R Track Week 3 Assignment

Kumudini Bhave

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# **Mushroom Data Study**

## Summary

This is an R Markdown document for providing documentation for performing **Data Transformation on the Mushroom DataSet**

Attempted to study data that comprises of **Edible** as well as **Poisonous** mushrooms. Hence observations selected comprise of mushrooms that grow in **Grasses** or **Meadows** Habitat and mushrooms that have an odor which is either like **Almond** or **Pungent**.

Following attributes are extracted and mapped to the explicit values for the observations selected as above, from the **Mushroom Dataset**:

* **Class :**
  + *e: Edible*
  + *p: Poisonous*
* **Cap Shape :**
  + *b: Bell*
  + *c: Conical*
  + *x: Convex*
  + *f: Flat*
  + *k: Knobbed*
  + *s: Sunken*
* **Cap Surface :**
  + *f: Fibrous*
  + *g: Grooves*
  + *y: Scaly*
  + *s: Smooth*
* **Cap Color :**
  + *n: Brown*
  + *b: Buff*
  + *c: Cinnamon*
  + *g: Gray*
  + *r: Green*
  + *p: Pink*
  + *u: Purple*
  + *e: Red*
  + *w: White*
  + *y: Yellow*
* **Odor :**
  + *a: Almond*
  + *p: Pungent*
* **Stalk Shape :**
  + *e: Enlarging*
  + *t: Tapering*
* **Stalk Root :**
  + *b: Bulbous*
  + *c: Club*
  + *u: Cup*
  + *e: Equal*
  + *z: Rhizomorphs*
  + *r: Rooted*
  + *?: Missing*
* **Spore Color :**
  + *k: Black*
  + *n: Brown*
  + *b: Buff*
  + *h: Chocolate*
  + *r: Green*
  + *o: Orange*
  + *u: Purple*
  + *w: White*
  + *y: Yellow*
* **Population :**
  + *a: Abundant*
  + *c: Clustered*
  + *n: Numerous*
  + *s: Scattered*
  + *v: Several*
  + *y: Solitary*
* **Habitat :**
  + *g: Grass*
  + *m: Meadows*

## R Code For Data Transformation Of Mushroom Dataset

### Extracting Raw Data From GitHub Data File And Reading In CSV Format

# Loading RCurl package to help scrape data from web (stored on GitHub).  
library(RCurl)  
  
# Loading plyr package to help map abbreviated values to explained.  
library(plyr)  
  
data.giturl <- "https://raw.githubusercontent.com/DataDriven-MSDA/RProgramming/master/agaricus-lepiota.data"  
mushroom.gitdata <- getURL(data.giturl)  
mushroom.gitdata.csv <- read.csv(text=mushroom.gitdata, header=F, sep=",",stringsAsFactors = FALSE)

### Extracting Select Attributes For Mushroom Study

# Attempt to study data that comprises of edible as well as poisonous mushrooms.  
# Hence observations selected comprise of mushroom habitat in grasses or meadows   
# and mushroom odor either almond like or pungent  
  
mushroom.datastudy <- subset(mushroom.gitdata.csv,(V23=="g" | V23 == "m") & (V6 == "a" | V6 == "p"),select=c(V1,V2,V3,V4,V6,V11,V12,V21,V22,V23))  
  
# Verifying the number of attributes  
length(mushroom.datastudy)  
# Verifying the number of observations selected  
nrow(mushroom.datastudy)

### Renaming Selected Attributes

# Naming the Attributes selected for study  
colnames(mushroom.datastudy) <- c("Class","CapShape","CapSurface","CapColor","Odor","StalkShape","StalkRoot","SporeColor","Population","Habitat")

### Mapping Abbreviated Values For Selected Attributes

# Mapping the attributes from abbreviated to explanatory

##### Class

mushroom.datastudy$Class[mushroom.datastudy$Class == "e"] <- "Edible"  
mushroom.datastudy$Class[mushroom.datastudy$Class == "p"] <- "Poisonous"  
  
## Can also be mapped as follows for larger set of values for an attribute  
mushroom.datastudy$Class <- mapvalues(mushroom.datastudy$Class, from = c("e", "p"), to = c("Edible", "Poisonous"))

##### Cap Shape

mushroom.datastudy$CapShape <- mapvalues(mushroom.datastudy$CapShape, from = c("b", "c", "x", "f", "k", "s"), to = c("Bell", "Conical", "Convex", "Flat", "Knobbed", "Sunken"))

##### Cap Surface

mushroom.datastudy$CapSurface <- mapvalues(mushroom.datastudy$CapSurface, from = c("f", "g", "y", "s"), to = c("Fibrous", "Grooves", "Scaly", "Smooth"))

##### Cap Color

mushroom.datastudy$CapColor <- mapvalues(mushroom.datastudy$CapColor, from = c("n", "b", "c", "g", "r", "p", "u", "e", "w", "y"), to = c("Brown", "Buff", "Cinnamon", "Gray", "Green",   
 "Pink", "Purple", "Red", "White", "Yellow"))

##### Odor

mushroom.datastudy$Odor <- mapvalues(mushroom.datastudy$Odor, from = c("a", "p"), to = c("Almond", "Pungent"))

##### Stalk Shape

mushroom.datastudy$StalkShape <- mapvalues(mushroom.datastudy$StalkShape, from = c("e", "t"), to = c("Enlarging", "Tapering"))

##### Stalk Root

# There are missing values for this attribute denoted by ?, These are replaced with 'NA'  
  
mushroom.datastudy$StalkRoot <- mapvalues(mushroom.datastudy$StalkRoot, from = c("b", "c", "u", "e", "z", "r", "?"), to = c("Bulbous", "Club", "Cup", "Equal", "Rhizomorphs", "Rooted",   
 "NA"))

##### Spore Color

mushroom.datastudy$SporeColor <- mapvalues(mushroom.datastudy$SporeColor, from = c("k", "n", "b", "h", "r", "o", "u", "w", "y"), to = c("Black", "Brown", "Buff", "Chocolate", "Green",   
 "Orange", "Purple", "White", "Yellow"))

##### Population

mushroom.datastudy$Population <- mapvalues(mushroom.datastudy$Population, from = c("a", "c", "n", "s", "v", "y"), to = c("Abundant", "Clustered", "Numerous", "Scattered", "Several",   
 "Solitary"))

##### Habitat

mushroom.datastudy$Habitat <- mapvalues(mushroom.datastudy$Habitat, from = c("g", "m"), to = c("Grass", "Meadows"))

### Listing The Observations For Study

cat("Total observations to study for selected criteria and attributes: ", nrow(mushroom.datastudy))

Total observations to study for selected criteria and attributes: 432

knitr::kable(mushroom.datastudy)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Class | CapShape | CapSurface | CapColor | Odor | StalkShape | StalkRoot | SporeColor | Population | Habitat |
| 2 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 6 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Black | Numerous | Grass |
| 7 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 9 | Poisonous | Convex | Scaly | White | Pungent | Enlarging | Equal | Black | Several | Grass |
| 10 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 12 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 13 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 18 | Poisonous | Convex | Smooth | Brown | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 21 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 22 | Poisonous | Convex | Scaly | Brown | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 24 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 26 | Poisonous | Flat | Smooth | White | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 27 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 41 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 44 | Poisonous | Convex | Scaly | White | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 45 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 46 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 51 | Edible | Convex | Scaly | Brown | Almond | Enlarging | Rooted | Black | Scattered | Grass |
| 56 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 58 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 62 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 68 | Edible | Flat | Scaly | Yellow | Almond | Enlarging | Rooted | Brown | Scattered | Grass |
| 69 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Black | Numerous | Grass |
| 75 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Black | Scattered | Grass |
| 80 | Edible | Flat | Scaly | Brown | Almond | Enlarging | Rooted | Brown | Solitary | Grass |
| 82 | Poisonous | Convex | Scaly | White | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 87 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Black | Scattered | Grass |
| 93 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Black | Scattered | Grass |
| 96 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 98 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Black | Numerous | Grass |
| 99 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 100 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Black | Scattered | Grass |
| 106 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 107 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Rooted | Brown | Solitary | Grass |
| 109 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 110 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 114 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 121 | Poisonous | Convex | Smooth | White | Pungent | Enlarging | Equal | Black | Several | Grass |
| 122 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 123 | Poisonous | Flat | Scaly | Brown | Pungent | Enlarging | Equal | Black | Several | Grass |
| 127 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 138 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 139 | Poisonous | Convex | Smooth | Brown | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 145 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Black | Numerous | Grass |
| 150 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 151 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 157 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 158 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 159 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 160 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Black | Scattered | Grass |
| 162 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Black | Numerous | Grass |
| 165 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 167 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 168 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 170 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Black | Scattered | Grass |
| 174 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Black | Scattered | Grass |
| 177 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 178 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 184 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 186 | Poisonous | Convex | Scaly | White | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 195 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 197 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Black | Scattered | Grass |
| 203 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Black | Numerous | Grass |
| 207 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 208 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 210 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Black | Numerous | Grass |
| 211 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Black | Scattered | Grass |
| 215 | Edible | Flat | Scaly | Yellow | Almond | Enlarging | Rooted | Brown | Scattered | Grass |
| 217 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Black | Scattered | Grass |
| 218 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Black | Scattered | Grass |
| 221 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 222 | Poisonous | Convex | Smooth | White | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 223 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Rooted | Brown | Scattered | Grass |
| 227 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 228 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 230 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 243 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 248 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 251 | Edible | Flat | Scaly | Yellow | Almond | Enlarging | Rooted | Brown | Solitary | Grass |
| 252 | Poisonous | Convex | Smooth | Brown | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 258 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 260 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 262 | Poisonous | Convex | Scaly | White | Pungent | Enlarging | Equal | Black | Several | Grass |
| 263 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 264 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 268 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 269 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 274 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 277 | Edible | Flat | Scaly | Brown | Almond | Enlarging | Rooted | Brown | Solitary | Grass |
| 278 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 281 | Poisonous | Convex | Scaly | White | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 282 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 286 | Edible | Flat | Scaly | Brown | Almond | Enlarging | Rooted | Black | Scattered | Grass |
| 287 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 288 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Black | Scattered | Grass |
| 295 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 296 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 297 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 300 | Poisonous | Convex | Scaly | White | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 302 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Black | Scattered | Grass |
| 304 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Black | Scattered | Grass |
| 309 | Edible | Flat | Scaly | Brown | Almond | Enlarging | Rooted | Black | Solitary | Grass |
| 312 | Poisonous | Convex | Scaly | White | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 315 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 318 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 323 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Black | Scattered | Grass |
| 324 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 327 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 330 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Black | Numerous | Grass |
| 334 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Black | Scattered | Grass |
| 337 | Edible | Convex | Scaly | Brown | Almond | Enlarging | Rooted | Black | Solitary | Grass |
| 341 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 342 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Black | Numerous | Grass |
| 343 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 348 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 353 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 354 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 360 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 365 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Black | Numerous | Grass |
| 369 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 371 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Rooted | Brown | Scattered | Grass |
| 373 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 375 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 380 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 383 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 384 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 390 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 391 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 393 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 395 | Edible | Flat | Scaly | Brown | Almond | Enlarging | Rooted | Black | Scattered | Grass |
| 402 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 408 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 409 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Black | Scattered | Grass |
| 411 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 415 | Poisonous | Convex | Scaly | Brown | Pungent | Enlarging | Equal | Black | Several | Grass |
| 416 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 422 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 428 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 431 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 436 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 457 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 461 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 463 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Black | Scattered | Grass |
| 464 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 466 | Edible | Flat | Scaly | Brown | Almond | Enlarging | Rooted | Brown | Solitary | Grass |
| 467 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 472 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 478 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 481 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 486 | Edible | Flat | Scaly | Yellow | Almond | Enlarging | Rooted | Black | Solitary | Grass |
| 492 | Poisonous | Flat | Smooth | Brown | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 495 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Rooted | Black | Scattered | Grass |
| 496 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 498 | Edible | Flat | Scaly | Brown | Almond | Enlarging | Rooted | Brown | Scattered | Grass |
| 499 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 501 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 502 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Black | Numerous | Grass |
| 504 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 505 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 506 | Poisonous | Convex | Smooth | Brown | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 512 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Black | Scattered | Grass |
| 518 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Black | Numerous | Grass |
| 520 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 528 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 532 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Black | Scattered | Grass |
| 533 | Poisonous | Convex | Scaly | White | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 535 | Poisonous | Flat | Smooth | Brown | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 537 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 541 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 543 | Poisonous | Convex | Scaly | White | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 544 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Rooted | Black | Scattered | Grass |
| 546 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 550 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 560 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 561 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 565 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 566 | Poisonous | Convex | Scaly | White | Pungent | Enlarging | Equal | Black | Several | Grass |
| 567 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 569 | Poisonous | Convex | Smooth | Brown | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 570 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 571 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 573 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Black | Numerous | Grass |
| 575 | Edible | Convex | Scaly | Brown | Almond | Enlarging | Rooted | Brown | Solitary | Grass |
| 580 | Poisonous | Convex | Smooth | Brown | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 581 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 582 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 584 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Rooted | Brown | Solitary | Grass |
| 585 | Edible | Flat | Scaly | Yellow | Almond | Enlarging | Rooted | Black | Scattered | Grass |
| 586 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 590 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 594 | Poisonous | Convex | Scaly | White | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 595 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 599 | Poisonous | Convex | Scaly | White | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 606 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Black | Numerous | Grass |
| 608 | Edible | Flat | Scaly | Brown | Almond | Enlarging | Rooted | Black | Solitary | Grass |
| 619 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 629 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 630 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Black | Numerous | Grass |
| 632 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 635 | Edible | Convex | Scaly | Brown | Almond | Enlarging | Rooted | Brown | Scattered | Grass |
| 636 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 637 | Edible | Flat | Scaly | Yellow | Almond | Enlarging | Rooted | Black | Scattered | Grass |
| 640 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 642 | Edible | Convex | Scaly | Brown | Almond | Enlarging | Rooted | Brown | Solitary | Grass |
| 644 | Edible | Flat | Scaly | Brown | Almond | Enlarging | Rooted | Black | Solitary | Grass |
| 647 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 649 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Black | Scattered | Grass |
| 651 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Black | Scattered | Grass |
| 653 | Edible | Flat | Scaly | Yellow | Almond | Enlarging | Rooted | Black | Solitary | Grass |
| 654 | Poisonous | Convex | Scaly | Brown | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 658 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Black | Numerous | Grass |
| 661 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Black | Scattered | Grass |
| 663 | Poisonous | Convex | Scaly | Brown | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 664 | Poisonous | Convex | Smooth | Brown | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 666 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 667 | Edible | Flat | Scaly | Brown | Almond | Enlarging | Rooted | Brown | Scattered | Grass |
| 670 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 671 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Black | Scattered | Grass |
| 680 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 682 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 684 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Black | Numerous | Grass |
| 686 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 688 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 690 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Black | Scattered | Grass |
| 691 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Black | Scattered | Grass |
| 695 | Poisonous | Convex | Scaly | Brown | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 696 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 697 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 698 | Poisonous | Convex | Scaly | Brown | Pungent | Enlarging | Equal | Black | Several | Grass |
| 701 | Poisonous | Convex | Smooth | Brown | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 709 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 710 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 716 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 719 | Edible | Convex | Scaly | Brown | Almond | Enlarging | Rooted | Brown | Scattered | Grass |
| 721 | Edible | Flat | Scaly | Brown | Almond | Enlarging | Rooted | Brown | Scattered | Grass |
| 722 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Black | Numerous | Grass |
| 725 | Edible | Flat | Scaly | Yellow | Almond | Enlarging | Rooted | Black | Scattered | Grass |
| 726 | Poisonous | Convex | Scaly | Brown | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 729 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 733 | Poisonous | Convex | Smooth | White | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 736 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 742 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 743 | Edible | Convex | Scaly | Brown | Almond | Enlarging | Rooted | Black | Scattered | Grass |
| 744 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 748 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 755 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 756 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Black | Numerous | Grass |
| 759 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 769 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 770 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 771 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 773 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 776 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Rooted | Brown | Scattered | Grass |
| 778 | Edible | Convex | Scaly | Brown | Almond | Enlarging | Rooted | Brown | Solitary | Grass |
| 781 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 785 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Black | Numerous | Grass |
| 786 | Poisonous | Convex | Smooth | Brown | Pungent | Enlarging | Equal | Black | Several | Grass |
| 789 | Poisonous | Convex | Scaly | Brown | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 793 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Black | Numerous | Grass |
| 794 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 795 | Poisonous | Convex | Scaly | Brown | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 799 | Poisonous | Convex | Smooth | White | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 801 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 802 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 805 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 807 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Black | Scattered | Grass |
| 808 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Rooted | Black | Solitary | Grass |
| 811 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 812 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 814 | Poisonous | Convex | Scaly | White | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 816 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 817 | Edible | Convex | Scaly | Brown | Almond | Enlarging | Rooted | Black | Solitary | Grass |
| 818 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Rooted | Black | Solitary | Grass |
| 823 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 836 | Poisonous | Convex | Smooth | Brown | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 839 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Black | Scattered | Grass |
| 840 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Black | Scattered | Grass |
| 842 | Poisonous | Convex | Scaly | Brown | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 843 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 845 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Black | Numerous | Grass |
| 847 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 852 | Edible | Flat | Scaly | Brown | Almond | Enlarging | Rooted | Black | Scattered | Grass |
| 858 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 859 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 860 | Poisonous | Convex | Smooth | Brown | Pungent | Enlarging | Equal | Black | Several | Grass |
| 862 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 863 | Edible | Flat | Scaly | Yellow | Almond | Enlarging | Rooted | Brown | Scattered | Grass |
| 864 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 865 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 873 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 875 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 877 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 883 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Black | Numerous | Grass |
| 887 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 888 | Edible | Flat | Scaly | Yellow | Almond | Enlarging | Rooted | Brown | Solitary | Grass |
| 893 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Black | Numerous | Grass |
| 894 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 897 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Black | Numerous | Grass |
| 907 | Poisonous | Flat | Smooth | Brown | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 910 | Poisonous | Convex | Smooth | Brown | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 916 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 930 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 933 | Poisonous | Flat | Smooth | Brown | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 937 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 941 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 943 | Poisonous | Convex | Smooth | White | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 967 | Poisonous | Flat | Smooth | Brown | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 1004 | Poisonous | Convex | Smooth | White | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1011 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 1019 | Poisonous | Flat | Smooth | Brown | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1022 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 1023 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Black | Numerous | Grass |
| 1024 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 1026 | Poisonous | Flat | Scaly | White | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1032 | Poisonous | Convex | Scaly | Brown | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1037 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 1046 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 1067 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Black | Scattered | Grass |
| 1072 | Poisonous | Flat | Scaly | White | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 1073 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 1078 | Poisonous | Flat | Scaly | White | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 1089 | Poisonous | Flat | Scaly | Brown | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1092 | Edible | Convex | Scaly | Brown | Almond | Enlarging | Rooted | Black | Solitary | Grass |
| 1100 | Poisonous | Convex | Scaly | Brown | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1104 | Poisonous | Convex | Scaly | Brown | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1112 | Poisonous | Flat | Smooth | White | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 1113 | Edible | Convex | Scaly | Brown | Almond | Enlarging | Rooted | Brown | Scattered | Grass |
| 1128 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 1133 | Poisonous | Convex | Smooth | Brown | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 1135 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Black | Numerous | Grass |
| 1153 | Poisonous | Convex | Scaly | White | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 1155 | Poisonous | Convex | Scaly | White | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1156 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 1161 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 1166 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 1167 | Poisonous | Convex | Smooth | Brown | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1170 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 1184 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Black | Numerous | Grass |
| 1185 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Black | Scattered | Grass |
| 1195 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Black | Numerous | Grass |
| 1196 | Poisonous | Convex | Smooth | Brown | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 1198 | Edible | Bell | Scaly | White | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 1202 | Edible | Convex | Smooth | Yellow | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 1203 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Black | Numerous | Grass |
| 1205 | Poisonous | Flat | Smooth | White | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1213 | Edible | Flat | Scaly | Yellow | Almond | Enlarging | Rooted | Black | Solitary | Grass |
| 1216 | Poisonous | Flat | Smooth | Brown | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 1221 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Rooted | Black | Scattered | Grass |
| 1229 | Poisonous | Convex | Smooth | White | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 1232 | Poisonous | Flat | Scaly | White | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1243 | Poisonous | Convex | Smooth | White | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 1254 | Poisonous | Flat | Scaly | White | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 1255 | Poisonous | Flat | Scaly | Brown | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1257 | Poisonous | Flat | Smooth | Brown | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1260 | Poisonous | Flat | Smooth | Brown | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1261 | Poisonous | Flat | Scaly | White | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1262 | Poisonous | Flat | Scaly | Brown | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1263 | Poisonous | Flat | Smooth | White | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 1273 | Poisonous | Flat | Smooth | White | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1281 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 1294 | Poisonous | Flat | Smooth | White | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 1295 | Poisonous | Flat | Smooth | White | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1313 | Poisonous | Flat | Smooth | White | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1322 | Poisonous | Convex | Smooth | White | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1333 | Poisonous | Flat | Smooth | Brown | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1339 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Brown | Numerous | Grass |
| 1347 | Poisonous | Flat | Scaly | Brown | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 1375 | Poisonous | Convex | Scaly | Brown | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 1376 | Poisonous | Flat | Smooth | Brown | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1379 | Poisonous | Flat | Scaly | Brown | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 1400 | Poisonous | Flat | Scaly | White | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1402 | Edible | Flat | Scaly | Yellow | Almond | Enlarging | Rooted | Brown | Solitary | Grass |
| 1433 | Poisonous | Flat | Scaly | White | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 1438 | Poisonous | Flat | Scaly | White | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 1446 | Poisonous | Flat | Scaly | White | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1454 | Poisonous | Flat | Scaly | Brown | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 1479 | Poisonous | Flat | Scaly | White | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 1490 | Poisonous | Flat | Scaly | Brown | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1502 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 1514 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 1519 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Black | Scattered | Grass |
| 1529 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 1536 | Poisonous | Convex | Smooth | White | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1541 | Poisonous | Flat | Scaly | White | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 1549 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Rooted | Black | Solitary | Grass |
| 1558 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Black | Numerous | Grass |
| 1567 | Poisonous | Flat | Scaly | Brown | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 1578 | Poisonous | Convex | Scaly | Brown | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1580 | Poisonous | Flat | Scaly | Brown | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 1615 | Poisonous | Flat | Smooth | Brown | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 1630 | Poisonous | Flat | Smooth | White | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1637 | Poisonous | Flat | Smooth | White | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 1638 | Poisonous | Flat | Smooth | White | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1663 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Black | Numerous | Grass |
| 1666 | Poisonous | Convex | Scaly | Brown | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 1684 | Poisonous | Flat | Scaly | White | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1704 | Poisonous | Flat | Scaly | Brown | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 1725 | Edible | Bell | Scaly | Yellow | Almond | Enlarging | Club | Brown | Numerous | Meadows |
| 1726 | Poisonous | Flat | Scaly | White | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1729 | Edible | Convex | Scaly | Brown | Almond | Enlarging | Rooted | Black | Scattered | Grass |
| 1735 | Poisonous | Flat | Smooth | Brown | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1746 | Poisonous | Flat | Smooth | White | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1755 | Poisonous | Flat | Scaly | Brown | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1770 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Rooted | Brown | Solitary | Grass |
| 1774 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 1784 | Poisonous | Flat | Smooth | White | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 1785 | Edible | Bell | Smooth | Yellow | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 1796 | Poisonous | Flat | Scaly | Brown | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1811 | Poisonous | Flat | Smooth | Brown | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1813 | Poisonous | Convex | Smooth | Brown | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1814 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 1816 | Edible | Convex | Scaly | Yellow | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 1859 | Poisonous | Flat | Smooth | White | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 1888 | Poisonous | Flat | Scaly | White | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 1932 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Brown | Scattered | Grass |
| 1956 | Poisonous | Convex | Smooth | White | Pungent | Enlarging | Equal | Black | Several | Grass |
| 1960 | Poisonous | Flat | Scaly | Brown | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1976 | Poisonous | Flat | Scaly | White | Pungent | Enlarging | Equal | Brown | Scattered | Grass |
| 1991 | Poisonous | Flat | Scaly | Brown | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 2007 | Poisonous | Flat | Smooth | Brown | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 2010 | Poisonous | Flat | Smooth | Brown | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 2052 | Edible | Convex | Scaly | White | Almond | Enlarging | Club | Black | Scattered | Meadows |
| 2060 | Edible | Convex | Smooth | White | Almond | Enlarging | Club | Black | Numerous | Meadows |
| 2062 | Poisonous | Flat | Scaly | Brown | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 2093 | Edible | Bell | Smooth | White | Almond | Enlarging | Club | Brown | Scattered | Meadows |
| 2099 | Poisonous | Convex | Smooth | White | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 2113 | Poisonous | Convex | Smooth | White | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 2130 | Poisonous | Flat | Smooth | White | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 2150 | Poisonous | Convex | Smooth | White | Pungent | Enlarging | Equal | Black | Scattered | Grass |
| 2242 | Poisonous | Flat | Smooth | White | Pungent | Enlarging | Equal | Black | Several | Grass |
| 2389 | Poisonous | Convex | Smooth | White | Pungent | Enlarging | Equal | Brown | Several | Grass |
| 2401 | Poisonous | Convex | Smooth | White | Pungent | Enlarging | Equal | Black | Several | Grass |