



UNIVERSITÀ DEGLI STUDI DI MILANO
FACOLTÀ DI SCIENZE AGRARIE E ALIMENTARI

VALUTAZIONE DEI PRINCIPALI PARAMETRI
ECOFISIOLOGICI E DEL CONTENUTO MINERALE
DI DUE COLTIVAZIONI DI *Papaver nudicaule* L.

PSR – Progetto CONVAFLOR

Scopo del **progetto “Convaflor”** è di caratterizzare il materiale presente selezionato negli anni dai produttori, mantenere questo materiale vegetale in campo collezione dedicato, effettuare valutazioni agronomiche e fisiologiche per migliorare la qualità, utilizzare anti-etilenici per prolungare la durata post-raccolta.



PSR
Programma
di Sviluppo
Rurale della
Regione Liguria

Localizzazione



Valutazione eco-fisiologiche della coltivazione del papavero

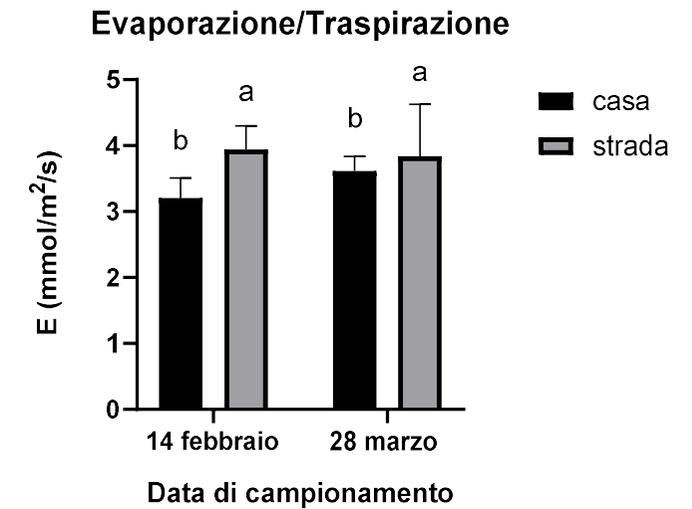
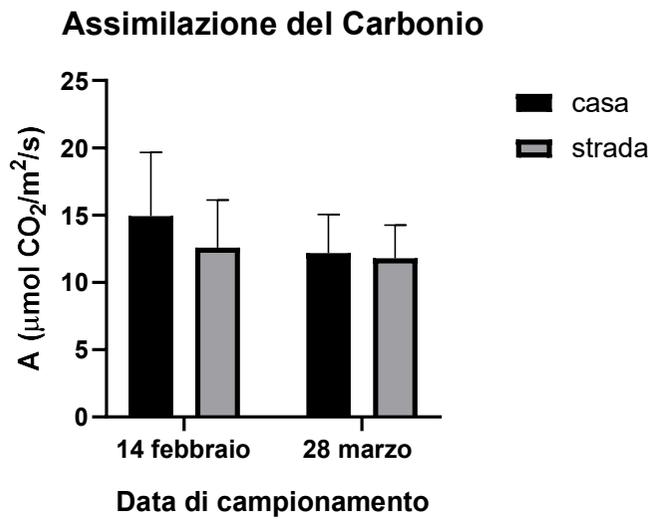
- Misurazione degli scambi gassosi (A, E, Ci, VPD)
- Clorofilla, Flavonoli e stato azotato.
- Fluorescenza della clorofilla a
- Composizione minerale



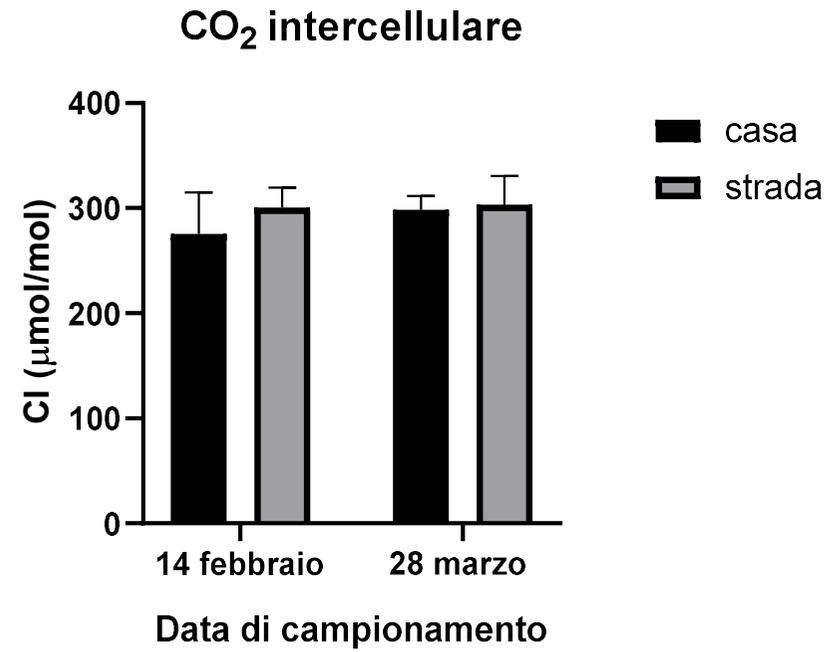
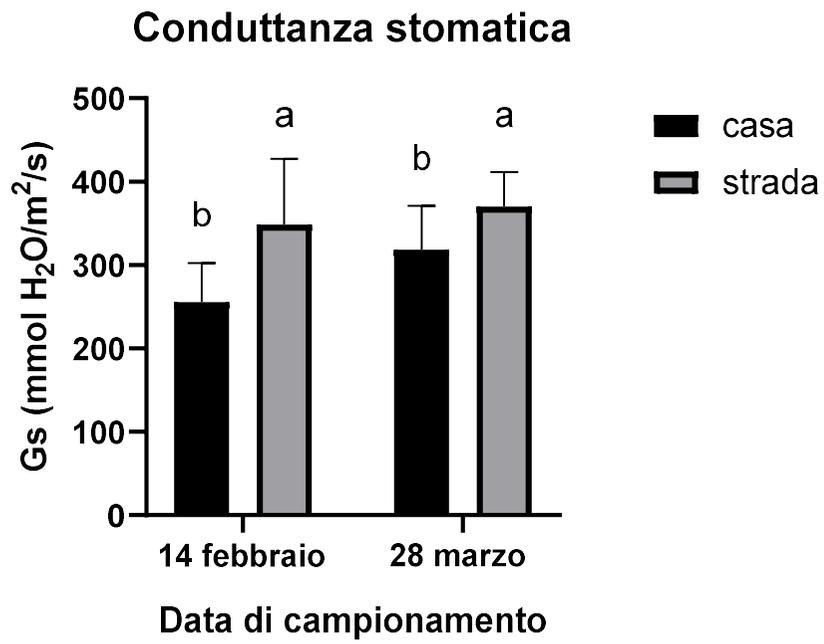


CIRAS IV – misuratore degli scambi gassosi.

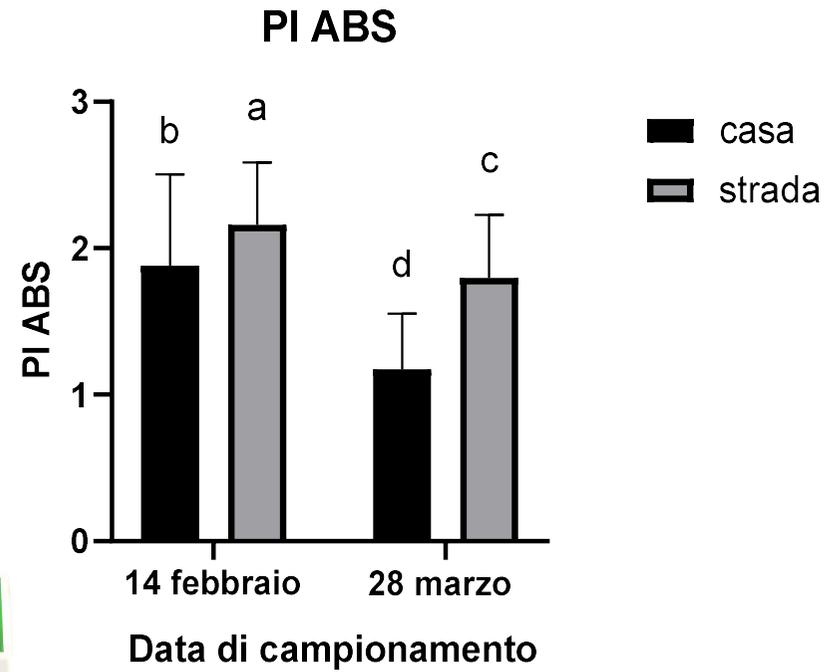
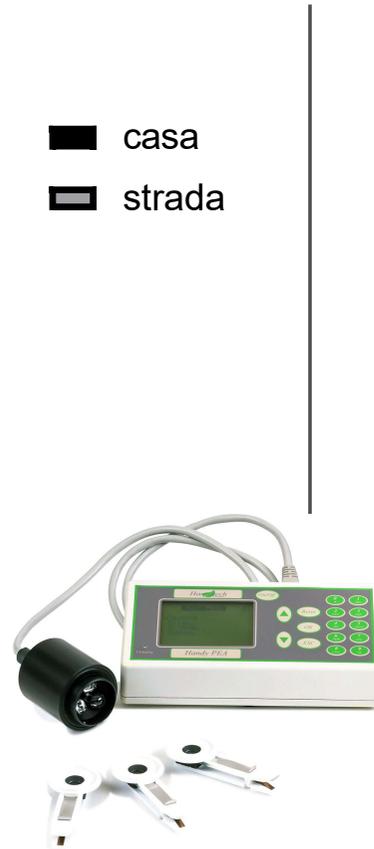
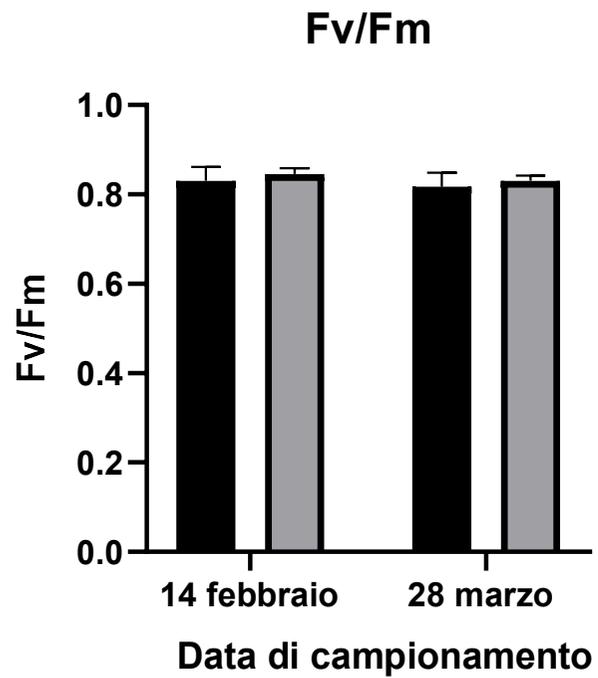
ANALISI DEGLI SCAMBI GASSOSI - CIRAS



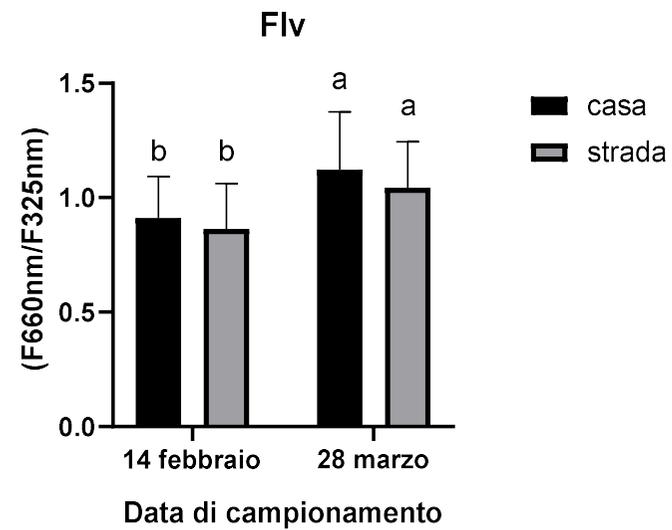
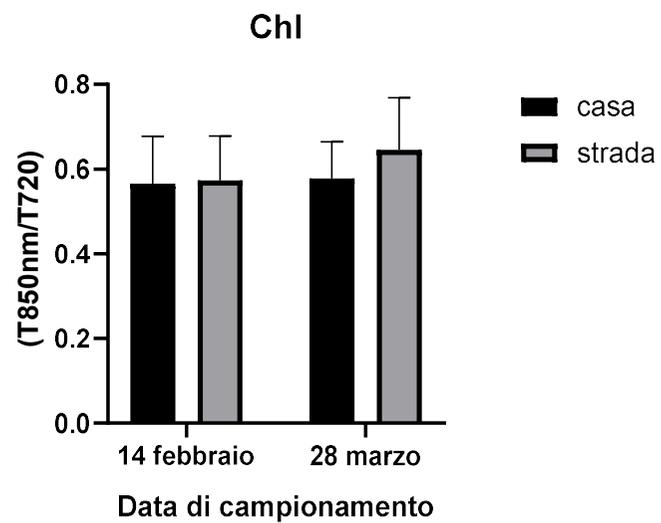
Fotosintesi netta

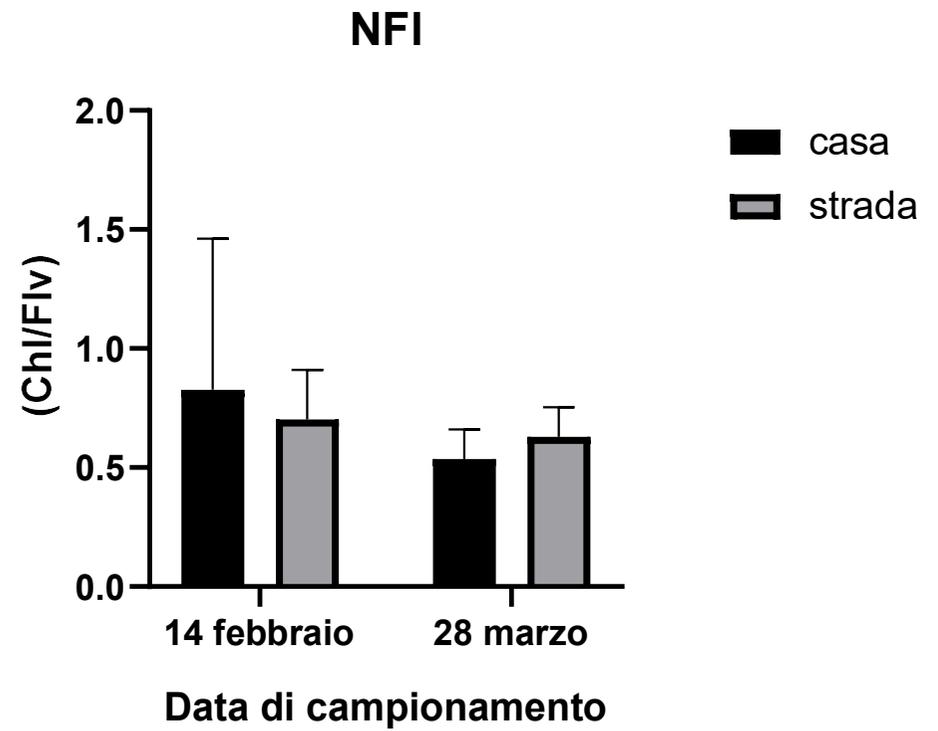
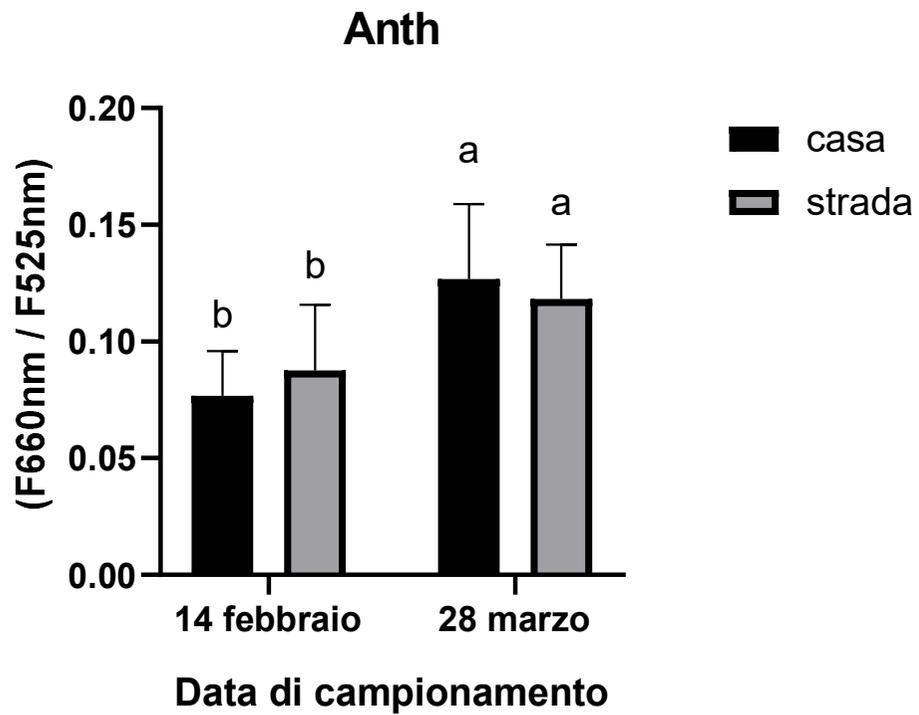


ANALISI DELLA FLUORESCENZA - FLUORIMETRO



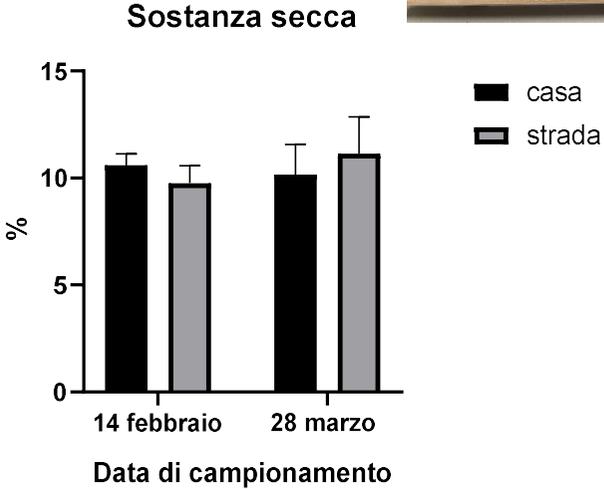
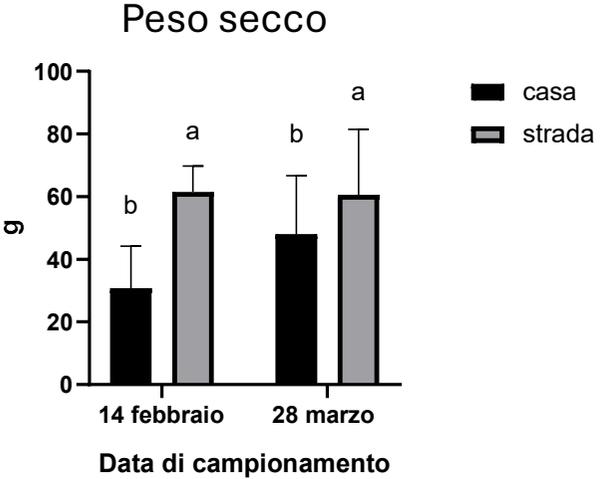
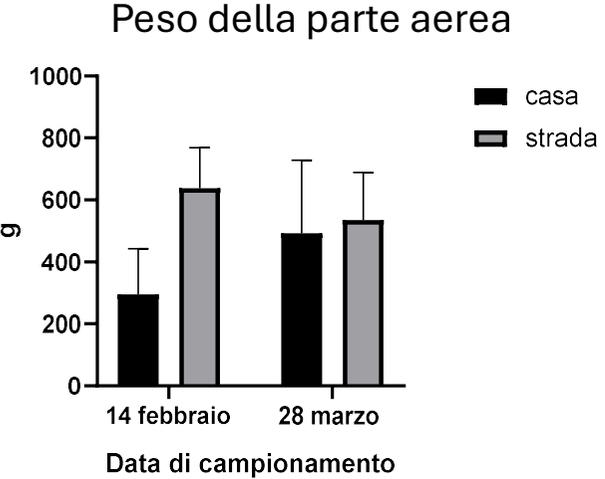
QUANTIFICAZIONE DEI PIGMENTI - MPM-100



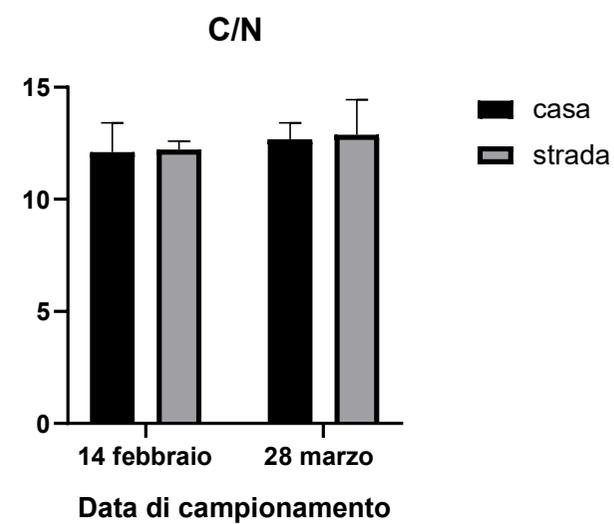
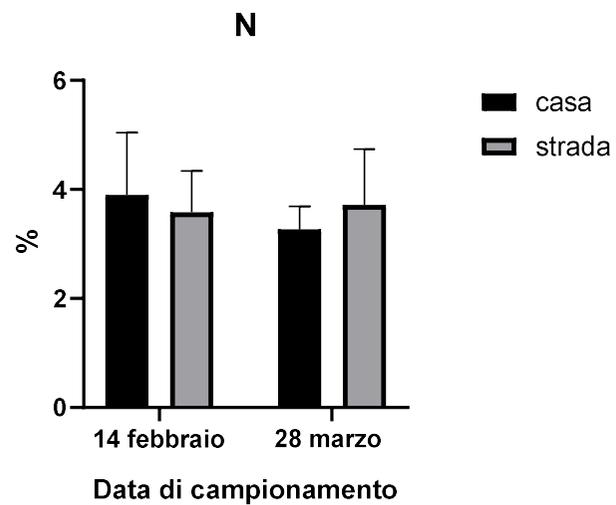
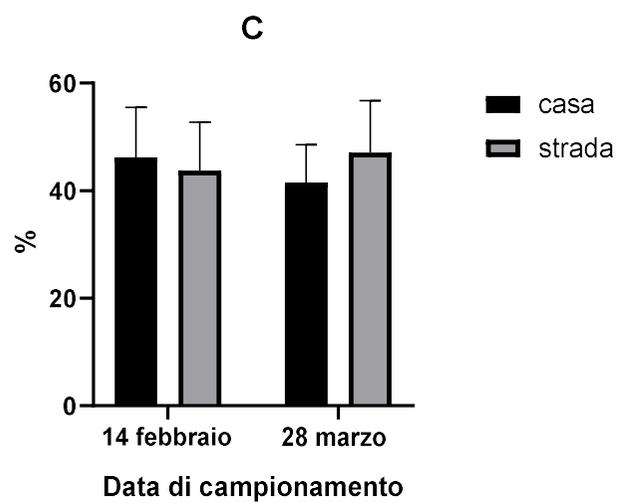


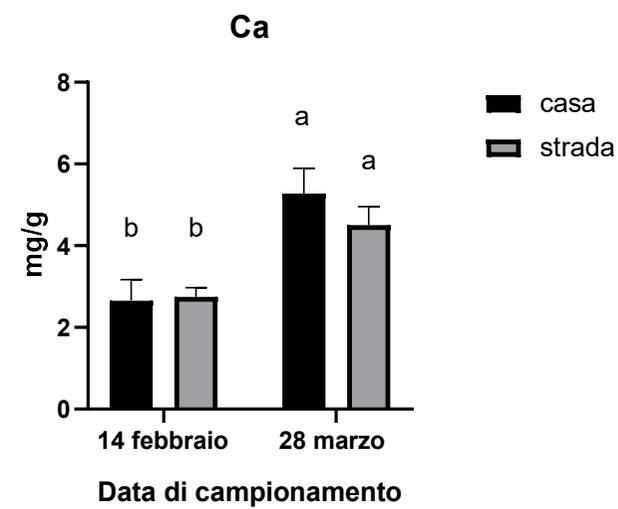
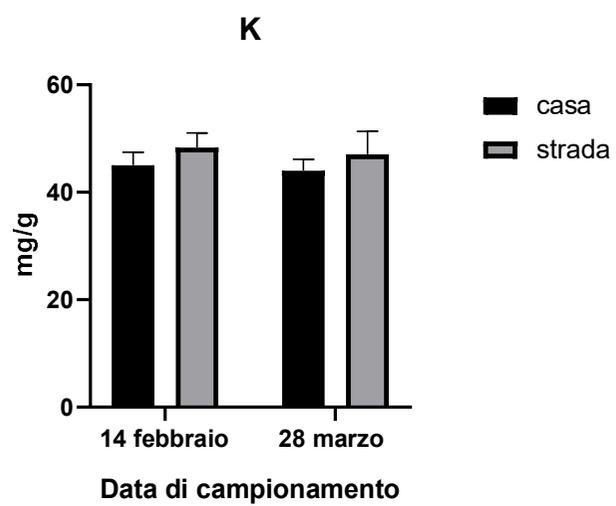
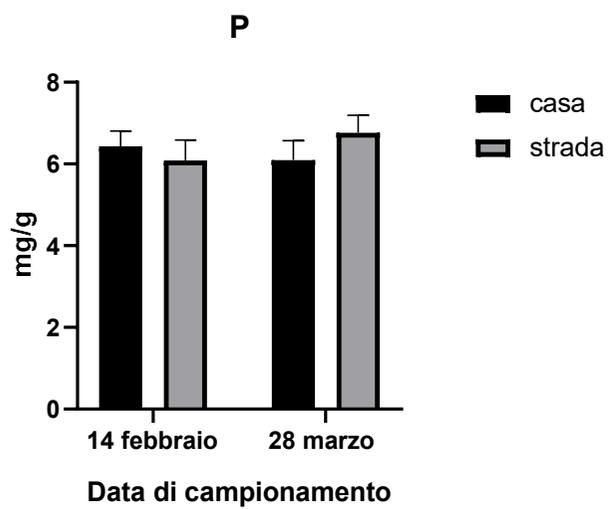
L'aumento del contenuto di antociani e l'abbassamento del NFI stanno ad indicare una condizione di stress.

BIOMASSA - PESO FRESCO, SECCO, % SOSTANZA SECCA

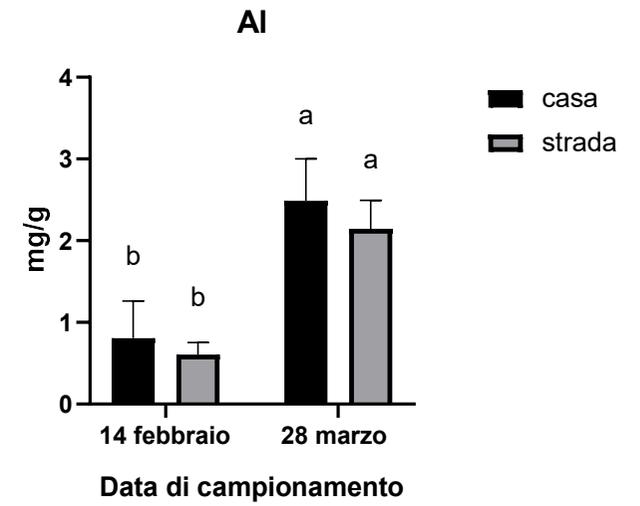
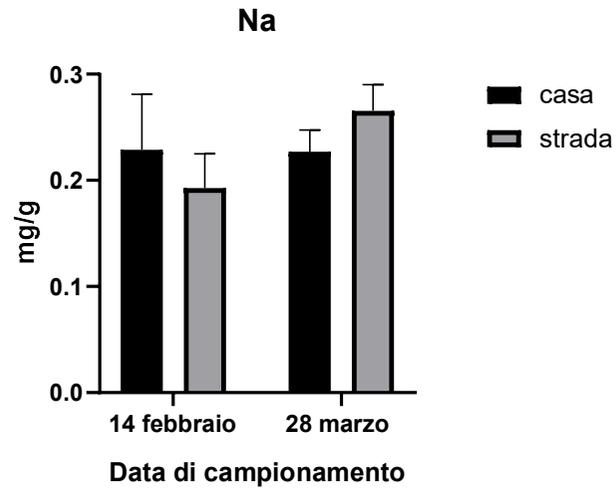
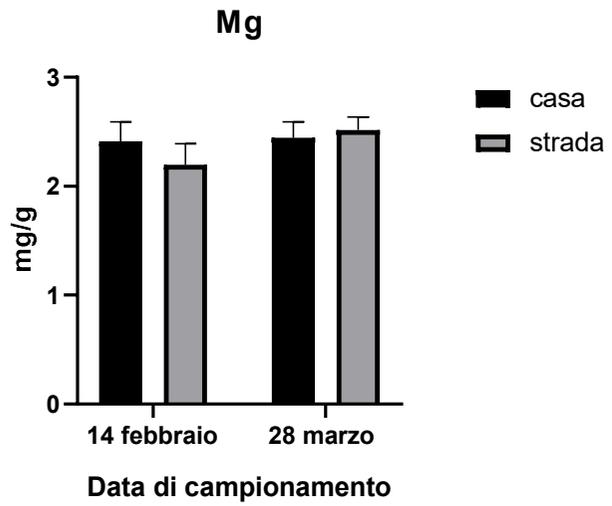


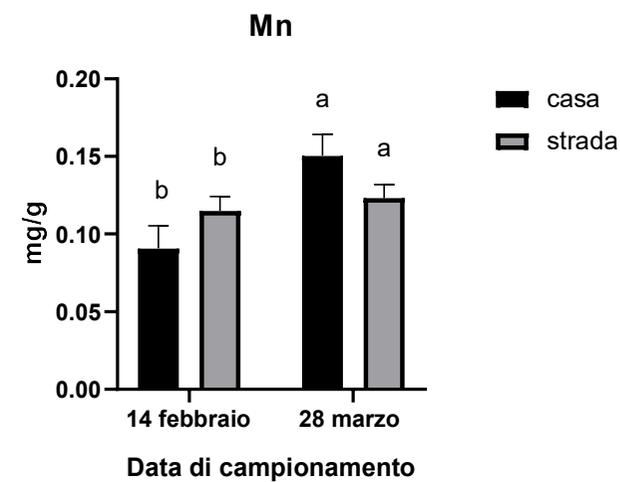
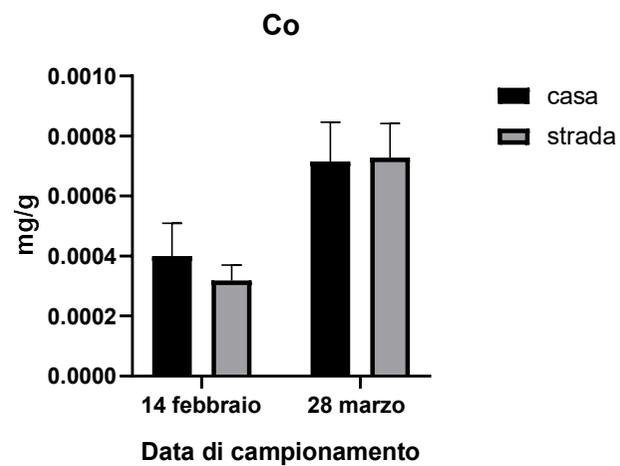
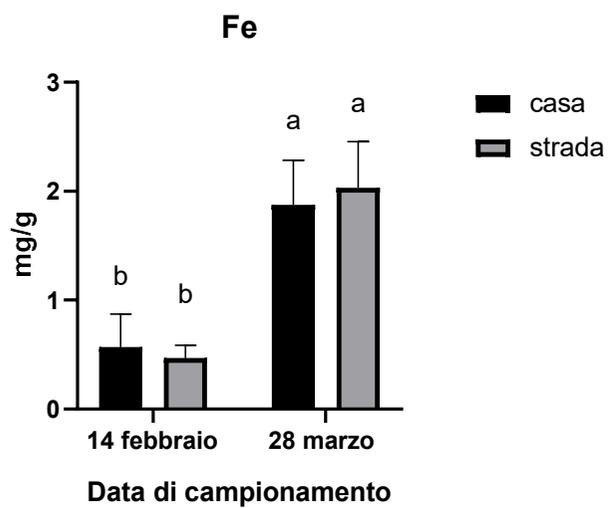
CONTENUTO MINERALE - ANALIZZATORE ELEMENTARE C-N



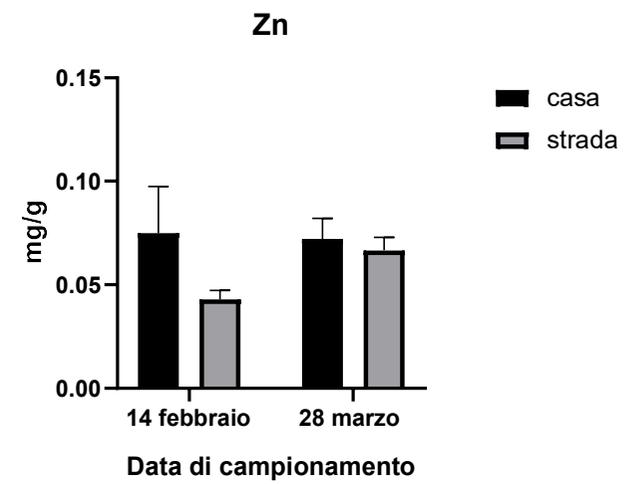
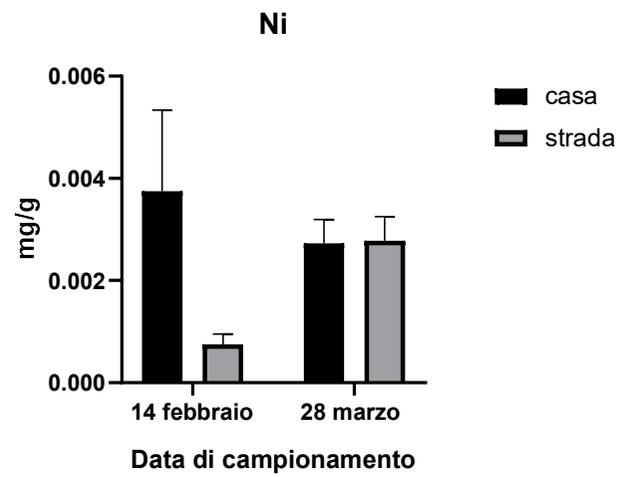
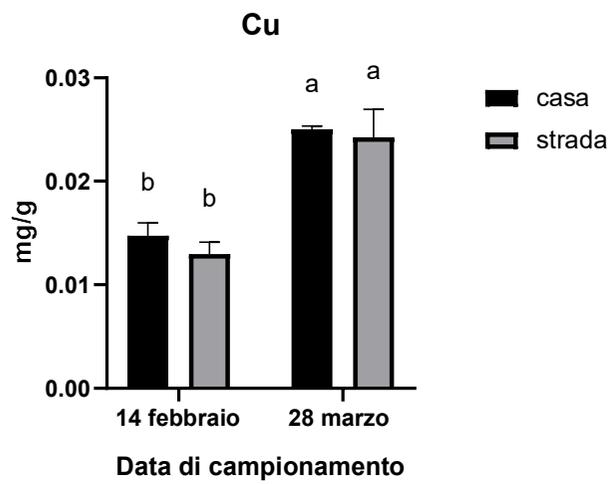


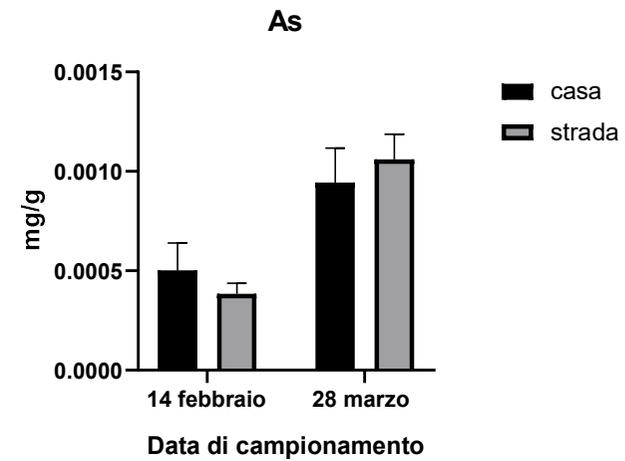
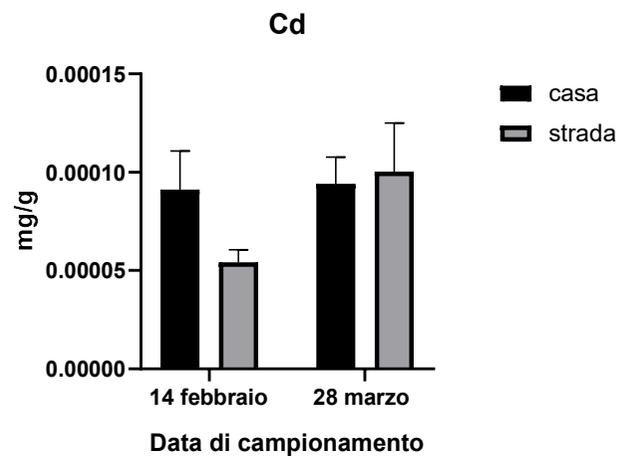
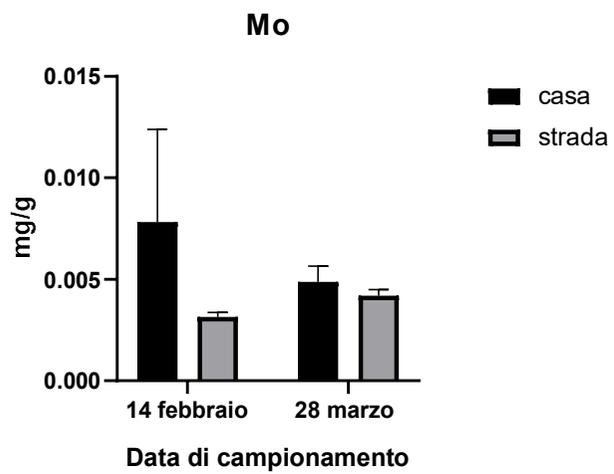
CONTENUTO MINERALE: ANALISI ICP - MS

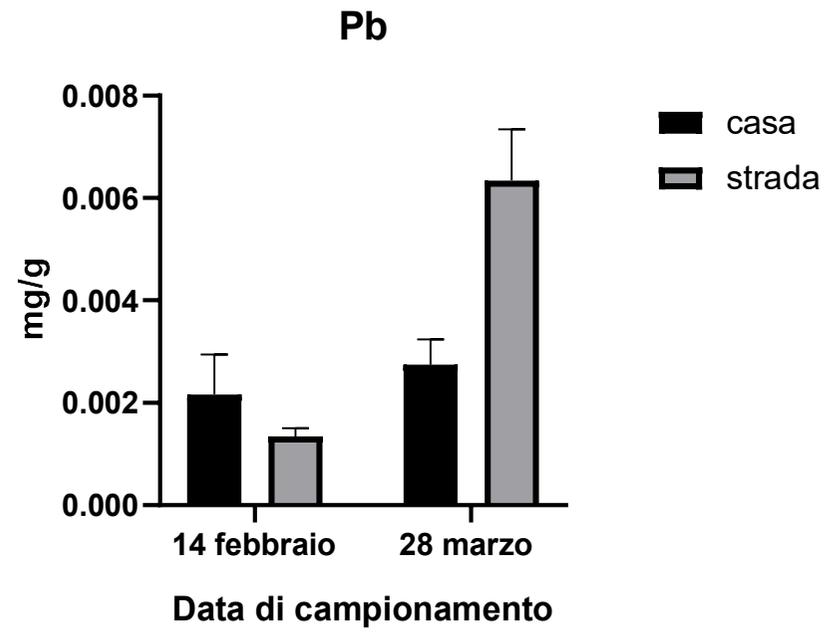
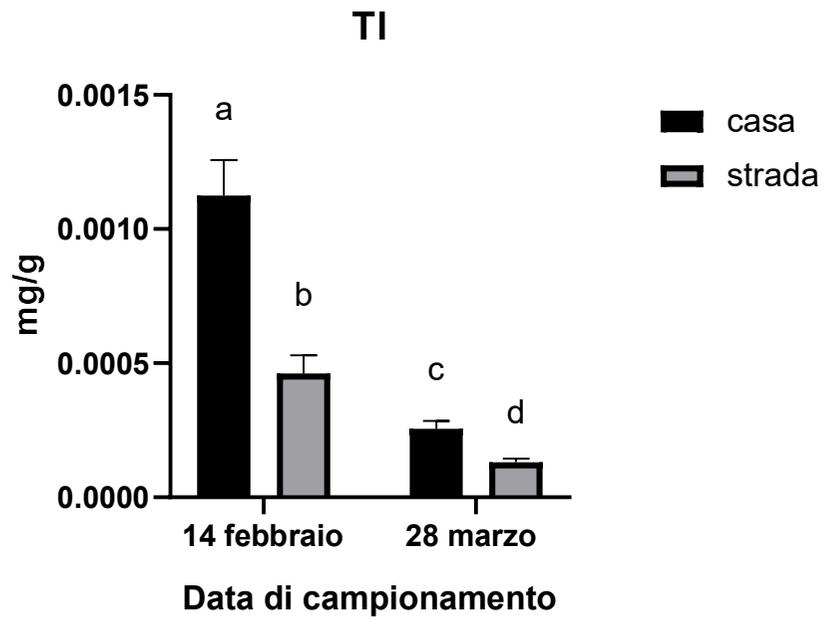




Si rileva un aumento dell'assorbimento con l'aumento delle temperature e radiazione luminosa.







Asportazioni totali

	g/m ²	kg/1000m ²	kg/ha			g/m ²	kg/1000m ²	kg/ha
Azoto (N)	24	24	240		Azoto (N)	24	24	240
Fosforo (P)	3,9	3,9	39		Fosforo (P ₂ O ₅)	11	11	114
Potassio (K)	30	30	300		Potassio (K ₂ O)	36	36	362
Calcio (Ca)	2,7	2,7	27		Calcio (CaO)	4	4	38
Magnesio (Mg)	1.5	1.5	15		Magnesio (MgO)	2	2	25

Conclusioni

Le piante di papavero hanno presentato:

- Una leggera riduzione dell'attività fotosintetica verso marzo;
- Maggiore prestazione nelle piante verso la strada rispetto a davanti casa;
- Nel mese di marzo iniziano ad essere stressate;
- Maggior assorbimento di alcuni macro e meso elementi nel mese di marzo.