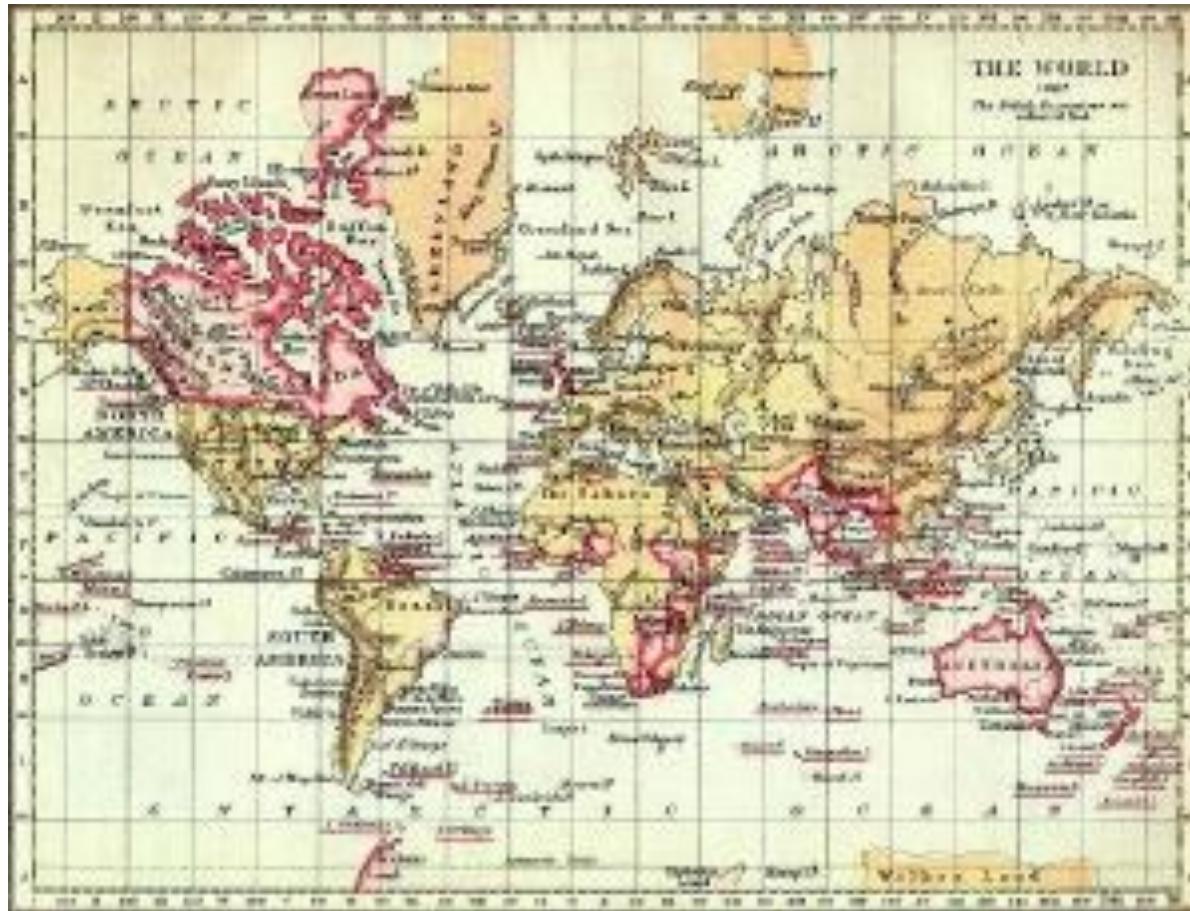


Scottish Brewing and its International links



Scottish Brewing - Introduction

- Brief history of brewing
- The Scottish Brewing Archive
- Scotland's International links
- Dundee breweries
- Education
- Brewing Heritage Scotland



Brief History of Brewing

- Origins – earliest references to beer
 - China
 - Mesopotamia
 - Babylon
 - Ancient Egypt



Beer in Ancient Egypt



Beer



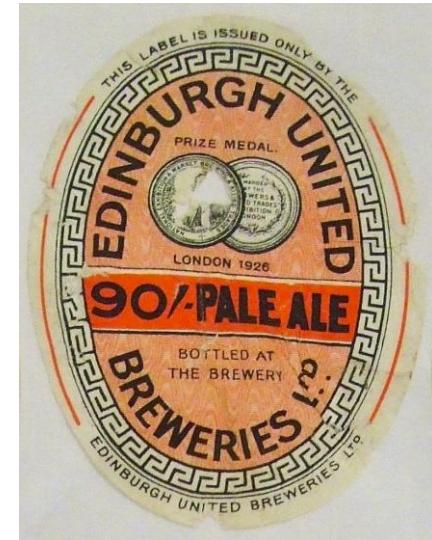
History of Brewing in Scotland

- Beer traced back to Picts
- Monastic period
- Domestic craft
- Commercial Centres
- Brewing – a science



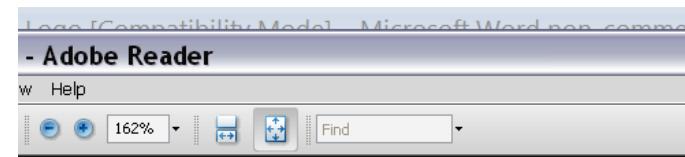
History of Brewing in Scotland

- Beer brands
- Shilling System
- Temperance Movement
- World Wars
- Takeovers and brewery closures
- Today's beer revolution



The Scottish Brewing Archive

- How it began
- Heriot Watt University
- University of Glasgow Archive Services
- Scottish Brewing Archive Association
- Making use of the archive

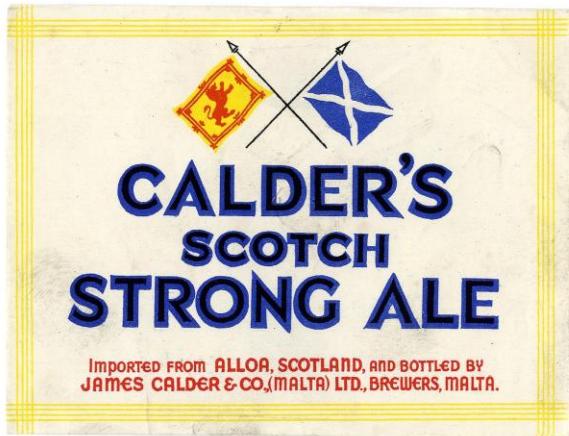
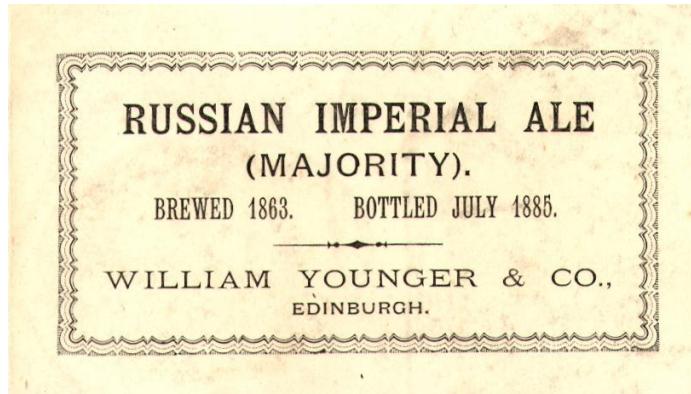


Scotland's beer export trade

Year	'000 Brls	Value £'000	Scotland's % share of UK
1860	40	£145	7.5%
1890	168	£598	33%
1910	140	£483	24.5%

Scotland's beer export trade in %

% of Total	1850	1880	1910
Europe	4%	5%	11%
Africa	4	10	2
Asia	23	22	68
W. Indies	25	14	9
S. America	23	11	2
United States	4	4	-
Canada	3	1	-
Australia	16	33	8



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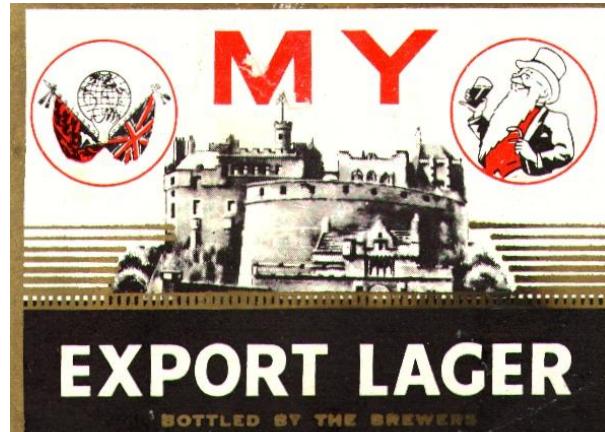
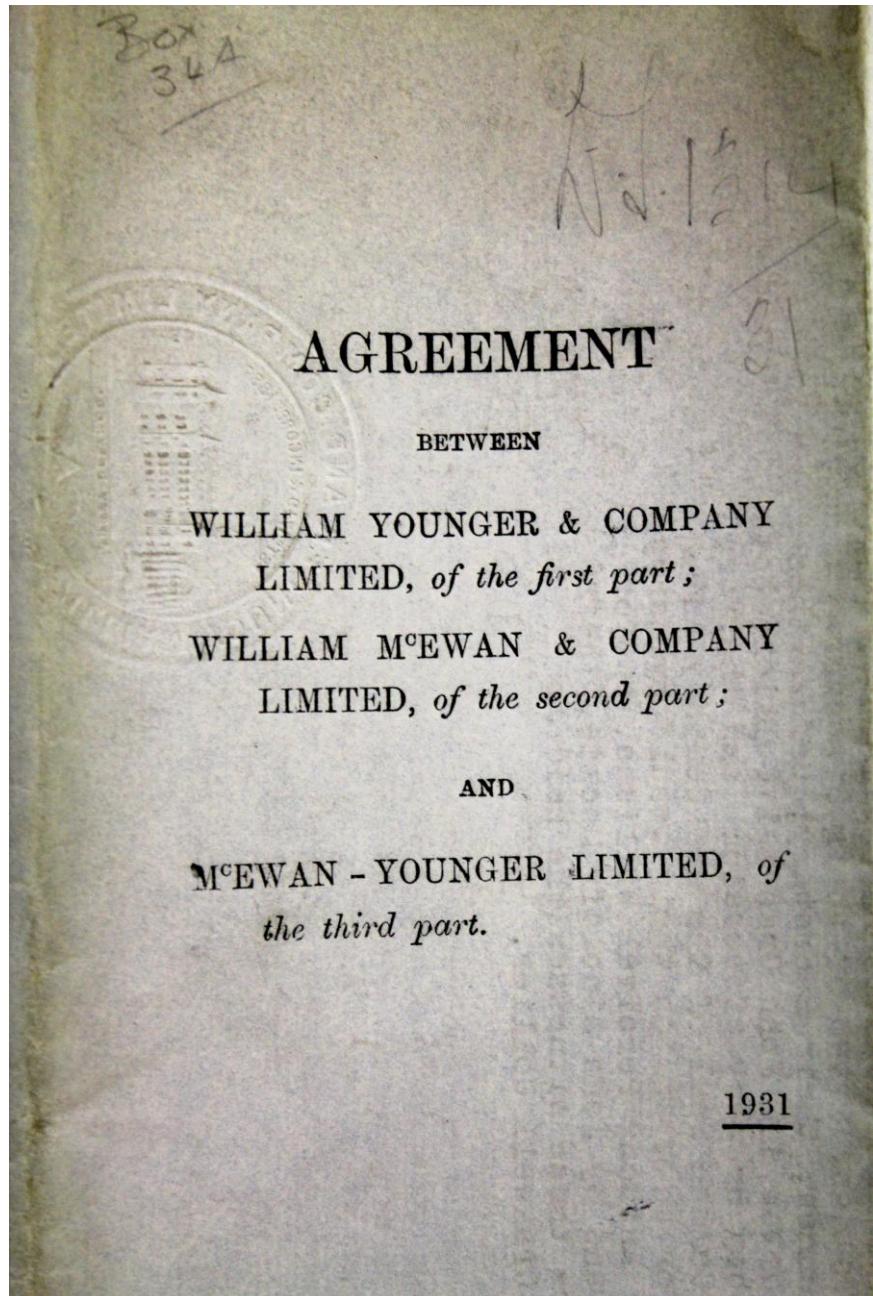
MCEWAN'S
EDINBURGH



Bottled by
THE BREWERS

PALE ALE

BREWERS, EDINBURGH



Season

To	Date	Loading Port	Vessel	Quantity
Bombay	June 29	Glasgow	3.5' City of Carthage	105 Hds. I.P. No 3
			No. 556/559 Brew 154/237y (Pentlands)	6.55
			560/562 { Brew 156/277 (do)	9.52
			563/565 } Brew 156/277 (Pouries)	
			(Filled up & bisulphited about $\frac{1}{2}$ pint measure)	
Durban	July 15	Glasgow	3.5' "Clan Ranald" No. 3	5 Hds. I.P. No 3
			No. 3	5 $\frac{1}{2}$ Bals. I.P. No 3
			No. 566/570 Brew 156/277 (Pouries)	7.18 52
			(139. 160. 205) (304. 329) Brew 44/16/2 (do)	2.18 54
			(4 Hds. 5 vent.)	
			Filled up & bisulphited (2 Bals 2 vents)	
			Hds. from Bonnington & Kildonan from Brewery	
Madras	July 22	Glasgow	3.5' "Clan Macpherson" No. 3	40 Hds. I.P. No 3
			No. 3	10. 52
			No. 571/604 Brew 156. 27. 7 (Pouries Casks)	
			, 605/610 , 160. 4. 8 (do)	
			Filled up & bisulphited	
Fremantle	July 26	London	"Ullock" No. 3	30 Hds. I.P. No 3
			(No. 3)	45. 54
			No. 611/640 Brew 160. 4. 8. - Pouries Casks.	
			Filled up & bisulphited.	

1885. 1886

Dec	B/L	Inscr	Amts	Agents	DB	Flight
June 29	July 5 R.Y.H.		£50	A.m.r.	£14.7.3	20. (Paid) 4 Hds.
						Sept 28.
July 15	July 24 R.Y.H.		£35	A.m.r.	£2.17.5	30. (Paid) mas
						Sept 28.
July 22	July 24 R.Y.H.		£200	Gaga Dinesh	£17.2.	30/ (Paid) Oct 6. 4 Hds.
						10% 14 Hds.
July 27	July 30 R.Y.H.		£150	J. Jersey	£13.6.3	145. (Paid) Nov 5.
						4 Hds.

1539

	East Indian Beer	
Dec 9		
23	Malt 30/-	L 59.10
300715 315	Hops 1/5	22.6.3
35	Farmham 2/-	3.16 -
	Expenses	—
		8
		—
		91.12.3

Liquor Brewed, So

	BREWED. BARRELS.	RACKED. BARRELS.	BOTTLED. HOGSHEADS.	Firki
EXPORT BEER,	3251	3073	1217	
„ STOUT,	891	810	158	
HOME BEER,	906	834		2
„ ALE AND STOUT,	560	524		
LAGER BEER,	709	673	207½	
„ STOUT,			11½	

J. & R. TENNENT'S
PRICES OF MALT LIQUOR FOR EXPORTATION,
FREE ON BOARD AT GLASGOW,
INCLUDING BOTTLES, CASKS AND PACKING.

	BOTTLED LIQUOR, IN GLASS.		BULK LIQUOR. IN WOOD.	
	Quarts.	Pints.	Hhds.	Half Hhds.
	Per Doz.	Per Doz.		
(Bottles Wired, Labeled, and Tinfoiled, in Barrels containing not less than 3 Dozens Quarts and 6 Dozens Pints.)				
East India Pale Ale,.....	6/6	4/6	75/	40/
Strong Ale,.....	6/9	4/8	94/6	50/
Double Strong Ale,.....	7/	5/	110/	57/6
X Porter,.....				
XX Porter, or Brown Stout,.....	6/	4/	72/	38/6
XXX Porter, or Double Brown Stout,	7/	5/	90/	47/6

When, for Bottled Liquor, *Boxes* or *Cases* (instead of Casks) and *Stoneware Bottles* (instead of Glass) are required, an extra charge is made to meet the additional expense of about 6d. per dozen Quarts, and 2d. for Pints, varying according to the actual cost prices of these articles at the time.

The Excise Drawback, in all cases, shall be J. & R. Tennent's property, and charged against the purchaser in the Invoice when the shipment is made through the purchaser's own agent.

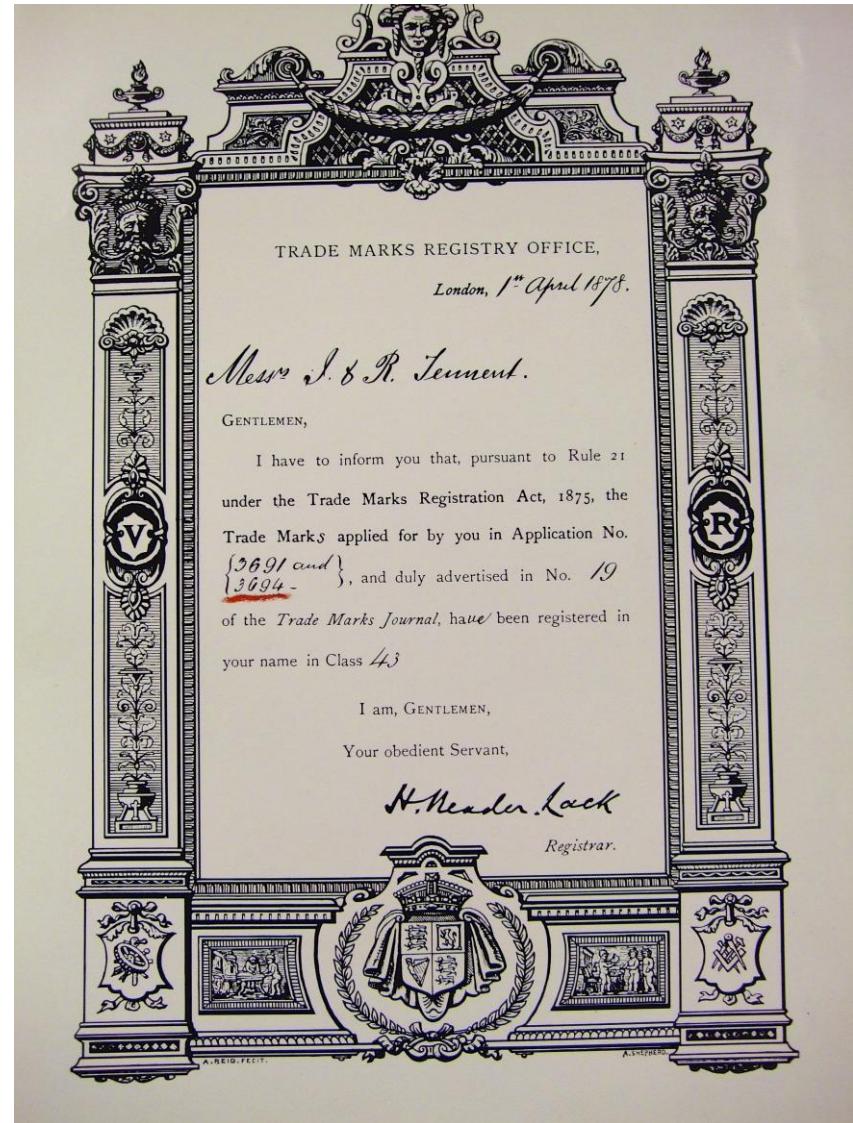
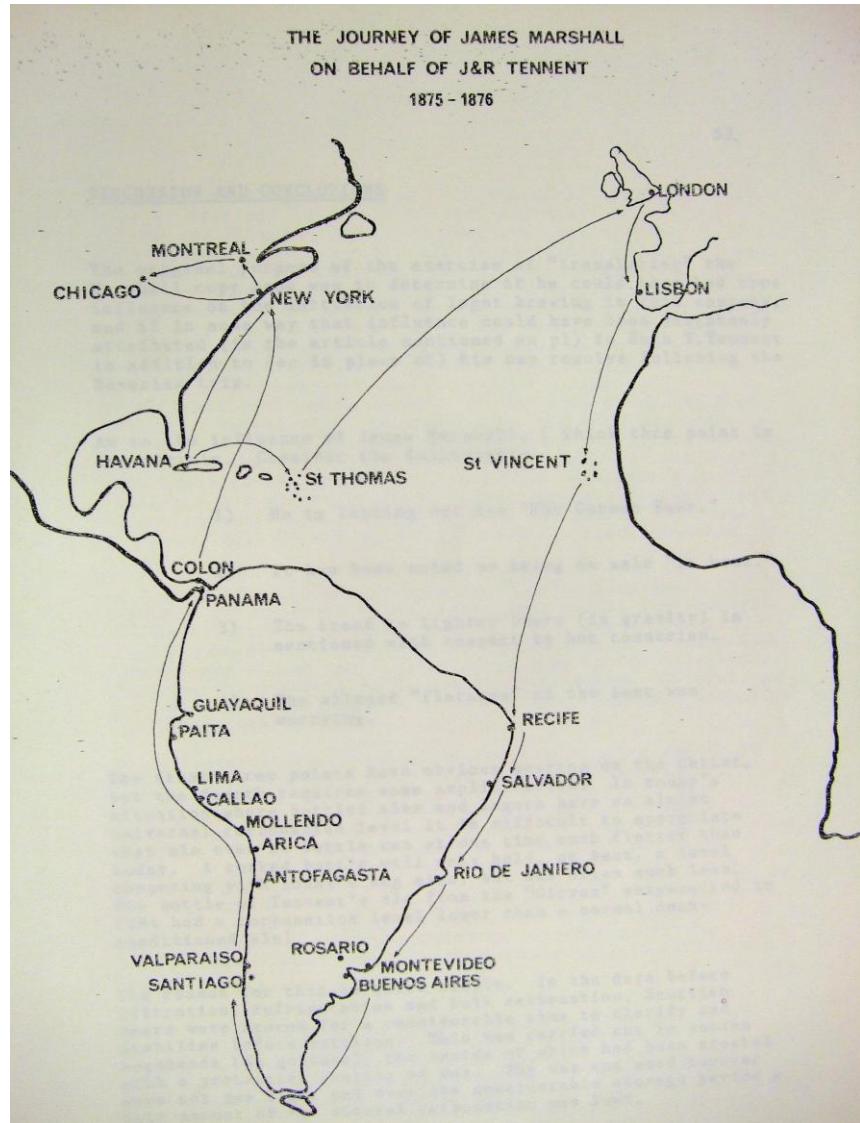
Cash subject to 4 per cent. discount. For the con-

Stocks

21st December 1924

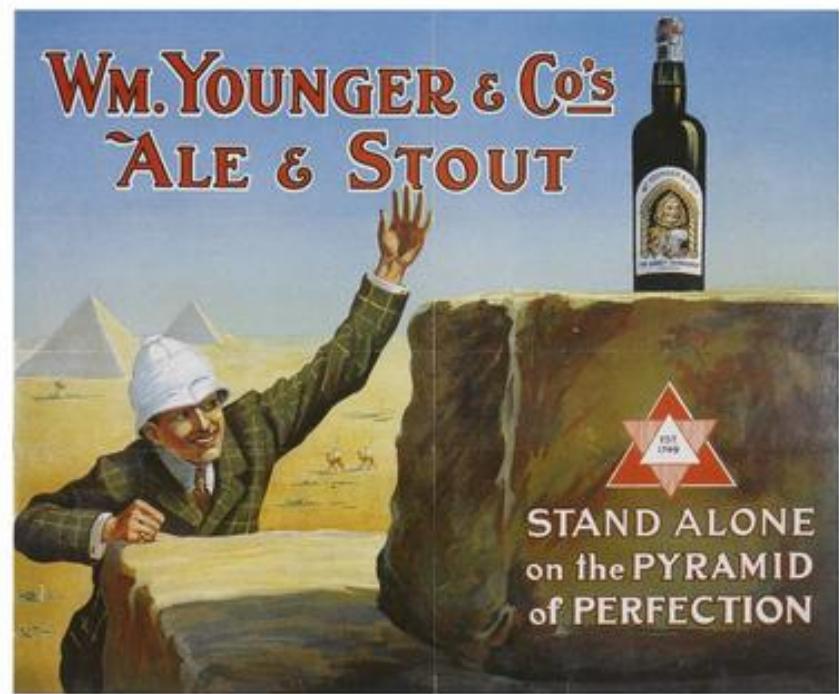
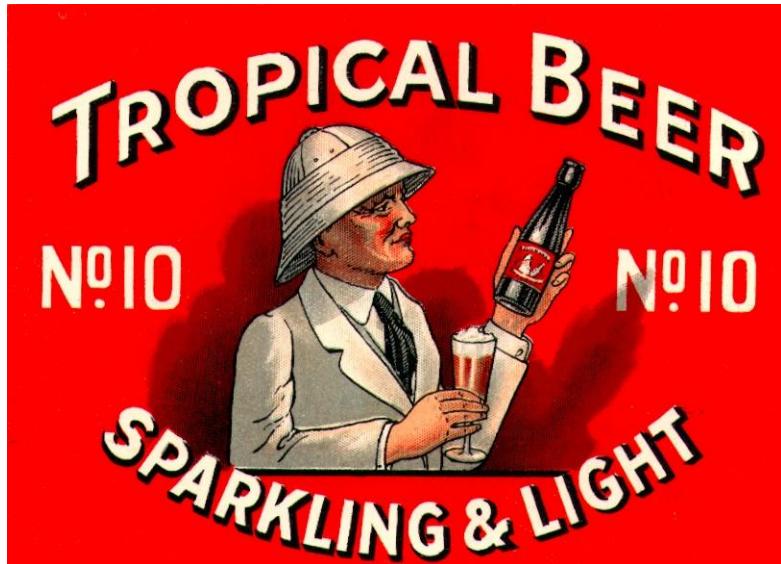
Malt.

DESCRIPTION	SLATEFORD	CRAIGMILLAR	BREWERY	TOTAL	
TUNISIAN	2476		23	2499 4/6	2185 8 6
BENGHAZI	196		21	217 4/6	515 7 6
SOUSSE	983	206		1289 4/6	2674 13 6
AUSTRALIAN	430		2098	2528 5/6	6509 12
CHILIAN	1340		24	1364 66.	4501 4
CALIFORNIAN	2646	983	37	3666 66.	12097 16
MARIBOUT		322		322 67.	1078 14
ROASTED			9	9 75/6	33 19 6
HUSKS				Cwt 5 617 bton 72.	111 1 2 32709 16
	8041	1611	2212	11894	Avrg 54/10

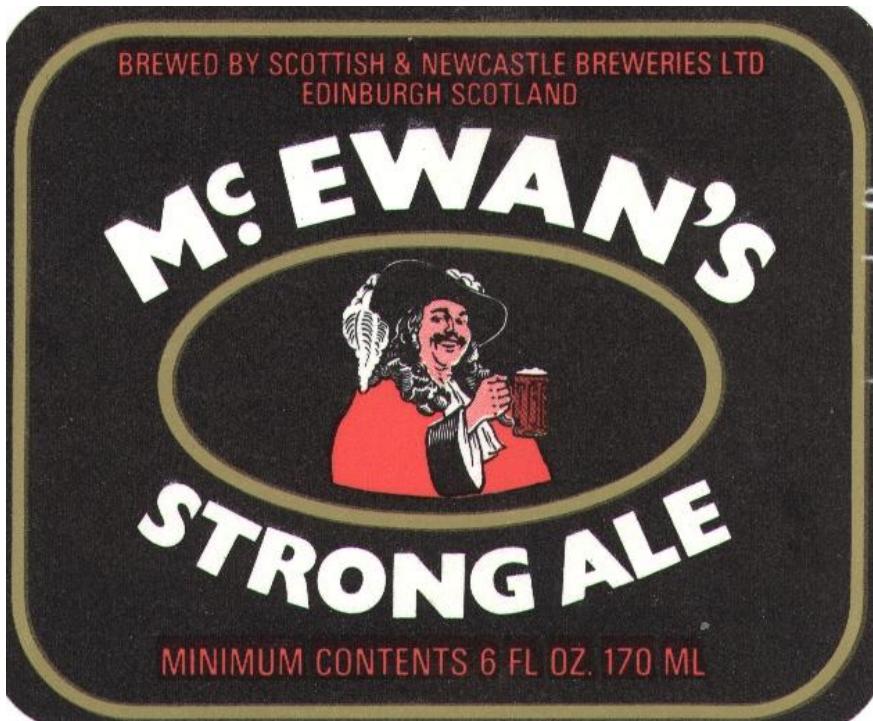




TENNENT



Spot the differences



DALGETY AND COMPANY LIMITED.

R E P O R T O N

Wm. YOUNGER'S "MONK" ALE AGENCY.

The Agency has now been with us for two years and a half, and we regret that we have made but poor progress. The Agency was handed over to us with a large stock of Bulk Ale that had been in Bond for some time, and which we were obliged to rank as unsound. A large stock of old Bottled Beer in both Quarts and Pints, was also on hand. We suggested the advisability of running the bulk ale into the Harbour, as selling it would certainly do the Brand no good. Our suggestion was, however, not acted on, and it was with difficulty that we have eventually worked off this old incubus. We then received several small parcels of bulk - some of which turned out so satisfactorily that we were hopeful of working up the brand once more, and we cabled home for 100 Hhds. These arrived here in December,

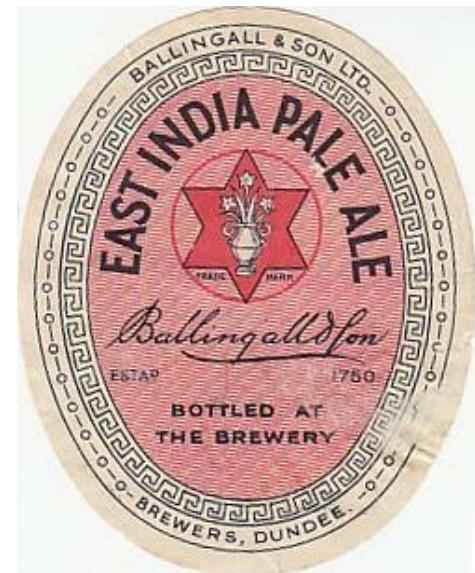
in other terms the quality of the Ale has been sacrificed to obtain this end. We almost, however, incline to recommend some trial shipments of cloudless bottled ale to endeavor to recover the publican's Trade, but some newly bottled old quality should also come out for the private Trade.

We are doing our best to increase the business, but are meeting serious competition from the local Breweries, who are doing a largely increasing business in Colonial Ale - both Bulk and Bottled.

Cleinfiffins
MERCHANDISE DEPT

Dundee breweries

- In 1896 – 14 breweries
- No. employed – 55
- John Neave & Sons (1890-1909)
- William Halley Brown (1885 1943)
- Ballingall & Son (1844-1968)



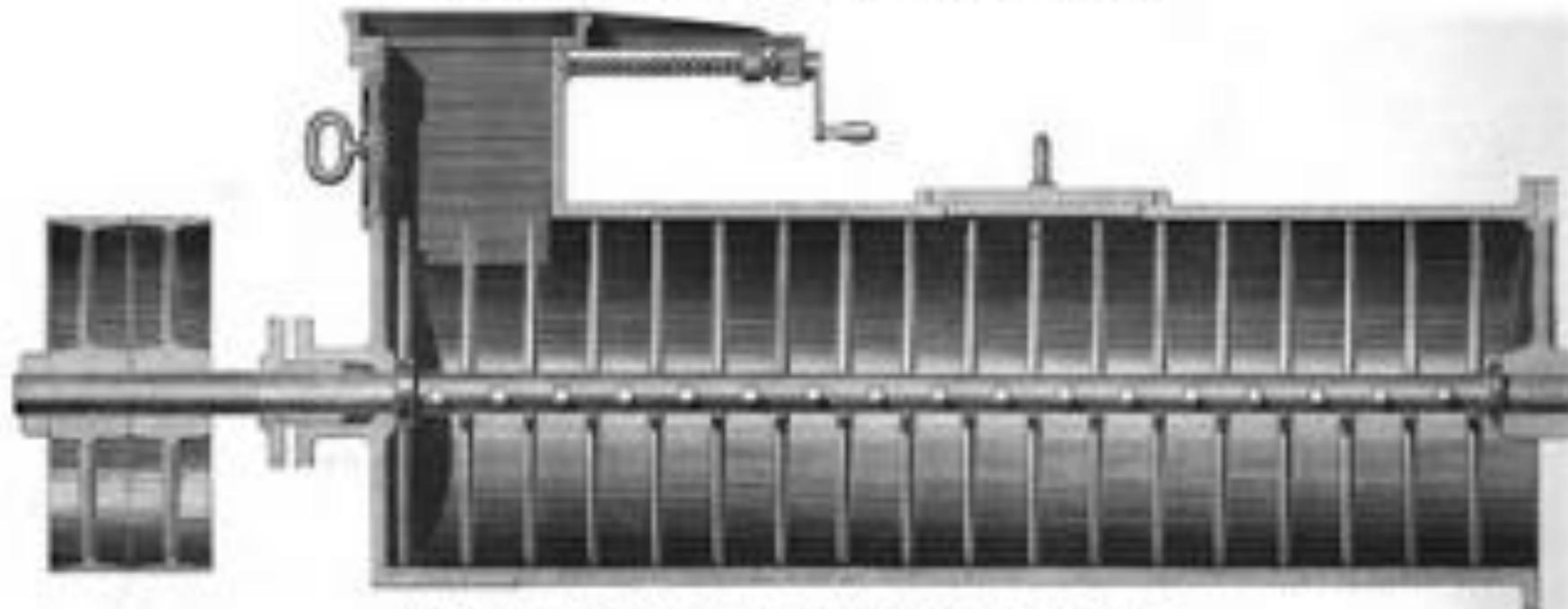
Scotland's Contribution to Brewing

- Automation – James Watt steam engine
- Mash Mixer - James Steel (1853)
- Sparging technique
- Innovation
- Education

Steels Mash Mixer

MASHING MACHINES.

(See Article on "Brewing and Brewing" in our next Number.)



STEEL'S MASHING MACHINE BY STEPHEN B. A. STEPHENS AND WOOD, ANTHONY, LONDON.

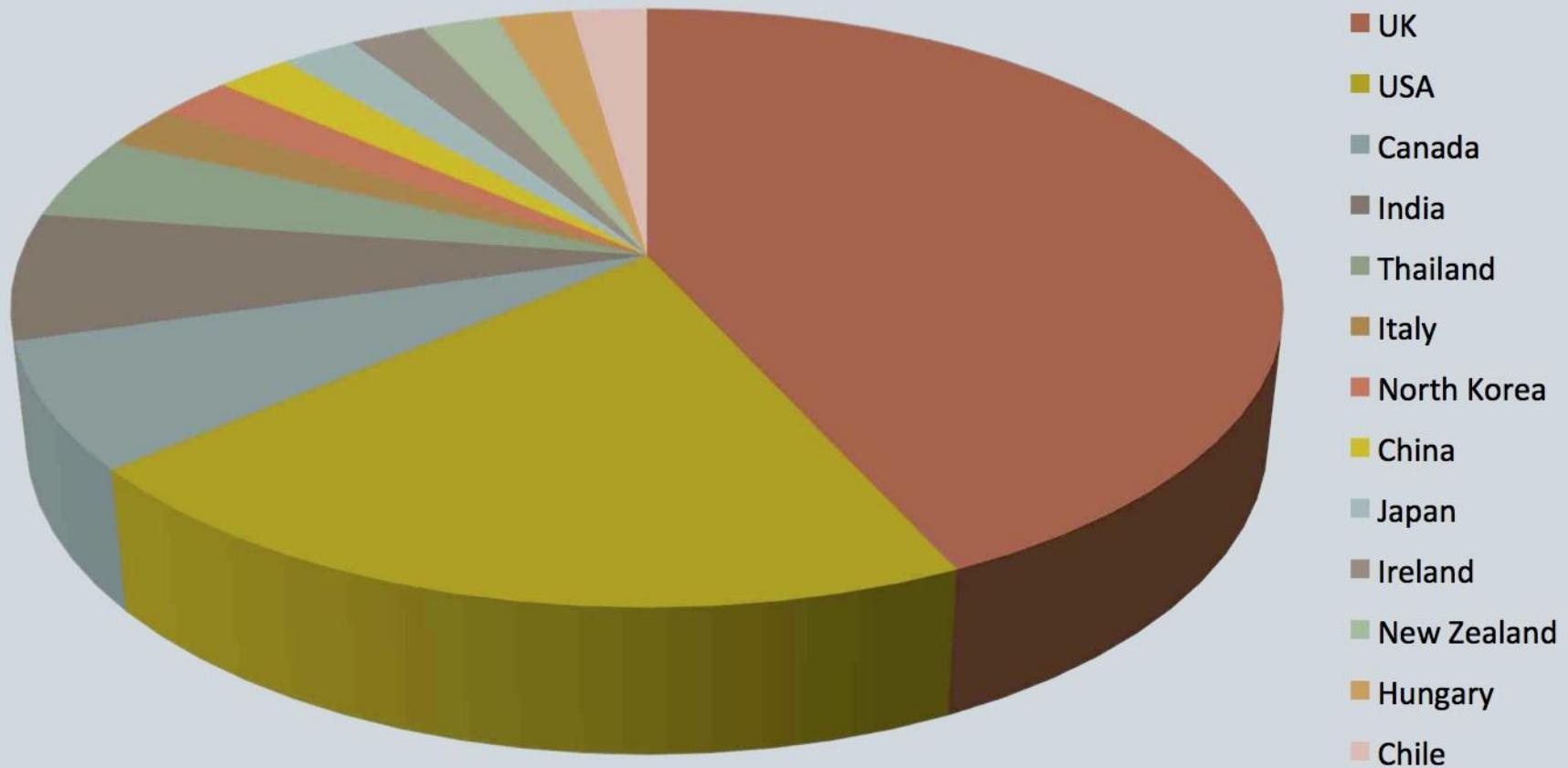


Education

- Heriot Watt Uni.
 - Honours & Masters degrees
- Research & provide advice
 - High gravity – flavour matching
- Sir Geoff Palmer
 - Barley & Malt

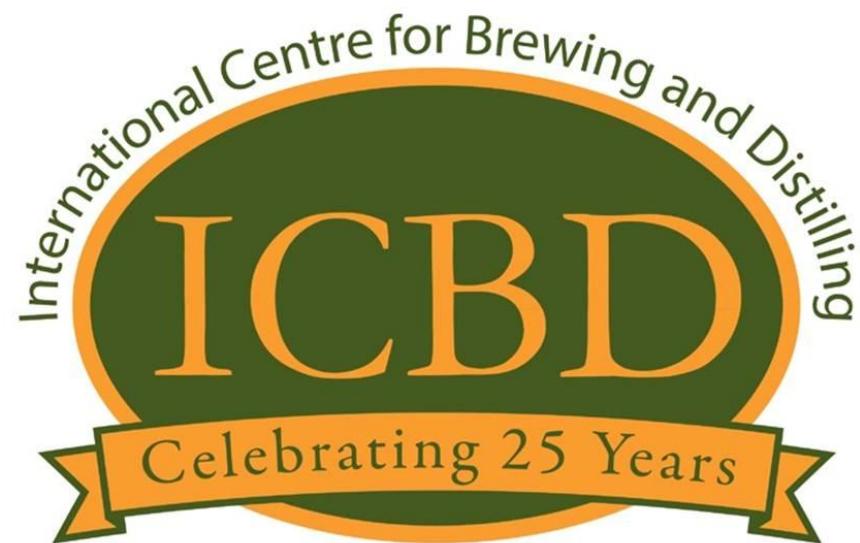


MSc/Diploma 2012/13

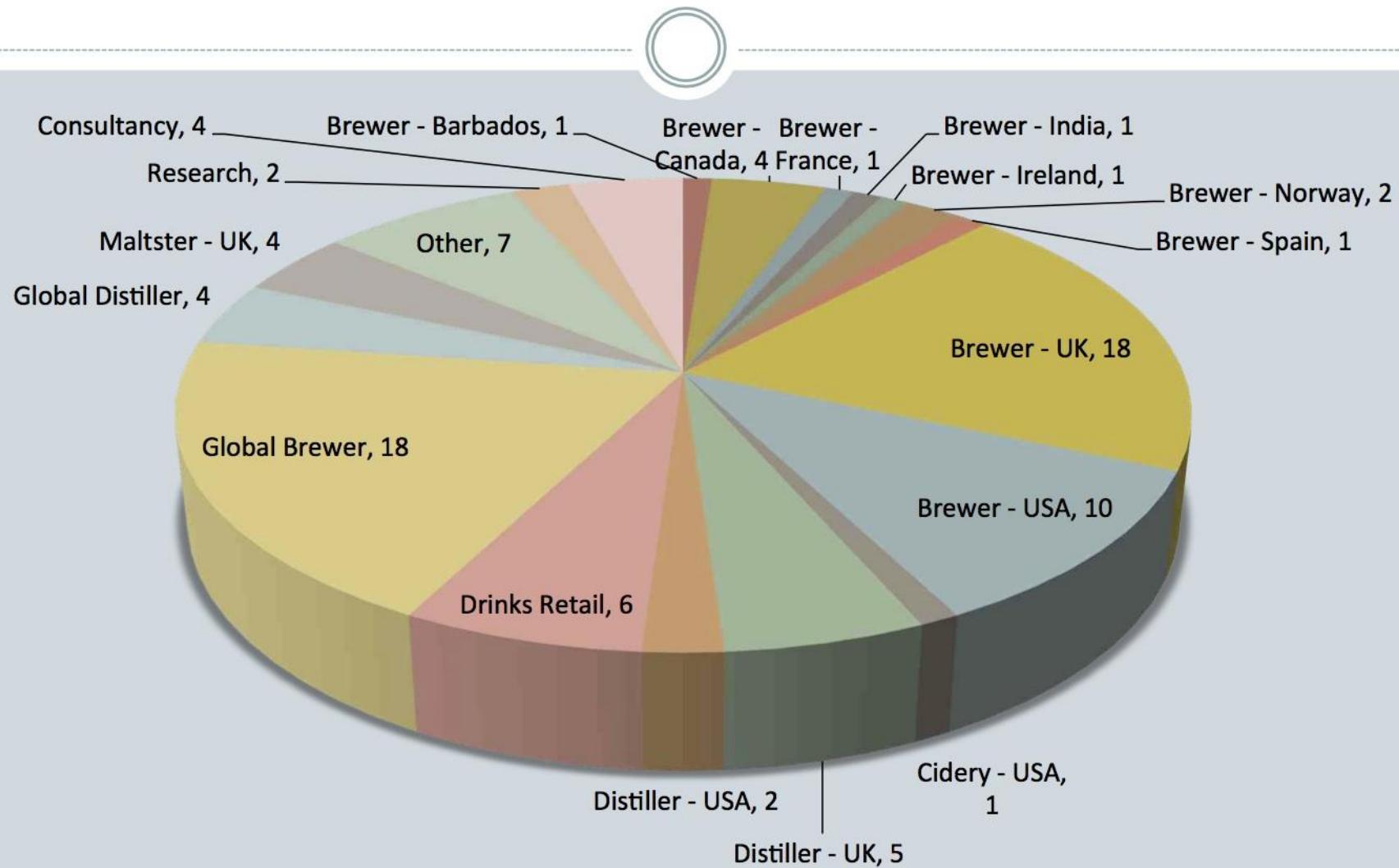


ICBD – Fit for Work

- Employability =
 - Qualification
 - Work experience
 - Strategies
 - Contacts



Distribution of jobs – last three years



Brewing Heritage Scotland - CIC

- Permanent exhibition
- Tell the untold story of one of Scotland's most important industries
- Themes - Past, Present and Future
 - International Trade
 - Education
 - Social History
- Looking for a venue in Edinburgh and funding

Beer Export Trade Today

- Looking at new markets
- Traquair export 75% of their beer
- Received Queens Award for exporting
- Using heritage to promote beers
 - Research using the Scottish Brewing Archive

Scottish Brewing and its International links



*Brewing
Heritage
Scotland*