



S P O R E - A D D I C T T I M E S

MARCH, 1985 NEWSLETTER

MARCH MEETING will be held at Rastall Center, Colorado College at 7:30 p. m. We will give Noel Damon, of our club, another chance to present the program he planned for last November (we hope he can remember his speech). We are always very pleased to have someone from our club share with us their particular knowledge in a program. This will be conifer tree identification.

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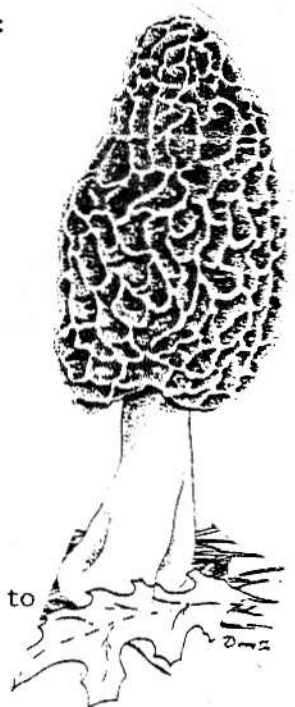
The slate of officers nominated for the coming year are as follows:

President	-	Lee Barzee
Vice President		
(President elect)		Elizabeth Ras
Secretary	-	Frieda Davis
Treasurer	-	Pat Gustavson

We will vote on these officers at the March meeting.

The appointed Committee Chairmen are as follows:

Newsletter	-	Barbara Laura
		Noel Damon
Hospitality	-	Lori Ligon
Refreshments	-	Mary Saleny
Librarian	-	Ralph Gustavson



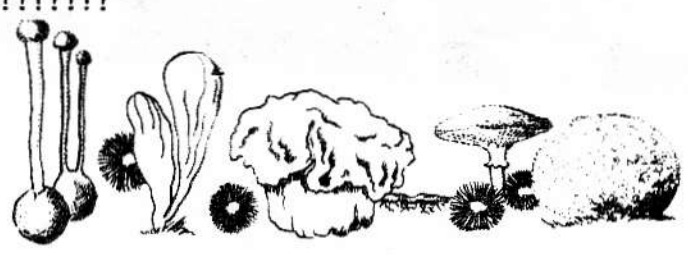
The Board met and made a recommendation that our dues be increased to \$7.00 for single and family membership.

ARTICLE IV - DUES

1. The Board of Directors shall determine the amount of dues for each fiscal year which begins on January 1 and ends on December 31. Any change in dues shall be discussed with and voted upon by the membership.
2. Membership dues are not refundable.
3. A family membership shall be assessed a single fee.

The club needs to make some purchases such as slide projector, etc. to make program planning easier. This will enable us to increase our library for the use of all members. Think about it, and come prepared to vote Monday night.

SEE YOU AT RASTALL!!!!!!!!!!



Mar 25, 1985 PPMs

The following list of fungus associates of ectotrophic mycorrhizae in Colorado was compiled from -

Diseases of Forest and Shade Trees of the United States - USDA, Forest Service Handbook Number 386, and

Fungus Associates of Ectotrophic Mycorrhizae - James M. Trappe - The Botanical Review 28: 538-606.

COTTONWOOD

Lepista nuda

PONDEROSA PINE 6-8000

Amanita muscaria
pantherina
vaginata

Boletus edulis
Laccaria laccata
Cortinarius rutilus
vinicolor

Marasmius oreades
Suillus granulatus
tomentosus
Rhizopogon luteolus

DOUGLAS-FIR 8-10000

Amanita muscaria
pantherina
vaginata

Boletus edulis
zelleri

Cantharellus cibarius
Cortinarius cinnamomeus
Gomphidius glutinosus
subroseus

Hebeloma crustuliniforme
Hydnum repandum
Hygrophorus chrysodon
Laccaria laccata
Lactarius deliciosus
rufus

Lycoperdon perlatum
Paxillus involutus
Pisolithus tinctorius
Rhizopogon rubescens
vinicolor

Russula emetica
foetens
xerampelina

Scleroderma sp.
Suillus granulatus
lakei

ENGELMANN SPRUCE 10-12000

Amanita pantherina
Lactarius deliciosus
Russula emetica

SUBALPINE FIR 5-2000 (with Englemann sp. & Monticola subroseus)

Gomphidius subroseus

ASPEN

Leccinum aurantiacum
scabrum

LODGEPOLE PINE 6-11000

Amanita muscaria
pantherina
vaginata

Gomphidius rutilus
vinicolor

Laccaria laccata
Lactarius deliciosus
Leccinum aurantiacum
Pisolithus tinctorius

Rhizopogon luteolus
Suillus granulatus
tomentosus

Tricholoma flavovirens

TREE KEY FOR ROCKY MOUNTAIN REGION

NEEDLES?

SCALE-LIKE LEAVES?

ORDINARY LEAVES?

2B

2A

3

NEEDLES BUNDLED TOGETHER AT BASE IN CLUMPS OF 2, 3 OR MORE?

IF MORE THAN 5 NEEDLES IN CLUMP
LARCH

3-SIDED NEEDLES?
WESTERN LARCH

4-SIDED NEEDLES?
SUB-ALPINE LARCH

2, 3 OR 5 NEEDLES IN CLUMP
PINE

5 NEEDLES IN CLUMP

NEEDLES ABOUT 1 1/2 INCHES LONG
BRISTLE CONE PINE

OUTERMOST TWIGS THICKER THAN PENCIL

NEEDLES 2-3 INCHES LONG
WHITEBARK PINE

NEEDLES 5-7 INCHES LONG
ARIZONA PINE

OUTERMOST TWIGS THINNER THAN PENCIL

NEEDLES 4-9 INCHES LONG & 2 & 3 NEEDLE CLUMPS
PONDEROSA PINE

CONES HAVE THIN SCALES
WESTERN WHITE PINE

CONE SCALES THICKER & WIDER AT TIP THAN AT BASE
LIMBER PINE

2 NEEDLES IN CLUMP

NEEDLES 1-3 INCHES LONG AND TWISTED-CONES PRICKLY
LODGEPOLE (TAMRAC) PINE

3 NEEDLES PER CLUMP (SOME CLUMPS MAY HAVE 2 ON SAME TWIG)

NEEDLES 1-2 INCHES LONG, NOT TWISTED CONES NO PRICKLES
COLORADO PINYON

NEEDLES 10-15 INCHES LONG AND FRINGED ALONG EDGES
APACHE PINE

NEEDLES 2-4 INCHES LONG
CHIHUAHUA PINE

NEEDLES LESS THAN 2 INCHES LONG
MEXICAN PINYON

needs up date for Colo!

2A

- FLATTENED BRANCHLET ENDS (AS IF TRONED*)
WESTERN RED CEDAR
- SMALL SCALES CONES WOODY, SPHERICAL & OVER 1/2 INCH DIAMETER
ARIZONA CYPRESS
- BRIGHT BLUE BERRY-LIKE FRUITS WHICH USUALLY HAVE MORE THAN ONE SEED
ROCKY MTN. JUNIPER
- BERRIES NOT BRIGHT BLUE OR ONLY ONE SEED, BARK FURROWED IN SQUARE PLATES
ALLIGATOR JUNIPER
- BARK STRINGY, FIBROUS; FOLIAGE GRAY-GREEN, BERRIES ONE SEED
ONE-SEED JUNIPER
- YELLOW GREEN FOLIAGE
UTAH JUNIPER

2B

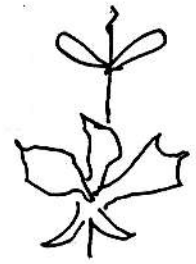
- NEEDLE TWIRLS EASILY BETWEEN THUMB & FINGER
 - NEEDLES SAME WIDTH ALL THE WAY TIP TO BASE
SUBALPINE FIR
IF CORKY
GRAY BARK
CORK BARK FIR
 - NEEDLES ROUNDED
 - NEEDLES OVER 1 INCH LONG, END IN SHARP HARD POINT
SINGLE-LEAF PINYON
 - NEEDLES LESS THAN ONE INCH AND NOT SPINY
MOUNTAIN HEMLOCK
 - NEEDLES "SQUARE" (4-SIDED)
 - NEEDLE TIP HARD, SHARP. HURTS TO SQUEEZE BRANCH
COLORADO BLUE SPRUCE
 - TIPS OF CONE SCALES ARE TOOTHED, NOTCHED OR POINTED
ENGELMANN SPRUCE
 - CONE SCALE TIPS SMOOTH
WHITE SPRUCE
- ← CAN'T TWIRL NEEDLE (FLAT)
 - NEEDLES NARROW TO SMALL "STALK" AT BASE
 - NEEDLES MOSTLY NOTCHED AT TIP
GRAND FIR
 - NEEDLES ROUNDED OR POINTED TIP
 - NEEDLES RIDGED ON TOP AND POINTED
PACIFIC YEW
 - NEEDLES FLAT ON TOP OR GROOVED, TIPS ROUND OR BLUNT
 - NEEDLES ABOUT 1/2 INCH LONG, HAVE SHORT THREAD-LIKE STALK
WESTERN HEMLOCK
 - NEEDLES LONGER THAN 1/2 INCH WITH WHITISH BAND ALONG CENTER OF TOP CONES DON'T DROP WHOLE BREAK UP ON TREE BASE OF NEEDLE LIKE SMALL SUCTION CUP
WHITE FIR
 - NEEDLES LONGER THAN 1/2 INCH, TOP OF NEEDLE HAS SMALL GROOVE INSTEAD OF BAND PULLED OFF NEEDLE HAS BIT OF TWIG BARK CLINGING, DROPPED WHOLE CONES
DOUGLAS FIR

3

ORDINARY LEAVES

SINGLE LEAF (BUD AT BASE)

COMPOUND LEAF (LEAFLET) NO BUD AT BASE OF LEAFLET

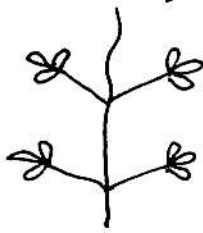


- MAPLE -
ROCKY MOUNTAIN MAPLE
BIG-TOOTH MAPLE



LOBES ON LEAVES
OAKS HAVE ROUND LOBES
POINTED LOBES ON MULBERRY & SYCAMORE

NO LOBES



ASH
BOX ELDER
LOCUST
HOPTREE
WALNUT

STEMS LESS THAN ONE INCH

STEMS LONGER THAN ONE INCH AND FLATTENED

ROUNDED LEAF

ASPEN

TRIANGULAR LEAF

COTTONWOOD