

Key for Laclede County, MO Pollen Study 2007

This is the key used for Laclede County pollen data started 5/2006 by Linda Lathrop The key #s 1 through 8 are John Chandler's protocol from Pollen Identification for Beekeepers (2005) which was taken from Rex Sawyer's book by the same title. I added key characets #9 through 18 to offer more in depth characteristics.

Size:

1. Very Small >20 um
2. Small 20- 30 um
3. Medium 30- 50 um
4. Large 50-100 um
5. Very large 100<um

Shape:

1. Rounded or irregularly round
2. Oval, flattened
3. Oval, elongated
4. Long
5. Triangular
6. Semi-circular or boat-shaped
7. Multi sided or irregular

Aperture Number:

1. 0 to indefinite
2. 1-2
3. 3
4. 4-6
5. 7-12
6. 12+

Aperture Type:

1. Pores only
2. Furrows only
3. Furrows with pores
4. United or irregular furrows may occur

Surface:

1. Smooth or indefinite
2. Granular
3. Striate
4. Net or pitted
5. Isolated dots due to spines or other projections

Exine, Section:

1. Thin
2. Medium, no rods
3. Medium with spaced rods or beaded
4. Medium or thick with coarse external rods
5. Layer of close, thin rods
6. Long, thin spines
7. Large, broad based spines
8. Small or very small spines or warts
9. Other Projections

Other Structural Feature

1. Grains compound or with air sacs
2. Thickened or projecting edges to apertures
3. Cap or streak on apertures
4. Granules or projections scattered on apertures
5. Intine swollen beneath apertures
6. Intine thick or very thick
7. Cell contents granular

Pollen Color:

1. White to grey
2. Brown
3. Red or pink
4. Orange
5. Yellow
6. Green
7. Blue or black (Fresh, Bee Load)

Season:

1. Winter (Nov 16-Feb 15) (For Laclede Co., Mo.)
2. Spring (Feb 16- May 15)
3. Summer (May 16- Aug 15)
4. Fall (Aug 16-Nov 15)
5. Several seasons

Pollination agent:

1. Air
2. insect

Use to the bee:

- 0. Neither
- 1. Pollen
- 2. Nectar
- 3. Both
- 4. Honey dew

Â Time of visit (by the bees)

- 1. A.M.
- 2. P.M.

Eye witness of visitation

- 0. None
- 1. Yes

Floral Status:

- 0. Alien
- 1. North American Native

Source of Pollen Grain Photo

- F. flower
- H. hive
- B. bee
- P. product (honey)
- O. other
- X. no photo

Date of collection:

MM/DD/YY

Missouri County where sample originated

GPS co-ordinate<b< h3=""></b<>