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Trends and future needs in sugar harvesting

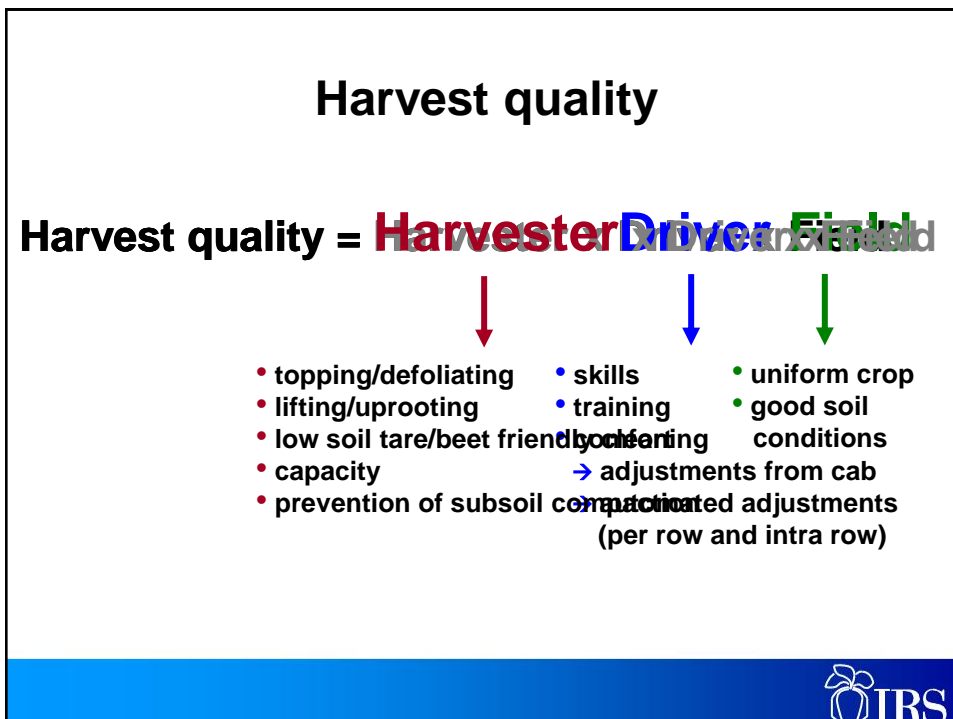
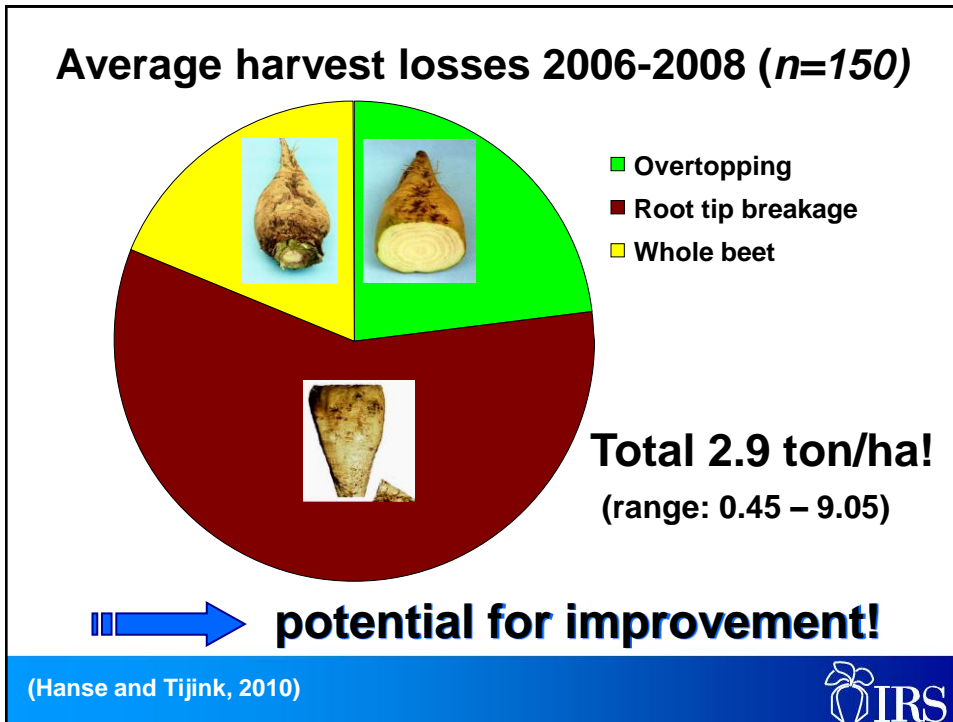
Frans Tijink

Lelystad, 13 October 2010







Harvest what has been grown!

- **the challenge is to harvest all grown sugar (beet) and deliver it for payment, after a good storage**
- **perfect harvesting quality is achieved only by a good collaboration of grower, contractor and harvester driver**






Topping quality

petioles		good		over topped	angled
					
>2 cm	≤2 cm	with crown	without crown		
} < 5%		} > 90%		} < 5%	
Advice					

(IRS, 2006)



Good topped



Good defoliated




impact on storage?

impact on profit in chain?




Crown size decreases



26%

(Martin&Hume, 2007)



2.4%

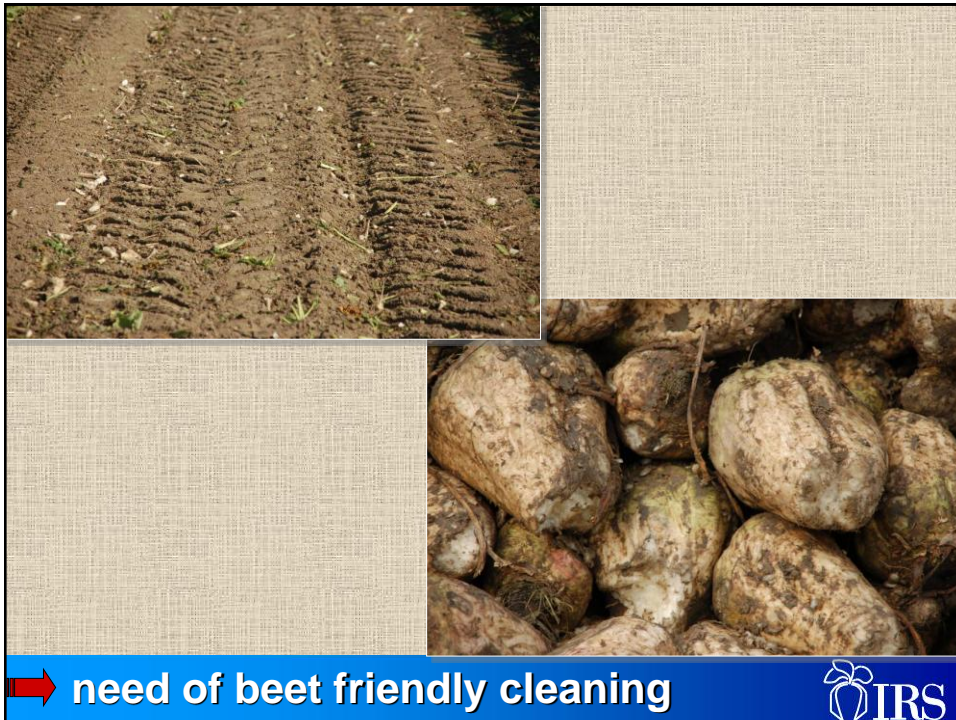
(IRS, 2009)

➔ range between under and over-topping decreases
 IRS

lifting/uprooting




➔ early start separating beet and soil
 IRS



root yield: 65  85 t/ha


capacity: +30%



**trend to increase capacity of tank
and transport units**



risk of subsoil compaction



- ➔ **more tyres at low inflation pressure (< 150kPa)**
- ➔ **track systems**



Summary

**a challenge for manufacturer,
drives and beet growers
to improve harvest quality**

