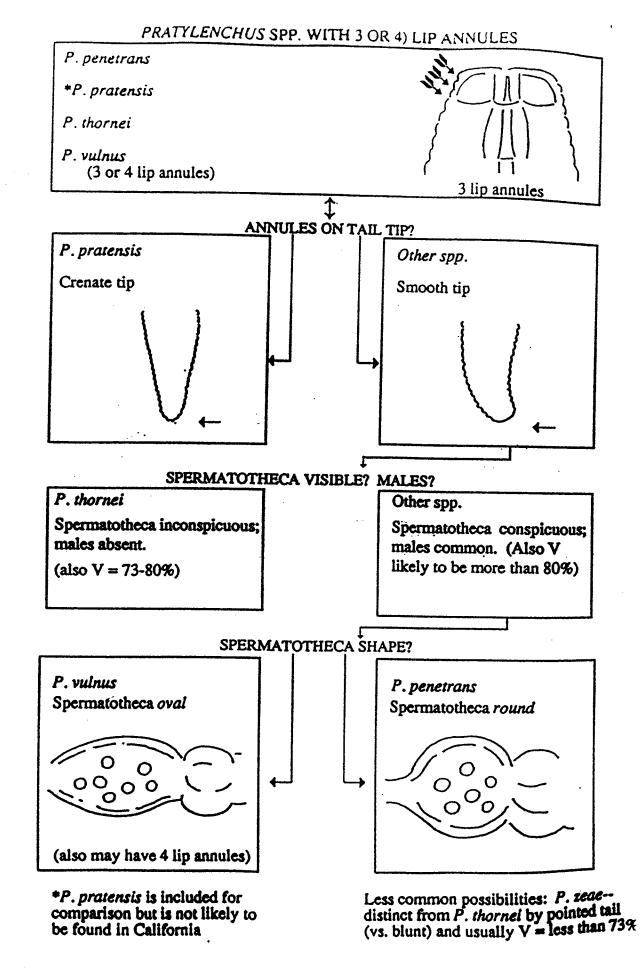
NEMATOLOGY 100

Key to the Nine Common <u>Pratylenchus</u> Species in California

1.	Monosexual species, no sperm in spermatheca, males rare or unknown.	2
	Bisexual species, sperm in most spermatheca, males common.	7
2.	Very large, round stylet knobs, stylet averages 19 μm in length; V% 82-89; 2 lip annules	<u>P.</u> brachvurus
	Stylet knobs oval or flattened, stylet generally less than 19 μm long	3
3.	Tail tip annulated, 3 lip <u>annule</u> s	P. crenatus
	Tail tip smooth	4
14	Lip annules 2	5
	Lip annules 3	6
5	Average V%=84, lip annules about same width; stylet knobs often flattened; vulval lips somewhat smooth	<u>P.</u> neglectus
	Average V%=78%, anterior lip annules markedly narrower than posterior; vulval lips protrude somewhat	<u>P.</u> scribneri
6	Tail normally truncate, stylet averages 18 μm in length; V% averages 76; normally assumes a "J" or "C" shape when heat killed	P. zeae
	Tail narrowly rounded, stylet averages 16 µm in length; V% averages 71; normally almost straight when heat killed	P. thornei
7	Lip annules 2, occasionally 3 on one side	P. coffeae
	Lip annules 3, occasionally 4 on one side	8
8	Spermatheca normally round, posterior uterine branch 1 to 1.5 body widths long; large stylet knobs	<u>P.</u> penetrans
	Spermatheca normally oval, posterior uterine branch generally greater than 2 body widths long; moderate sized stylet knobs	P. vulnus

PRATYLENCHUS SPP. WITH 2 LIP ANNULES P. brachyurus P. neglectus (minyus) P. scribneri 2 lip annules SHAPE OF HEAD AND STYLET KNOBS? P. brachyunus Other spp. Large round stylet knobs Smaller anteriorly flattened stylet knob Angular (*) low, broad lip Rounded (*) lip region region LENGTH OF POSTVULVAR SAC? P. neglectus (minyus) P. scribneri Postvulvar sac about 1 X Postvulvar sac more than 1 X body width at vulva (about body width at vulva 1.5X) sac (also V = 80-87%)(also V = 75-82%) Less common possibility:

P. coffeae--unlike above has many males and well-formed spermatotheca



OBSERVATIONS ON ASSOCIATIONS OF *PRATYLENCHUS* SPP. IN CALIFORNIA

Contributed by M. V. McKenry, H. McKinney, and A. Bell

P. brachyurus

Bakersfield (Almonds); also more

desert areas: Indio, Blythe (Cotton);

Sandy Soil

P. neglectus (minyus)

Wide distribution and wide host

range, weeds, grasses

P. penetrans

Cooler areas, apples, cherries, (i.e.

stone fruits)

P. scribneri

Warmer areas, wide host range;

cotton in El Centro, also sweet corn,

snap beans

P. thornei

Clay soil, grass, weeds, wheat

(especially certain varieties) other

grains (some barley)

P. vulnus

Perineal crops, fruits, walnuts, vines,

some citrus (often in low numbers)