KEY TO THE COMMONER LICHENS ON JASPER RIDGE compiled by Janet Doell

This key is designed to be used in conjunction with the handout <u>An Introduction to the Lichens of Jasper Ridge</u>. This is an informal key and applies only to lichens likely to be seen on the main trails of Jasper Ridge. It won't be very useful in other parts of the Bay Area. I would appreciate hearing whether it works or not, what are the problems with it etc..

CRUSTOSE LICHENS

It is impossible to work with crustose lichens with any accuracy without a compound microscope to study such features as spore size and shape. A few crustose lichens on Jasper Ridge , however, can be recognized by a few distinctive characteristics.

KEY

WET.	
1. Thallus orange	2
1. Thallus blue green, grey, or white	3
 2.0n rocks, rarely on bark at base of trees. Thallus small, sometimes invisible except for the orange apothecia; turns red with KOH 2.0n rocks and trees, usually a less defined thallus than most <u>Caloplacas</u>, also a more yellowish orange; sometimes yellow; does not turn red with KOH 	Caloplaca Candelaria
3. Thallus blue-green, consists of granules (hand lens), somewhat powdery looking; found in shaded areas on trees and rocks3. Thallus grey or white	<u>Lepraria</u> 4
4. Thallus grey, on trees 4. Thallus white	5
5. With flesh colored apothecia5. With white soralia (look like white dots)	Ochrolechia Pertusaria
6. On railing of old bridge at head of lake.Black(spores) comes off on fingers when fruiting bodies are rubbed (these are mazaedia as opposed to apothecia)	Cyphelium

FRUTICOSE LICHENS

All the lichens in this key are pale grey green.

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l.	Pendulous thallus	2
1.	Thallus erect	3
	2. Thallus branched and stringy with strong white cord down the center2. Thallus netted and flat	<u>Usnea</u> sp. Ramalina menziesii
	2. Marius neved and riav	Memarina menziesii
3.	Thallus short and bushy with strong white cord down the center of it	Usnea sp.
3.	Thallus flat or inflated 4. Thallus flat	5
	4. Thallus inflated and hollow. Found in chaparral	Hypogymnia
5.	Thallus grey green on both sides	Ramalina
5.	Thallus with narrow lobes becoming divided toward tip. White on one side	Evernia

FOLIOSE LICHENS

KEY

1.	Yellowish green	2
1.	Bluish grey, white, brown, black or orange	3
5	2. With white spots and cracks on upper surface (use hand lens); on trees	Parmelia flavention
	2. On rocks; large, loosely attached	Xanthoparmelia
3.	Bluish grey	4
3.	White, brown, black or orange	6
	4. Thallus large, lobes 5-10 mm across	5
	4. Thallus divided into small fine linear lobes, covered with network of pale ridges	Parmelia sulcata
5.	Black cilia or hairs visible along margins (hand lens)	Parmotrema arnoldii
5.	No black cilia or hairs visible along margins	Platismatia glauca
	6. Thallus white, small, somewhat firmly attached to bark; lobes less than 3 mm; white reverse	Physcia
	6. Thallus brown, black or orange	7
7.	Thallus brown	8
7.	Thallus black or orange	12
	8. Light brown, finely divided, looks a lot like Physcia ; thallus may have white edge; common on oak bark	Physconia
	8. Dark brown	9
9.	On rocks; to $l\frac{1}{2}$ cm in diameter; attached at one central point	Umbilicaria
9.	On trees or soil	10
	10. On soil; greyish brown, turns green when wet; reddish brown apothesia up on raised fingers of thallus; on cutbanks in damp shady areas	Peltigera
11.	Thallus ridged, apothecia reddish brown where present; pseudocyphellae on reverse Thallus smooth; reverse with true cyphellae; lobes to one cm. wide	<u>Pseudocyphellaria</u>
	12. Thallus black	Sticta 13
	12. Thallus orange, small and delicate; red in KOH	Xanthoria
13.	Thallus black, small and wrinkled; common on oak	Collema
13.	Thallus flat and smooth, very tomentose on reverse	Leptogium

SQUAMULOSE LICHENS

The only squamulose lichen I have found at Jasper Ridge is <u>Cladonia</u>. It is recognized by the small leaf-like squamules which grow at the base, disappearing with age in some species. From these grow podetia, hollow stalks which bear the apothecia in the fertile species.

1. Podetia with a goblet shape; small and green or grey

C.chlorophaea

1. Podetia green and branched

C. furcata