Important Features to Observe in the Field

This handout is provided as a pdf file so that you can print it out and use it in the field until you become more familiar with what is important to observe about wild mushrooms.

As you begin to learn about mushrooms, one of the things you will want to do is go outside where you can observe how and where they grow: in the woods, in some parks, and even in your own yard. If possible, join a local mushroom club so that you can go on forays with more experienced people who will help you ID your mushrooms. Then take them home and use this handout to observe their features, if you didn't already do this while in the field.

Most of the features used in this handout are easy to understand, but there are some that might be unfamiliar to you. I have tried to use words that are self-describing or defined the word in the handout. An example is the use of "Surface Ornamentation" of the cap where I list many descriptions of what this phase means, such as the cap is smooth, cracked, wrinkled, has warts, etc. Another one is "Latex Present?" This is the liquid that appears when you cut or injure the gills of some mushrooms, especially in the genus *Lactarius*. There can be different colors that appear and they can even change to another color in time, some quickly and some more slowly.

Learn the parts of a mushroom that are provided on this website. This will make words such as "partial or universal veil" more understandable, or what is a "volva or a ring?" I have provided pictures on parts of a mushroom, gill attachments, and the many cap shapes. You can also learn how to make a spore print. This is one of the most important features needed to correctly ID many mushrooms.

The "Spore-bearing Surface" is usually where the gills, teeth, ridges, or pores are located on some mushrooms, but there are also mushrooms that have their spores develop elsewhere. As you continue to use this website you will become more and more familiar with the terms used. The flash cards are a beginning to understanding the description of mushrooms. As this site develops there will be even more information for you to explore.

Important Features to Observe in the Field

Elevation:	_		Date:	
Topography: ridge upper slope	mid slope lower slope	e valley low place	roadside trailside	other
General Habitat: dominant trees	:	shrubs:	herbs	wood debris:
Age of Mushroom: immature	nature old mixed age	s Sp	oecies:	
Cap Characteristics of Gille	ed Mushrooms			
Width of Cap:	Surface Texture: dry	y greasy sticky sl	imy waxy other	
Color of Cap when Young:	Color of Cap when N	/lature:		
Cap Shape: rounded flat irreg	gular centrally depresse	d cone-shaped nav	vel-shaped funnel-sha	aped central bump
bell-shaped other				
Margin Shape: even irregular	uplifted curved backw	ards curved upwards	rolled inwards wa	vy veil tissue hanging
other				
Cap Has: spots streaks bruisi	ng/staining reactions ch	nanges with age Co	lor of Bruising or Stain	ing:
Surface Ornamentation: smooth	finely hairy cracked	wrinkled scaly gr	anular velvety silky	matted hairs fibers
fibers arranged radially	glittering veil remnants	warty other		
Flesh Consistency: fleshy brittl	e spongy tough bre	eaks like chalk other		-
Hygrophanous: does it change ap	pearance when wet or dry	ving out? N Y Hy	grophanous Location:	margin of cap center of cap
Latex Present: Y N Color of L	atex:	Does Latex Cha	inge Colors? Y N \	What Color?
Veil Characteristics of Gille	ed Mushrooms			
Any Veil or Veil Remnant Present	on Cap: N Y Loc	ation of Veil Remnant	(s):	
Partial Veil Structure Covering Gil	ls: persistent sparse	fibers slimy other		_
Universal Veil: N Y	Universal Veil Struc	cture: thin & pliable	slimy thin cotton	y fibers
Volva Shape: sack-shaped colla	ared sheath-like conce	entric zones or circles		

Gill Characteristics Color of Spore Deposit: white/creamy brown rusty-brown chocolate-brown pink black Attachment to Stalk: free attached notched descends stalk other Gill Edge Shape: even scalloped wavy saw toothed eroded other Number of Short Gills between Complete Gills: Spacing of Gills: crowded close distant Color of Bruising or Staining: **Stalk Characteristics of Gilled Mushrooms** Length of Stalk: **Height of Entire Mushroom:** Stalk Shape: equal in width middle fattest tapered at top tapered at base club-shaped bulbous rooted twisted other **Surface Texture:** viscid sticky dry polished smooth fibers tiny scales/spots Surface Ornamentation: lightly powdered scaly fibers netted coarsely netted smooth other Color of Ornamentation: _____ **Location of the Net-like System, if Present:** top only top of stalk entire stalk other **Stalk Consistency:** rigid & snaps fibrous breaks like chalk Stalk Interior: solid stuffed hollow other Ring Present: N Y Ring Color: **Ring Structure:** thin & pliable fibers cottony-cortina slimy **Ring Type:** single double **General Position of Ring on Stalk:** near the top central near the bottom Color of Bruising or Staining: Miscellaneous **Odor:** mild strong pleasant unpleasant mealy/of flour fragrant other Taste (don't swallow): mild strong bitter pleasant unpleasant peppery/hot sweet other **Habitat Characteristics of Gilled Mushrooms**

Growth Habit: solitary scattered stalks grow close together grow in irregular groups-not joined in rings

Substrate: on Duff: pine cones leaves needles twig litter on Another Fungus: Y N on Wood: conifer hardwood

on Soil: on humus in moss on an Insect: Y N

Non-gilled Mushrooms - General Characteristics

Type: morel elfin saddles cup earthstar puffball bolete tongue crust coral jelly polypore truffle-like veined
Height of Entire Mushroom: Width of Entire Mushroom unless there is a Stalk: Width of Cap, if Present:
Length of Stalk, if Present:
Overall Shape: cup disk cushion rabbit-ear end looks cut off club-like spatula-like saddle-shape stalk-like brain-like pitted other
Cap Characteristics of Non-gilled Mushrooms:
Type of Spore-bearing Surface: spines/teeth pores smooth other Color of Spore-bearing Surface:
Color of Cap when Young: Color of Cap when Mature: Color of Bruising or Staining:
Cap Shape: rounded flat irregular centrally depressed funnel-shaped other
Surface Ornamentation: smooth finely hairy cracked wrinkled granular velvety silky matted hairs fibers
warty other
Surface Texture: dry greasy sticky slimy other
Margin Shape: even irregular curved backwards curved upwards rolled inwards wavy other
Flesh Consistency (in cross section): gelatinous fleshy brittle tough rubbery spongy other
Stalk Characteristics of Non-gilled Mushrooms:
Stalk Shape: equal in width middle fattest tapered at top tapered at base club-shaped bulbous rooted twisted other
Surface Texture: viscid sticky dry polished smooth fibers tiny scales/spots
Surface Ornamentation: glandular dotted lightly powdered scabers scaly fibers netted coarsely netted smooth other
Color of Ornamentation: Color of Bruising or Staining:
Location of the Net-like System, if Present: top only top _ of stalk entire stalk other
Stalk Consistency: rigid & snaps fibrous other: Stalk Interior: solid stuffed hollow other
Miscellaneous:
Odor: mild strong pleasant unpleasant mealy/of flour fragrant other
Taste (don't swallow): mild strong bitter pleasant unpleasant peppery/hot sweet other