# Low cost erosion control techniques



www.earthintegral.com

#### Maximising Solar Capture by Controlling Time in Planned Grazing

MAL ACKES IN

Contract .

#### Over the Fence – 23mm Storm

#### 13-2-2008



Relationship between levels of soil organic carbon (OC) in the 0-30 cm soil profile and <u>additional</u> soil water holding capacity. (Average soil bulk density 1.4 g/cm3)

Change in OC concentration	Change in OC stock (kg/m2)	Extra water (litres/m2)	Extra water (litres/ha)	CO 2 sequestered (t/ha)
1%	4.2	16.8	168,000	154
2%	8.4	33.6	336,000	308
3%	12.6	50.4	504,000	462
4%	16.8	67.2	672,000	616

Constantly stocked phalaris Plant August 2007 7t roots/ha (wet)

Phalaris plant 70 days after grazing

93t roots /hectare (wet)



#### Energy Flow and the Importance of Time



Sept 2005

#### Extending the Growing Season is Possible with Planned Grazing



### Applied Watershed Restoration Structure Diagrams

Craig Sponholtz, Dryland Solutions, Inc.

For more information and photo examples, please visit: www.DrylandSolutions.com



## In-Channel Headcut Treatments







3: Rear wall flush with the back edge of the cut, with sod used to fill any gaps

1: Splash apron about 50mm above the gully floor

2: Splash pool wall built to half the height of the original headwall cut





#### **In-Channel Headcut** Treatments Log and Fabric Step-Down Construction tabric fokled febro Square off headwall, sidewalls and bottom of channel and drape geotextile fabric across headwall and side walls. Prepare platform for final tier. Fold tablic over next to last tier sod wads along leading edge top edde fabric cut off even with the end of the top tier and should not be visible on final diructure fabric Install logs in tiers. wire wrapped in a Add final ber of logs sightly lower than top edge and wire down. figure eight around logs Tuck in fabric on lower tier and install sod clumps along leading edge and sides.







