

Creating forest sector solutions

www.fpinnovations.ca





One vision. **Global competitiveness.**

Jennifer Rice
NEW VALUE FOR A
CHANGING MARKETPLACE



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Marketing Community Forest Wood

#1 Understand your fibre

- Volumes
- Quality
- What markets and products can this fibre serve?

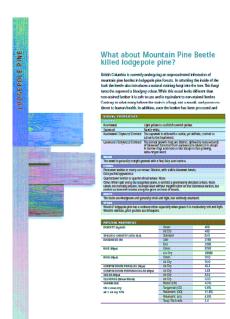


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Species Factsheets







dried the fungi is killed and will not progress further. Mechanical tests of blue stained lodgepole pine confirm that the fungi do not reduce the strength values of the wood (MOE and MOR).

SFF lumber is seasoned uniformly in day kilns to a mointune content of 19% or less. Siki dying juli hilbs routual attaining of the wood, improves its strength and stiffness, enhances its appearance and increases its resistance to decay and attack by invests.

ropidly with in with good may	nali dimansional involvent an History qualities (I turns, plane	s well known for its working properties. The wood shies dilata tendency to check, it is relatively easy to work, a and shapes well and can be seeded to a smooth friesh, scraw helding shilling and takes a good finish.
PROCESS	PERFORMANCE	COMMENTS
Rating	Excellent planing quality	Recommended planer settings, XV hook angle and 8, 12, or 16 kmpl (knife made per lock).
Timing	Modern Indian surface quality	Communications to a set grain
Sawing	Easy to work with 100's	Rosin equilation can economics expansely affect sweing propurate.
Boring	Miduri.	Medium being quality with both brad and single twist bits.
Martising	Good	Good montising quality when using a hollow child montax. Common montaing defects splintering on the out-going side of the montax and dustred grain holde the montax.
Shaping	Good shaping quality.	Common shaping duhuts in the color of troquercy: spiraletes at the connect much and gain, fairly spira, rabad gains, and form gain. Recommendad: the use of a counter pace for and gain shaping.
Verseiting	Good	Slight fandarey to split during drying
Sanding	Good	000000000000000000000000000000000000000
PASTERING		
Screwing	Moderate to poor holding.	Average strew retention: 4351b
Nating	Moderate to poor helding.	Average sali retaction: 132/116/65 lb (targerstallande Word grain).
Gluing	Lary	
Staining	Eury	Surface is smooth with only two topicests. Desk stain produces wild grain, but a wash cost sould even cet the colour Recommended. Ight and result states.
Painting	Average to good paint holding ability	
Lacquering	Good	Forfermed wall in the tape test, i) a, small fields of the counting were obtained along edger and at intersections of catal and is the publicit set. (i.e. average streets of 30 leg/ors?).
Waxing	Gred	Bost results are obtained when using light coloured words (e.g. Mallow Pine)



Species Factsheets

Commercial Availability

Lodgepole pine is produced predominantly as S.P.F in structural guades according to National Lumber Guades Authority (NLGS) rotes for dimension lumber Select Southaral, 42 and better, and stud guades are the most common grades produced. Specially in-house grades Lamatock, and export grades are also available. Lodgepole pine is the largest component of the SPF species mix that is available responsible.

Appearance grades are also produced according to NLGA rules. Clears, shop lumber, and moulding stock are most common, though there are many potential appearance grades that can be produced.

 Marketed as structural furnier in the S-P-F (Sprice-Pine-Pin) species mix. SFF includes lodgepole pine, white sprice, Engelmann sprice, red sprice, black sprice, jack pine, balls in Fig. and alpine fit.

For more information on the availability of lodgpole pine and SFF products,

 \mathbb{R}_{I}

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Comp.

Data for this includes has been consided by Emissian Canada Comp. None bisweet and oriented according to comp.

#2 What markets can your fibre serve?

Sector Factsheets



Sector Overview

In 2004 close to 90 million doors were demanded in the US. Residential demand makes up the majority of the door market, accounting for 79 million units in 2004.

Wood holds a 13.9% market share for residential entity doors and a 8%% market share for residential interior doors. However, there are two common but distinctly different types of road doors used. The risit and ris does it a sold wood cost own faint party use of solwoods. Health doors contain much less rood and entite a wood veneer than most other market plants and imported species. Exercise, the test less and risk over readment does nhould be the min focus for notivered producers. But doors do, however, are inferently inferenced for rather terms of the residence of the residen

Canada's combined wood window and door sector shipped C\$1.6 billion (U.S.\$1 billion) in 2002. Approximately 25 to 30% of Canadan shipments are exported to the U.S. The combined U.S. Industry had shipments worth U.S. \$10.9 billion in the same year.

Material Use

	or Coastru	
н	(million)	is fille and Rai (million)
RESIDES	TIME	
Emiry	0	2
Interior	55.8	4.9
Stead	56.5	6.9
NON-RE	SIDENTIAL	
Entry	0	0.2
Interior	3	0.2
Total	3	0.4

	UNITS (MILLION)	MARKET SI
DITEY DOORS	3	
Wood	2	13.8%
Steel	10	69.0%
Fibroglass	2.5	17.2%
BET \$2100 B DO 01	is	
Wood	61.7	\$6.0%
Other	2.6	4.0%
Pota!	78.8	

	UNITS (MILLION)	MARKET SHAR
ENTRY DOG	WG .	
Wood	0.2	63%
Metal	2.9	50.6%
Other	0.1	3.1%
INTERIOR	oors	
Wood	3.2	41.0%
Metal	4	51.3%
Other	0.6	7.7%
Total	11	



Sector Factsheets



Wood Use

SPECIES	EXTERIOR	INTERIOR	
Douglas-fir and Hamlook	53%	12%	
Ponderosa Pina		13	
Radiata Pine	- 5	35	
Other Pines	1	9	
Other Softwoods	1	0	
Hardwoods	31	31	
Total	100%	100%	

Grades and Components

Lumber grades typically vary based on the end use of the finished door. If components are being cut in house from humber a combination of dear, Shop 1, Shop 2, and Shop 3 can be used to cut the necessity taxes to meet the range of finished product sizes. Many tide and rad doors are venered. This allows for lover cost tinger-pointed core material to be used. Bush pand doors use fining-pointed launer from cost could be considered from the cost of t

All material must be dried to 6 to 12% moisture content, based on client specifications, and

Window and door manufacturers outsource an average 26% of total material input to component manufacturers. The share of component outsourcing is higher for U.S. window and door producers than for Canadian producers (24% and 18%, respectively)

COMPARATIVE SP	ECIES' PROPERTIES				
		POHDEROSA PINE	RADIATA PINE	DOUGLAS-FIR	HEHLOC
Density (trg int)	Grees	354	421	451	420
- 200	Air Dry	421	481.6	457	429
Specific Gravity	44	0.39	1.42	1.45	0.42
Hadres (N)	Sida	2641	2100	2331	2740
	End	3361	3311	4121	4410
MICE (MPs)	Green	7791	\$100	11188	10200
	Air Dry	9518	10200	13511	12300
MOR (MPs)	Grees	39.3	42.1	52.0	48.0
	Air Dry	73.3	80.7	88.6	81.1
Shrinkage 00 = own dry	Radial (CC)	46%	3.4%	4.3%	5.4%
	Tangantial (00)	5.9%	6.4%	7.4%	8.5%
sit = sir day 12%	Volumatric (00)	10.5%	10.7%	11.9%	13.0%
	Malagnately India	£ 196.	nde	7.0%	0.100

Terminology

DOOR DESIGN		
Flush door	Stressed skin-construction consisting of a core, stiles, rails, edge branding, and two face panels. Flash doors can be solid or hollow core.	
Side & sall door	Door with several panels, intempersed with horizontal strips (rais) and/or vertical strips (stilles) with the result being a three-dimensional appearance	
French door Door condisting of games of glass segmented by vertical and horizontal fra		
Parto door	Gazed exterior door that may either be tinged or sliding	
Lo awar door	Door with a series of size, usually amanged horizontally and fastened between vertical structural places.	
Esterior entrance door	Wood activities entracte doors are commonly of sittle A sail construction. As extended door must be finished so that it resists the elements and manufactured of materials that are weather resistant.	
South WOM		
CONSTAL DOOR GRA	ous	
COADE DO	KRIPTION	

Stath-Grade	lumber must be grain and colors markhad, and be clear of defects that affect the appearance of the door. Sight discoloration (harmwood) is advised, except no bise stain is advised. No repair plitch podding best productor to said spacies.
Select Grade	Lumber for stiles, mails, panels, and multime shall be grain and colour matched, and shall be clear of delate that affect the appearance of the doc, coregi that not many than one well repaired pitch or back pocket par door face maderium 4° is length-may be included. Slight decide station (heatmend is acceptable, coregin or blast station. No boar picthes.
Standard Grade	Jumber shall be grain and colour matched with 50% of the door face allowing the grain, Well applied plath and best pockets to a materia in of 2 per door face are allowed, to a maximum of 4". Sight discolouration is allowed (heartwood). Sight blue stain to 19% of the obor face is acceptable No book patches.
Point Grata	furnitor shall be of any crain and colour Mattels natifies allowed to sensimility and bush negleck. All

Associations and Standards

ASSOCIATIONS	
Canadian Window and Door Manufacturers Association	wasecwire.co
Window and Coor Manufacturers Association	sea acostra com
Association of Military & Distributors	sweet and sets com
Whod Components Manufacturers Association	www.ewcodcomponests.org

Standards

There is no single binding performance standard for wood windows and doors in Canada and the U.S.: thus all standards are voluntary. The weight and importance of standards stems from their inclusion in building codes and architecture plans.

Voluntary standards in Canada reside with CSA international. In the U.S. the WDMA administers a set of voluntary standards and test methods.

Wood doors come in three-architectural performance classes: standard duty, heavy duty and extra heavy duty. There are two appearance grades, the higher of which requires no wood defects.

Sector Factsheets





Hemlock

- Structural Lumber
 - US Dimension
 - Japan Post and Beam





Hemlock

- · Boards and shop lumber
 - Low pitch, clears, colour
 - Windows, Doors, Mouldings









Red Cedar



Shakes Shingles and Siding







Red Cedar

• Decks, landscaping, and fences



MPB Lodgepole Pine

Structural Lumber







MPB Lodgepole Pine

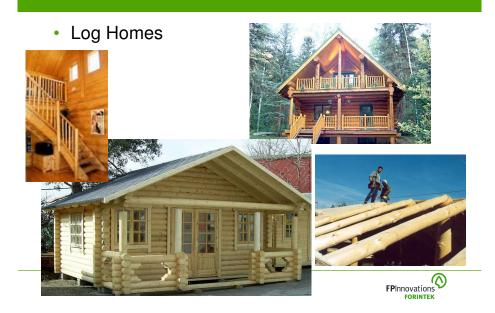
MPB pine treats better!







MPB Lodgepole Pine



MPB Lodgepole Pine

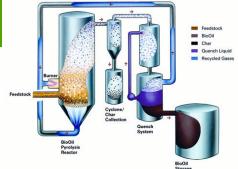


MPB Lodgepole Pine

• Energy?











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#3 Understand your capital

Existing capacity





\$\$\$ to invest



Human capital



#4 Understand your (potential) customers











#5 Understand your competition

- Same fibre
- Different fibre
- Different material
- Different places to spend your money!

#6 What is your unique selling proposition?

Forest certification





• Community forest branding







Partnerships and trade





Establishing the Brand

- Brand: a name, term, symbol, or any other unique element of a product, which identifies one firm's product(s) and sets them apart from the competition
 - It is a relationship, a promise
- Successful branding is about promoting your strengths "brand values"
- You also need to match these brand values to your customers' requirements
- Consistency of the message is important



Supporting the Brand

- Product and Product Lines
- Quality control
- Service
- Quantity and continuity of supply



This is a process of narrowing in on your target...

- Select several product ideas to pursue
- Assess products for overall fit
- Discard and/or refine ideas
- Move to more extensive business planning

Keep in mind....

- Product vs. product line
- Need to find a home for all fibre in your woodpile
- When do you further process fibre and when do you sell it?
- What processes can you outsource to allow to enter a market or to grow?
- · How can you spread out your risk?





Species

 http://www.bcforestinformation.com/ProductDi rectory/default.aspx



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