



Postharvest handling of carrots

Carrots in Israel

- 1,500 hectare that produce over 120,000 ton**
- seeding time: 50% autumn, 20% winter and 30% spring**
- Main cultivars: Nairobi and Dordogne**

Seeding



2008/12/11 12:26

Irrigation



Young field



2008/12/11 13:38

Determining the harvest time



2009/5/22 10:25

Mechanical harvest – 2 rows, Early morning



2009/5/29 7:14

Mechanical harvest – 4 rows



Collecting the carrots into gondola



2009/5/26 7:17







2009/4/26 18:48

Moving the gondola to the packinghouse shed



2009/4/26 18:47

Packinghouse shed



2009/5/27 18:14



2009/5/27 18:16

Station 1: pushing the stems to the packing line with cold chlorinated water







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מתנת המוצר
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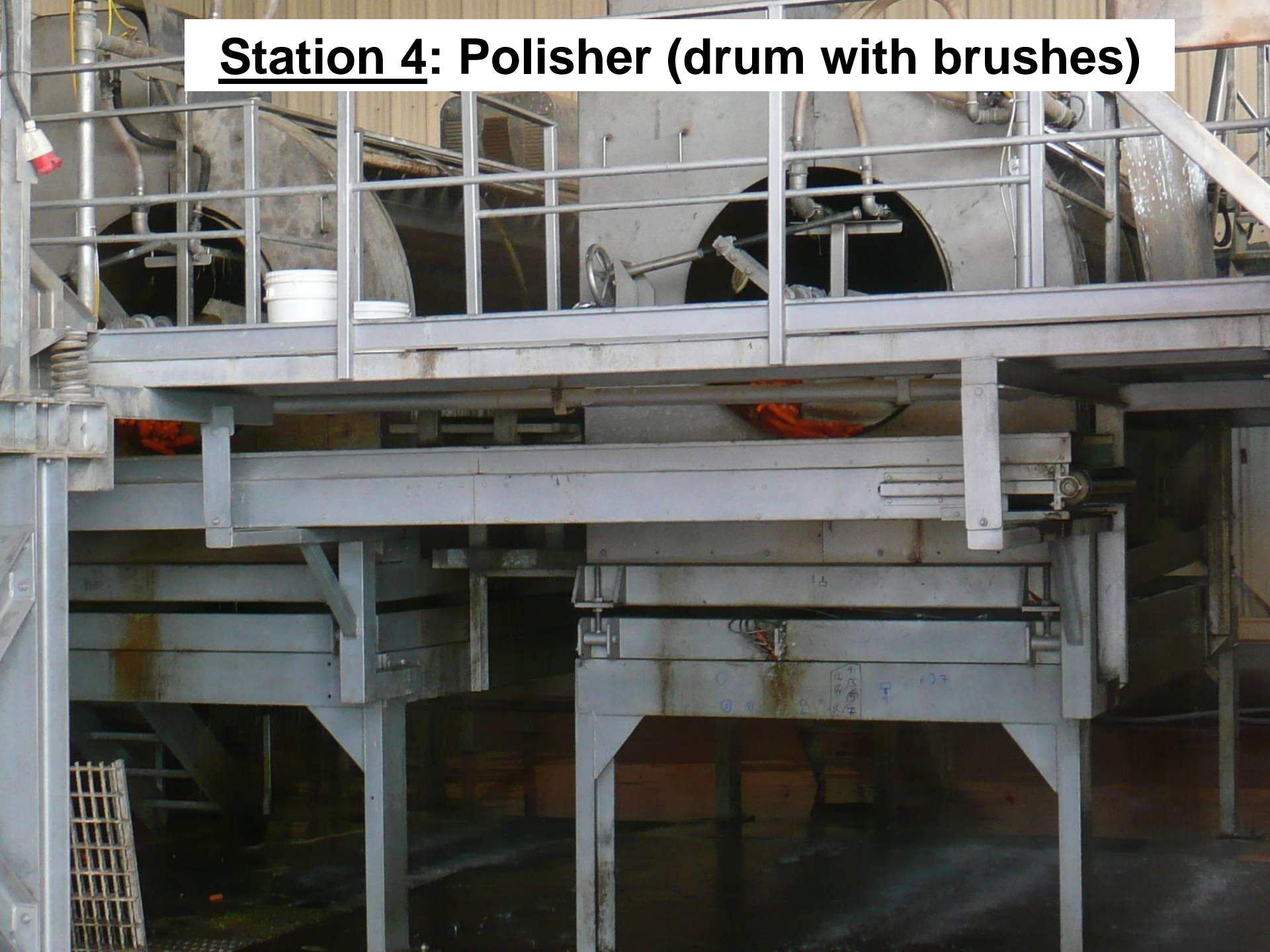
Station 2: Washing the stems from soil and mud



Station 3: Second wash with fresh cold chlorinated water



Station 4: Polisher (drum with brushes)



Station 4: Polisher





Station 5: Sorter and sizer





EMERGENCY STOP

PERD / PERD
0310 810

Control Panel Interface

Parameter	Value	Unit	Control
Flow Rate	1.2	L/min	Start/Stop
Temperature	15.5	°C	Start/Stop
Pressure	1.5	bar	Start/Stop
Speed	100	rpm	Start/Stop
Level	10	cm	Start/Stop
Power	1000	W	Start/Stop

Start

Station 6: Trimming



Station 7: manual sorting



Station 8: automatic 10 kg bag packer





Station 9: Palletizer



1.25 ton packer (processing)



Station 10: cold storage (0°C, 94% RH)





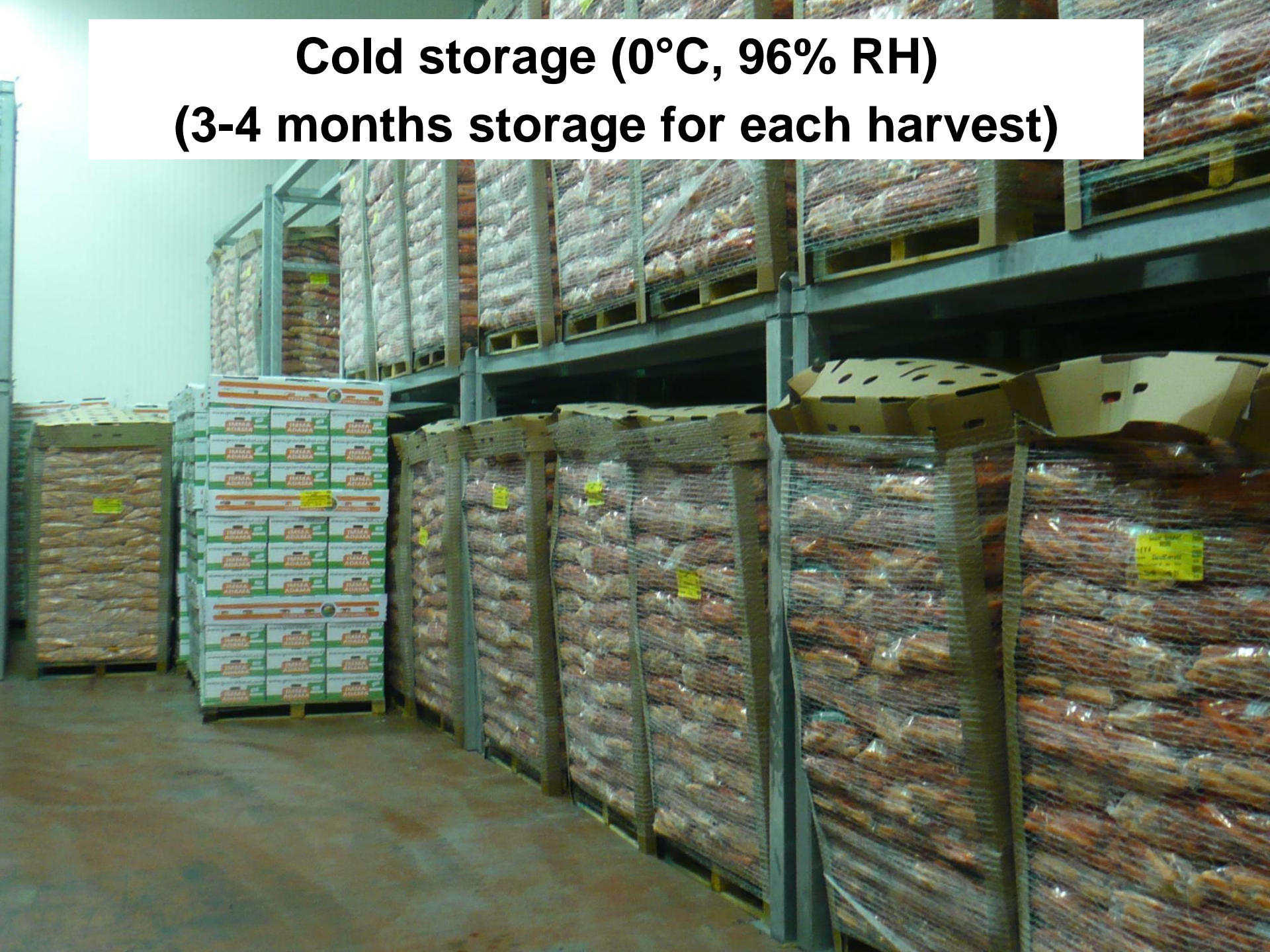
SHUHOT QUALITY CARROTS
IMMA ADAMA
12 kg Net. Class 1
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**Cold storage (0°C, 96% RH)
(3-4 months storage for each harvest)**



Export by containers (March to June)



SUDU 508365 0

45R1

MAX. GROSS	34.800 KG
	76.720 LB
TARE	4.530 KG
	9.990 LB
MAX. CARGO	30.270 KG
	66.730 LB
CU. CAP.	68.7 CU.M
	2.428 CBFT

CIMC



2008/8/14 18:57

Main storage challenge – to reduce decay

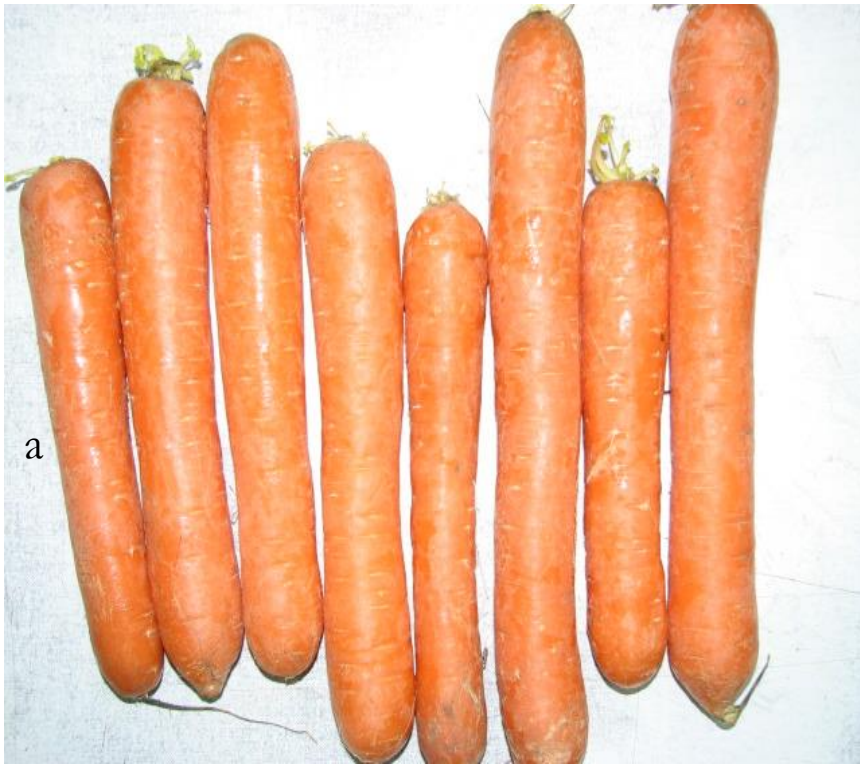


Thielaviopsis basicola



Sclerotinia sclerotiorum

Black root-rot disease induced by carrot brushing



Non brushed



brushed

Another challenge – to reduce sprouting

