



Searchable FREP Database

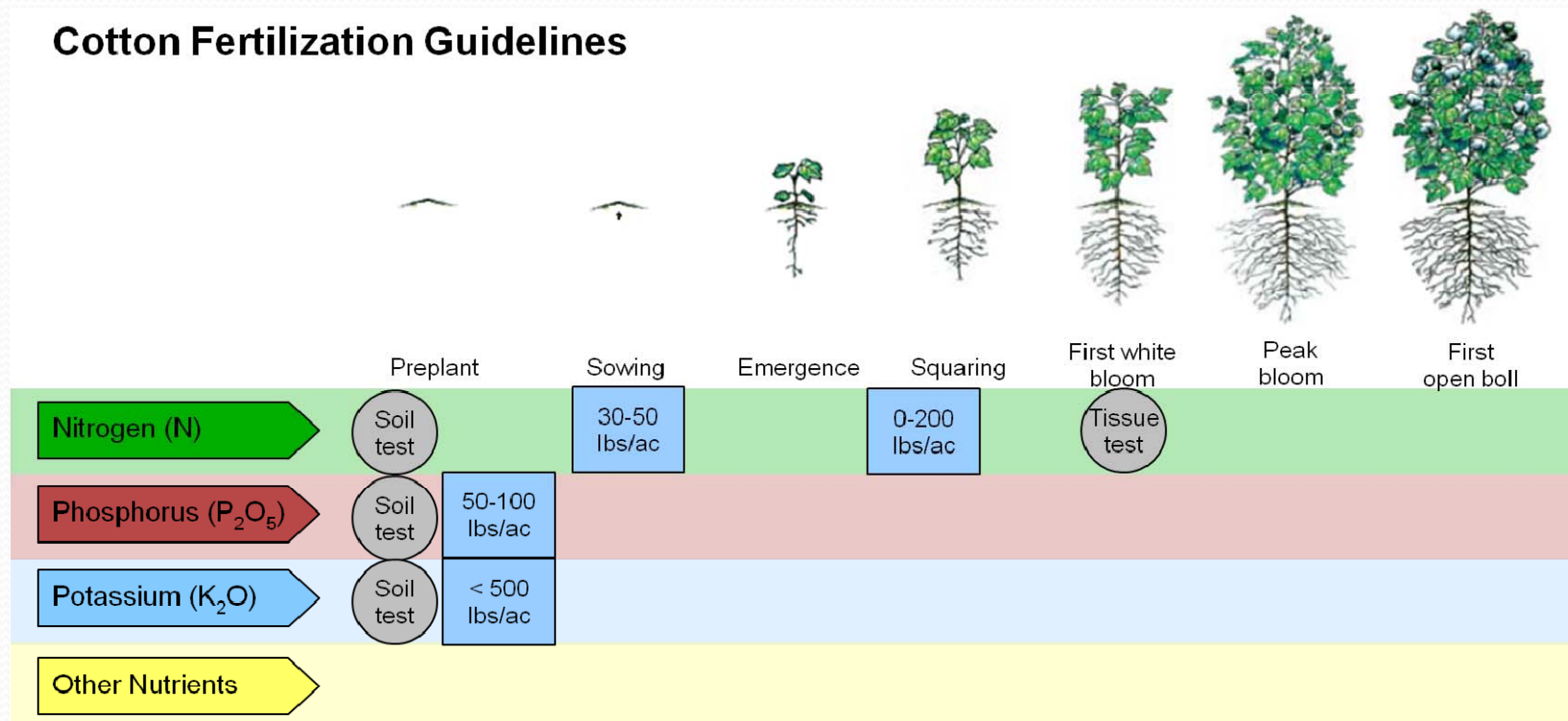
Phase 2: Fertilization Guidelines



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Phase 2: Fertilization Guidelines

Cotton Fertilization Guidelines



References:

- 1) Weir, B.L., Kerby, T.A., Hake, K.D., Roberts, B.A., Zelinski, L.J., 1996. Cotton fertility. In: HAKE, S.J., KERBY T.A., HAKE, K.D. (Eds.) Cotton Production Manual. University of California, Division of Agriculture and Natural Resources, Publication 3352. p. 210-227.
- 2) **FREP Report:** Establishing Updated Guidelines for Cotton Nutrition (Link to summary)

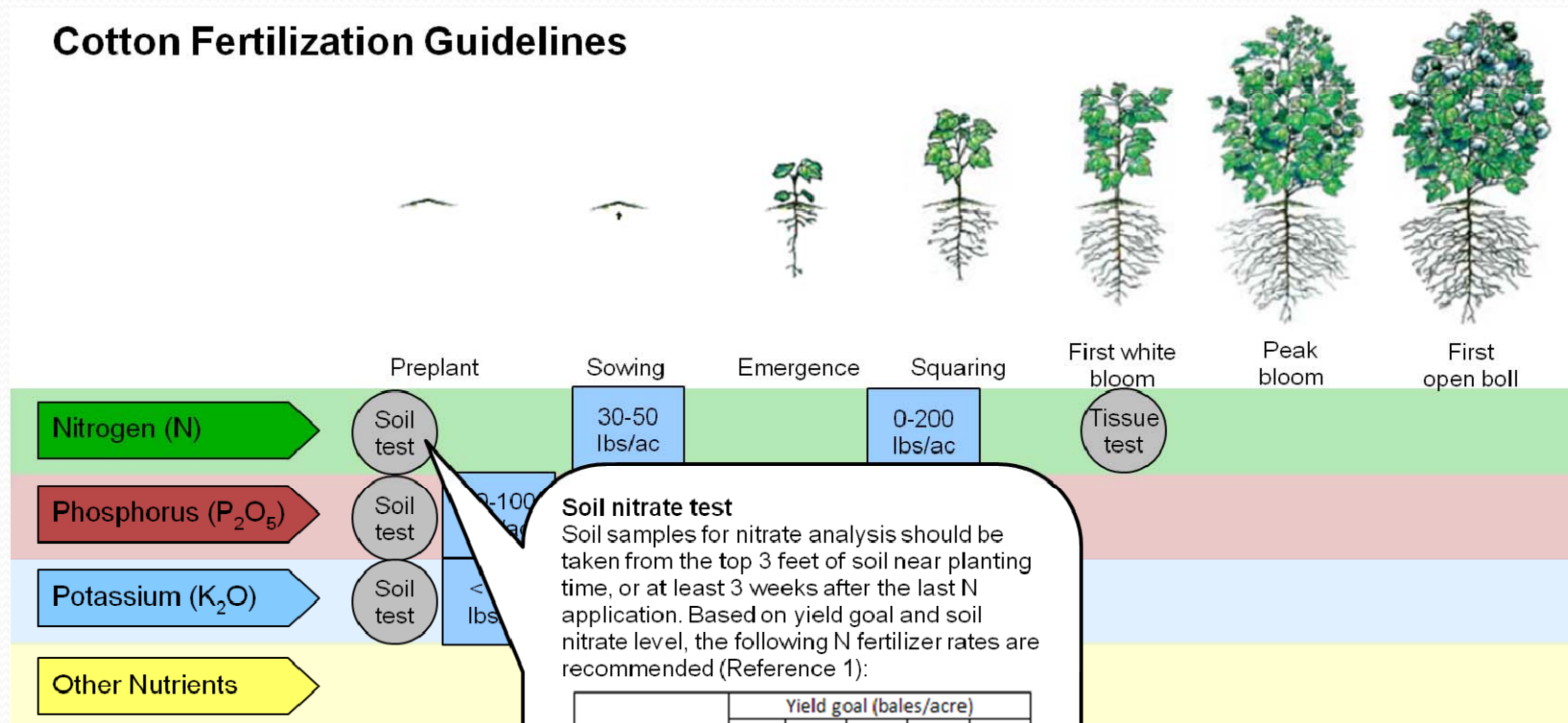
Additional information:

- **FREP Report:** Interaction of Cotton Nitrogen Fertility Practices and Cotton Aphid Population Dynamics in California Cotton. (Link to summary)
- **FREP Report:** Can We Predict K Fixation in the San Joaquin Valley from Soil Texture and Mineralogy? (Link to summary)

- **Links**

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Soil nitrate test

Soil samples for nitrate analysis should be taken from the top 3 feet of soil near planting time, or at least 3 weeks after the last N application. Based on yield goal and soil nitrate level, the following N fertilizer rates are recommended (Reference 1):

Soil nitrate level (NO ₃ -N)	Yield goal (bales/acre)				
	1.5	2.0	2.5	3.0	3.5
50	55	115	170	200	200
100	0	40	115	190	200
150	0	0	25	120	200
200	0	0	0	30	130
250	0	0	0	0	50

References:

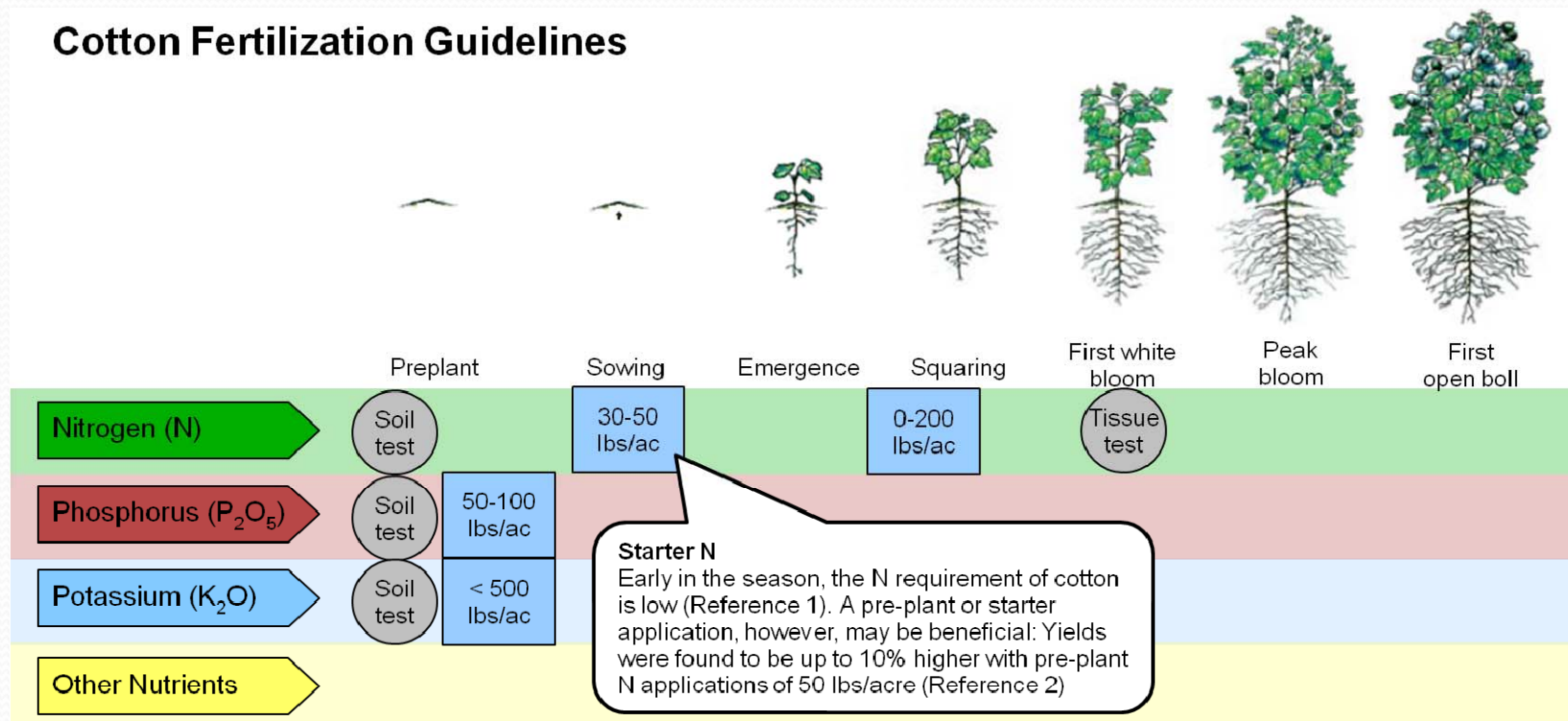
- 1) Weir, B.L., Kerby, T.A., Hake, K.D., Robert... 1996. Cotton fertility. In: HAKE, S.J., KER... (Eds.) Cotton Production Manual. Univers... Agriculture and Natural Resources, Public...
- 2) **FREP Report:** Establishing Updated Guide... (Link to summary)

Conclusion:

... Interaction of Cotton Nitrogen Fertility... Aphid Population Dynamics in... (Link to summary)
... Can We Predict K Fixation in the San... Soil Texture and Mineralogy? (Link to...)

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References:

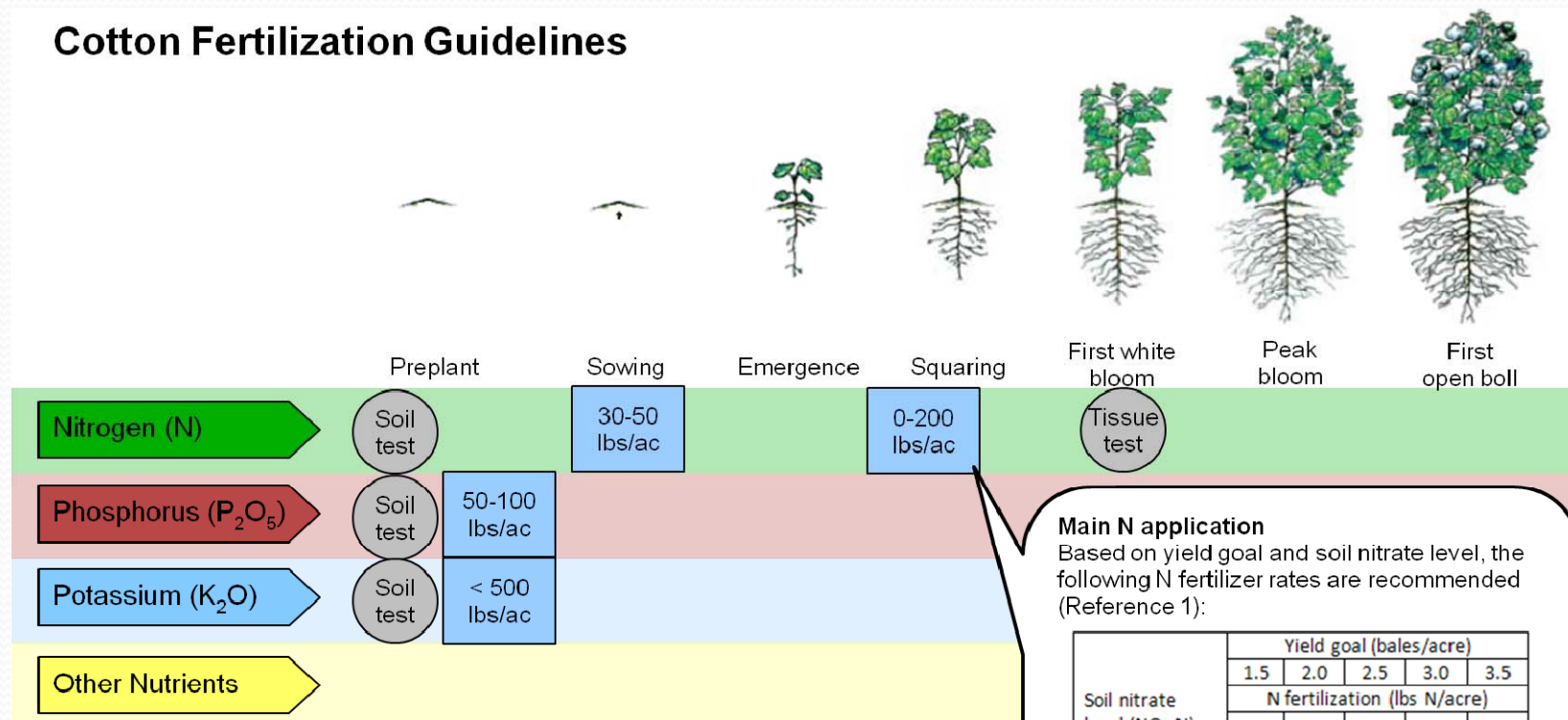
- 1) Weir, B.L., Kerby, T.A., Hake, K.D., Roberts, B.A., Zelinski, L.J., 1996. Cotton fertility. In: HAKE, S.J., KERBY T.A., HAKE, K.D. (Eds.) Cotton Production Manual. University of California, Division of Agriculture and Natural Resources, Publication 3352. p. 210-227.
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Phase 2: Fertilization Guidelines

Cotton Fertilization Guidelines



Main N application
Based on yield goal and soil nitrate level, the following N fertilizer rates are recommended (Reference 1):

Soil nitrate level (NO ₃ -N)	Yield goal (bales/acre)				
	1.5	2.0	2.5	3.0	3.5
	N fertilization (lbs N/acre)				
50	55	115	170	200	200
100	0	40	115	190	200
150	0	0	25	120	200
200	0	0	0	30	130
250	0	0	0	0	50

References:

- 1) Weir, B.L., Kerby, T.A., Hake, K.D., Roberts, B.A., Zelinski, L.J., 1996. Cotton fertility. In: HAKE, S.J., KERBY T.A., HAKE, K.D. (Eds.) Cotton Production Manual. University of California, Division of Agriculture and Natural Resources, Publication 3352. p. 210-227.
- 2) **FREP Report:** Establishing Updated Guidelines for Cotton Nutrition (Link to summary)

Additional information

- **FREP Report:** Cotton Fertilization Practices and Recommendations for California Cotton
- **FREP Report:** Can We Predict K Fixation in the San Joaquin Valley from Soil Texture and Mineralogy? (Link to summary)
- **Links**