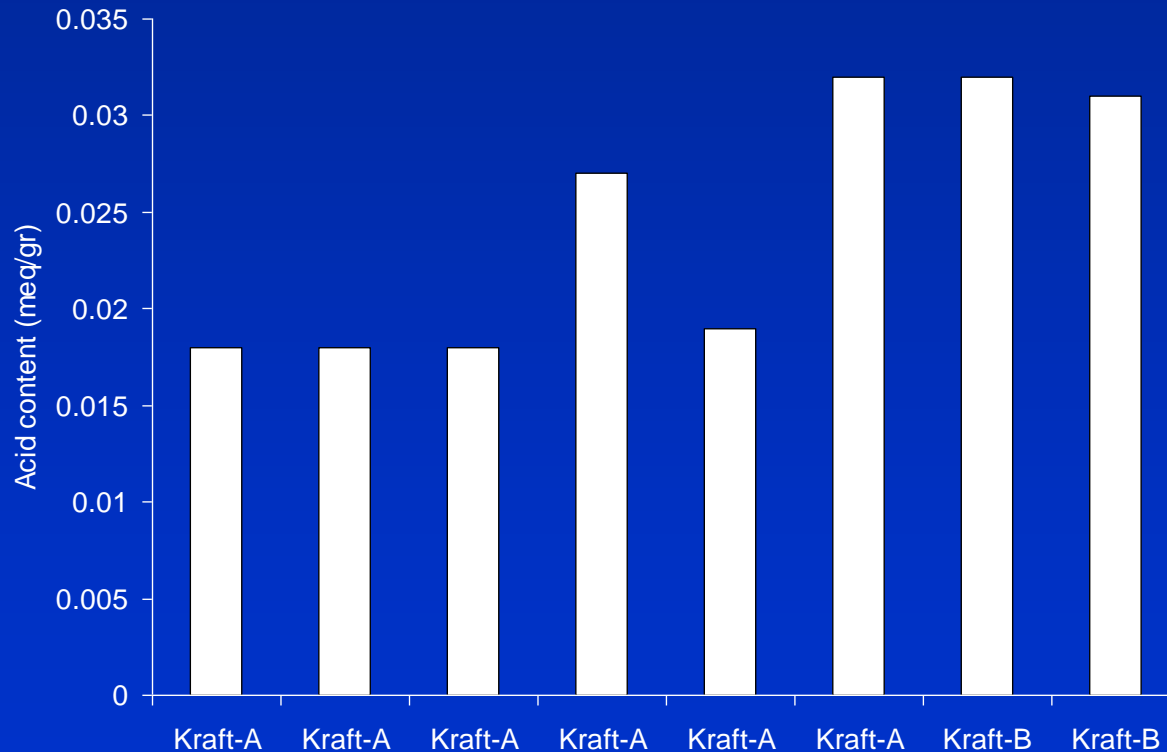


Engineering Kraft Fibers

Profiling Acid Groups and Carbonyl Groups in Commercial Pulps

Engineering Kraft Fibers

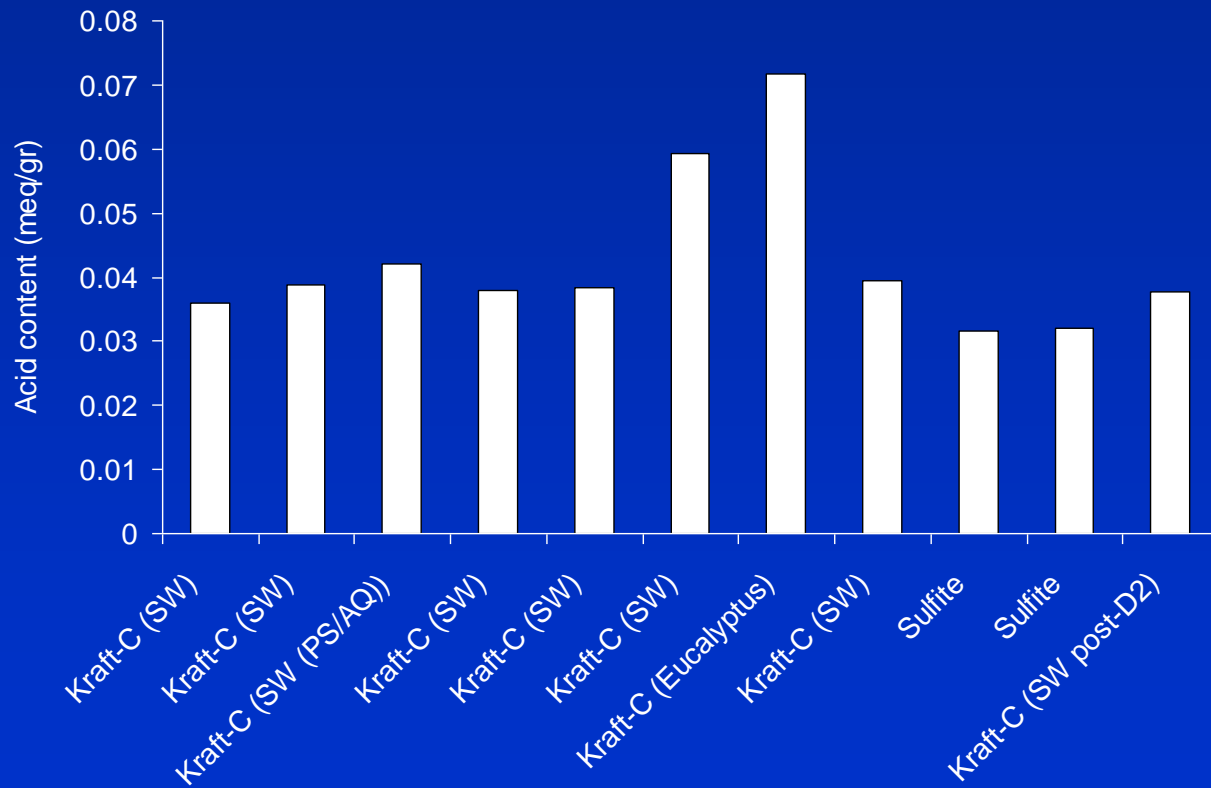
Results - Acid Group Content



Differing mill pulps company A, etc..

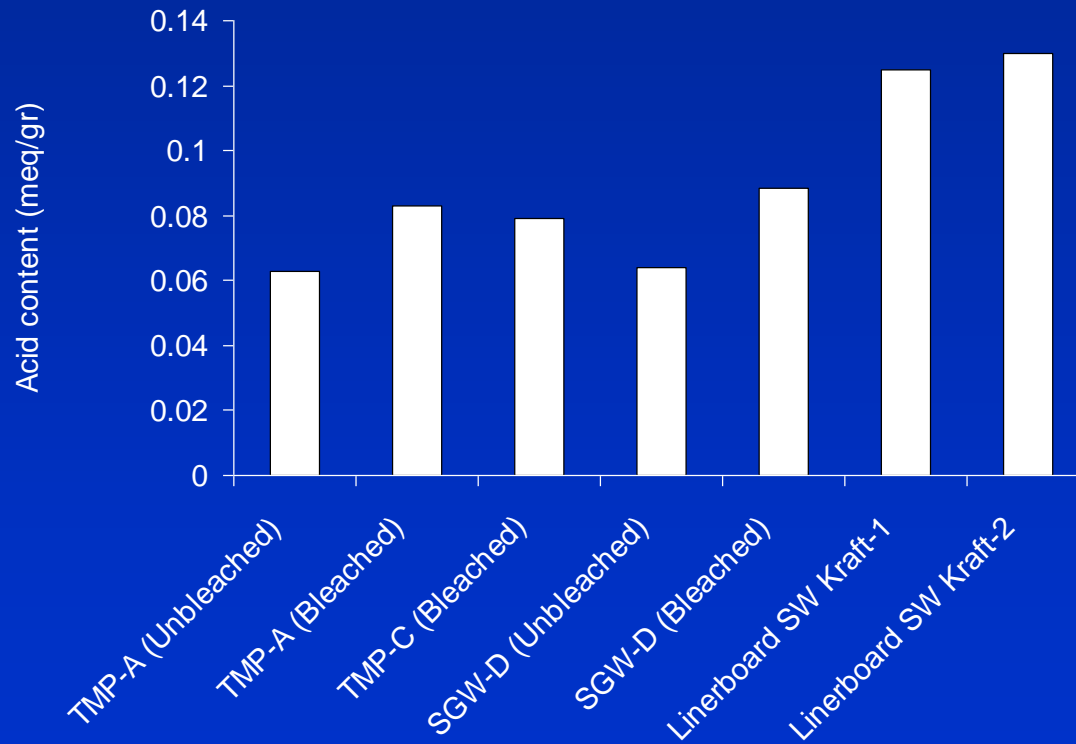
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Results - Acid Group Content



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Results - Acid Group Content



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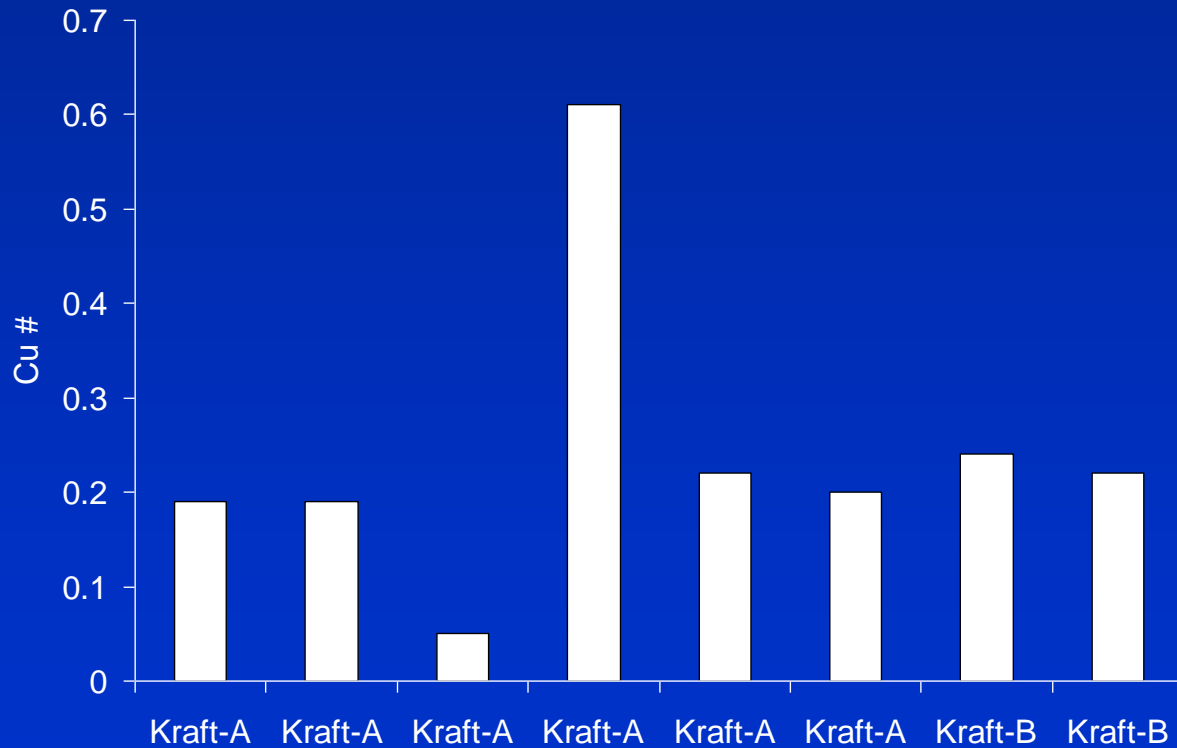
Carbonyl Content in Kraft Pulps

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Background - Carbonyl Groups

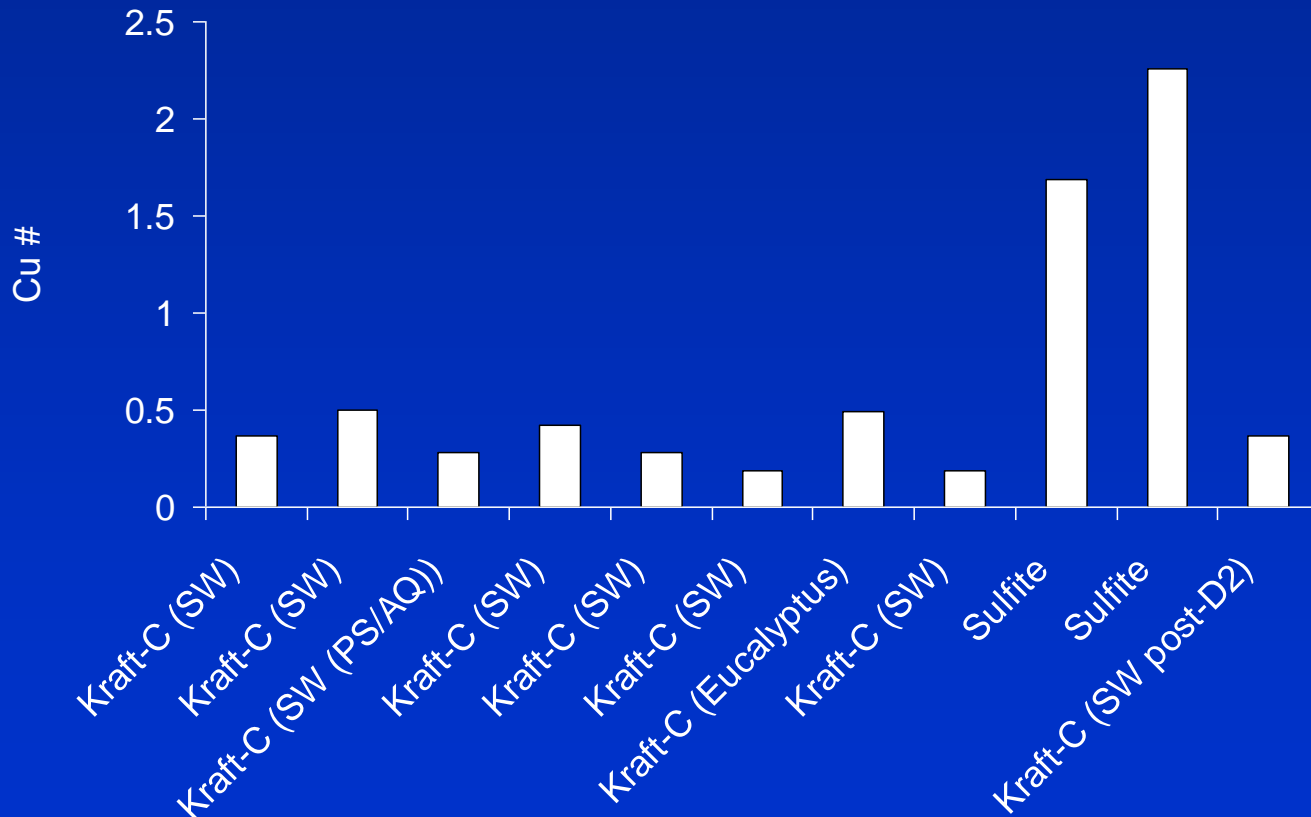
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Results - Oxycellulose Content



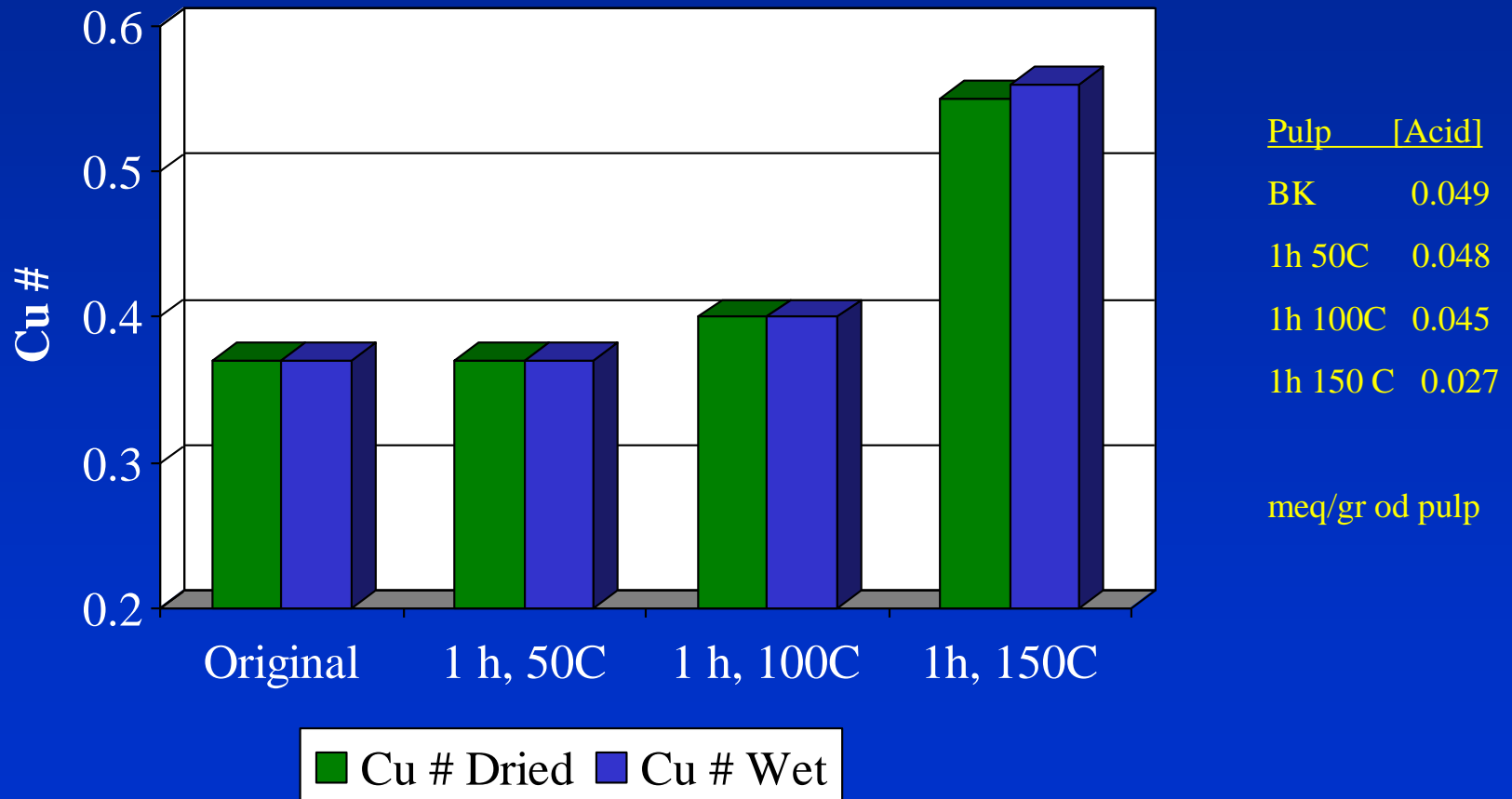
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Results - Oxycellulose Content



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Results - Oxycellulose Role of Heating



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Conclusions - Acid/Carbonyl Studies

- [Acid group] typically ranged 0.018 - 0.032 meq/g of pulp
 - Opportunity to product differentiate pulps
- Cu # had greater variation 0.05 - 0.50
 - Opportunity to improve pulp properties.