

Jordbærkonference 2018

6. november 2018 / Brædstrup

**Små ting, stor betydning –
find ud af hvor
dine medarbejdere spilder tiden**



**Dr. Renate Spraul
Arbeitswirtschaft im Gartenbau
Working efficiency in horticulture**

**Steinweg 45
D - 74206 Bad Wimpfen**

email: renate.spraul@t-online.de



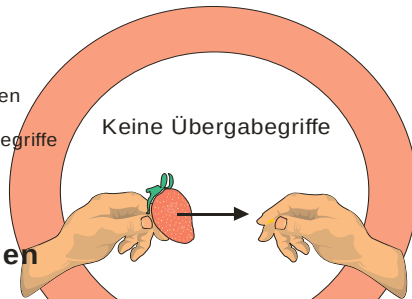
Body movements

Rechenbeispiel:
1 Übergabegriff
= 1,0728 Sekunden

500 000 Übergabegriffe
= 149 Stunden.

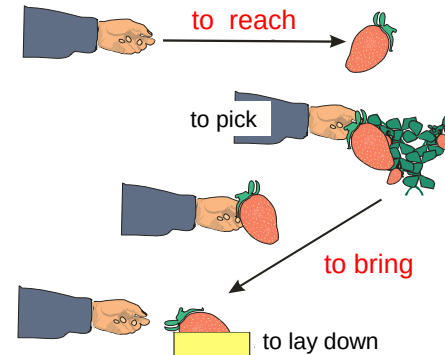
= 18,6 Tage

= 3,7 Wochen



Dr. R. Spraul, Bad Wimpfen

Reaching movements for picking the fruit



Dr. R. Spraul, Bad Wimpfen

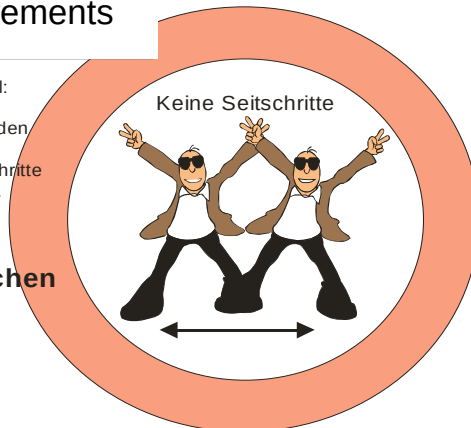
Body movements

Rechenbeispiel:
1 Seitschritt
= 1,224 Sekunden

500 000 Seitschritte
= 170 Stunden.

= 21,3 Tage

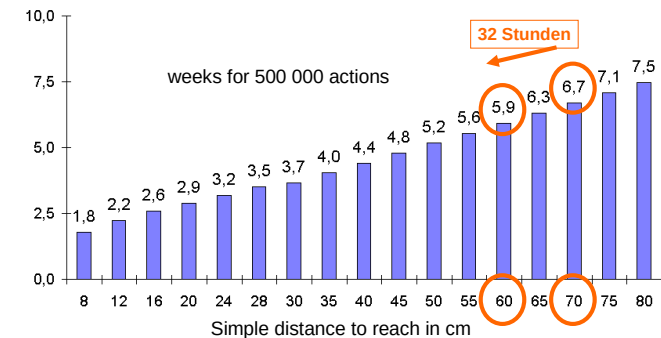
= 4,3 Wochen



Dr. R. Spraul, Bad Wimpfen

The influence of the distance between fruit and bowl

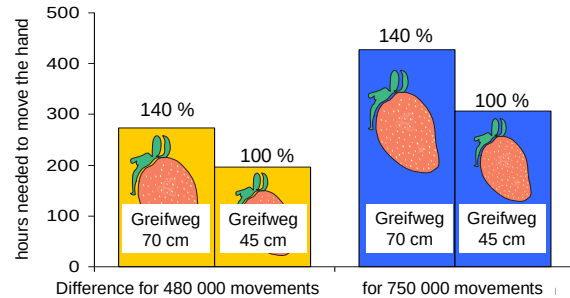
Dr. R. Spraul, Zeiten nach MTM,



1 week = 40 hours

Picking time depends on reaching distance

25 cm reduction of the distance between strawberry at the plant and the bowl in der plate leads to an reduction of 40% of working time (only moving your hands, no picking time included)



Searching

The first step is to find the fruit, so a systematic search makes you quick and clean



Your arm is dividing the plants so you can systematically search for the fruit.
Don't search backwards.
Don't look at the same plants twice.

Distance too far



Distance ok



not found
nie znalezione
nu a fost găsit



Dr. Renate Spraul, Bad Wimpfen

Quality

The second step is to learn which quality is okay and make a quick decision



Picking techniques

Third step is to learn to separate the fruit from the plant



Which is minimum size?



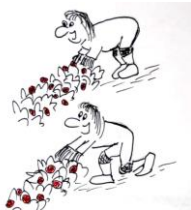
Bodyposition ?



Principle:

The next position is the best.
Change helps against tiredness.

Important: short distance to the box!



Upright position is ok

Kneeling down is ok

Working equipment

functional
easy to move
easy to carry



Funktional clothes -> good working results

- Raincoat
- Knee pad

(the picker bring it by themselves or borrow against a deposit)



1 Minut / Kvadratmeter
= 10 000 Minutes / Hektar



= 166 Timer
= 20 Dage (à 8 Timer)
= 4 Uger (à 40 Timer)



**Good organisation
in the field can save
plenty of time**



Wich is my row / line?

Fighting for the last bowl



**The Success of the Company
is the Sum of the Successes
of it's Employees.**

Tempus