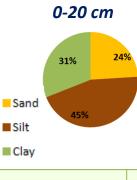
# *Monitoring visit – 17 June 2019* Az. "Carrà Stefano"

### VINEYARD FEATURES

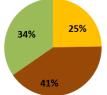
	Parco fluviale del			
Protected area	Trebbia			
Elevation	218 a.s.l.			
Cultivar	Croatina			
Training system	Guyot			
Distance in the row	1.3 m			
Distance between rows	2.3 m			
Traditional soil management technique	Alternate, mid-row spontaneous grass. Herbicides under the vine strip. Other mid-row is			
	tilled.			

SOIL FEATURES





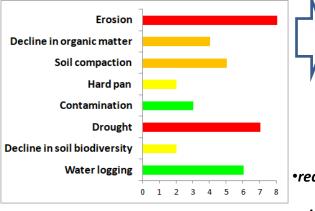
60-80 ст



#### <u>Texture:</u> CLAY LOAM

_ 1			
		0-20 cm	60-80 cm
,	рН	8.13	8,26
	Total CaCo <sub>3</sub> (%)	32	22.6
	ActiveCaCo <sub>3</sub> (%)	12.6	12.8
	Organic matter (%)	2.53	0,99

### POTENTIAL SOIL THREATS



## REAL SOIL THREATS

•EROSION •DECLINE IN ORGANIC MATTER •DROUGHT •COMPACTION AND HARD PAN

### **MITIGATION GOALS**

 reduction of erosion;
 increase of soil organic matter;
 reduction of compaction and breakage of hard pan
 increase in soil water holding capacity

### PROPOSED SOLUTION

MID-ROW GREEN MANURE SLASHED AND INCORPORATED INTO SOIL LATE SPRING AND ADDITIONAL SLASHING DURING THE SEASON. no effects not recommended limited effectiveness medium effectiveness strong effectiveness

Erosion	Decline in organic matter	Compaction	Hard pan	Contamination	Drought	Decline in soil biodiversity	Water logging

With the contribution of the LIFE financial instrument of European Community Coordinator: Università Cattolica del Sacro Cuore; Contact: DIPROVES, Facoltà di Agraria, Piacenza www.unicatt.it



VINIDEA

	e composition		owing dose: 90	0 kg/ha	<ul> <li>Grasses</li> <li>Brassica</li> <li>Legumes</li> <li>Others</li> </ul>
	Avena sativa	10%	Pisum sativuı	m ssp	10%
	Avena strigosa	16%		<i>tivum</i> oleiform	
	Brassica juncea	1%	Sinapsis alba		1%
	Faba minor	9%	Trifolium squ	arrosum	4%
9.	Lolium italicum	15%	Vicia sativa		10%
	Phacelia tanacetifolio	<b>a</b> 3%	x Triticosecal	е	17%
	WETABLE				
		JAN-MAR	APR-JUN	JUL-SEPT	OCT-DEC
UNIVERSITÀ CATTOLICA del Sacro Cuore years 1-2 r					
del Sacro Cuore years 1-2 r	nitigation action follow-up				





With the contribution of the LIFE financial instrument of European Community Coordinator: Università Cattolica del Sacro Cuore; Contact: DIPROVES, Facoltà di Agraria, Piacenza www.unicatt.it

swarding

sowing

swarding

year 3

incorporation

incorporation soil analysis

mitigation action follow-up

soil biodiversity assessment