

UK Hop Industry and Production

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Great Lakes Hops and Barley Conference

Kalamazoo, Michigan, USA

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The English Hop Industry

scope of presentation

- Structure of industry
- Operations and techniques for growing
- Research objectives









Size of UK hop industry

- Locations (as at harvest 2017)
 - South East 53.2 %
 - West Midlands 46.8 %
 - East Anglia and Yorks propagation



Size of UK hop industry

- Area
 - 2017 2390 acres
 - 2016 2270
 - 2015 2210
 - 2007 2625
- Production
 - 2017 1780 tonnes
 - 2016 1424
 - 2015 1357
 - 2007 1473
- No. growers 55
- Av. farm holding 43 acres
- Producer groups
 - English Hops Ltd 44.1 %
 - Wealden Hops Ltd 33.0 %
 - Hawkbrand Hops 22.9 %



British hop varieties

Variety	Area (ac)	% UK area
Goldings	348	14.6
EKG	242	10.1
First Gold	237	9.9
Fuggles	232	9.7
Progress	190	8.0
Pilgrim	175	7.3

At harvest 2017, 32 different named varieties



Hop growing factors shaping the industry





FULLER'S

CHISWICK

Independent

**FAMILY
BREWERS**

Since 1845



T G REDSELL LTD

01UK17

EEC 449
East Kent Goldings
No. 5825
EAST KENT
Tare 0.50 Kg























Hop growing factors shaping the industry

- Market - Regional brewers
- Latitude - 52°N
- Weather - pests and diseases
- Wilt disease - non-cultivation
- Pollen - seeds
- Labour - availability





Hop growing
how is the UK different?





No. 669

PREPARED HOPS SEEDED
UK 86 307
T.G. REDSELL LTD



CHINA FARM
HARBLEDOWN
TARE 1Kg

No. 561

PREPARED HOPS SEEDED
UK 86 307
T.G. REDSELL LTD



CHINA FARM
HARBLEDOWN
TARE 1Kg

No. 673

PREPARED HOPS SEEDED
UK 86 307
T.G. REDSELL LTD



CHINA FARM
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TARE 1Kg














DANGER
Haut-tension

END









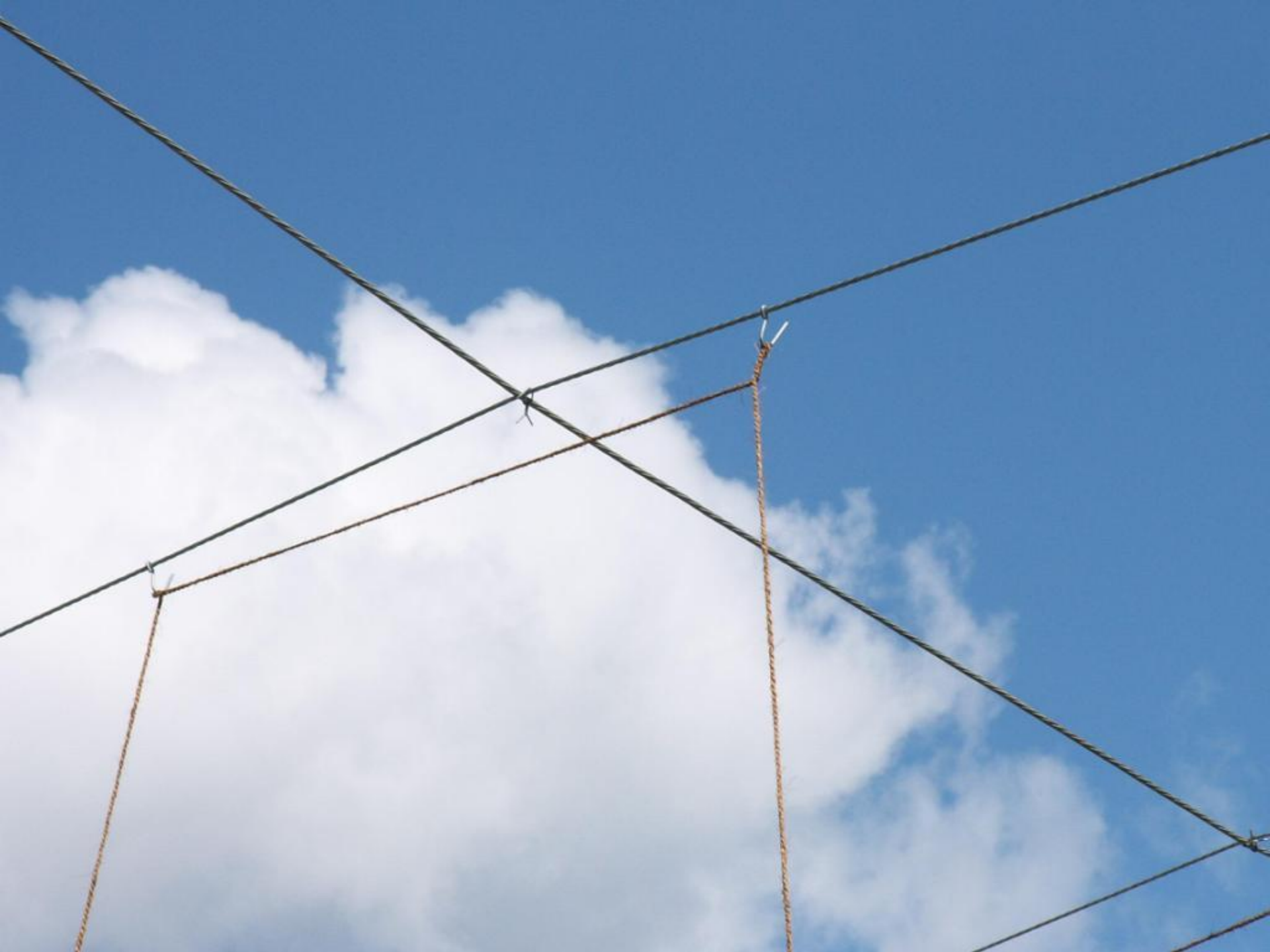








FIG. 21.—*Tying Hops in 1574.*





































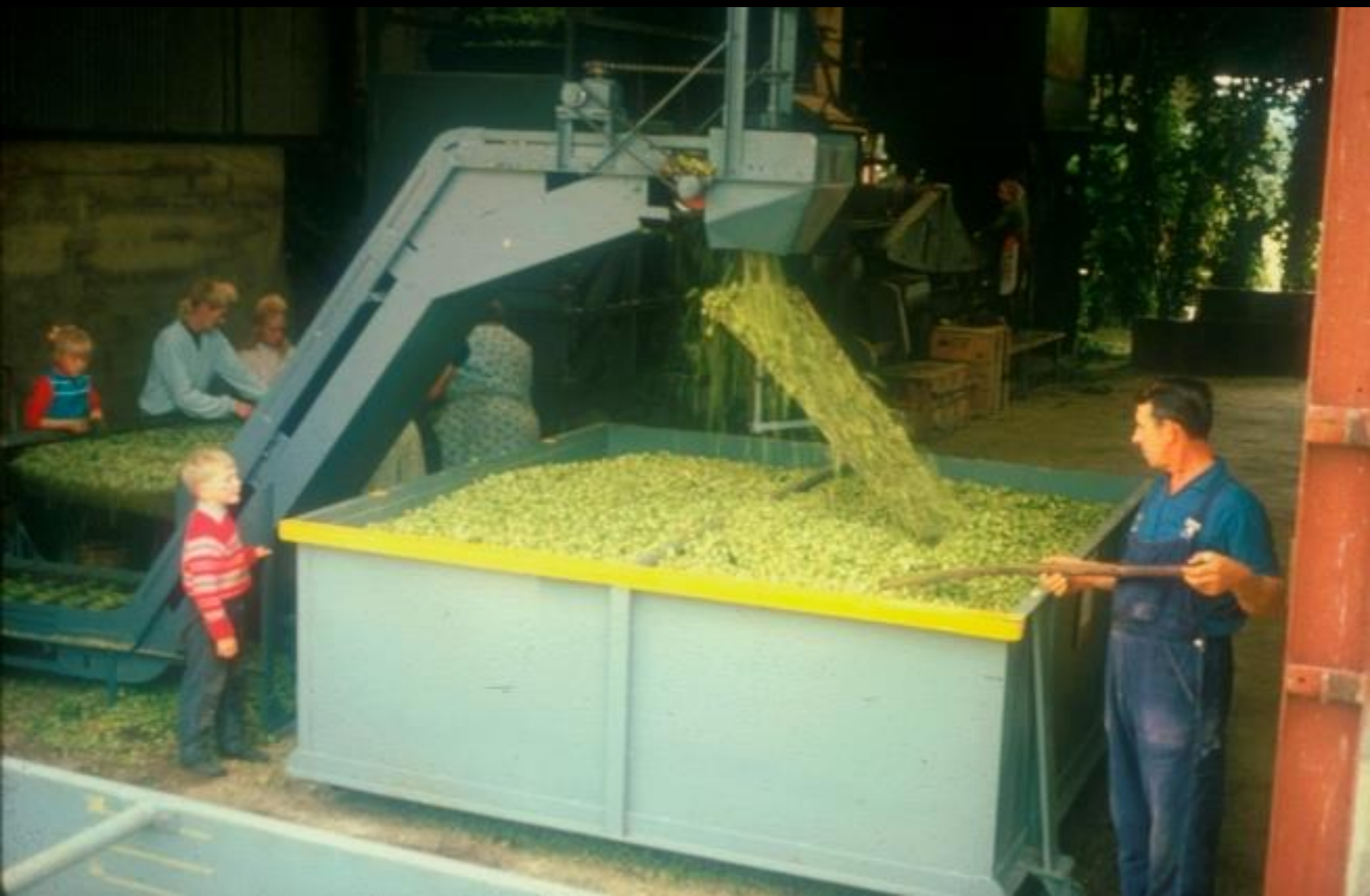


























PREPARED BY NORTHERN SEEDS
T. G. REDSELL LTD.
PARSONAGE FARM
BOUGHTON
TAPE 1.5 Kg

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MADE IN GERMANY
Euro Forklifts
LIMITED

Hop growing

how is the UK different?

- Windbreaks and hedges
- High pole density
- Non-cultivation
 - Ground pegs “screw pegs”
 - Top hooks
 - Continuous stringing from ground
- Inorganic fertilizers
- Itinerant harvest labour
- Seeds
 - Vertical loading of picking machine
 - Slower throughput
- Dwarf varieties



Dwarf hop growing

















Pattenden
Wren

M-F



Dwarf hop growing

- Netting support
 - capital costs reduced
 - spring labour reduced
- Hedges with continuous contact
 - biological control
- Low volume spraying
 - prevention of drift
- Mechanised harvest
 - reduced labour

UK dwarf hop varieties

First Gold	1996
Pioneer	1996
Herald	1996
Pilot	2001
Boadicea	2004
Sovereign	2006
Endeavour	farm trials







UK Hop research history

1894 Wye College founded

1906 Prof Salmon starts breeding programme





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- 1953 Neve in charge of breeding
- 1984 Darby in charge of breeding
- 1987 Horticulture Research International
- 2004 East Malling Research
- 2007 Wye Hops Ltd., Canterbury, Kent, UK







UK Hop research current objectives

- Variety development
 - Dwarf varieties, especially aphid rest.





UK Hop research current objectives

- Variety development
 - Dwarf varieties, especially aphid rest.
 - Aroma varieties
 - Fuggle with resistance to wilt disease
 - Impact
- Strategic research
 - Spring dormancy and climate change







UK Hop research current objectives

- Variety development
- Strategic research
- National Hop Collection



This is to certify that

Wye Hops Ltd

*was awarded
National Plant Collection®
status for the collection of*

*Humulus— Historic varieties & elite
breeding stocks*

*by the Plant Heritage
Plant Conservation Committee
9th September 2010*



Mike Buffin
Chairman of the Plant Conservation Committee

Conservation *through* Cultivation

12 Home Farm, Loseley Park, Guildford, GU3 1HS Tel: 01483 447 540 Fax: 01483 458 933

Email: info@plantheritage.org.uk Website: www.plantheritage.com

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UK Hop research current objectives

- Variety development
- Strategic research
- National Hop Collection
- Certified propagation scheme



Animal and Plant Health Agency

Plant Health Propagation Scheme

Explanatory guide to Hop certification

January 2018

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Thank you for your attention

Any Questions?