

Grass Shortages: *Getting the Most out of your Autumn Grass Silage*

Dr. Dave Davies

Silage Solutions Ltd and expert for the Silage Advisory Centre (SilAC)

dave@silagesolutions.co.uk



About the Silage Advisory Centre (SilAC)

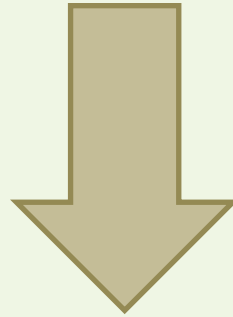
- We promote independent **best practice** advice to aid UK and Irish livestock farmers improve **silage quality, forage utilisation** and thus **profitability** through research, seminars, knowledge transfer and advisory tools
- We are an industry initiative supported by **founding members: bpi.agri, BSH, Dow, Dow Agro, Kuhn, IBERS and Mole Valley Farmers**
- We focus on exploring ways in which baled silage can fit livestock production systems to improve **production efficiency, reduce costs** and **improve profitability**





Obtaining a Good Fermentation is Critical

Good Fermentation = Good Palatability



Increased Intake and Nutrient Quality



What is the Biggest Factor Affecting Autumn Cut Silage Quality?

- Dry matter (DM) content
- Sugar (Water Soluble Carbohydrate) concentration
- Ability to wilt
- Grass quality
- Soil contamination



Obstacles to Making Good Quality Autumn Cut Grass Silage

- Dry Matter – Ability to Wilt
- Available Sugar Content
- Quantity and so Ensiling Method
 - Bale or Clamp



Cutting Grass for Silage



Cutting the Grass for Silage

Cut with mower conditioner

- aim to leave 2½" - 4" stubble
- avoid cutting low - soil
- rapid wilt



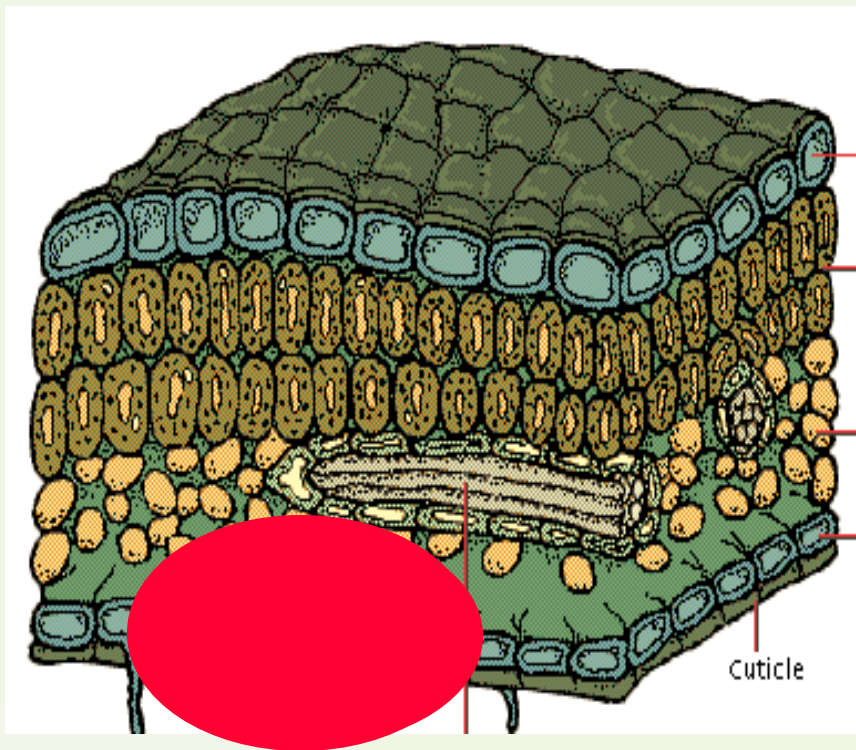


Wilting

Water Evaporation

Open
100 litres / t / h

Closed
20 litres / t / h



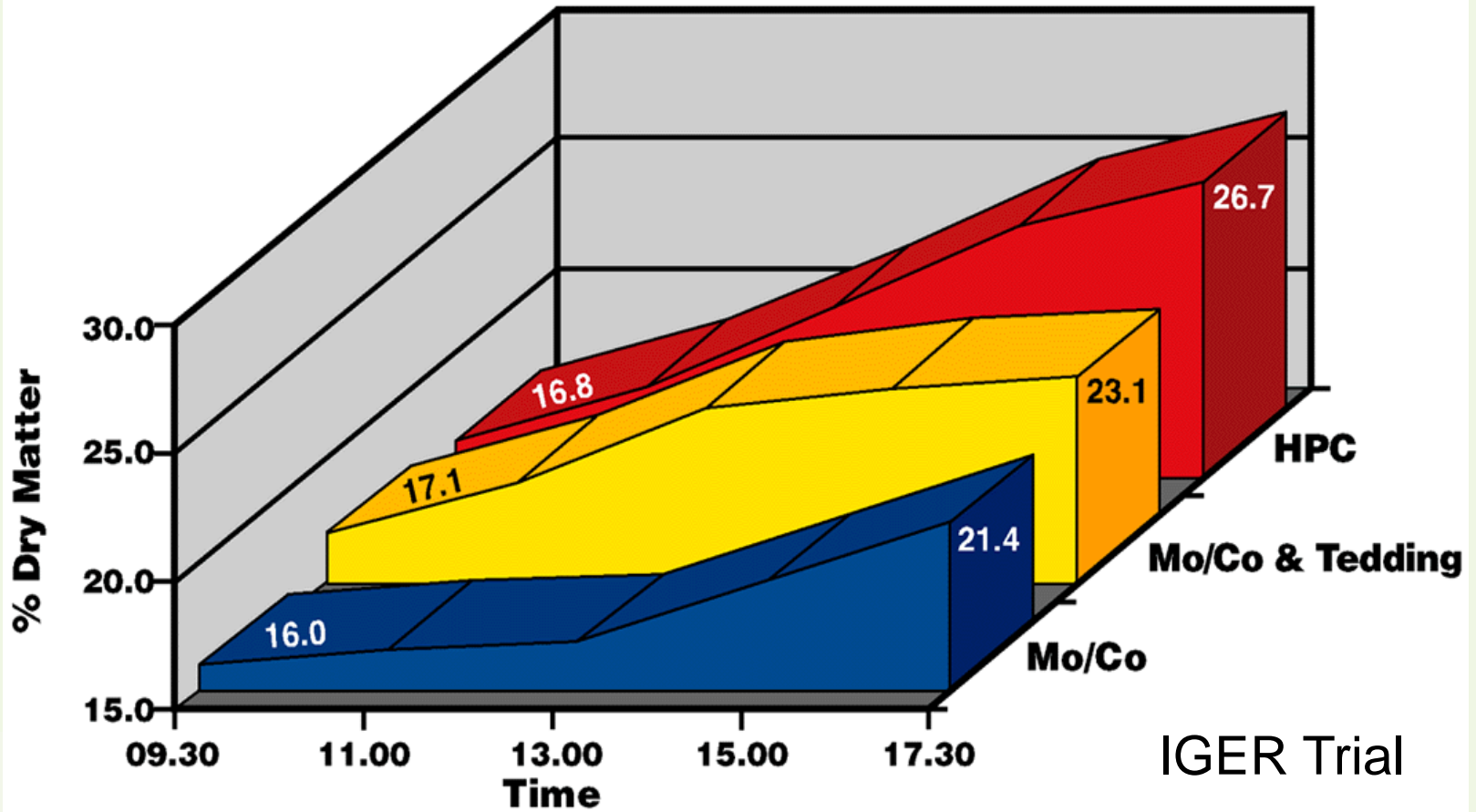


Wilting Research





Comparison of Drying Times





WSC Requirements for a Good Fermentation Assuming Best Practice

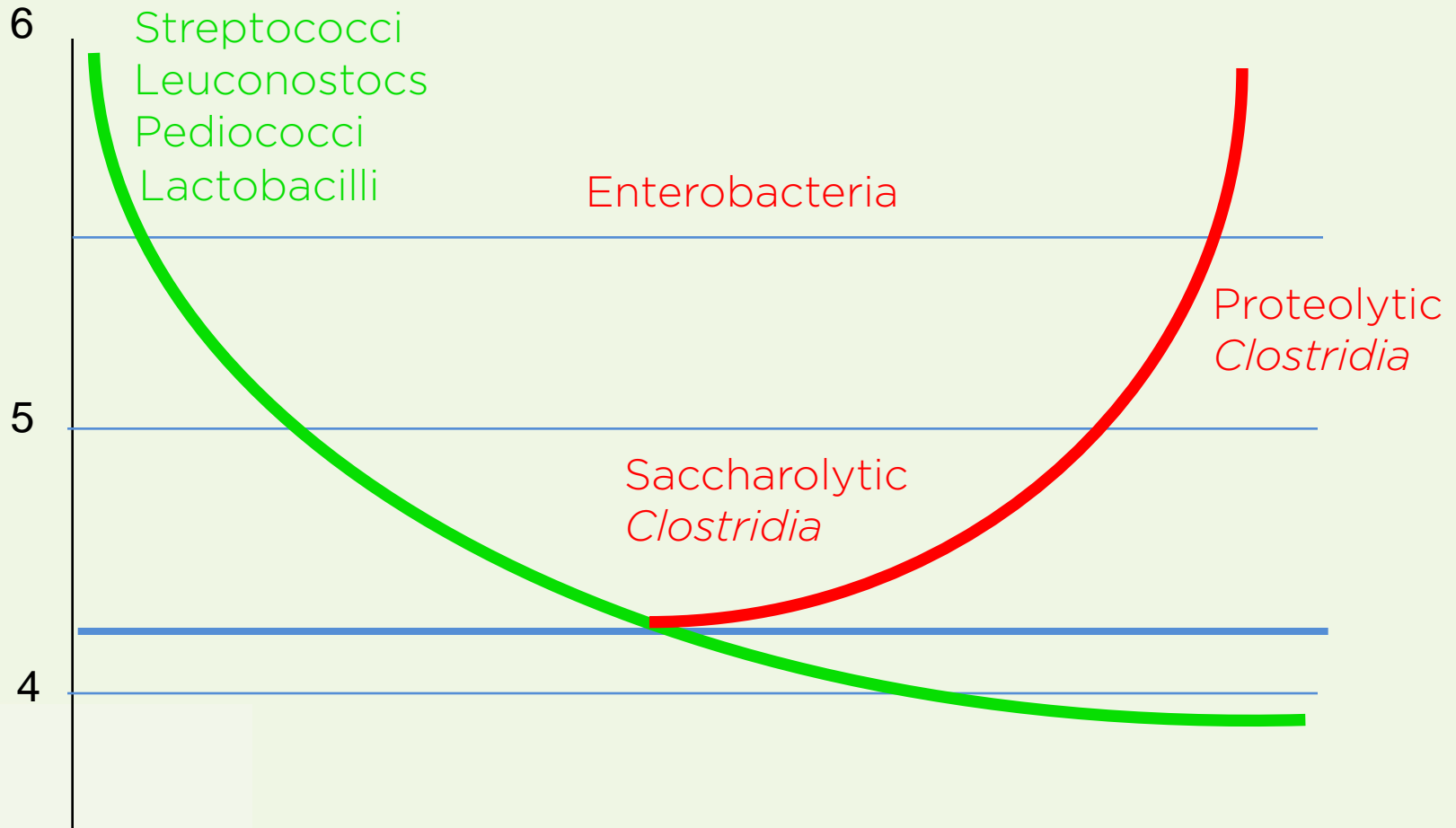
	%FM	
Experimental	2.0	Wilkinson et al. 1981
Farm	3.0	
Untreated	2.5	Petterson and Lindgren 1990
Inoculated	2.0	



Additives

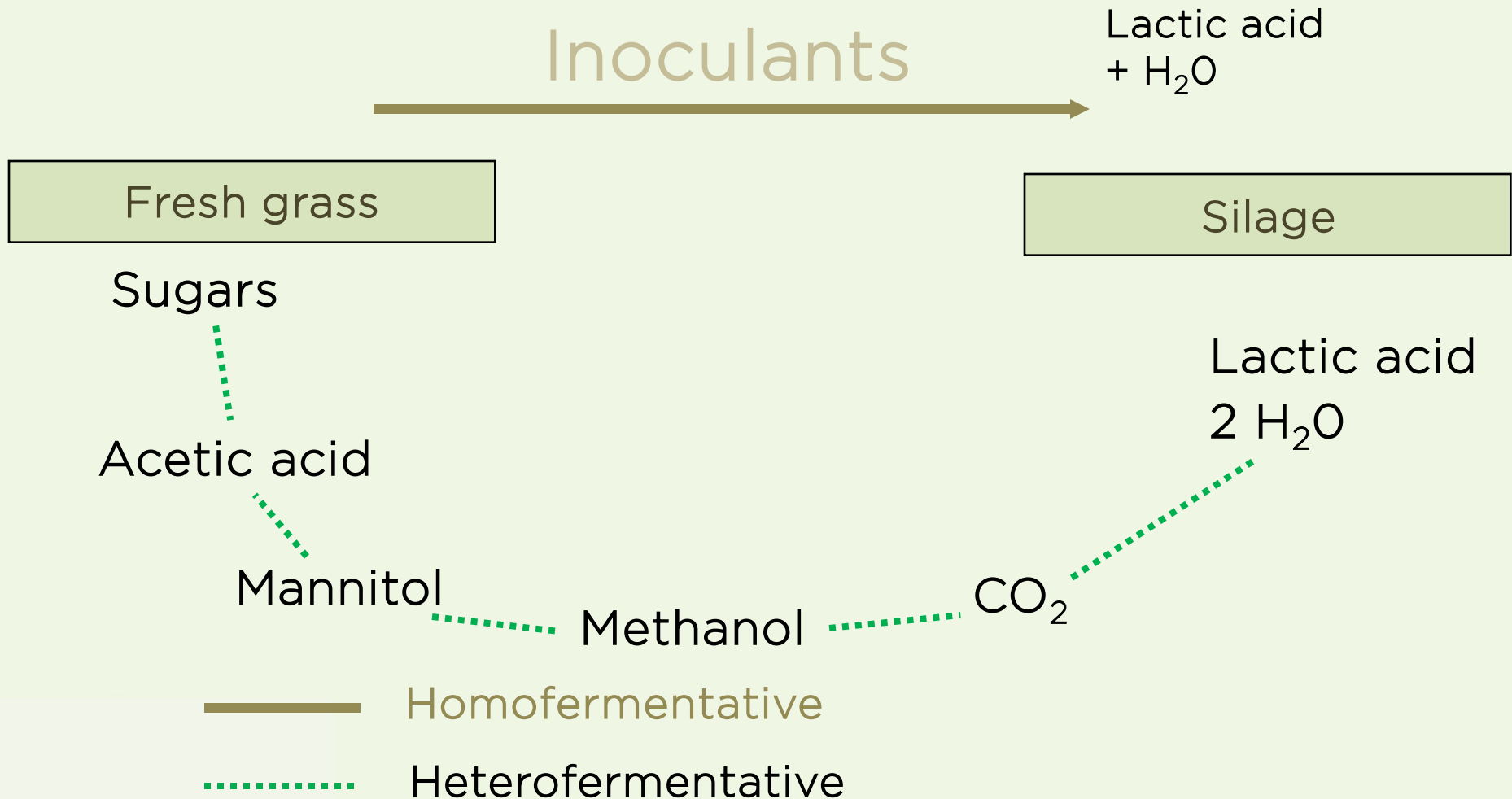


Qualitative Changes in Silage Microflora During Fermentation





Fermentation





Additives and Grass Silage WSC

	pH	Ammonia-N (g/kg TN)	Lactic Acid (g/kg DM)	WSC (g/kg DM)
Untreated	4.3	71	85	40
Heterofermentative	4.3	68	90	22
Homofermentative	4.1	46	101	40

Chemical Additives



What is the Most Effective Method for Harvesting and Storing your Autumn grass?

- Precision chopped forage harvester and silage clamp (Forage Wagon and silage clamp)
- Round bale with no forage chopping
- Round bale with chopping
- Square bale
- Soil contamination





Take Home Messages

- Increase rate of wilting by spreading the crop this increases the sugar content relative to fresh matter
- Ensure good palatability by controlling fermentation by using homo-fermentative silage inoculants or chemical additives
- Opening an existing clamp to place a small quantity of 3 cut grass on top is a big risk. If there is not an empty clamp available strongly suggest baling



Our Resources



Website:

www.silageadvice.com

Factsheets:

www.silageadvice.com/factsheets

Advisory articles:

www.silageadvice.com/library



The Silage Advisory Centre is supported by



For more information please visit:

www.silageadvice.com

Follow us on Twitter:

[@silageadvice](https://twitter.com/silageadvice)





Contact us

info@silageadvice.com

David Craig
Managing Director
+44 (0) 7740 447 965

Sergio Di Gesù
Secretary & PR Manager
+32 (0) 2 413 0340

For more info:
www.silageadvice.com

Thank You!