

Beginners' Course 2025

Session 3
Equipment

Agenda

Item	Description	Duration
1	Personal Protective Equipment	20 mins
2	The Hive	50 mins
3	Q&A	5 mins
4	Tea Break	15 mins
5	Tools you will need	15 mins
6	Honey Extraction	15 mins
7	The Apiary	15 mins
8	Q&A	10 mins

Housekeeping (For us not the Bees!)









PERSONAL PROTECTIVE EQUIPMENT

Personal Equipment Beesuit









Personal Equipment Gloves







Personal Equipment Boots





Personal Equipment Eyes



Personal Equipment Suppliers

- BB Wear Suits
- OZ Armour Suits
- Swienty Gloves
- Ebay disposable gloves
- Complete Safety Supplies Boots

Personal Equipment Costs

- Half Suit £53 (Swienty)
- Full Suit £190 (BB Wear)
- 3 layer Full suit £180 (Oz Armour)
- Ultra 3 D suit £430 (BB Wear)
- Blue Latex Gloves £12.80 (Swienty)
- Nappa leather gloves £10.00 (Swienty)
- Disposable nitrile £12.50 per 100
- Boots £16
- Ankle protectors £8.00

Personal Equipment Where to Try?

- The Beekeeping Show
 - 22nd February 2025
 - International Centre Telford
 - £13.50
- BBKA Spring Convention
 - 5th April 2025
 - Harpur Adams Newport Shropshire £6.00





Hives -1851

Lorenzo Langstroth 1810-1895
Philadelphia Minister
Invented a moveable frame hive 1851
Patented 1852
Bees leave spaces >1/4" and <3/8"
[6.5mm – 9.5mm]

Hives -1941

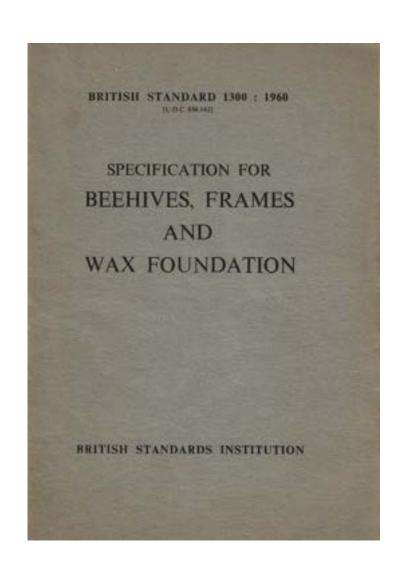


Federation The Glen Hibernian Cottager **Smith** perfection Simplicity Buckfast W_{essex} smyth **WBC** Co_{Man} **CDW** Wormit

Hives -1946

British Standard Modified 1960 Withdrawn 1984

- Modified National
- Modified Commercial
- Smith
- WBC

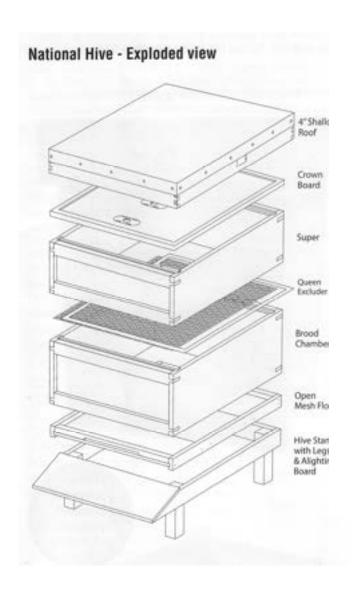


Hives - Comparison

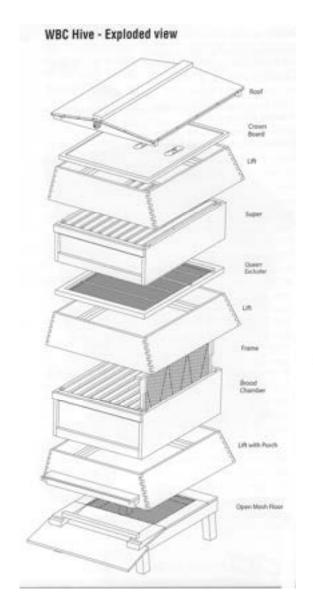
HIVE PATTERN	вох	EXTERNA DIMENSIC L		Н	FRAMES	COMB AREA (M²)	NATIONAL FRAME EQUIVALENT
MODIFIED NATIONAL	BB S	460 460	460 460	225 150	11	1.41 0.85	11
WBC	BB S	451 451	408 408	225 150	10	1.28	10
SMITH	BB S	463 463	416 416	225 150	11	1.41	11
MODIFIED COMMERCIAL	BB S	465 465	465 465	267 162	11	1.94	15.1
LANGSTROTH	BB S	508 508	413 413	243 146	10	1.76	13.8
DADANT	BB S	508 508	470 470	298 168	11	2.45	19.1

Hives – Where is the Bee Space?











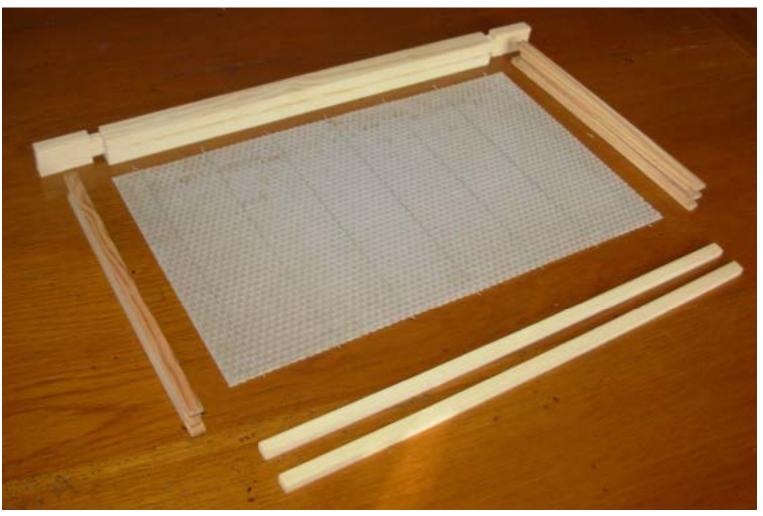


Smith



Commercial

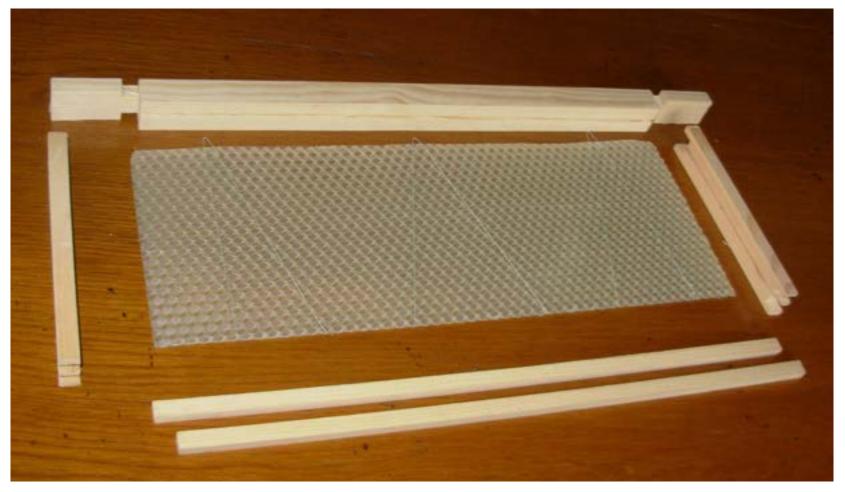
DN1



DN4



SN1





Narrow plastic ends x 11 = 407mm

 $DN4 \times 11 = 382mm - 384mm$

Inside National = 420mm

So DN4 has 38mm of space in which bees will build brace comb

Hives Why Supers?

Sample of 50 supers

Average weight before extraction=19.3Kg Heaviest Super = 23Kg Average Weight after extraction = 5.9Kg Average honey yield per super = 13.4Kg

Brood box full of honey = 34Kg



Stands should be strong and level



Hives – What are they made from?

Ply Wood
UK Western
Red Cedar
High Density
Polystyrene

Canadian Western Red Cedar

Better



Hives – How are they protected



Hives – How are they protected Timber external surfaces

- Screwfix no nonsense wood treatment
- Roxil wood protection cream
- Cuprinol garden shades
- Protek stable coat
- Protek royal exterior stain
- Protek royal exterior paint

H.D. Polystyrene – Sandtex Masonry paint

Buy New assembled

Buy New flat pack

Buy new "seconds"

Buy "pre-loved" - How to clean*

Make your Own – some tools and skill Required

*NBU "Hive Cleaning and Sterilisation"

Hives Suppliers

- Caddon Hives
- Thornes
- Maisemore

Building your own

Bee-hive bits

Hives Costs

Canadian Cedar Flat Packed 3 supers QE no frames or foundation

- National £223
- WBC £428
- Smith £232
- Pine National £144
- HD Polystyrene National £234 £250

Hives Costs

National Canadian Cedar Assembled with 3 supers QE no frames or foundation

• Thornes £484

Maisemore £475

• Caddon £303

It pays to shop around!

Hives Costs - Frames

DN1	£3.58	each
DN4	£3.87	each
SN1	£2.92	each

Hive Full of frames £136-£139

Pre Loved Kit



Lincolnshire Beekeepers Annual Auction Lincolnshire Show Ground 12th April 2025 Starts 10:30am Entrance £1 >1000 lots

Hives – History repeats itself

Q&A





or email: nbkatrainingeducation@gmail.com if you have questions after we've finished



TOOLS YOU WILL NEED





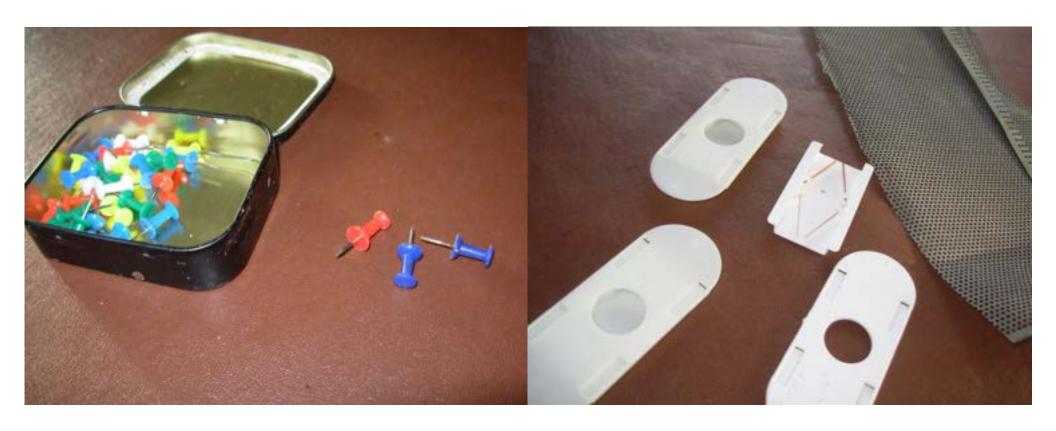
Fuel
Rotten wood
Cotton fibre
Peanut shells
Cardboard
Wood pellets
Planer shavings













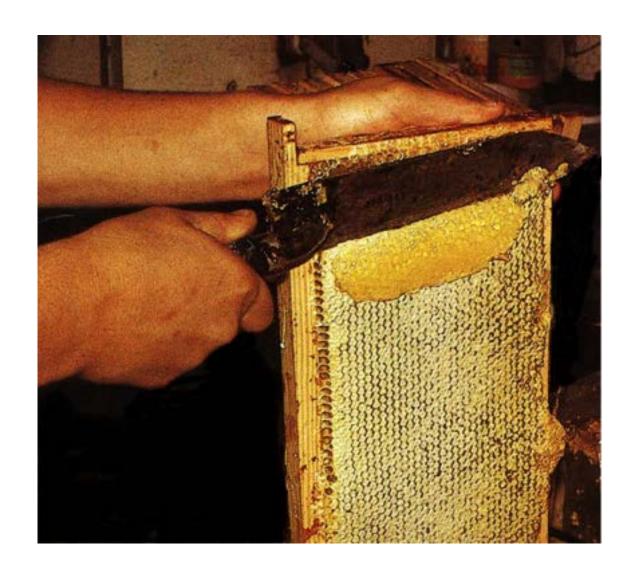


HONEY EXTRACTION

10 litre white tamper evident plastic Bucket with lid



Uncapping



First Year
bread knife
roasting tin
sieve



Tangential





Radial

First year Hire one Mentor?



Filtering



Settling Tank 25 – 30 litre with tap



First Year I got some honey



Q&A



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