BRITISH COLUMBIA DOUGLAS FIR.

CORRESPONDENCE being carried on in the columns of the Timber Trades Journal, of London, Eng., brings out some strong points favorable to the Douglas fir of British Columbia. A writer from Virginia would give a larger meed of praise to the pine of his state, but an answer comes from A. C. McDonald, of Victoria, B. C., pointing out that the largest ship building firms on the Clyde give their preference to the "suitability of the Douglas fir lumber for ship building purposes." Strength is given to this communication when it is remembered that the United States Navy at Wilmington, Del., have used lumber from Burrard Inlet for supply purposes in preference to that from their own country. Considerable quantities of British Columbia timber have also been used by the Montreal Harbor Board in their operations of deepening the canals of the St. Lawrence. W. J. Stevens, another ship builder, confirms all that is said by these others as to the superiority of Douglas fir, where durability is desired.

WHY PULLEYS RUN UNSTEADY.

CENTRIFUGAL force has less to do with making a pulley run unsteady than the mere tendency it has of trying to get where it can rotate about its own centre of gravity. A wheel is generally looked upon as so much weight, and, if held off its centre, must go switching about like a heavy stone in a short arm sling, tending to pull the machinery to pieces. This may be well enough for a start, while the wheel is getting up to

speed, but the time soon comes when the wheel will turn to its own centre and let the shaft swing for a while. Just notice how the juggler can seize a dish of any kind, as a dinner plate, for instance, and throw it up with a whirling motion, and while in the air, catch it on the end of a stick and cause it to rotate with ease. At first the plate is switched about by holding it off to one side of centre, but as the speed increases, it gradually brings the point of support near the centre, till at last it is allowed to spin on its own centre of gravity. In this case all the driving power, supporting force and the resistance of the load were brought to one single point, with nothing to react upon but the inertia of the plate.

THE POWER OF FLOWING STREAMS.

COMMON opinion respecting the energy or power of flowing streams is nearly always exaggerated, and greatly so. A current of large area conveys an idea of an almost irresistible force, when in fact it represents

Velocity of Steam.		Equivalent Head.		Pressure.	Total Energy.
Miles per Hour.	Feet per Second.	Feet.	Inches.	Pounds per Square Inch.	H. P. per Square ft. Sec. Area.
1 2 3 4 5	1.467 2.933 4.4 5.867 7.333 8.8	0.033 0.134 0.300 0.534 0.834 1.200	0.43 1.62 3.69 6.42 10.07 14.36	2 t E.4 18.9 33.0 52.5 75.6	0.0055 0.0445 0.15 3.355 0.694

but a trifling power. The following table, taken from the Mechanical World, will serve to show how little work is represented by the current of streams. The force that may be utilized, or the head seen in the third and fourth columns, is very slight, and is the height which the water will rise when obstructed. This depends, in a measure, on the shape of the obstruction faces. A plain radial current wheel will give not more than two-thirds the work that a well made Ponceled wheel will, because the water will rise higher on the curved floats of the latter named wheel.

POWER OF MILL STREAMS AND FLUMES.

THE following table shows the number of pounds of water that will pass through an orifice an inch square under various heads from one to ten feet; also the foot pounds of work there are in those quantities of water the net foot pounds per minute utilized by a wheel with a rating of 80 per cent., and the horse-power developed by the wheel:

Head	per minute	Lbs. per min. (62½ lbs. = 1 cubic foot.	Foot lbs. per minute (gross.)	Net foot lbs. per min. (80 per cent. realized).	(80 per cent
1 2 3 4 5 6 7 8	2.1376 3.0272 3.6992 4.2752 4.7808 5.2352 5.6576 6.0480 6.428 6.7648	133-2437 188.6955 230-5835 266.2935 298.0032 326.3275 352.5671 376.992 399.7312 421.6725	133.2437 377.2910 691.7505 1065.1740 1450.0160 1957.9650 2468.5997 3015.936 3597.58c8 4216.725	106.592 301.913 553.400 852.139 1160.013 1566,372 1974.880 2412.749 2878.065 3373.380	.0034120 .009149 .016770 .025822 .035152 .047466 .059845 .073114 .087214

Representative Lumber Manufacturers and Dealers

Parry Sound, Ont. Utterson Parry Sound, Ont. Parry Sound Parry Sou	Booth, J. R. Bronson & Wester Conger Lumber of Parry Sound Lum Muskoka Mill an Office, Arcade, a McPherson, Sche Caldwell, A. & Dyment & Mickle Barrow Bay Lun Blind River Lun Blind River Lun Blyd, Mossom & Burton Bros. Georgian Bay C Hd. office arcade a Carswell, Thistle John B. Smith & Head Office, St Collins Inlet Lun McIntyre, N. & Messon Messon McIntyre, N. & Messon Messon McIntyre, N. & Messon Me	nd Lumber Co co	Lumber, Wholesale and Retail. Saw, Shingle and Lath Mills, Pine, Wholesale W. Pine Lumber, Lath and Bill Stuff, all lengths. Cheese Box Factory, Pine, Spruce, Cedar Sawmill, Pine, Lumber, Hemlock, Hardwoods. Sawmill, Pine, Spruce, Cedar, Hardwoods. Saw, Shingle and Heading Mill, Pine, Cedar Oak, Oak Railway Ties, Paving Blocks. 2 Saw, Sh. and Lath Mis., Pine, Hem., Bl. Birch Lumber, Wholesale and Retail. Lumber, Wholesale and Retail. Pine only. Lumber, Wholesale and Retail. White and Red Pine Lumber, Bill Stuff, Lath and Shingles.	Water, Gang and Band, 450m Water, Gang, Circular, Saw 90m, Shingles 70m, Lath 30m 2 Mills, Water, I Band, 2 Gangs and 3 Circulars. Circular, 3m Steam, Circular, 40m Steam, Circular, 16m Stm., Band, Cir., S. 75m, Sh. 60m Waubaushene mill, stm., 200m; Pt. Severn mill, water, 120m
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Hamilton, Ont		mber Co	Lumber Pine Oak Ash Birch Whol and Day	Steam, 2 Circular, 80m
Hamilton, Ont		A		,
Hamilton, Ont			Saw Shingle and Lath Mill Timber Land	e
Hamilton, Ont Huntsville a			Hemlock, Pine, Lumber, Hardwoods	Steam, Cir., Saw 14m, Sh. 20m
Hamilton, Ont Huntsville a	BRADLEY, MOI	RRIS & REID CO.		
Keewatin, Ont Keewatin		Turnbull	Sawmill, Pine, Spruce, Hemlock, Hardwoods	Steam Circular asm
Keewatin, Ont Keewatin	and Katrine Thomson, Rober	t& Co	Sawmill, Pine, Spruce, Hardwoods	Steam, Circular, 4m
Keewatin Out Keewatin	Dick, Banning 8	£ Co	Sawmill, Pine, Spruce, Hardwoods	Steam, Circular
Lakefield, Ont Lakefield	Lakefold Lumb	er or Mig. Co	Saw, Lath, Sh. and Pl. Mill, Moving Posts, Pine	Water, Band and Circular, 100m
Little Current, Ont Sudbury	However I W &	Cone	Lumber, Wholesale and Retail	
London, Ont London	Gordon, James	Dons		
Longford Mills, Ont Longford	Longford Lumbe	r Co		
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Toronto, Ont Warren, C.F. Cache Bay,	Ont The Imperial Lu	mber Co., Limited.	TPIDE	10- M 1 C. C. C.
Toronto, Ont., Mill:) r.1.6.11	Ont Davidson, Hay	& Co	. W. I me, Lath, Shingles, Din. Timber, Car Sills	Stm, 2 Band, Cir. & Gang, 140m
Stony Lake Lakeneid	S. J. Wilson & C	ю . . 	Pine and Hardwood, Wholesale	Steam, Circular, 15m.
Toronto, Ont Toronto	F. N. Tennant		Lumber Wholesole	
			Lumber, Wholesale	Com
Forente Ont Toronto	W. N. McEachr	en & Co	Lumber, Wholesale	Com.
Toronto Toronto	Del anianta & D.	æ Co		Com.
Toronto, Ont	James McRain P	owden	Ry. and Ship Timber, any required dimensions. 3 Sawmills, Lumber, Barrel Heads	
Wiarton, Ont Wiarton	Miller B. B	.e.u	2 Saumille I umber, any required dimensions.	ggg
Montreal, Que Montreal	Dufresne, O. Ir.	& Frere	Sawmills, Lumber, Barrel Heads Sawmill, Pine, Spruce, Hemlock, Hdwds., Whol.	Stm., Wr., Cir., Port. & Sta., rom
Montreal, Que Montreal	SHEARER & BF	ROWN	Sawmill, Pine, Spruce, Hemlock, Hdwds., Whol. 4 Sawmills, Oak, Ash, Elm, Pine, Hem., Dim	Steam, Circular and Band, 50m
Moodyville, B.C New Westm	inster MOOD VILLE S	AWMILL CO	Sawmills, Oak, Ash, Elm, Pine, Hem., Dim Sawmills, P. Fin, Spruce, Cedar, Hardwoods	Steam, Circular, 20m
rew westminster, D.C. Ivew westm	mister Brunette Sawmi	III Co	Saw and Planing Mills, Sash, Doors and Blinds.	Steam, Gang and Circular
Canterbury, N.B Canterbury	Stn Tames Morrison A	4 Con	Fir, Cedar, Spruce, Hardwoods	_
				Steam, Circular, 38m
South River, Ont South River.	, G.T.R South River Lun	nber Co., Ltd	Pine, Spruce, Birch, Hemlock, Shingles	water, Circular and Gang, 200m
			,, Ditch, Helitock, Guingles	Stm., Cir., 40m, Shingles, 35m, Lath, 15m

Lumbermen desirous of being represented in this Directory can obtain information in regard to rates by communicating with the Publisher.

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