

Efficient working methods in beekeeping

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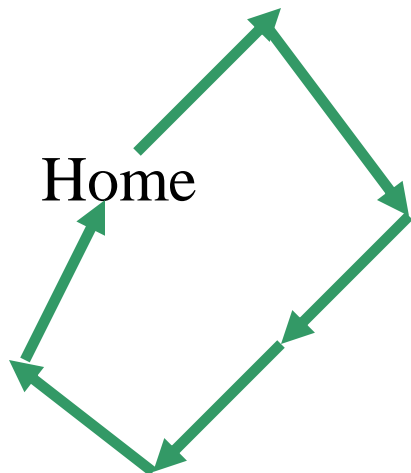
Suomen mehiläishoitajain liitto 2012

Different work

- Driving time
 - How many visits, how far
- Apiary work
 - Working methods, mechanization
- Extracting work
 - Investments/ savings in working time
 - Custom extracting ?
- Equipment maintenance

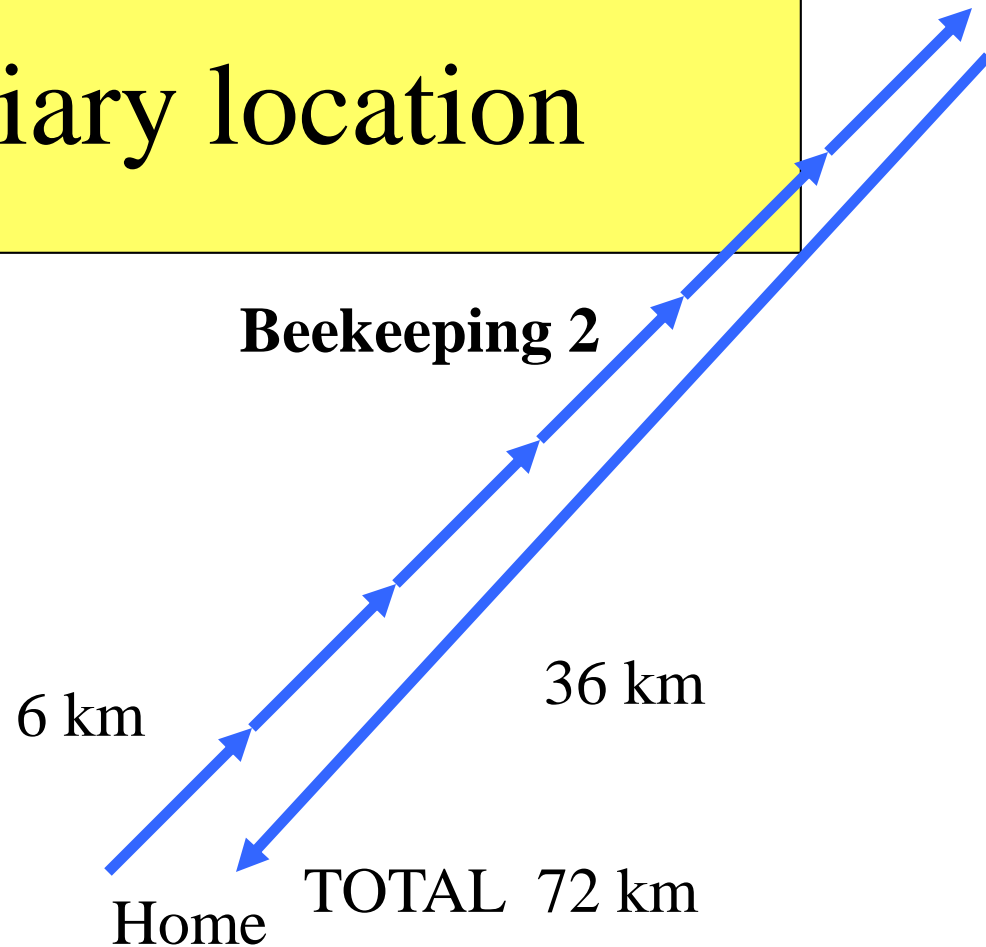
Effect of apiary location

Beekeeping 1



TOTAL 36 km

Beekeeping 2

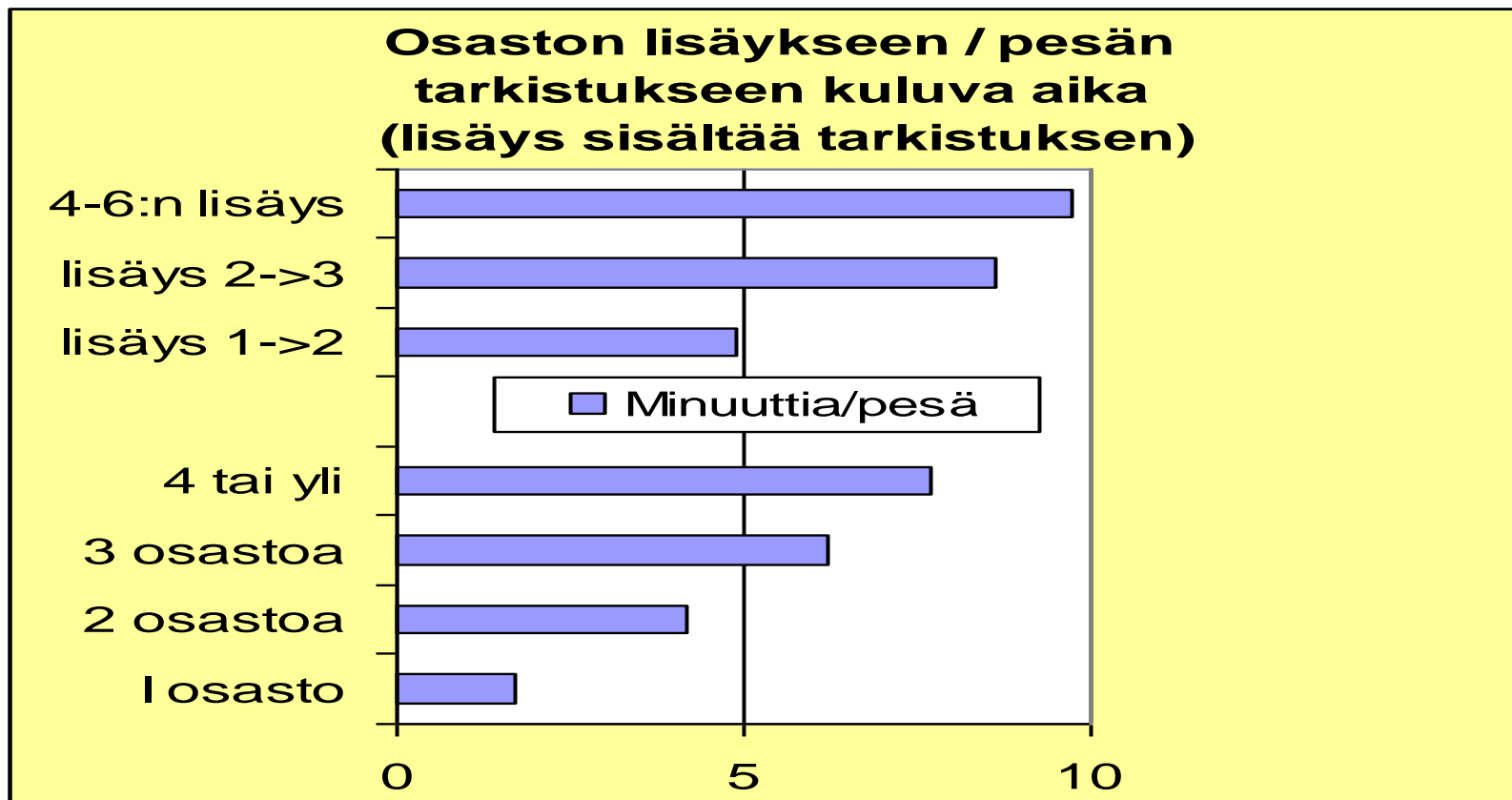


TOTAL 72 km

14 visits / year, difference 504 km
= 8 h work + car expenses 200 euro

Apiary work

Most of working time goes for hive evaluation/ swarming controls



Honey harvesting

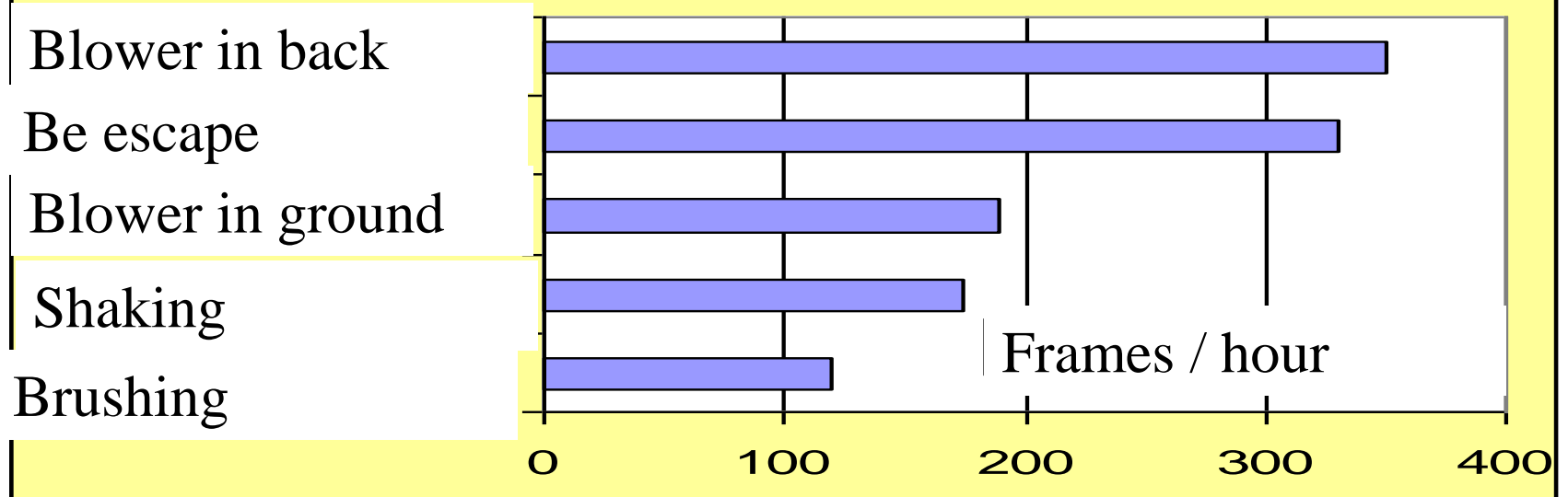
- Many available methods
- Brushing and shaking slow but no need to lift
- Full boxes

Placing bee escapes
with a lift takes 1
min/hive





Hunajan kerääminen



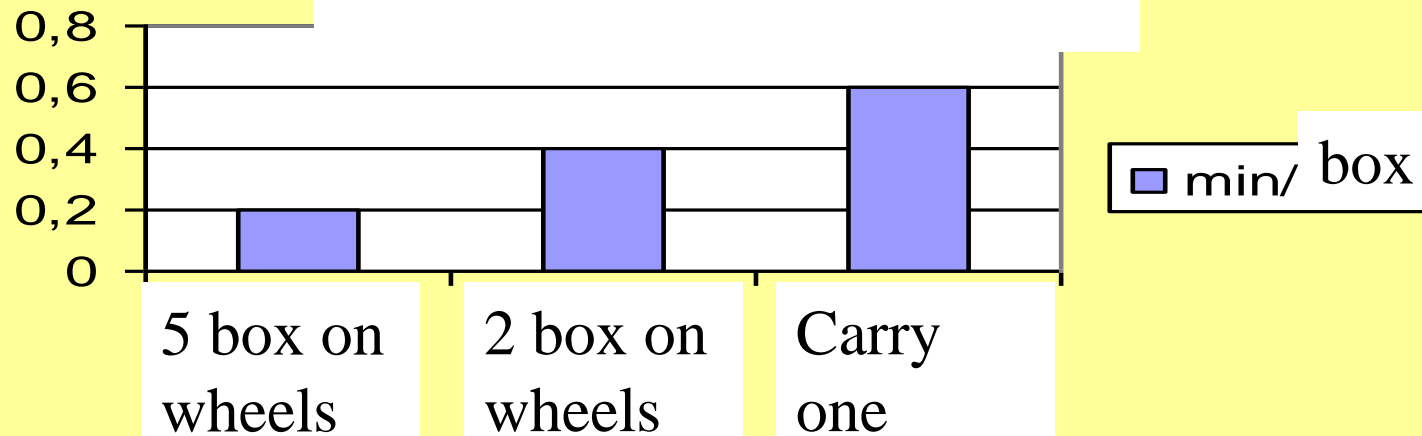
Honey to car

Most carried by hand

Distance between car and hive is most important factor.



Honey from hive to car



Honey from car to extracting

- Best to put honey on pallets, reollers need
- much securing.





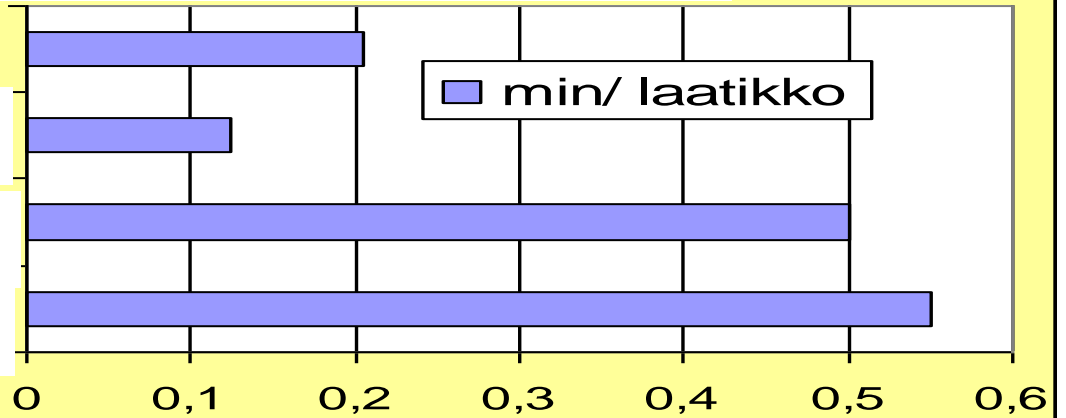
Honey from car to honey house

Truck 16 box

Manual lif 16 box

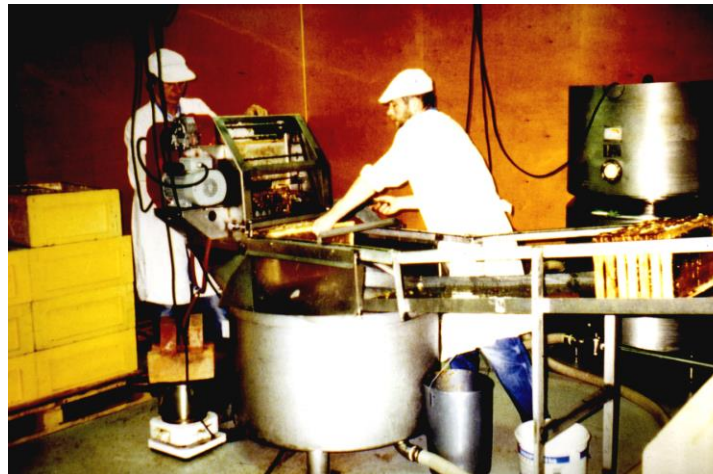
Roller 5 box

Poller 2 box



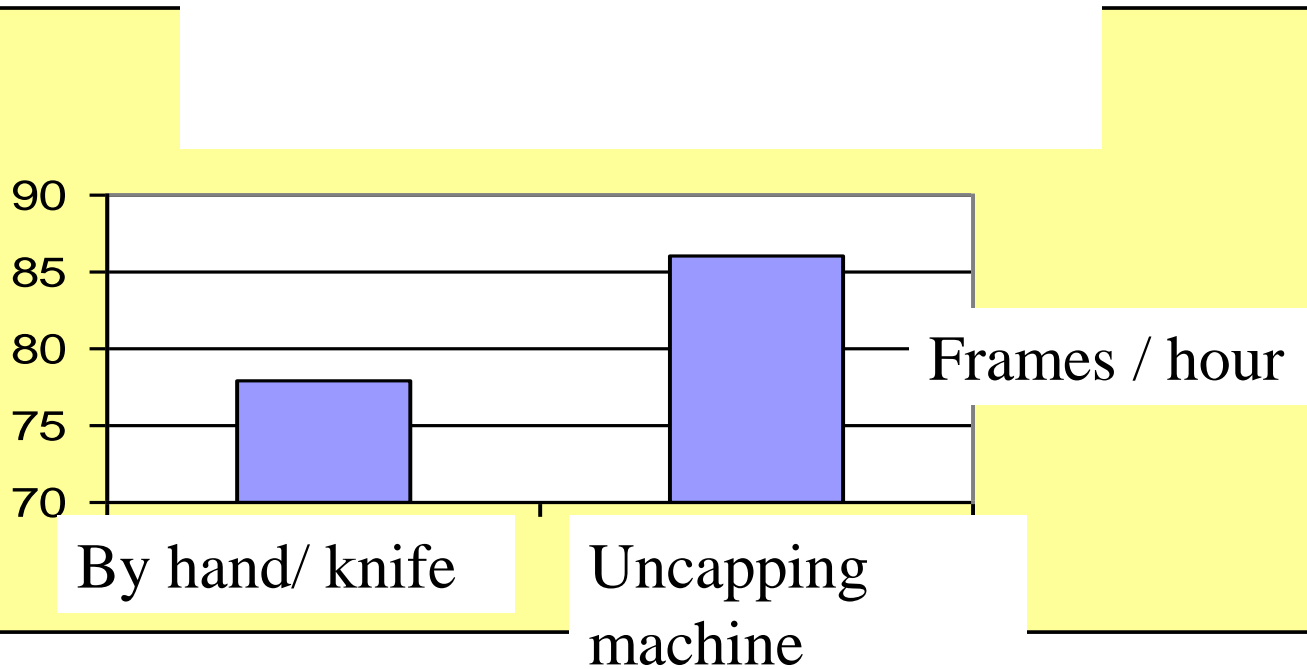
Uncapping the frames

- **Uncapping fork:** slow, minimum honey mixed to wax
- **Knife:** fast, lot of honey mixed to wax
- **Kuorimakone:** fastest, but needs checkup by human, so much honey mixed to wax, that some machinery needed to separate the two



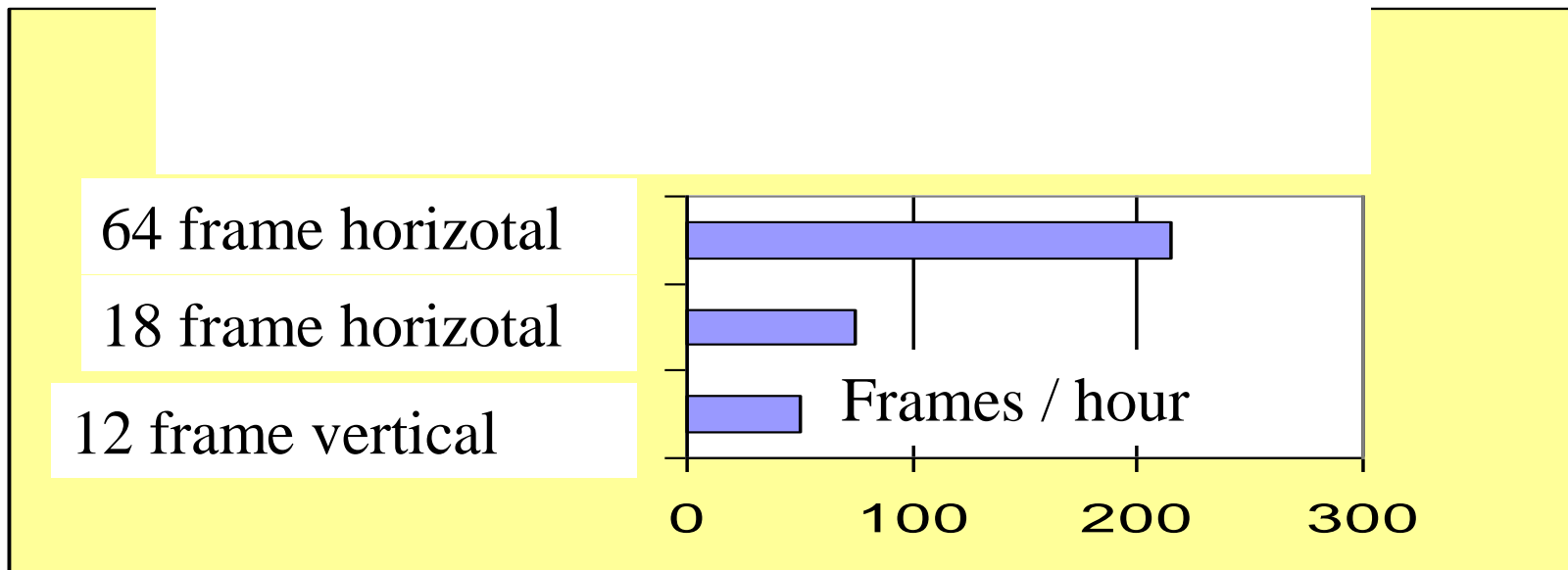
Hans uncapping is relatively fast, but hard job

Uncapping frames



Extracting

Filling extractor, extracting (12 min) emptying
extractor



Working time / 10 hives

Workin time in apiary minutes

efficasy	normal	better	difference	
Cleanin bottoms	51	51		Better = bee blower, boxes on pallets, uncapping machine, 64 frame extractor
Checkings (3)	166	166		
Adding boxes				
1 -> 2	49	49		
2 -> 3	86	86		
3 -> 4	97	97		
4 -> 5	97	97		
Honey harvesting	696	306	(390) 56%	
Unloadin home	36	12	(24) 66 %	
Uncapng	462	438	(24) 5 %	
Extracting	130	87	(43) 33 %	
Feeding	142	142		With pump n 100 ?
Total hours	33.5	25,5	(8) 24 %	

In reducing working time

- Good planning and organization
 - Several works done on one visit
 - All equipment in car
 - Feeders away, oxalic treatment, mice nets on = one visit
 - Minimize swarming and needs to find the queen
 - Fastest results by buying a bee blower

