

The Current State of Maine's Pulp & Paper Industry *-- A Competitive Assessment --*



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OVERVIEW

- **Maine's P&P Industry – Where Are We?**
- **North America Printing & Writing Paper Market**
- **Maine's Primary Grades Review – Grade-by-Grade**
 - ✓ *UCFS*
 - ✓ *SC*
 - ✓ *Directory*
 - ✓ *CGW*
 - ✓ *CFS*
- **Where Can We Go?**

Where are We?

- In The Mind's of Many – Maine's Forest Products Industry Has Entered *The Beginning of The End* – Much Like *Textiles & Steel*
- Yet – Others View Maine's Forest Products Industry As Being *On A Doorstep To Revitalization*
- In Truth – Maine's Forest Products Industry's Future Is *In The Hands Of Those Who Do . . . Not In The Hands Of Those Who Can't & Won't . . . Not In The Hands Of Those Who Only Complain, Point Fingers & Criticize!*
- *Yet – The Challenges Are Real, & They Are Major*

So -- Where are We Now -- Really?

- **Maine's P&P Industry Is An Industry in Transition . . .**
 - ✓ Older Infrastructure & Dated Technology
 - ✓ Declining Capacity, Jobs, Taxes Paid
 - ✓ Older Workforce With Age Structure Imbalance
 - ✓ Higher Factors of Production Costs – *Especially For:*
 - *Energy, Fiber, Labor, Maintenance*
 - *Taxes, Worker Compensation*
 - ✓ Cost Competitive Pressures *Are Severe*
- **Markets In Transition & *Under Great Pressure* . . .**
 - ✓ Global Competitiveness Has Escalated
 - ✓ Demand Growth Is Much More Constrained
 - ✓ Customers Are Stressed & More Demanding . . .

And – What Are Some Key Realities?

- **Maine Is Not Viewed As A Premium Place For Basic Industry Operations & Investment . . .**
 - ✓ *Past Political Polarization*
 - ✓ *Tax Structures & Systems*
 - ✓ *State Regulations & Regulatory Processes*
 - **Site Permitting Requirements**
 - **Environmental Arena**
 - **Timberlands & Multiple Use Needs Balancing**
- **Industry Attention Seriously Strained**
 - ✓ *Management Focus On Maine's Operations*
 - ✓ *Investment History And Patterns*
- **Special Interest Groups Public Conflicts**

So – Where Do We Start & Look?

- **The Key Today to Maine's P&P Industry Is Found in the Printing & Writing Paper Grades**
 - ✓ *Uncoated Freesheet -- UCFS*
 - ✓ *SC Grades*
 - ✓ *Directory*
 - ✓ *Coated Groundwood*
 - ✓ *Coated Freesheet – CFS*
- **Let's First Look At Key Printing & Writing Paper Grades For North America As a Whole**

Grade Outlook – N. Am. P&W Papers

Recent *Economic Slowdown & Alternative Media Substitution* Have Impacted P&W Demand Negatively:

- Uncompetitive Capacity Being Closed & Modest Demand Increases Will Tend to *Reign in Excess Capacity*
- CFS, CGW, UCFS & GW Grades *Seemingly Collapsing Into One* Relatively Inter-changeable/somewhat Flexible Grade Structure From Consumers' Perspectives
- These Changes Brought on by *Collapsing Price Structures* of the Grades on Top of Each Other Is a Major Sea Change
- In This Context -- CFS Quickly Becoming *Commoditized -- Displaced* by Improved CGW Grades

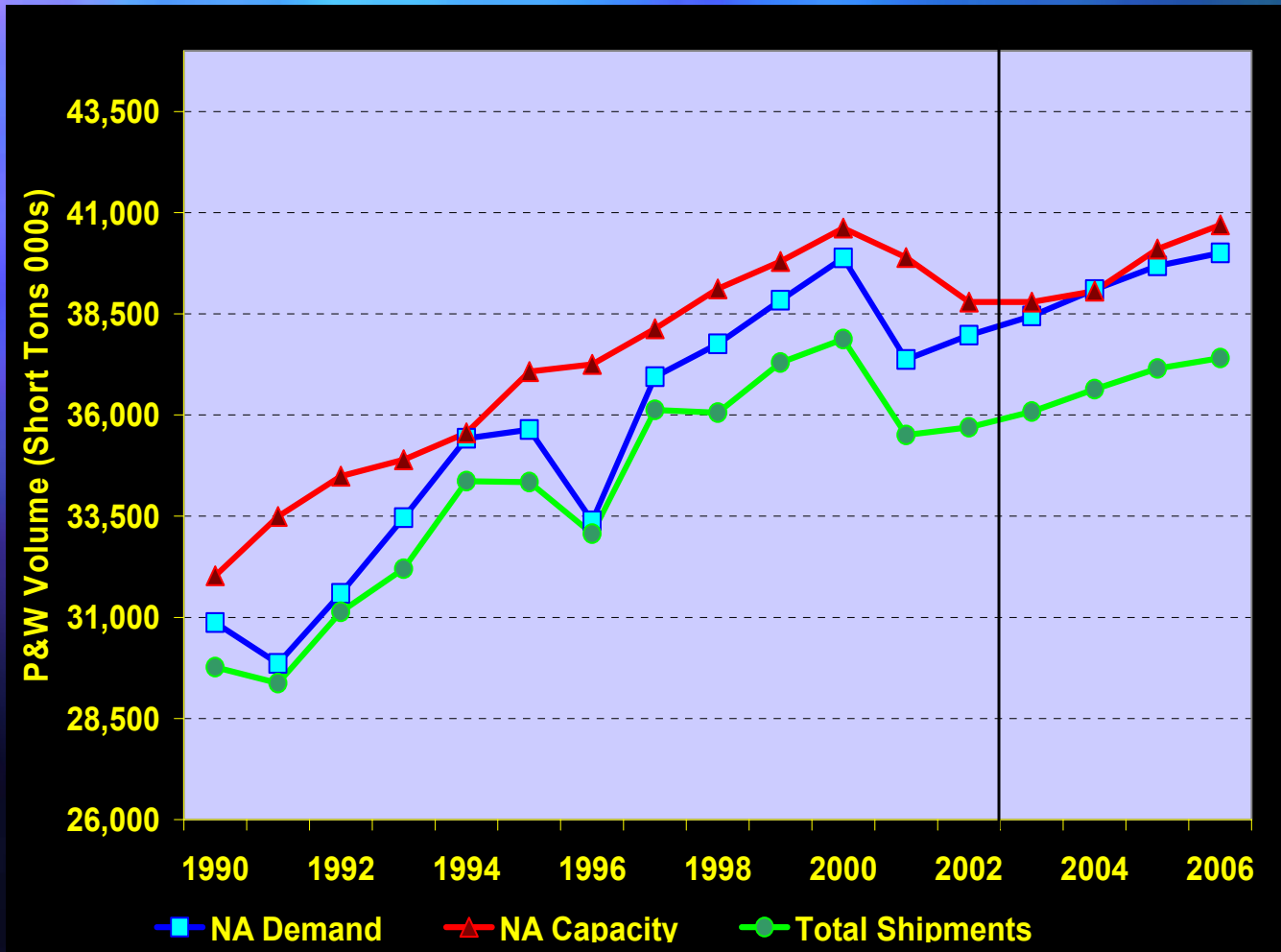
Grade Outlook – *N. Am. P&W Papers*

In Addition -- High End Uses -- Auto Brochures/annual Reports -
- *Are Being Replaced by Website Versions*

- High Volume *UCFS Under Pressure* From Overseas Competitors, and Newsprint Producers Are Converting Capacity to UC and CGW Grades
- Financial Returns & Growth Prospects Are Similar to Industry Average & Room Does Exist for *Continued M&A Activity*

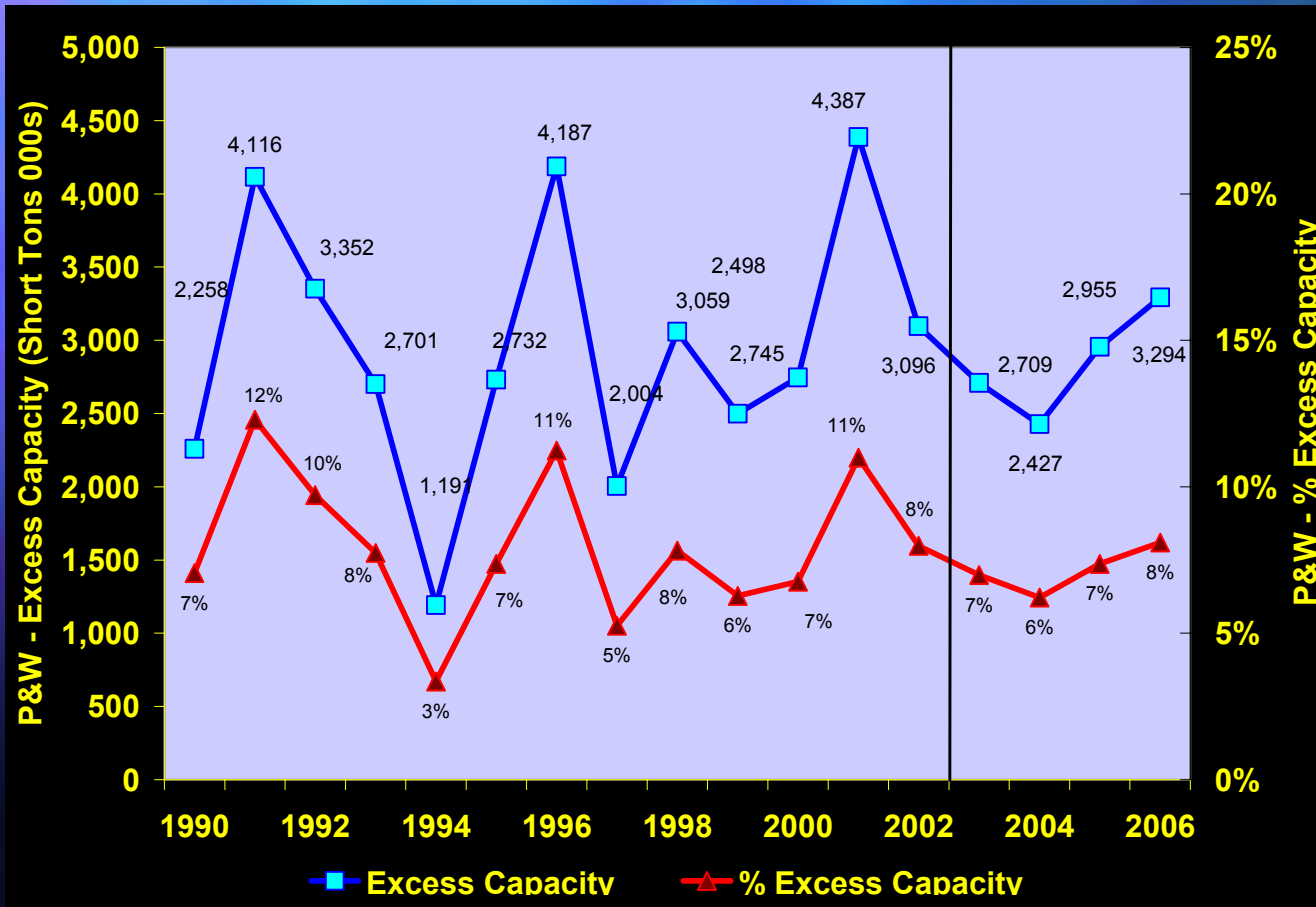
Implications: This grade grouping is in *major sea change* with grades collapsing on one another. Significant repositioning and redeployment of assets – continued M&A & financial constraints. Certain segments will suffer net capacity reductions.

Grade Outlook – N. Am. P&W Papers



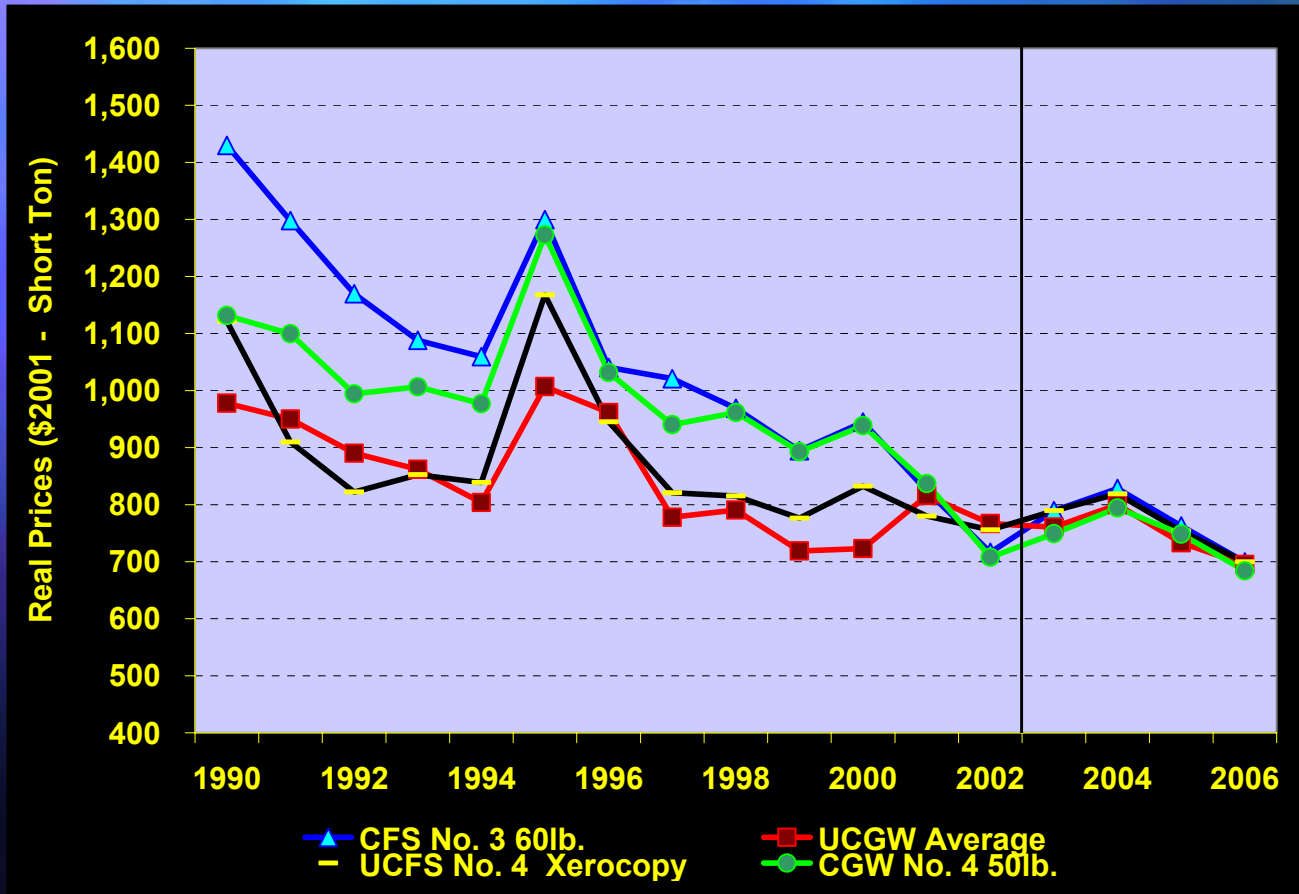
**N. Am. P&W
Demand &
Capacity
Contracted
Between
2000 and
2002 – A
*Moderate
Recovery*
Has Begun In
2003**

Grade Outlook – N. Am. P&W Papers



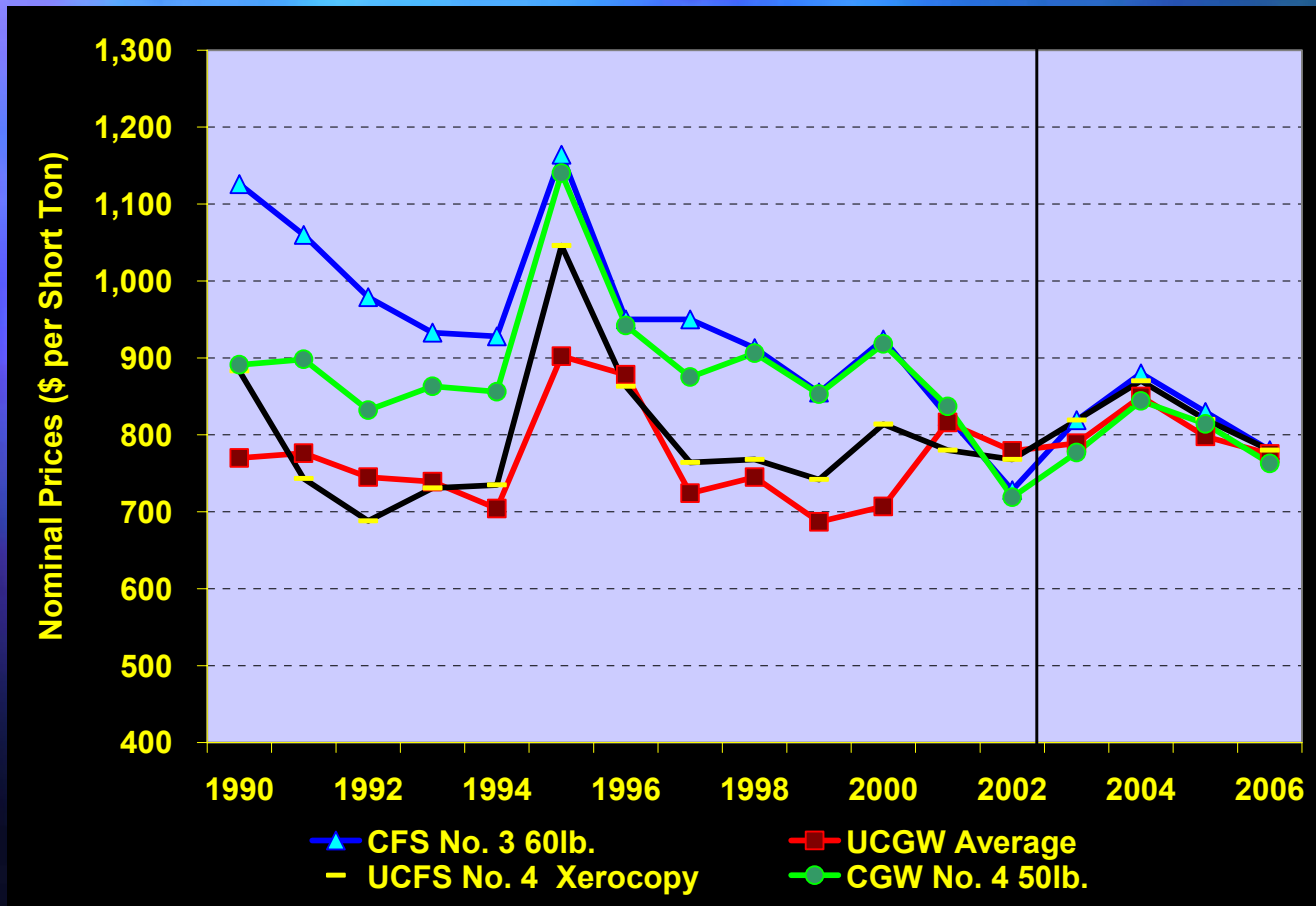
**Significant
N. Am.
P&W Over-
capacity
Should
Dissipate
By 2004**

Grade Outlook – N. Am. P&W Papers



**N. Am.
P&W Real
Pricing Is
At
Historically
Low Levels
– Grade
Prices
Have
Converged**

Grade Outlook – N. Am. P&W Papers



**N. Am.
P&W
Nominal
Prices Will
Likely
Improve
Some In
2003 &
2004**

Now – Let's Take A Look At Key Grades In Maine

- All Mill Cost Competitive Data Here Are Provided By Paperloop's Pulp and Paper Benchmarking Services Group
- Data are:
 - ✓ Fourth Quarter 2002 *Basis In 2003 Dollars*
 - ✓ Mill Level *Cash Manufacturing Costs*
 - ✓ *Based on Publicly Available Information & Data*
 - ✓ *Representative of Relative/Typical Operating Configuration Assumptions at Each Mill Assessed*
 - ✓ *Based on Regional Unit Cost Data Inputs*

Our Competitiveness Assessment Approach

- **First – A Brief Macro Overview of Key Factors of Production *For Printing & Writing Paper Grades***
 - ✓ *Focus on Fiber, Energy & Labor*
 - ✓ *And Aggregate Cost Levels*
- **Then A *Grade-by-Grade With Key Mills Review***
 - ✓ *Uncoated Freesheet*
 - ✓ *SC Grades*
 - ✓ *Directory*
 - ✓ *Coated Groundwood*
 - ✓ *Coated Freesheet*

Key Competitive Issues – P&W Papers

Factors of Production Cost Comparisons For Maine Mills

[All Data in USD per Short Ton]

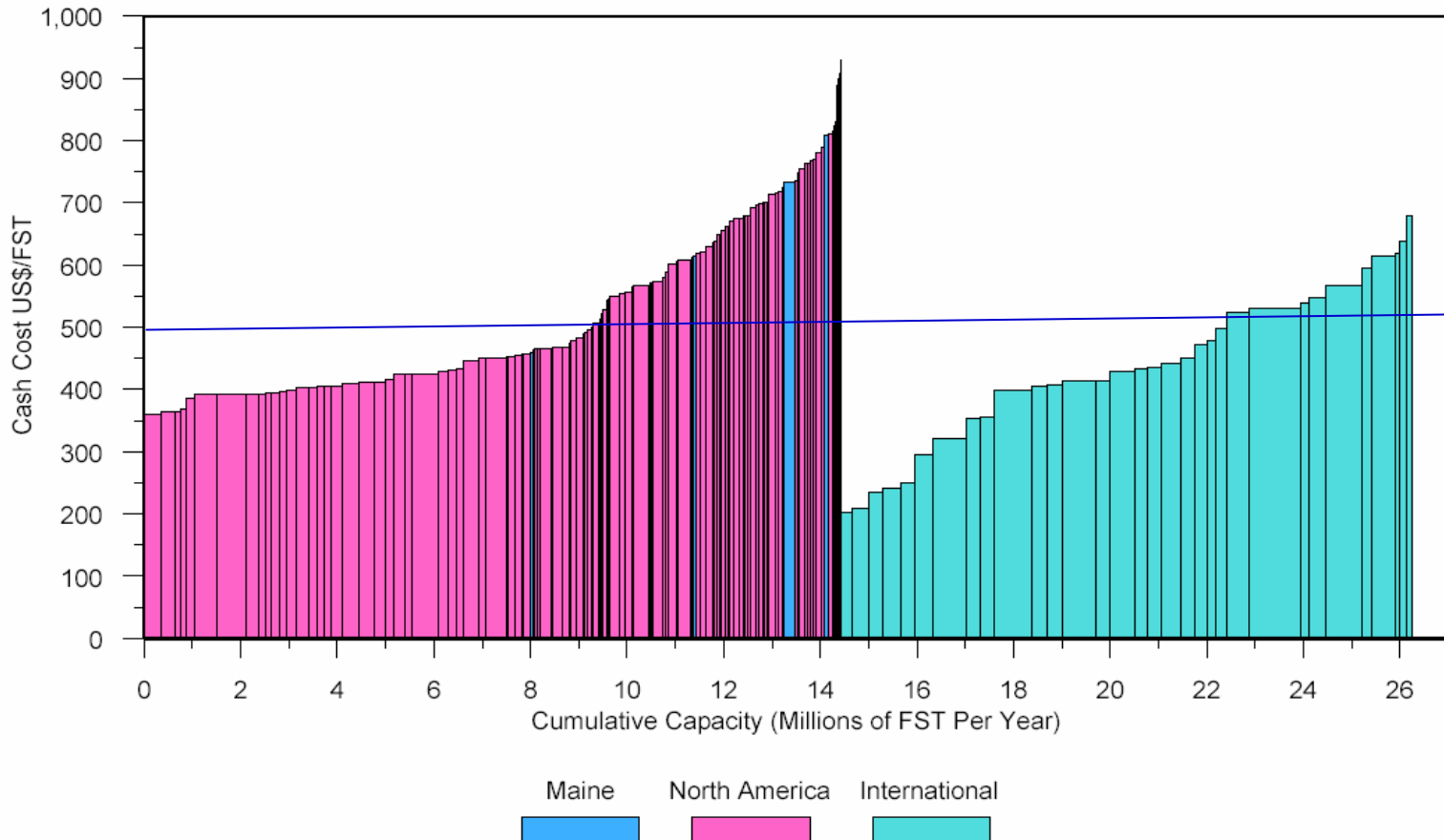
Cost Element	Industry Average	Mill A	Mill B	Mill C	Mill D	Mill E	Mill F	Mill G	Mill H	Mill I	Mill J	Mill K	Mill L	Mill M	Mill N	Mill O
Fiber	156	180	134	101	93	104	150	93	78	78	159	134	70	97	202	384
Power	66	55	44	44	45	62	71	109	75	75	45	100	63	90	129	85
Manpower	71	81	88	125	138	164	114	118	137	137	161	198	178	198	192	139
All Other	123	137	195	218	216	169	168	183	300	241	225	162	299	229	211	206
Total	416	453	461	488	492	499	503	503	521	531	590	594	610	614	734	814

Maine's UCFS Competitiveness

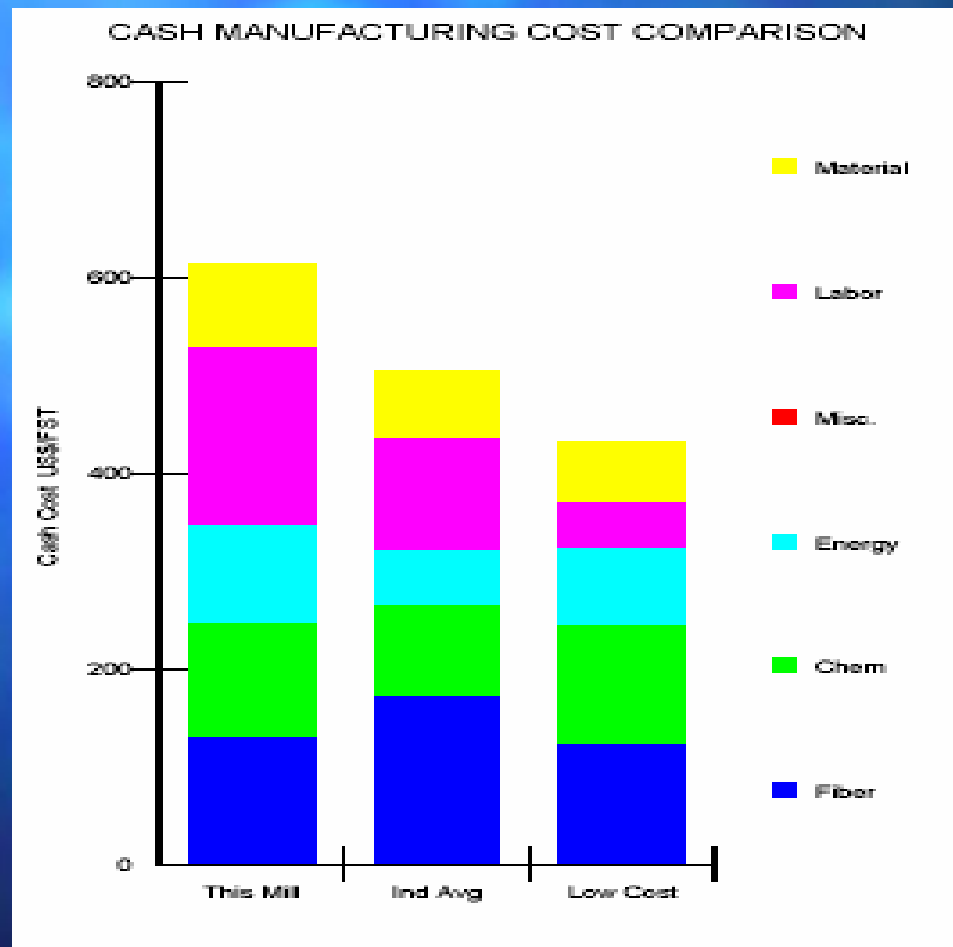
- **Product Quality Is Rated as *Competitive***
- **Mill Cash Cost Competitiveness = Very High, *4th Quartile***
- **Key Cost Issues Are:**
 - ✓ ***Labor = High – Unit Costs & Efficiency***
 - ✓ ***Energy = Very High***
 - ✓ ***Materials & Chemicals = Generally Competitive***
 - ✓ ***Fiber = Very Competitive***

UCFS Cost/Supply Curve

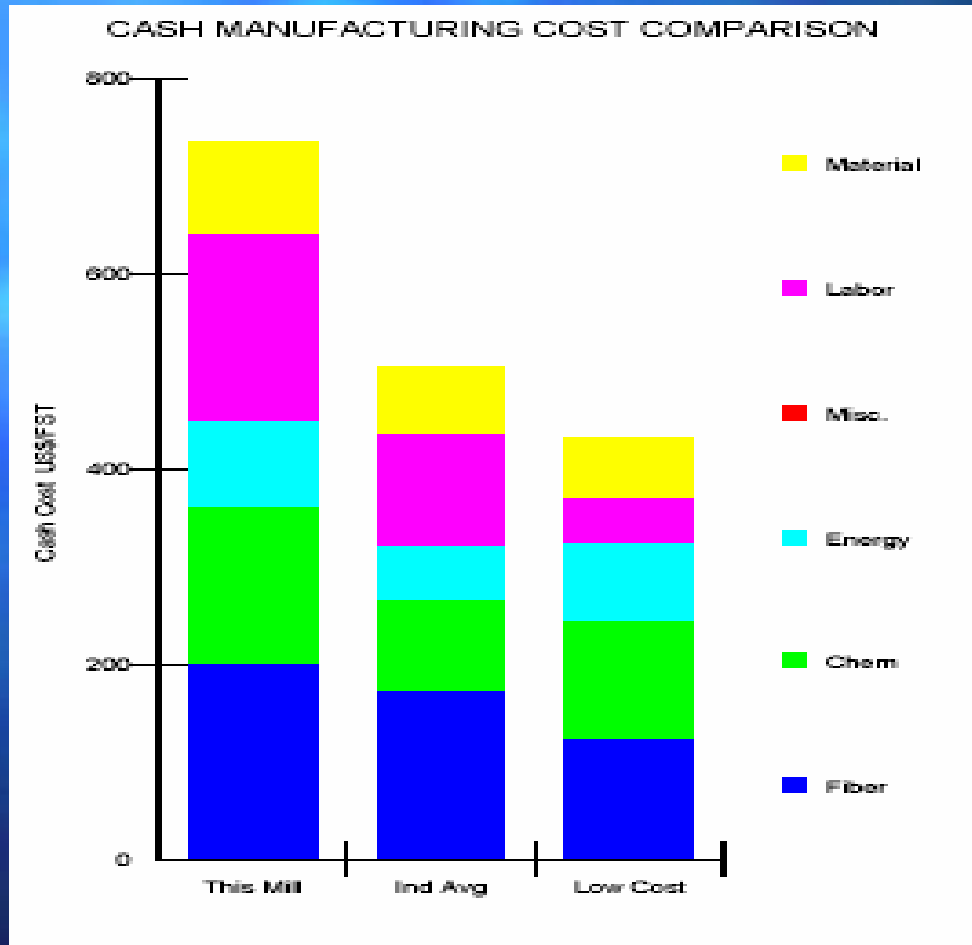
RESULTS
 Q4-2002 UCFS AND WFU COST OF SUPPLY
 SORTED BY REGION THEN CASH COST WITH MAINE MILLS INDICATED



UCFS Cost Curve



UCFS-Value Added Cost Curve

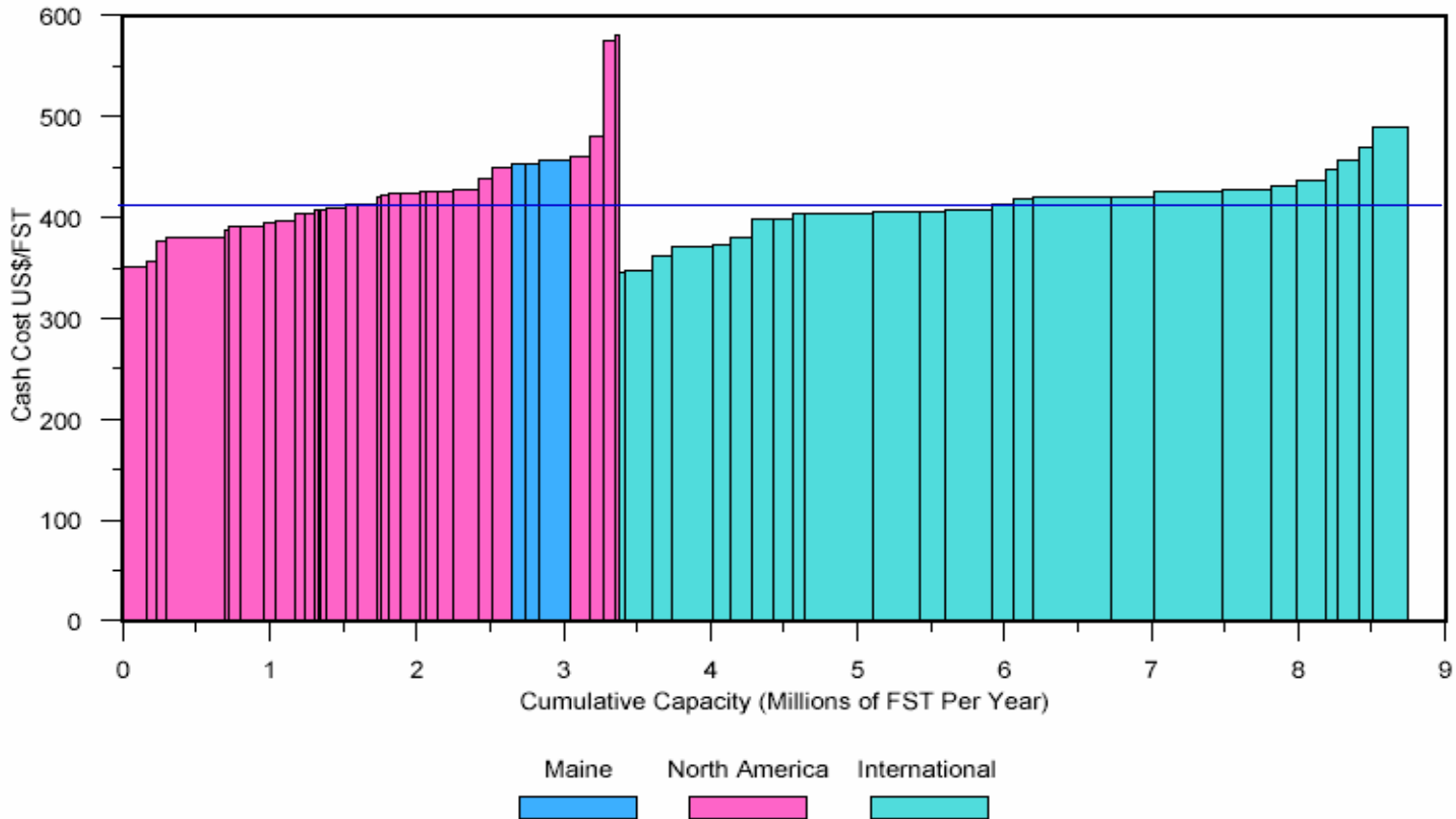


Maine's SC Competitiveness

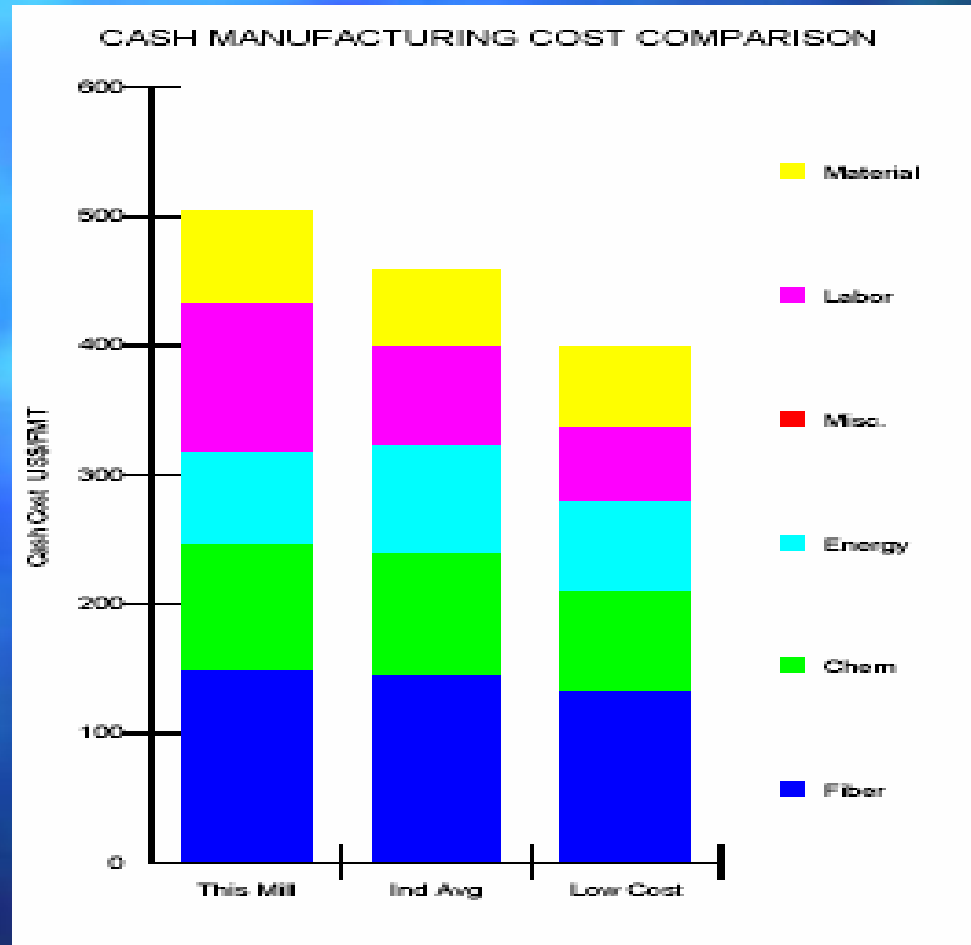
- **Product Quality Is Rated as *Very Good***
- **Mill Cash Cost Competitiveness = *4th Quartile***
- **Key Cost Issues Are:**
 - ✓ ***Labor = Very High – Unit Costs & Efficiency***
 - ✓ ***Chemicals = Relatively High***
 - ✓ ***Fiber & Materials = Competitive***
 - ✓ ***Energy = Very Competitive***

SC Cost/Supply Curve

RESULTS
Q4-2002 SC COST OF SUPPLY
 SORTED BY REGION THEN CASH COST WITH MAINE MILLS INDICATED



SC Cost Curve

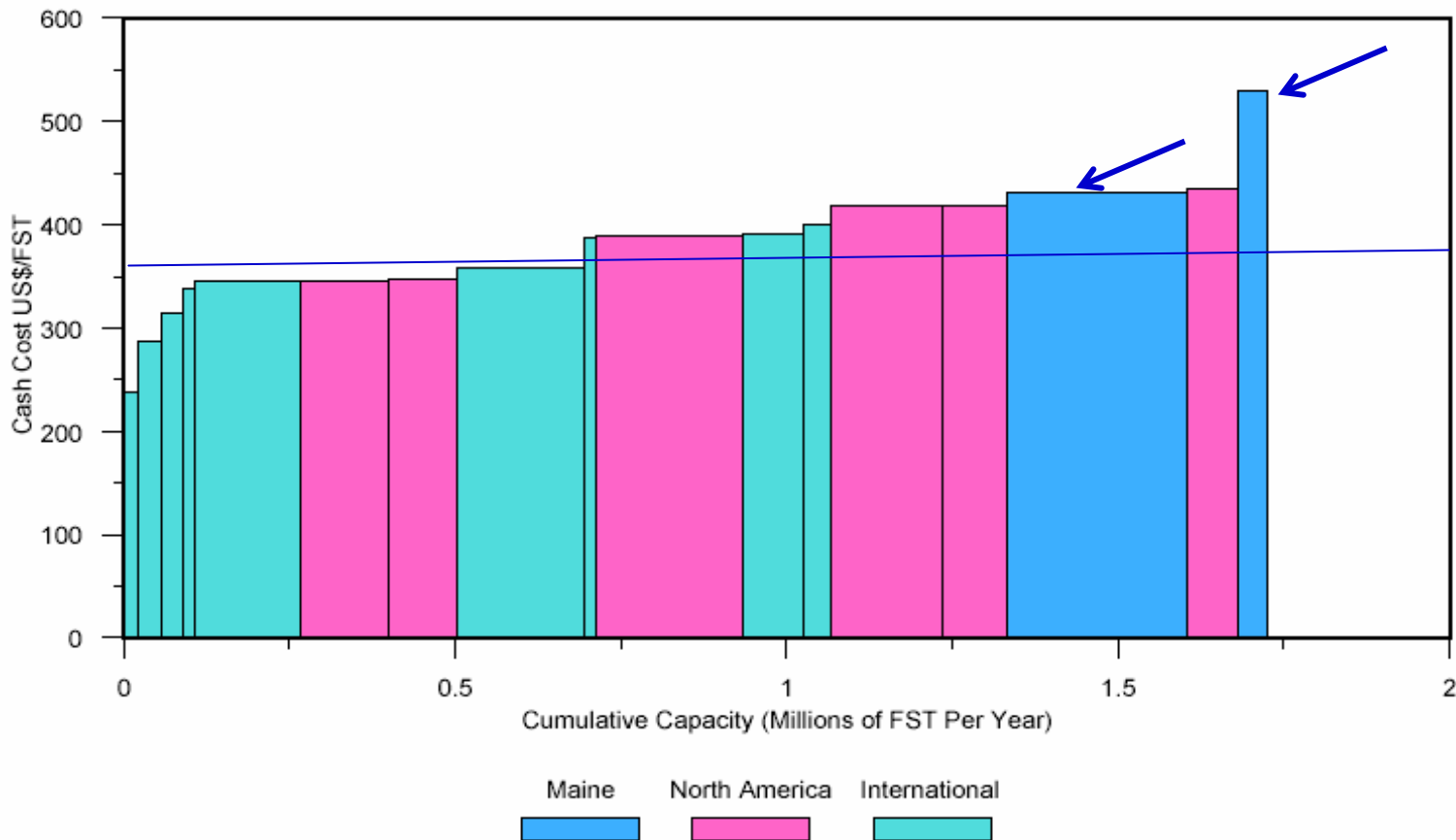


Maine's Directory Competitiveness

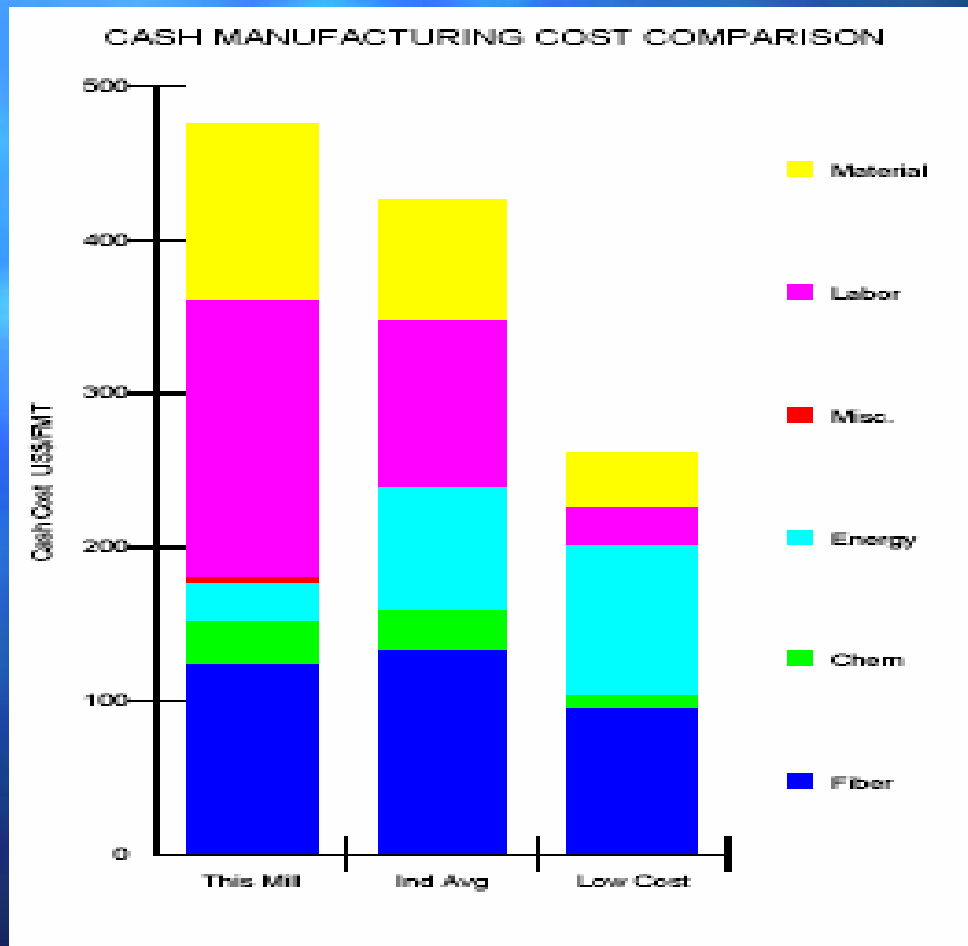
- **Product Quality Is Rated as *Very Good***
- **Mill Cash Cost Competitiveness = Very High in The *4th Quartile***
- **Key Cost Issues Are:**
 - ✓ ***Labor = Very High – Unit Costs & Efficiency***
 - ✓ ***Materials = High***
 - ✓ ***Fiber & Chemicals = Competitive***
 - ✓ ***Energy = Very Competitive***

Directory Cost/Supply Curve

RESULTS
 Q4-2022 DIRECTORY COST OF SUPPLY
 SORTED BY CASH COST WITH MAINE MILLS INDICATED



Directory Cost Curve

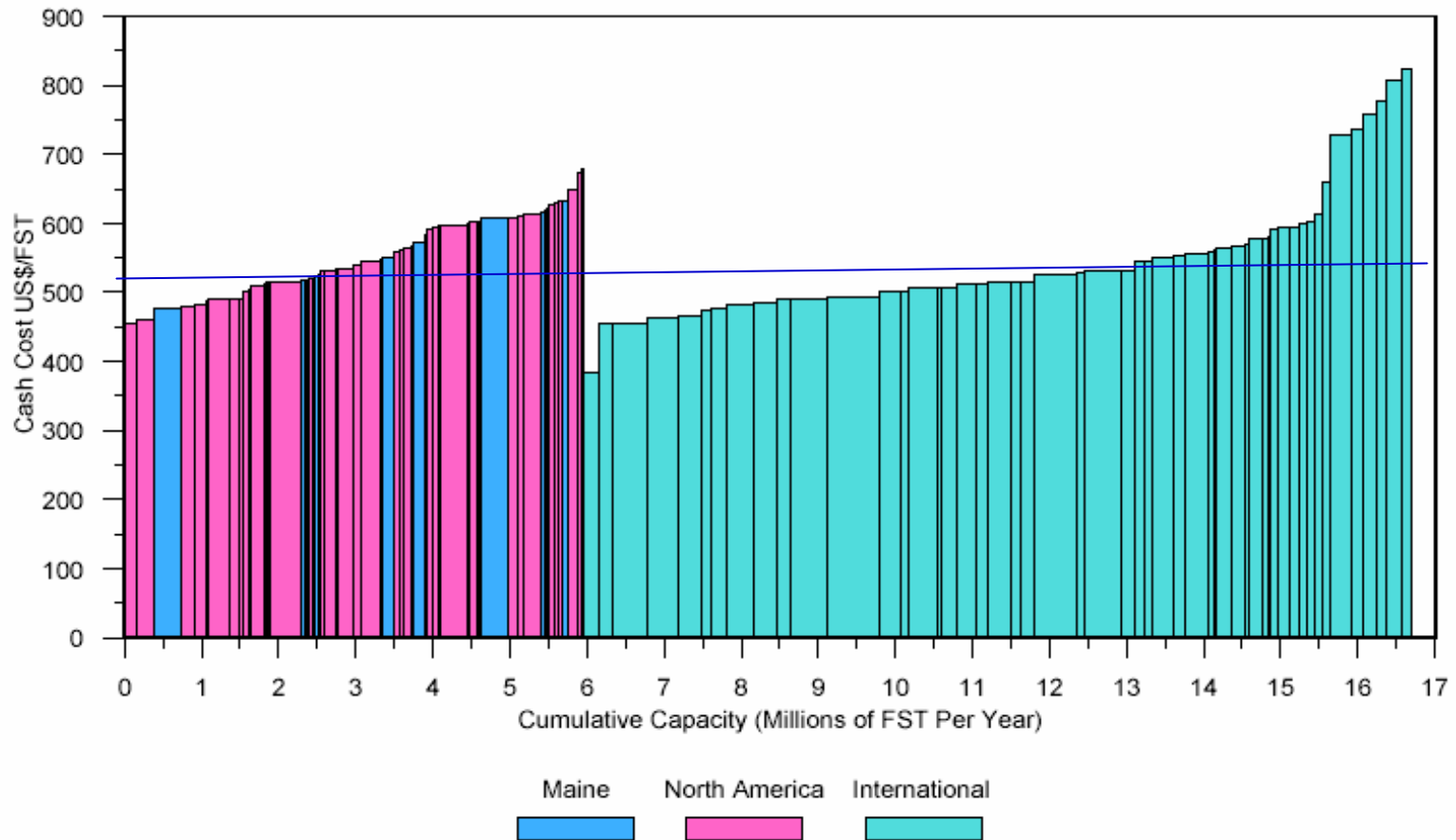


Maine's CGW Competitiveness

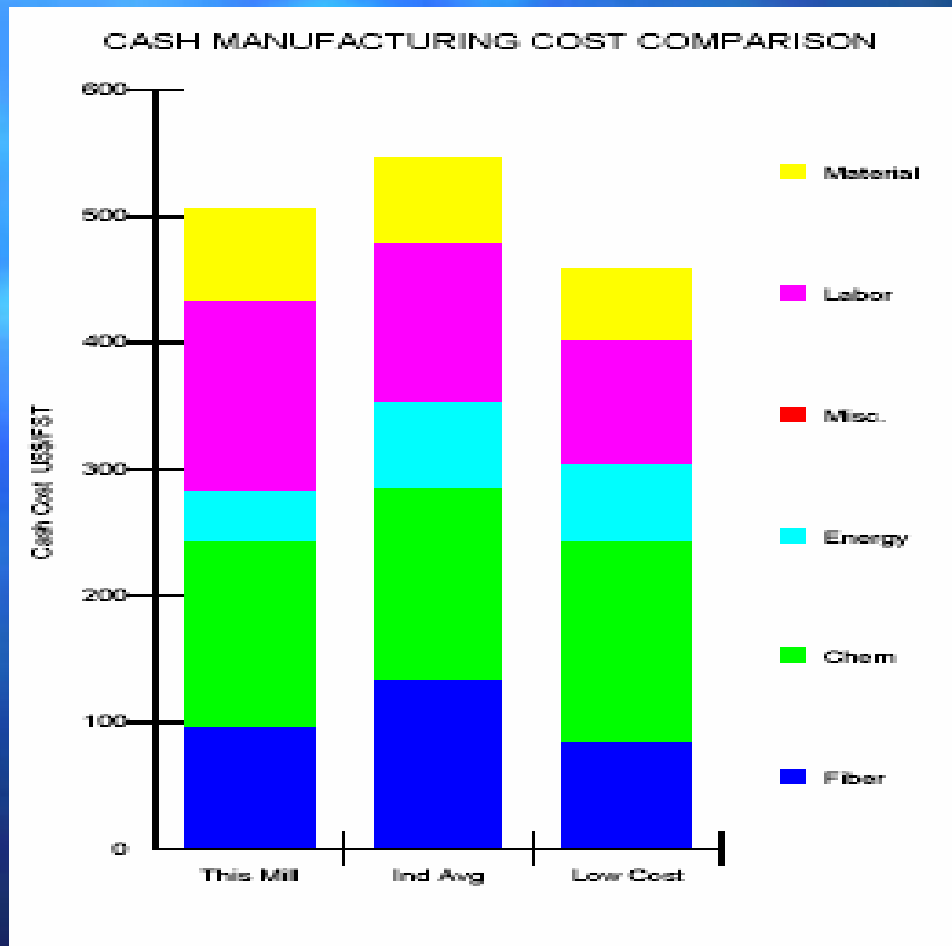
- Product Quality Is Rated as *Good To Very Good*
- Mill Cash Cost Competitiveness = Varied, Ranging Across *1st to 3rd and 4th* Quartiles
- Key Cost Issues Are:
 - ✓ *Labor = Somewhat High – Unit Costs & Efficiency*
 - ✓ *Materials & Chemicals = Competitive*
 - ✓ *Fiber = Competitive to High*
 - ✓ *Energy = Very Competitive*

CGW Cost/Supply Curve

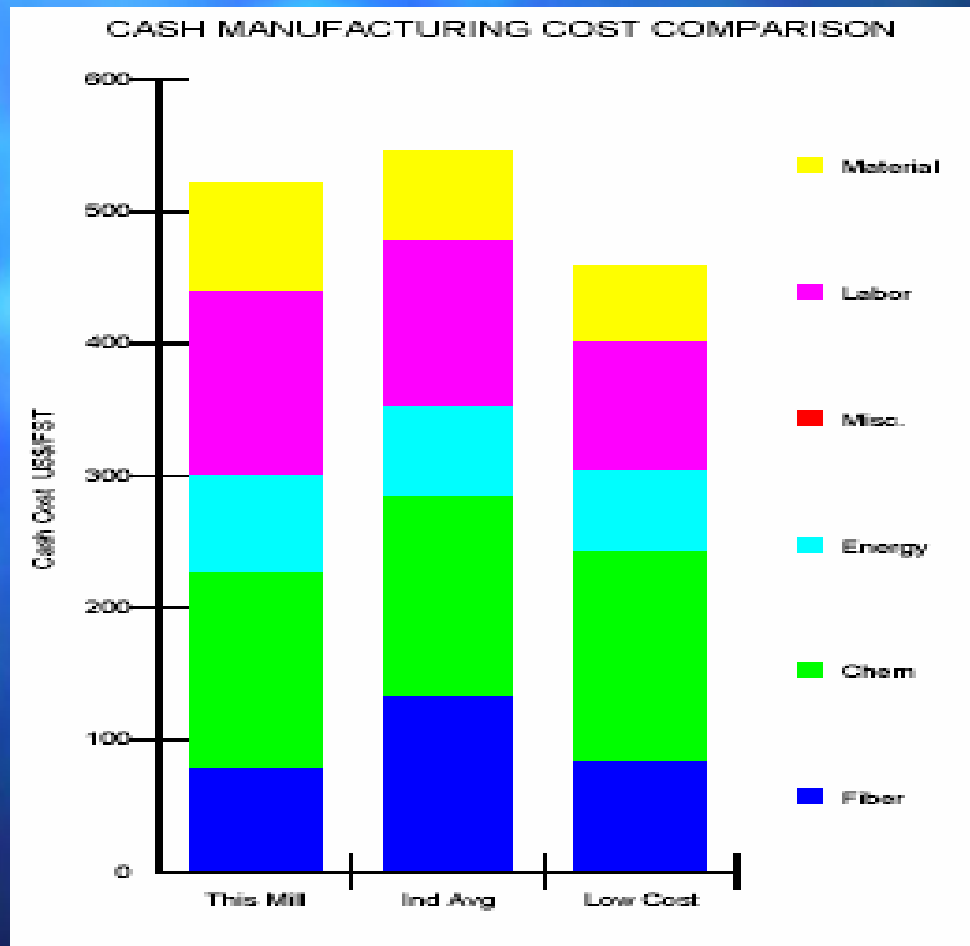
RESULTS
 Q4-2002 CGW AND WCC COST OF SUPPLY
 SORTED BY REGION THEN CASH COST WITH MAINE MILLS INDICATED



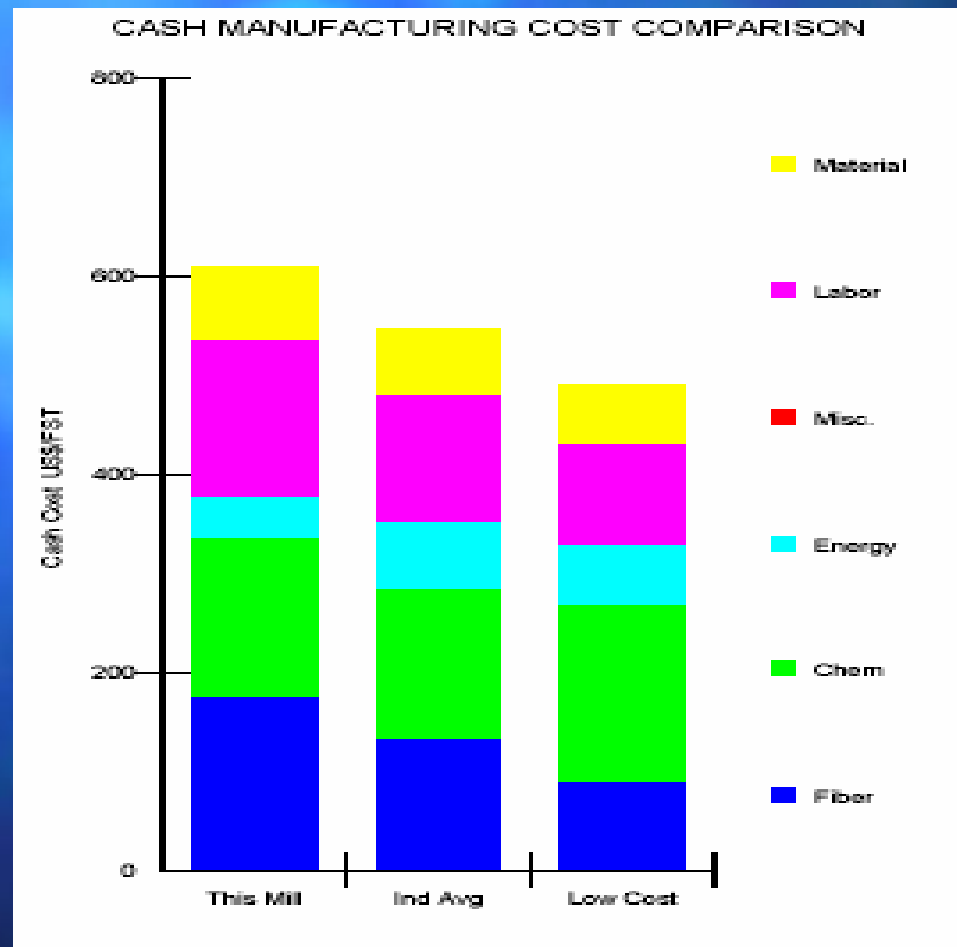
CGW Cost Curve



CGW Cost Curve



LWC Cost Curve

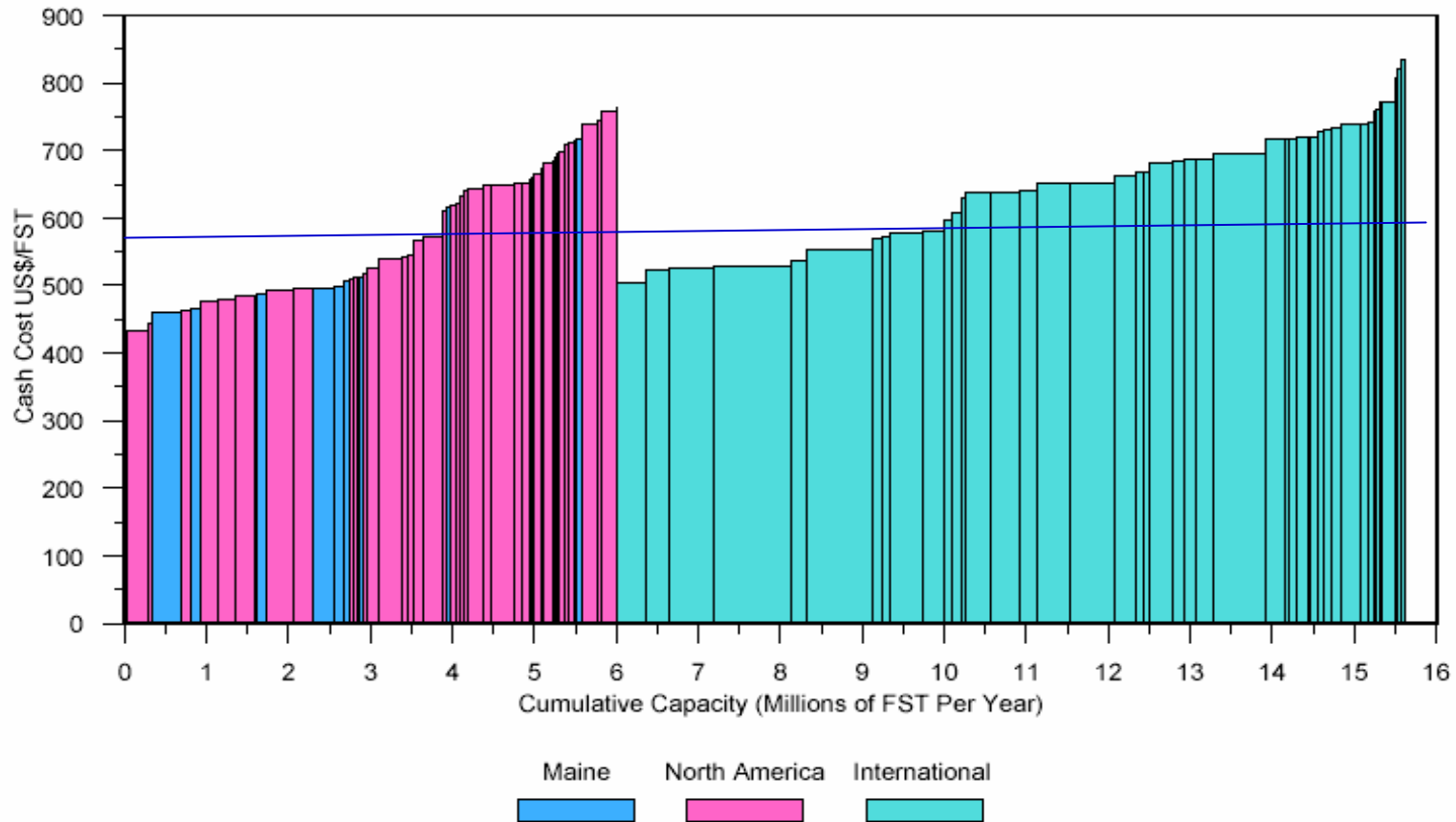


Maine's CFS Competitiveness

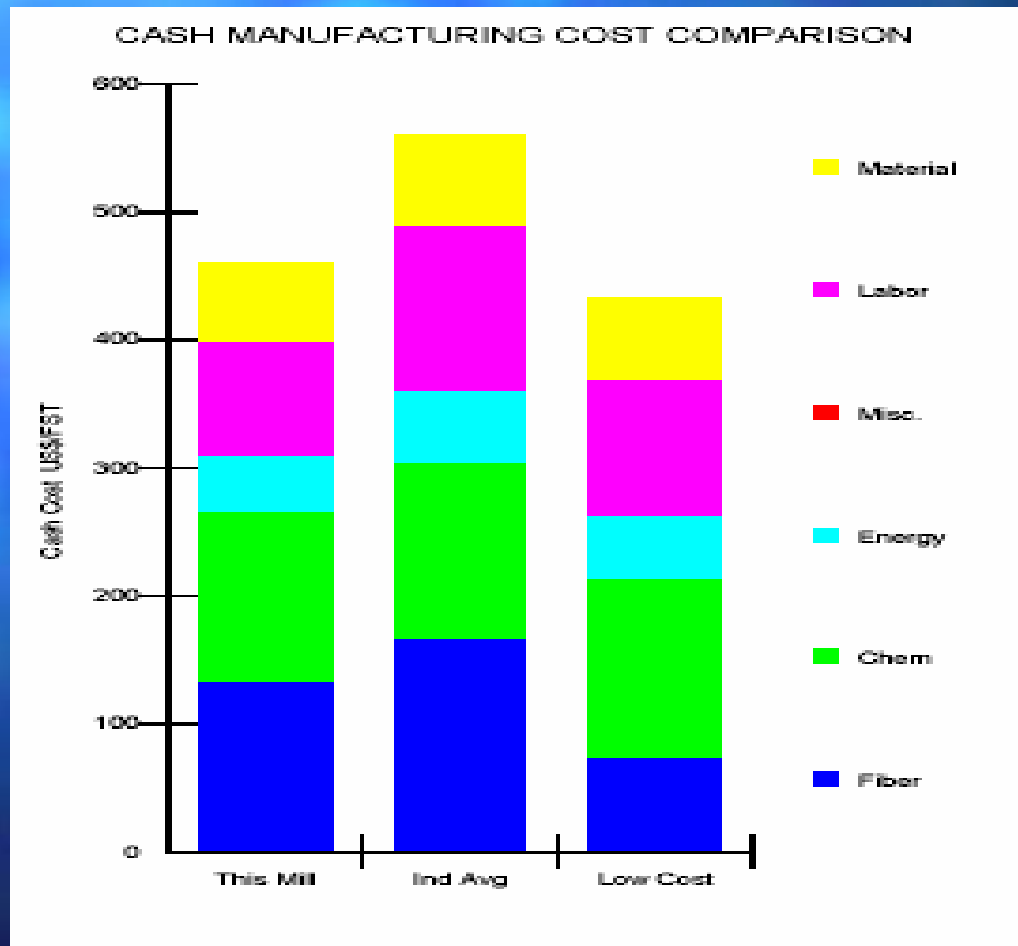
- **Product Quality Is Rated as *Very Good***
- **Mill Cash Cost Competitiveness = Good, Mostly in *1st and 2nd* Quartiles**
- **Key Cost Issues Are:**
 - ✓ ***Labor, Energy, Materials, Chemicals, & Fiber = All Competitive***

CFS Cost/Supply Curve

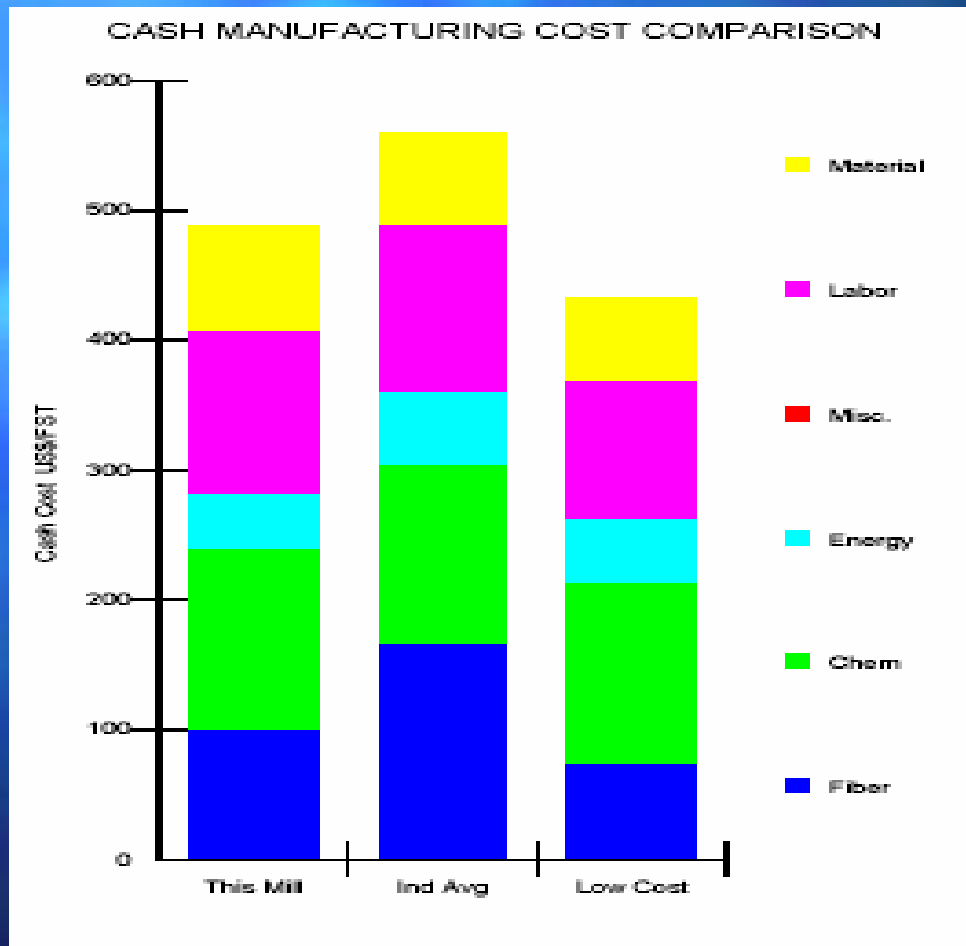
RESULTS
 Q4-2002 CFS AND WFC COST OF SUPPLY
 SORTED BY REGION THEN CASH COST WITH MAINE MILLS INDICATED



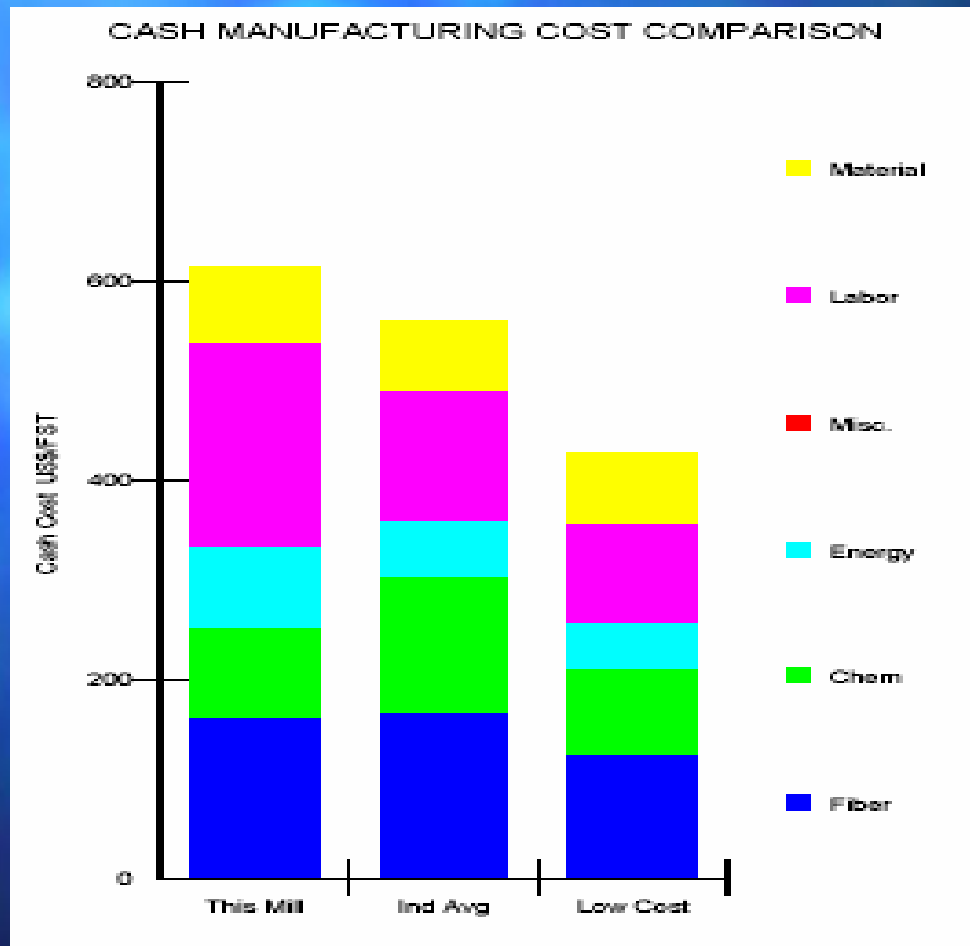
CFS Cost Curve



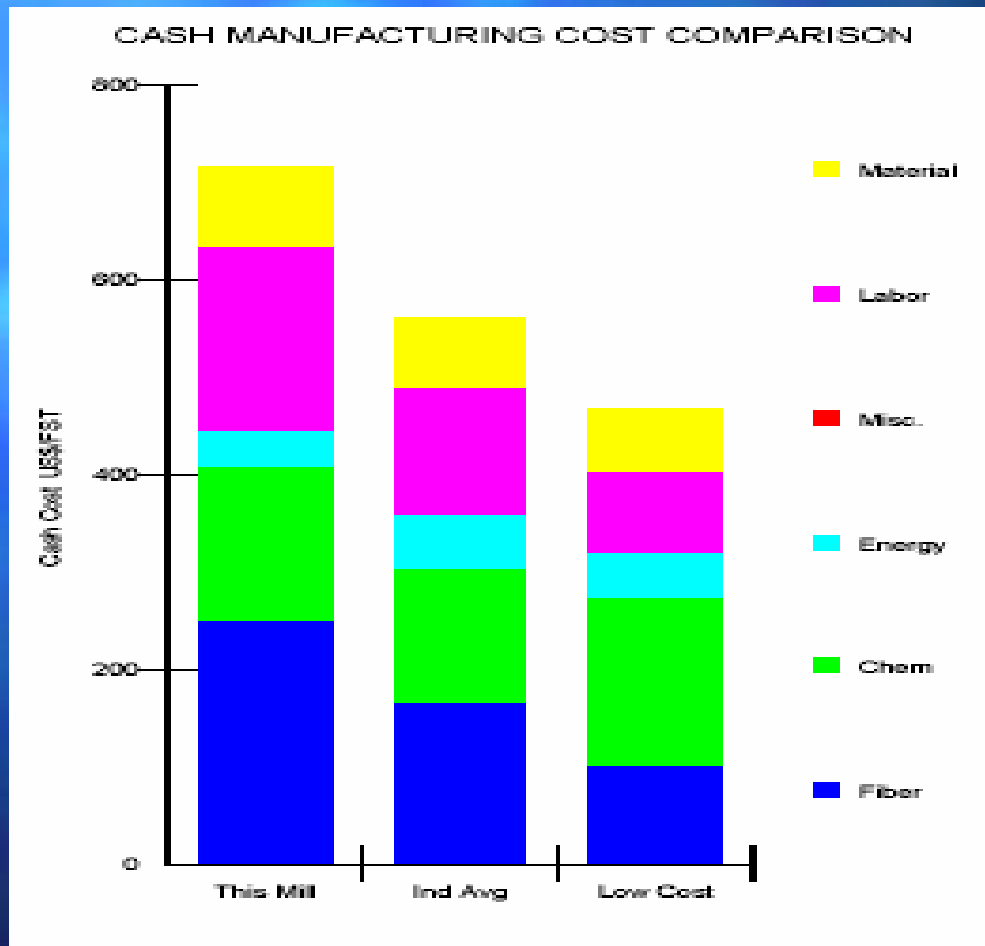
CFS 60# No. 3 & 4 Cost Curve



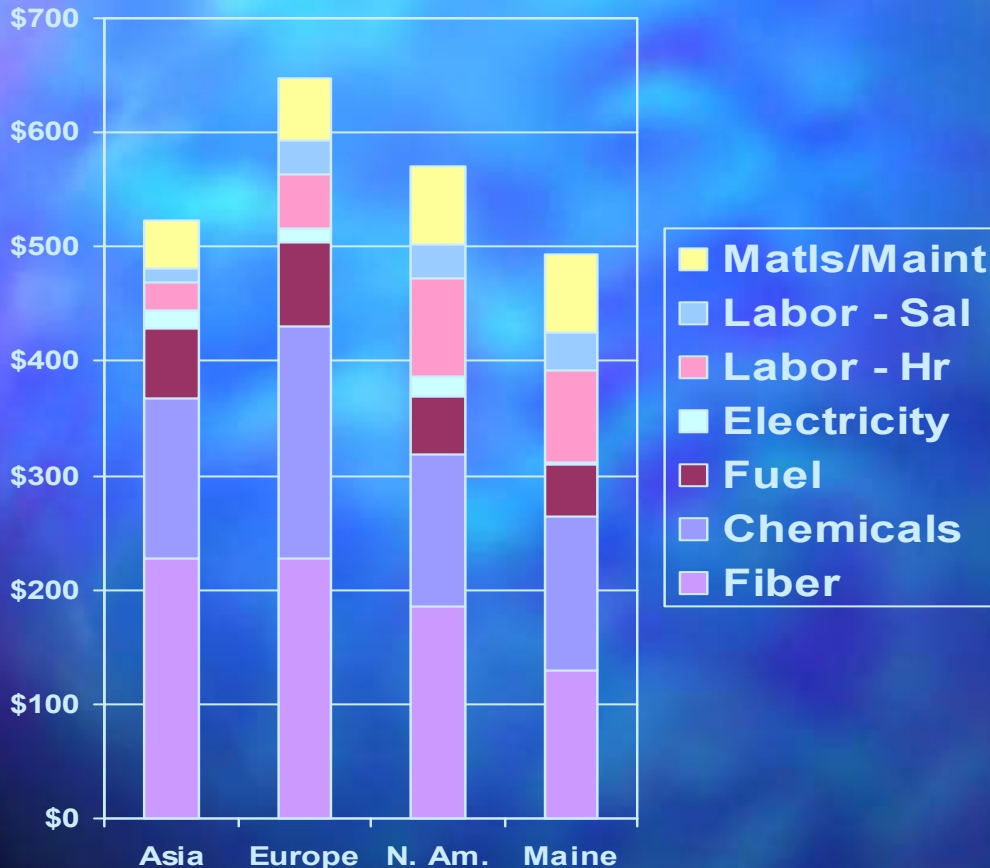
CFS-One Sided Cost Curve



CFS-Premium Cost Curve



Current -- Typical CFS Commodity



- Data = Q2 2003 & USD/ST
- Maine not as well positioned
 - ✓ Labor – Hourly
 - ✓ Materials & Maintenance
- Maine very well positioned
 - ✓ Fiber
 - ✓ Energy
 - ✓ Fuel
 - ✓ Total Cash Cost
- Note -- Asia/Europe Fiber Costs = Purchased Pulp Driven and Imported Chips for Asia

Cost Ranges	405-650	525-850	460-880	485-505
Product	105 gsm	115 gsm	60 lb #3	60 lb #3

So -- Where Can We Go?

- **Maine Is Blessed With Tremendous Potential . . .**
 - ✓ *Abundant Natural Resources*
 - ✓ *Wonderful Logistics Infrastructure*
 - ✓ *Superb Location To Largest Global Market*
 - ✓ *Very Experienced & Motivated Work Force*
 - ✓ *Substantial Dependency on P&P Industry*
 - ✓ *Renewed Attention of Political, Labor & Industry Leaders*
 - ✓ *Great Need of Local Communities To Rally*
- **There Are Great Opportunities To Enhance The Competitive Position of Maine's Pulp & Paper Mills For The Right Grades**
- **However --**
 - ✓ *This Will Not Be Easy*
 - ✓ *It Will Require The Combined Attention of Government, Labor & Industry Working Closely Together*
 - ✓ *Many Critical Factors Need Change . . .*

In Essence Then . . .

- **Maine's P&P Industry's Future Has Great Opportunities To Seize -- In Reality -- *It Is In The Hands Of Those That Will Do . . .***
 - ✓ **The Right Things . . .**
 - ✓ **In The Right Way . . .**
 - ✓ **For the Right Products/Grades . . .**
 - ✓ **At The Right Time . . . *And That Time Is Now***
 - ✓ **Or Maybe Never. . . *Choose Wisely With Sense of Urgency* – Your Future is At Stake!**

And Remember

In Spite Of The Current State of Affairs
For Maine's P&P Industry -- As that
Famous Arm Chair Philosopher *Ziggy*
Once Said



*“You can Complain Because
Roses have Thorns, or you can
Rejoice Because Thorns have
Roses”*

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