3%)
[g, r, n]	2 (2.1%)	0 (0%)	2 (1.2%)
[g, u, n]	1 (1.0%)	0 (0%)	1 (0.6%)
[k, n]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[k]	1 (1.0%)	0 (0%)	1 (0.6%)
[n, e]	2 (2.1%)	0 (0%)	2 (1.2%)
[n, g]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[n, o]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[n, p]	1 (1.0%)	0 (0%)	1 (0.6%)
[n, w]	1 (1.0%)	2 (2.6%)	3 (1.7%)
[n, y]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[n]	20 (20.8%)	15 (19.5%)	35 (20.2%)
[o, y]	4 (4.2%)	1 (1.3%)	5 (2.9%)
[o]	1 (1.0%)	0 (0%)	1 (0.6%)
[p]	2 (2.1%)	0 (0%)	2 (1.2%)
[r, y]	1 (1.0%)	0 (0%)	1 (0.6%)
[u, e]	1 (1.0%)	0 (0%)	1 (0.6%)
[u]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[w, l, n]	1 (1.0%)	0 (0%)	1 (0.6%)
[w, n]	1 (1.0%)	2 (2.6%)	3 (1.7%)
[w, u]	1 (1.0%)	0 (0%)	1 (0.6%)
[w, y]	2 (2.1%)	1 (1.3%)	3 (1.7%)
[w]	25 (26.0%)	32 (41.6%)	57 (32.9%)
[y, e, n]	1 (1.0%)	0 (0%)	1 (0.6%)

	Poisonous	Edible	Overall
[y, n]	4 (4.2%)	0 (0%)	4 (2.3%)
[y, o, k]	1 (1.0%)	0 (0%)	1 (0.6%)
[y]	8 (8.3%)	5 (6.5%)	13 (7.5%)
[b, u]	0 (0%)	1 (1.3%)	1 (0.6%)
[e, y]	0 (0%)	1 (1.3%)	1 (0.6%)
[g, w]	0 (0%)	1 (1.3%)	1 (0.6%)
[g, w]	0 (0%)	2 (2.6%)	2 (1.2%)
[g]	0 (0%)	2 (2.6%)	2 (1.2%)
[l, r, w]	0 (0%)	1 (1.3%)	1 (0.6%)
[n, p, w]	0 (0%)	1 (1.3%)	1 (0.6%)
[o, e]	0 (0%)	1 (1.3%)	1 (0.6%)
[o, n]	0 (0%)	1 (1.3%)	1 (0.6%)
[w, o]	0 (0%)	1 (1.3%)	1 (0.6%)
veil.type			
	90 (93.8%)	74 (96.1%)	164 (94.8%)
[u]	6 (6.3%)	3 (3.9%)	9 (5.2%)
veil.color			
	84 (87.5%)	68 (88.3%)	152 (87.9%)
[e, n]	1 (1.0%)	0 (0%)	1 (0.6%)
[k]	1 (1.0%)	0 (0%)	1 (0.6%)
[n]	1 (1.0%)	0 (0%)	1 (0.6%)
[u]	1 (1.0%)	0 (0%)	1 (0.6%)
[w]	8 (8.3%)	7 (9.1%)	15 (8.7%)
[y, w]	0 (0%)	1 (1.3%)	1 (0.6%)
[y]	0 (0%)	1 (1.3%)	1 (0.6%)
has.ring			
[f]	70 (72.9%)	60 (77.9%)	130 (75.1%)
[t]	26 (27.1%)	17 (22.1%)	43 (24.9%)
ring.type			
	3 (3.1%)	4 (5.2%)	7 (4.0%)
[e, g]	1 (1.0%)	0 (0%)	1 (0.6%)
[e]	3 (3.1%)	3 (3.9%)	6 (3.5%)
[f]	76 (79.2%)	61 (79.2%)	137 (79.2%)
[g, p]	2 (2.1%)	0 (0%)	2 (1.2%)
[l, e]	1 (1.0%)	0 (0%)	1 (0.6%)
[l]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[p]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[r]	2 (2.1%)	1 (1.3%)	3 (1.7%)

	Poisonous	Edible	Overall
[z]	6 (6.3%)	0 (0%)	6 (3.5%)
[g]	0 (0%)	2 (2.6%)	2 (1.2%)
[l, p]	0 (0%)	1 (1.3%)	1 (0.6%)
[l, r]	0 (0%)	2 (2.6%)	2 (1.2%)
[m]	0 (0%)	1 (1.3%)	1 (0.6%)
Spore.print.color			
	83 (86.5%)	72 (93.5%)	155 (89.6%)
[k, r]	1 (1.0%)	0 (0%)	1 (0.6%)
[k, u]	1 (1.0%)	0 (0%)	1 (0.6%)
[k]	4 (4.2%)	1 (1.3%)	5 (2.9%)
[n]	3 (3.1%)	0 (0%)	3 (1.7%)
[p, w]	1 (1.0%)	0 (0%)	1 (0.6%)
[p]	2 (2.1%)	1 (1.3%)	3 (1.7%)
[w]	1 (1.0%)	2 (2.6%)	3 (1.7%)
[g]	0 (0%)	1 (1.3%)	1 (0.6%)
habitat			
[d, h]	3 (3.1%)	1 (1.3%)	4 (2.3%)
[d]	57 (59.4%)	47 (61.0%)	104 (60.1%)
[g, d]	4 (4.2%)	6 (7.8%)	10 (5.8%)
[g, h, d]	2 (2.1%)	1 (1.3%)	3 (1.7%)
[g, l, d]	1 (1.0%)	0 (0%)	1 (0.6%)
[g, m, d]	4 (4.2%)	1 (1.3%)	5 (2.9%)
[g, m]	2 (2.1%)	3 (3.9%)	5 (2.9%)
[g]	10 (10.4%)	1 (1.3%)	11 (6.4%)
[h, d]	2 (2.1%)	0 (0%)	2 (1.2%)
[l, d]	6 (6.3%)	7 (9.1%)	13 (7.5%)
[m, d]	1 (1.0%)	2 (2.6%)	3 (1.7%)
[m, h]	1 (1.0%)	0 (0%)	1 (0.6%)
[m]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[p, d]	2 (2.1%)	0 (0%)	2 (1.2%)
[g, d, h]	0 (0%)	1 (1.3%)	1 (0.6%)
[g, l, m, d]	0 (0%)	1 (1.3%)	1 (0.6%)
[g, u, d]	0 (0%)	1 (1.3%)	1 (0.6%)
[l, d, h]	0 (0%)	1 (1.3%)	1 (0.6%)
[l, h]	0 (0%)	1 (1.3%)	1 (0.6%)
[l]	0 (0%)	1 (1.3%)	1 (0.6%)
[w]	0 (0%)	1 (1.3%)	1 (0.6%)
season			

	Poisonous	Edible	Overall
[a, w]	6 (6.3%)	9 (11.7%)	15 (8.7%)
[a]	11 (11.5%)	5 (6.5%)	16 (9.2%)
[s, u, a, w]	6 (6.3%)	7 (9.1%)	13 (7.5%)
[s, u, a]	4 (4.2%)	1 (1.3%)	5 (2.9%)
[s, u]	1 (1.0%)	2 (2.6%)	3 (1.7%)
[u, a, w]	4 (4.2%)	8 (10.4%)	12 (6.9%)
[u, a]	63 (65.6%)	43 (55.8%)	106 (61.3%)
[u]	1 (1.0%)	0 (0%)	1 (0.6%)
[s, a, w]	0 (0%)	1 (1.3%)	1 (0.6%)
[s]	0 (0%)	1 (1.3%)	1 (0.6%)