統計諮詢

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目錄

I.Variable definition

Variable	Data Type	Definition
family	Character	String of the name of the family of mushroom species
name	Character	String of the name of the mushroom species
class	Factor (Binary)	poisonous=p, edibile=e
cap-diameter	Numerical	float number(s) in cm
cap-shape	Factor	bell=b, conical=c, convex=x, flat=f, sunken=s, spherical=p, others=o
cap-surface	Factor	fibrous=i, grooves=g, scaly=y, smooth=s, shiny=h, leathery=l, silky=k, sticky=t, wrinkled=w, fleshy=e
cap-color	Factor	brown=n, buff=b, gray=g, green=r, pink=p, purple=u, red=e, white=w, yellow=y, blue=l, orange=o, black=k
does-bruise-bleed	Factor (Binary)	bruises-or-bleeding=t, no=f
gill-attachment	Factor	adnate=a, adnexed=x, decurrent=d, free=e, sinuate=s, pores=p, none=f, unknown=?
gill-spacing	Factor	close=c, distant=d, none=f

Variable	Data Type	Definition
gill-color	Factor	see cap-color + none=f
stem-height	Numerical	float number(s) in cm
stem-width	Numerical	float number(s) in mm
stem-root	Factor	bulbous=b, swollen=s, club=c, cup=u, equal=e, rhizomorphs=z, rooted=r
stem-surface	Factor	see cap-surface + none=f
stem-color	Factor	see cap-color + none=f
veil-type	Factor	partial=p, universal=u
veil-color	Factor	see cap-color + none=f
has-ring	Factor (Binary)	ring=t, none=f
ring-type	Factor	cobwebby=c, evanescent=e, flaring=r, grooved=g, large=l, pendant=p, sheathing=s, zone=z, scaly=y, movable=m, none=f, unknown=?
spore-print-color	Factor	see cap-color
habitat	Factor	grasses=g, leaves=l, meadows=m, paths=p, heaths=h, urban=u, waste=w, woods=d
season	Factor	spring=s, summer=u, autumn=a, winter=w

II.Data discription

```r
library(reticulate)
library(Hmisc)
latex(describe(mushroom), file="")
```

mushroom
26 Variables   173 Observations

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family

n	missing	distinct
173	0	23

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

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name

n	missing	distinct
173	0	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

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class

n	missing	distinct
173	0	2

```
Value      poisonous    edible
Frequency         96        77
Proportion     0.555     0.445
```

cap_diameter_min

n	missing	distinct	Info	Mean	pMedian	Gmd	.05	.10	.25	.50	.75	.90	.95
173	0	14	0.976	4.043	3.5	3.038	1	1	2	3	5	7	8

```
Value        0.4   0.5   0.7   1.0   2.0   3.0   4.0   5.0   6.0   7.0   8.0  10.0  12.0  50.0
Frequency      2     4     1    17    39    24    26    29    11     4     9     4     2     1
Proportion 0.012 0.023 0.006 0.098 0.225 0.139 0.150 0.168 0.064 0.023 0.052 0.023 0.012 0.006
```

For the frequency table, variable is rounded to the nearest 0

cap_diameter_max

n	missing	distinct	Info	Mean	pMedian	Gmd	.05	.10	.25	.50	.75	.90	.95
172	1	19	0.991	9.199	8.5	6.147	2	3	5	8	12	15	20

```
Value        1.0   1.3   1.5   2.0   3.0   4.0   5.0   6.0   7.0   8.0   9.0  10.0  12.0  14.0
Frequency      3     1     4     7     6    12    18    16     7    16     3    28    18     3
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

Value       15.0  18.0  20.0  25.0  30.0
Frequency     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 0

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
133	40	40

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

gill_attachment

n	missing	distinct
145	28	8

```
Value      [a, d]   [a]   [d]   [e]   [f]   [p]   [s]   [x]
Frequency       8    32    25    16    10    17    16    21
Proportion  0.055 0.221 0.172 0.110 0.069 0.117 0.110 0.145
```

gill_spacing

n	missing	distinct
102	71	3

```
Value        [c]   [d]   [f]
Frequency     70    22    10
Proportion 0.686 0.216 0.098
```

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_min

n	missing	distinct	Info	Mean	pMedian	Gmd	.05	.10	.25	.50	.75	.90	.95
173	0	12	0.957	4.306	4	2.233	2.0	2.0	3.0	4.0	5.0	6.8	8.0

Value	0	1	2	3	4	5	6	7	8	10	12	15
Frequency	3	2	21	38	52	24	15	3	7	5	1	2
Proportion	0.017	0.012	0.121	0.220	0.301	0.139	0.087	0.017	0.040	0.029	0.006	0.012

For the frequency table, variable is rounded to the nearest 0

stem_height_max

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

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

Value	20	25	30	35
Frequency	4	1	1	1
Proportion	0.024	0.006	0.006	0.006

For the frequency table, variable is rounded to the nearest 0

stem_width_min

n	missing	distinct	Info	Mean	pMedian	Gmd	.05	.10	.25	.50	.75	.90	.95
173	0	16	0.98	8.529	8	6.804	1	2	4	8	10	19	20

Value	0.0	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
Frequency	3	1	9	18	12	12	19	7	1	10	42	1	20	16
Proportion	0.017	0.006	0.052	0.104	0.069	0.069	0.110	0.040	0.006	0.058	0.243	0.006	0.116	0.092

Value	30.0	40.0
Frequency	1	1
Proportion	0.006	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

For the frequency table, variable is rounded to the nearest 0

stem_root

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, s]	[i, t]	[i, y]	[i]	[k, s]	[k]	[s, h]	[s]	[t]
Frequency	3	5	1	1	1	1	11	1	4	1	15	7
Proportion	0.046	0.077	0.015	0.015	0.015	0.015	0.169	0.015	0.062	0.015	0.231	0.108

Value	[y, s]	[y]
Frequency	1	13
Proportion	0.015	0.200

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	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, w]	[y]
Frequency	1	1	1	1	15	1	1
Proportion	0.048	0.048	0.048	0.048	0.714	0.048	0.048

ring_type

n	missing	distinct
166	7	13

Value	[e, g]	[e]	[f]	[g, p]	[g]	[l, e]	[l, p]	[l, r]	[l]	[m]	[p]	[r]
Frequency	1	6	137	2	2	1	1	2	2	1	2	3
Proportion	0.006	0.036	0.825	0.012	0.012	0.006	0.006	0.012	0.012	0.006	0.012	0.018

Value	[z]
Frequency	6
Proportion	0.036

Spore_print_color

n	missing	distinct
18	155	8

Value	[g]	[k, r]	[k, u]	[k]	[n]	[p, w]	[p]	[w]
Frequency	1	1	1	5	3	1	3	3
Proportion	0.056	0.056	0.056	0.278	0.167	0.056	0.167	0.167

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
      173         0         10
```

Value	[a, w]	[a]	[s, a, w]	[s, u, a, w]	[s, u, a]	[s, u]
Frequency	15	16	1	13	5	3
Proportion	0.087	0.092	0.006	0.075	0.029	0.017

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

Variables with all observations missing: `does_bruise_or_bleed`, `has_ring`

III. Table 1

```r
knitr::kable(table1( ~family + name + 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 |class, data = mushroom))
```

	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%)

	poisonous	edible	Overall
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%)
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%)

	poisonous	edible	Overall
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-shell Toadstool	1 (1.0%)	0 (0%)	1 (0.6%)
Egg Yolk Fungus	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%)
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%)

	poisonous	edible	Overall
Olive-brown Panellus	1 (1.0%)	0 (0%)	1 (0.6%)
Orange-red Wax Cap	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%)
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%)
Spruce Milk Cap	1 (1.0%)	0 (0%)	1 (0.6%)

	poisonous	edible	Overall
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-staining Mushroom	1 (1.0%)	0 (0%)	1 (0.6%)
Yellow Wax cap	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%)

	poisonous	edible	Overall
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%)
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%)

	poisonous	edible	Overall
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%)
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%)

	poisonous	edible	Overall
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-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%)
Yellow Swamp Russula	0 (0%)	1 (1.3%)	1 (0.6%)
cap_diameter_min			
Mean (SD)	3.47 (2.27)	4.75 (5.74)	4.04 (4.22)
Median [Min, Max]	3.00 [0.400, 10.0]	4.00 [0.500, 50.0]	3.00 [0.400, 50.0]
cap_diameter_max			
Mean (SD)	8.29 (5.58)	10.3 (5.76)	9.20 (5.73)
Median [Min, Max]	7.00 [1.00, 30.0]	10.0 [1.50, 30.0]	8.00 [1.00, 30.0]
Missing	0 (0%)	1 (1.3%)	1 (0.6%)
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%)

	poisonous	edible	Overall
[c, f]	2 (2.1%)	0 (0%)	2 (1.2%)
[c, x, f]	0 (0%)	1 (1.3%)	1 (0.6%)
[c, x]	0 (0%)	1 (1.3%)	1 (0.6%)
[c]	2 (2.1%)	1 (1.3%)	3 (1.7%)
[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, 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%)
[p, x]	1 (1.0%)	3 (3.9%)	4 (2.3%)
[p]	1 (1.0%)	0 (0%)	1 (0.6%)
[s, o]	0 (0%)	2 (2.6%)	2 (1.2%)
[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%)
Cap_surface			
[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, s]	0 (0%)	1 (1.3%)	1 (0.6%)
[d]	5 (5.2%)	4 (5.2%)	9 (5.2%)

	poisonous	edible	Overall
[e, k, s, h]	1 (1.0%)	0 (0%)	1 (0.6%)
[e, t, k]	1 (1.0%)	0 (0%)	1 (0.6%)
[e, y]	0 (0%)	1 (1.3%)	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, s, h, t]	0 (0%)	1 (1.3%)	1 (0.6%)
[g, s, t]	0 (0%)	1 (1.3%)	1 (0.6%)
[g]	7 (7.3%)	5 (6.5%)	12 (6.9%)
[h, s, d]	0 (0%)	1 (1.3%)	1 (0.6%)
[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%)
[i, y]	0 (0%)	2 (2.6%)	2 (1.2%)
[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, d]	0 (0%)	1 (1.3%)	1 (0.6%)
[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, s]	0 (0%)	1 (1.3%)	1 (0.6%)

	poisonous	edible	Overall
[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, t]	0 (0%)	1 (1.3%)	1 (0.6%)
[w]	3 (3.1%)	2 (2.6%)	5 (2.9%)
[y, s]	0 (0%)	1 (1.3%)	1 (0.6%)
[y]	7 (7.3%)	7 (9.1%)	14 (8.1%)
Missing	21 (21.9%)	19 (24.7%)	40 (23.1%)
cap_color			
[b, p, e, y]	1 (1.0%)	0 (0%)	1 (0.6%)
[b, u]	0 (0%)	1 (1.3%)	1 (0.6%)
[b]	0 (0%)	1 (1.3%)	1 (0.6%)
[e, n, p, w]	1 (1.0%)	0 (0%)	1 (0.6%)
[e, n, y]	0 (0%)	2 (2.6%)	2 (1.2%)
[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%)
[g, u, n, p]	0 (0%)	1 (1.3%)	1 (0.6%)
[g, u, n]	1 (1.0%)	0 (0%)	1 (0.6%)
[g]	1 (1.0%)	0 (0%)	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, k]	1 (1.0%)	0 (0%)	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, 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, g]	0 (0%)	3 (3.9%)	3 (1.7%)
[n, o, e]	0 (0%)	1 (1.3%)	1 (0.6%)
[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, r, u, y]	0 (0%)	1 (1.3%)	1 (0.6%)
[n, w]	3 (3.1%)	1 (1.3%)	4 (2.3%)
[n, y, e]	0 (0%)	1 (1.3%)	1 (0.6%)
[n, y, w]	0 (0%)	1 (1.3%)	1 (0.6%)
[n, y]	6 (6.3%)	3 (3.9%)	9 (5.2%)
[n]	16 (16.7%)	22 (28.6%)	38 (22.0%)
[o, b]	0 (0%)	1 (1.3%)	1 (0.6%)
[o, e, n, k]	1 (1.0%)	0 (0%)	1 (0.6%)
[o, n]	0 (0%)	1 (1.3%)	1 (0.6%)
[o, p, e]	0 (0%)	1 (1.3%)	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%)

	poisonous	edible	Overall
[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, k]	0 (0%)	1 (1.3%)	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, p, o]	0 (0%)	1 (1.3%)	1 (0.6%)
[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%)
does_bruise_or_bleed			
Yes	0 (0%)	0 (0%)	0 (0%)
No	0 (0%)	0 (0%)	0 (0%)
Missing	96 (100%)	77 (100%)	173 (100%)
gill_attachment			
[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%)

	poisonous	edible	Overall
[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%)
Missing	18 (18.8%)	10 (13.0%)	28 (16.2%)
gill_spacing			
[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%)
Missing	40 (41.7%)	31 (40.3%)	71 (41.0%)
gill_color			
[b, p, w]	1 (1.0%)	0 (0%)	1 (0.6%)
[b, u]	0 (0%)	1 (1.3%)	1 (0.6%)
[b]	0 (0%)	1 (1.3%)	1 (0.6%)
[e]	1 (1.0%)	0 (0%)	1 (0.6%)
[f]	6 (6.3%)	4 (5.2%)	10 (5.8%)
[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, p]	0 (0%)	1 (1.3%)	1 (0.6%)
[g, r, w]	1 (1.0%)	0 (0%)	1 (0.6%)
[g, u]	1 (1.0%)	0 (0%)	1 (0.6%)
[g, w, y]	0 (0%)	1 (1.3%)	1 (0.6%)
[g, w]	0 (0%)	2 (2.6%)	2 (1.2%)
[g]	1 (1.0%)	3 (3.9%)	4 (2.3%)
[k, n]	4 (4.2%)	2 (2.6%)	6 (3.5%)
[k, p, w]	0 (0%)	1 (1.3%)	1 (0.6%)

	poisonous	edible	Overall
[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, b]	0 (0%)	1 (1.3%)	1 (0.6%)
[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, n, k]	0 (0%)	1 (1.3%)	1 (0.6%)
[p, n]	0 (0%)	1 (1.3%)	1 (0.6%)
[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%)
[r]	0 (0%)	1 (1.3%)	1 (0.6%)
[u, w]	0 (0%)	1 (1.3%)	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, y]	0 (0%)	1 (1.3%)	1 (0.6%)

	poisonous	edible	Overall
[w, p]	2 (2.1%)	1 (1.3%)	3 (1.7%)
[w, r]	1 (1.0%)	0 (0%)	1 (0.6%)
[w, u, g, n]	0 (0%)	1 (1.3%)	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, e, n]	0 (0%)	1 (1.3%)	1 (0.6%)
[y, g, k]	1 (1.0%)	0 (0%)	1 (0.6%)
[y, k]	0 (0%)	1 (1.3%)	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%)
[y, r]	0 (0%)	1 (1.3%)	1 (0.6%)
[y, w]	1 (1.0%)	0 (0%)	1 (0.6%)
[y]	7 (7.3%)	6 (7.8%)	13 (7.5%)
stem_height_min			
Mean (SD)	4.14 (2.31)	4.52 (2.20)	4.31 (2.26)
Median [Min, Max]	4.00 [0, 15.0]	4.00 [2.00, 15.0]	4.00 [0, 15.0]
stem_height_max			
Mean (SD)	8.57 (3.80)	9.58 (5.03)	9.03 (4.41)
Median [Min, Max]	8.00 [2.00, 20.0]	8.00 [3.00, 35.0]	8.00 [2.00, 35.0]
Missing	3 (3.1%)	0 (0%)	3 (1.7%)
stem_width_min			
Mean (SD)	7.26 (5.71)	10.1 (6.80)	8.53 (6.36)
Median [Min, Max]	5.00 [0, 20.0]	10.0 [1.00, 40.0]	8.00 [0, 40.0]
stem_width_max			
Mean (SD)	14.4 (11.8)	19.2 (15.9)	16.6 (13.9)
Median [Min, Max]	10.0 [1.00, 60.0]	15.0 [2.00, 100]	15.0 [1.00, 100]

	poisonous	edible	Overall
Missing	7 (7.3%)	4 (5.2%)	11 (6.4%)
stem_root			
[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%)
Missing	79 (82.3%)	67 (87.0%)	146 (84.4%)
stem_surface			
[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, t]	0 (0%)	1 (1.3%)	1 (0.6%)
[i, y]	1 (1.0%)	0 (0%)	1 (0.6%)
[i]	7 (7.3%)	4 (5.2%)	11 (6.4%)
[k, s]	0 (0%)	1 (1.3%)	1 (0.6%)
[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, s]	0 (0%)	1 (1.3%)	1 (0.6%)
[y]	9 (9.4%)	4 (5.2%)	13 (7.5%)
Missing	55 (57.3%)	53 (68.8%)	108 (62.4%)
stem_color			
[b, u]	0 (0%)	1 (1.3%)	1 (0.6%)
[e, n]	2 (2.1%)	1 (1.3%)	3 (1.7%)
[e, u, y]	1 (1.0%)	0 (0%)	1 (0.6%)

	poisonous	edible	Overall
[e, y]	0 (0%)	1 (1.3%)	1 (0.6%)
[e]	1 (1.0%)	0 (0%)	1 (0.6%)
[f]	3 (3.1%)	0 (0%)	3 (1.7%)
[g, w]	0 (0%)	1 (1.3%)	1 (0.6%)
[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%)
[g, w]	0 (0%)	2 (2.6%)	2 (1.2%)
[g]	0 (0%)	2 (2.6%)	2 (1.2%)
[k, n]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[k]	1 (1.0%)	0 (0%)	1 (0.6%)
[l, r, w]	0 (0%)	1 (1.3%)	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, w]	0 (0%)	1 (1.3%)	1 (0.6%)
[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, e]	0 (0%)	1 (1.3%)	1 (0.6%)
[o, n]	0 (0%)	1 (1.3%)	1 (0.6%)
[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%)

	poisonous	edible	Overall
[w, l, n]	1 (1.0%)	0 (0%)	1 (0.6%)
[w, n]	1 (1.0%)	2 (2.6%)	3 (1.7%)
[w, o]	0 (0%)	1 (1.3%)	1 (0.6%)
[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%)
[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%)
veil_type			
[u]	6 (6.3%)	3 (3.9%)	9 (5.2%)
Missing	90 (93.8%)	74 (96.1%)	164 (94.8%)
veil_color			
[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%)
Missing	84 (87.5%)	68 (88.3%)	152 (87.9%)
has_ring			
Yes	0 (0%)	0 (0%)	0 (0%)
No	0 (0%)	0 (0%)	0 (0%)
Missing	96 (100%)	77 (100%)	173 (100%)
ring_type			
[e, g]	1 (1.0%)	0 (0%)	1 (0.6%)

	poisonous	edible	Overall
[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%)
[g]	0 (0%)	2 (2.6%)	2 (1.2%)
[l, e]	1 (1.0%)	0 (0%)	1 (0.6%)
[l, p]	0 (0%)	1 (1.3%)	1 (0.6%)
[l, r]	0 (0%)	2 (2.6%)	2 (1.2%)
[l]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[m]	0 (0%)	1 (1.3%)	1 (0.6%)
[p]	1 (1.0%)	1 (1.3%)	2 (1.2%)
[r]	2 (2.1%)	1 (1.3%)	3 (1.7%)
[z]	6 (6.3%)	0 (0%)	6 (3.5%)
Missing	3 (3.1%)	4 (5.2%)	7 (4.0%)
Spore_print_color			
[g]	0 (0%)	1 (1.3%)	1 (0.6%)
[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%)
Missing	83 (86.5%)	72 (93.5%)	155 (89.6%)
habitat			
[d, h]	3 (3.1%)	1 (1.3%)	4 (2.3%)
[d]	57 (59.4%)	47 (61.0%)	104 (60.1%)
[g, d, h]	0 (0%)	1 (1.3%)	1 (0.6%)
[g, d]	4 (4.2%)	6 (7.8%)	10 (5.8%)

	poisonous	edible	Overall
[g, h, d]	2 (2.1%)	1 (1.3%)	3 (1.7%)
[g, l, d]	1 (1.0%)	0 (0%)	1 (0.6%)
[g, l, m, d]	0 (0%)	1 (1.3%)	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, u, d]	0 (0%)	1 (1.3%)	1 (0.6%)
[g]	10 (10.4%)	1 (1.3%)	11 (6.4%)
[h, d]	2 (2.1%)	0 (0%)	2 (1.2%)
[l, d, h]	0 (0%)	1 (1.3%)	1 (0.6%)
[l, d]	6 (6.3%)	7 (9.1%)	13 (7.5%)
[l, h]	0 (0%)	1 (1.3%)	1 (0.6%)
[l]	0 (0%)	1 (1.3%)	1 (0.6%)
[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%)
[w]	0 (0%)	1 (1.3%)	1 (0.6%)
season			
[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%)