

Sistemi Informativi Territoriali

Paolo Mogorovich
www.di.unipi.it/~mogorov

Principi dell'operazione di incrocio - Indice

- Relazioni spaziali tra oggetti
- Incrocio per esclusione
- Incrocio pesato
- Incrocio per trasferimento degli attributi
- Confronto fra i tre tipi di incrocio

Relazioni spaziali tra oggetti

Le relazioni spaziali tra oggetti

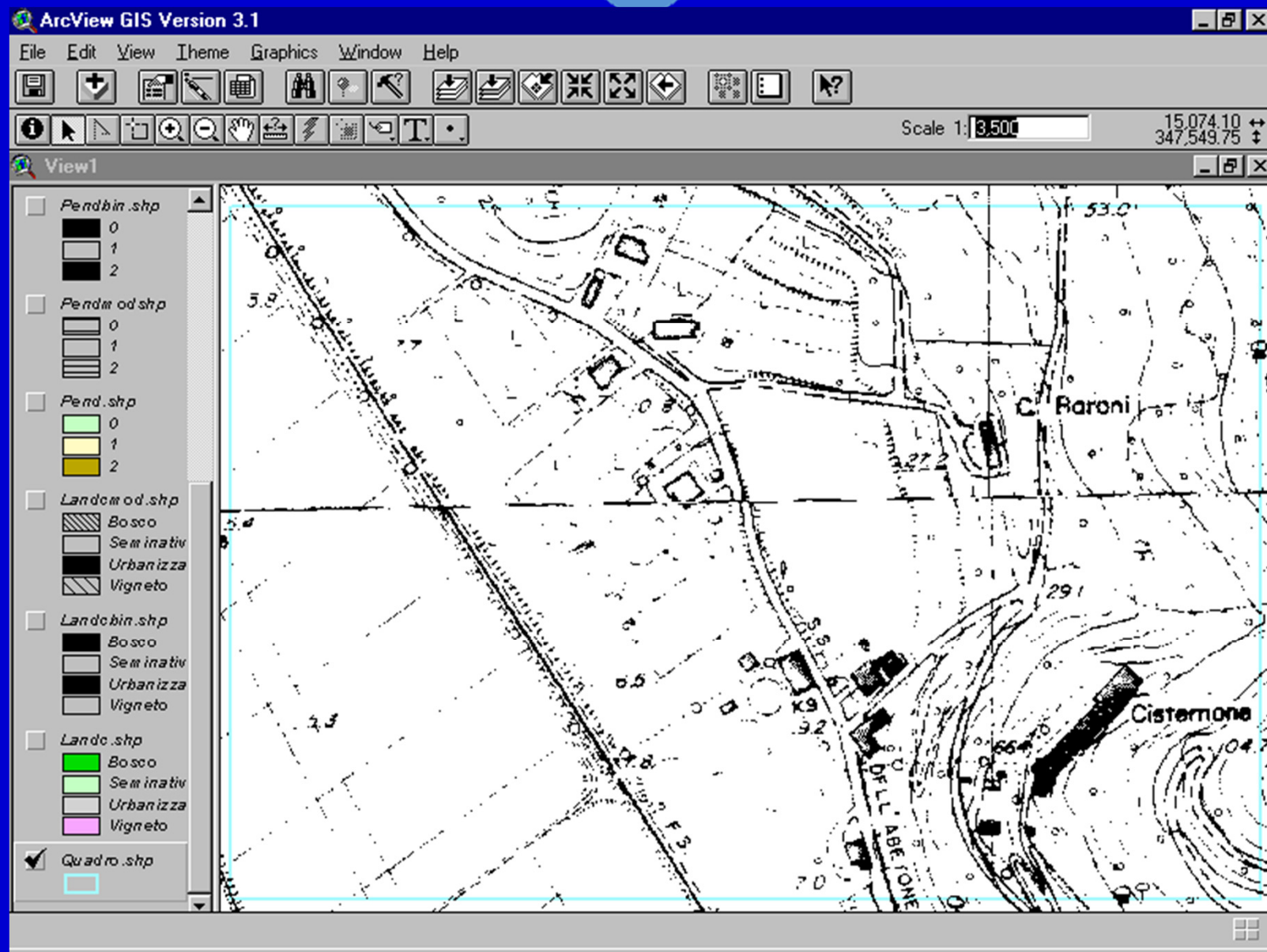
Gli strumenti della carta

Informazione contenuta in una carta

Gli strumenti GIS



Le relazioni spaziali tra oggetti

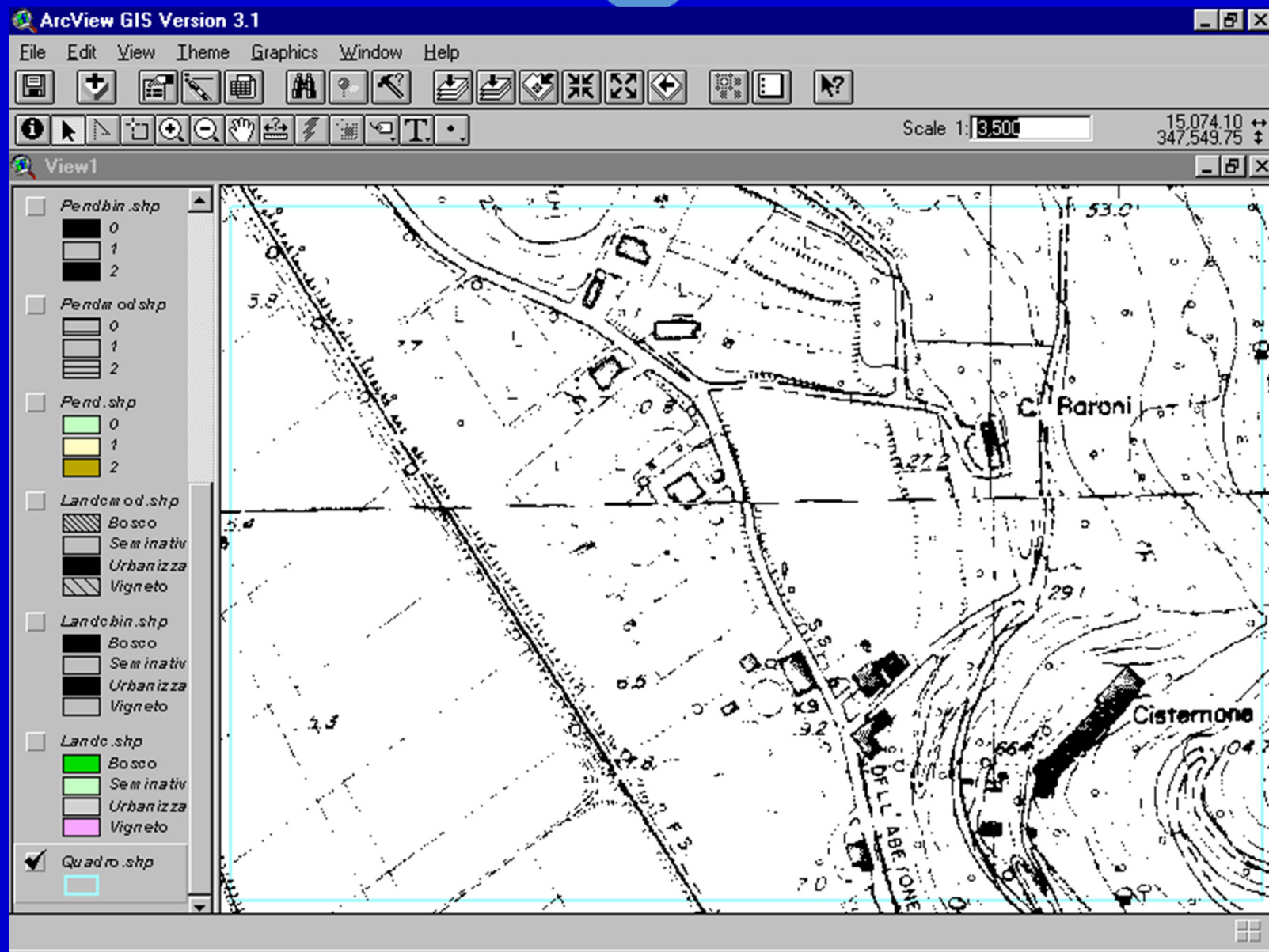


L'incrocio è il cuore della tecnologia GIS

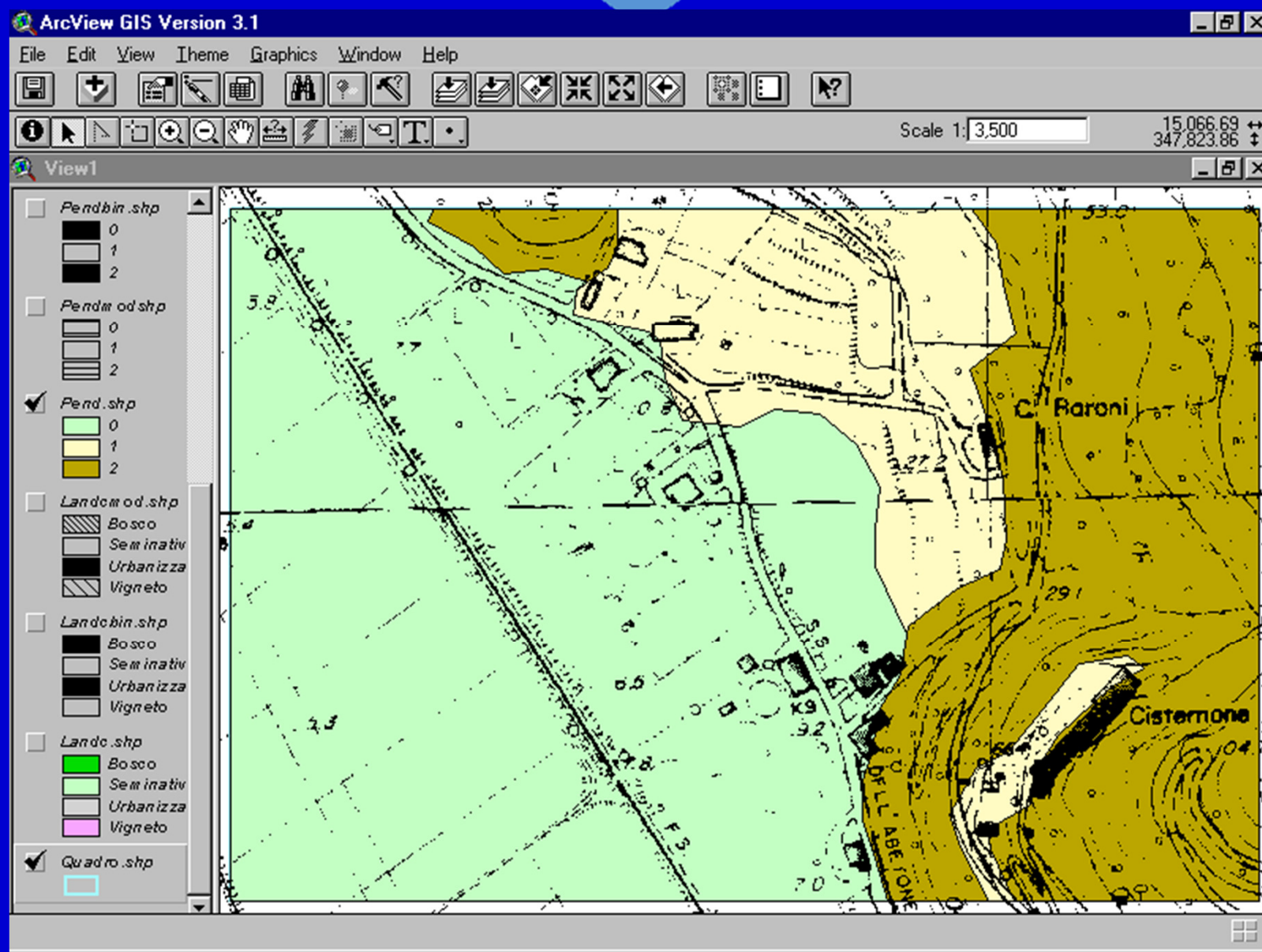
L'incrocio è la traduzione in algoritmo
dello spirito integratore
della tecnologia GIS

Incrocio per esclusione

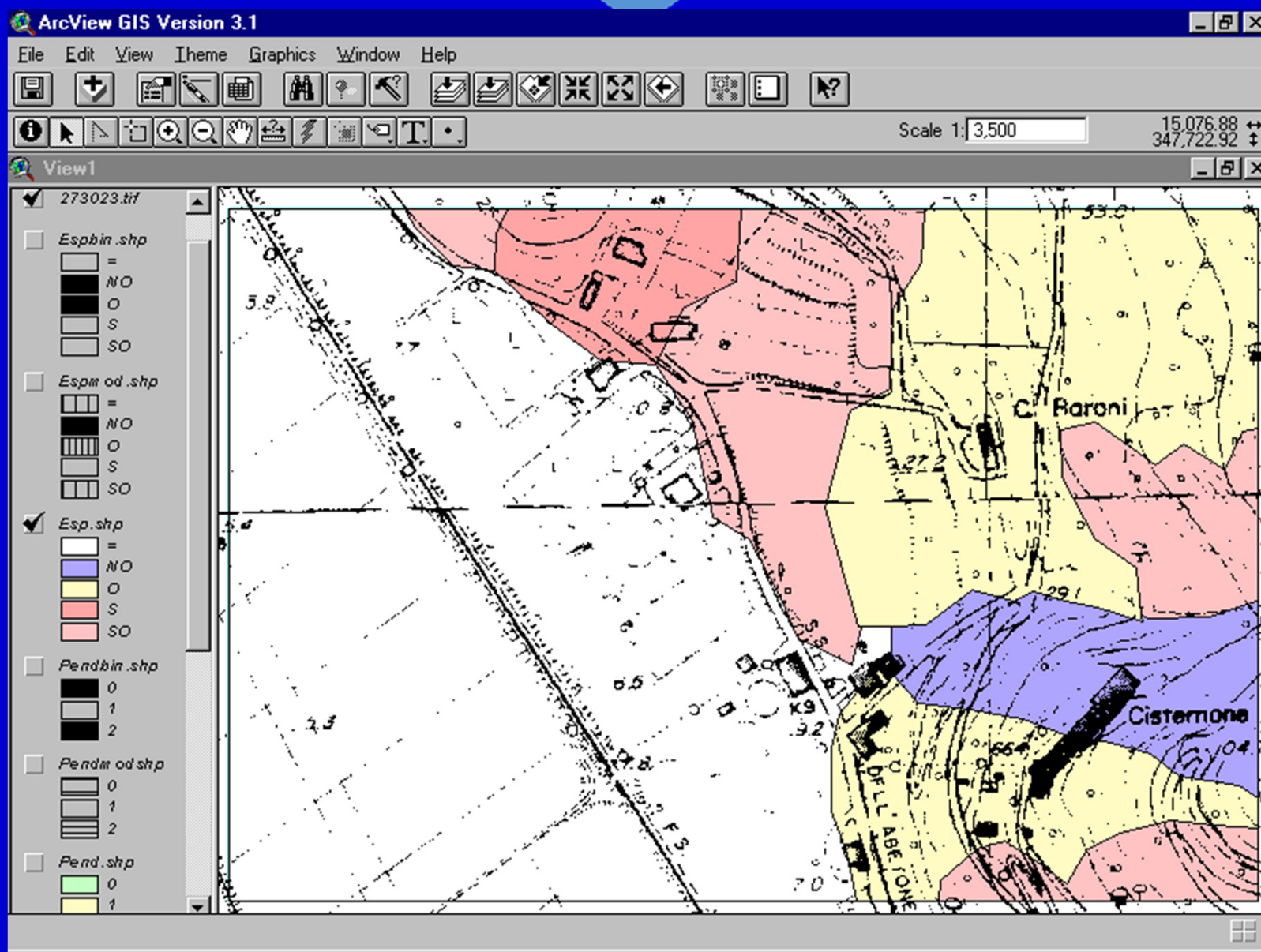
Incrocio per esclusione



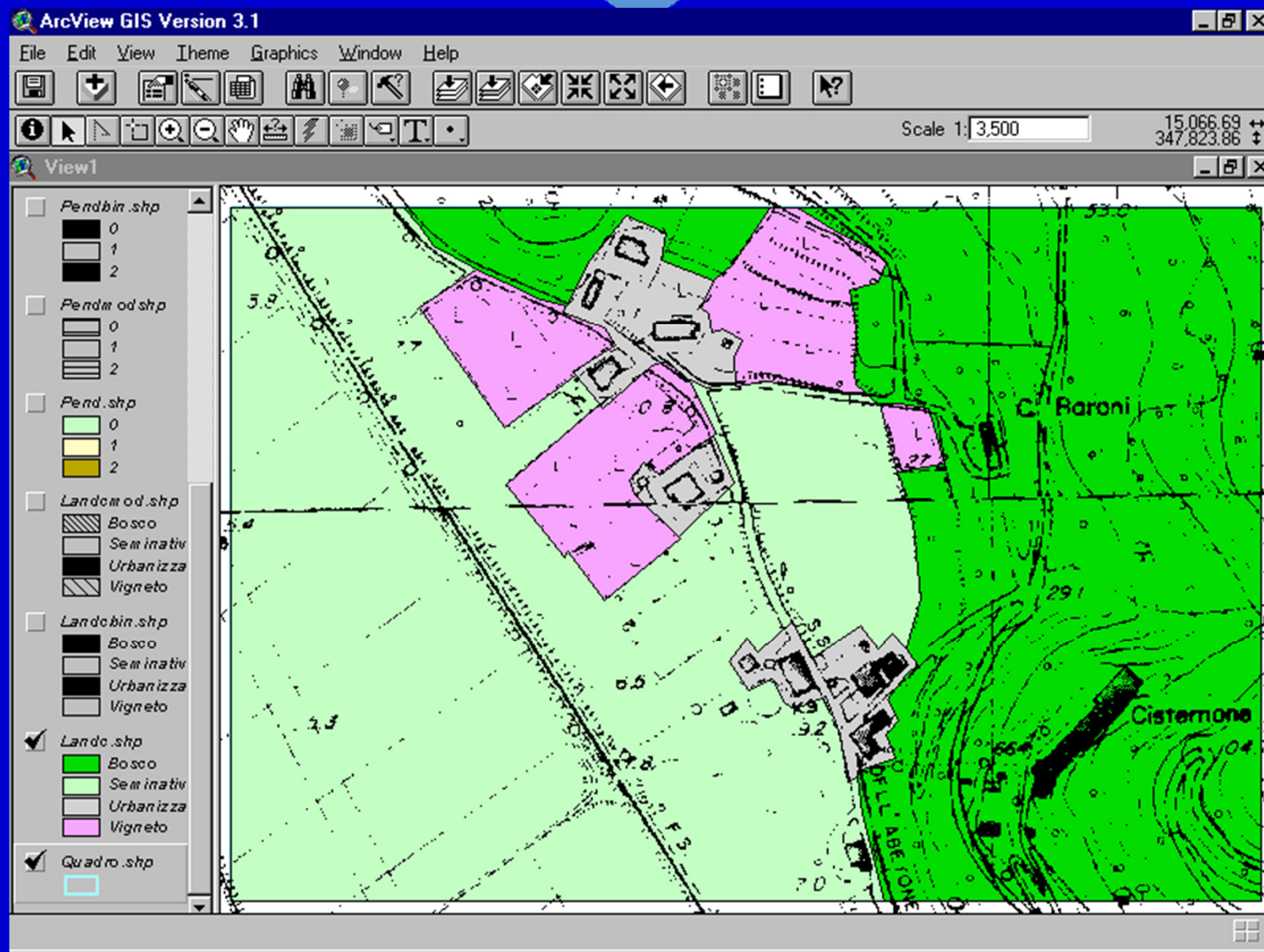
Incrocio per esclusione



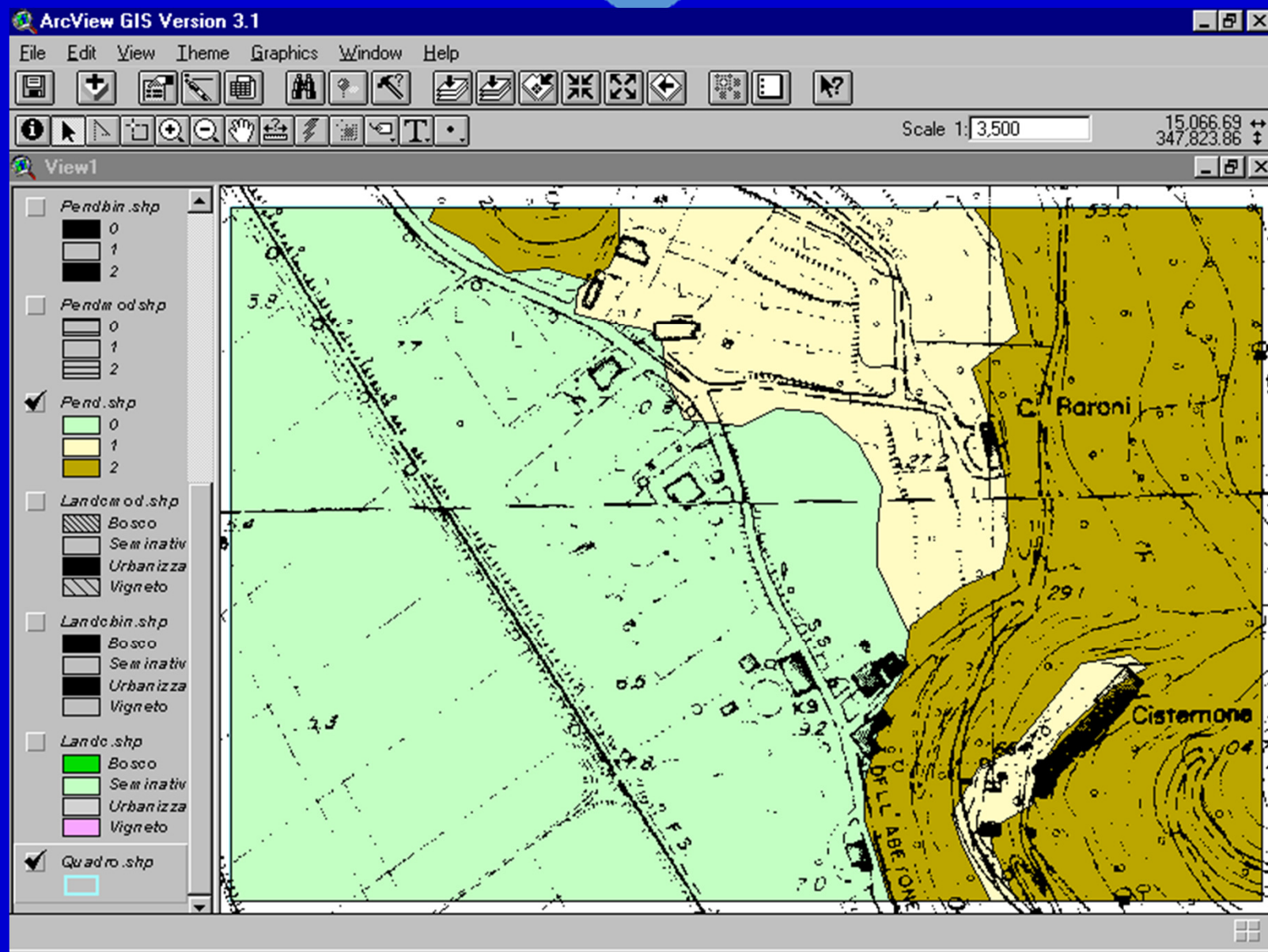
Incrocio per esclusione



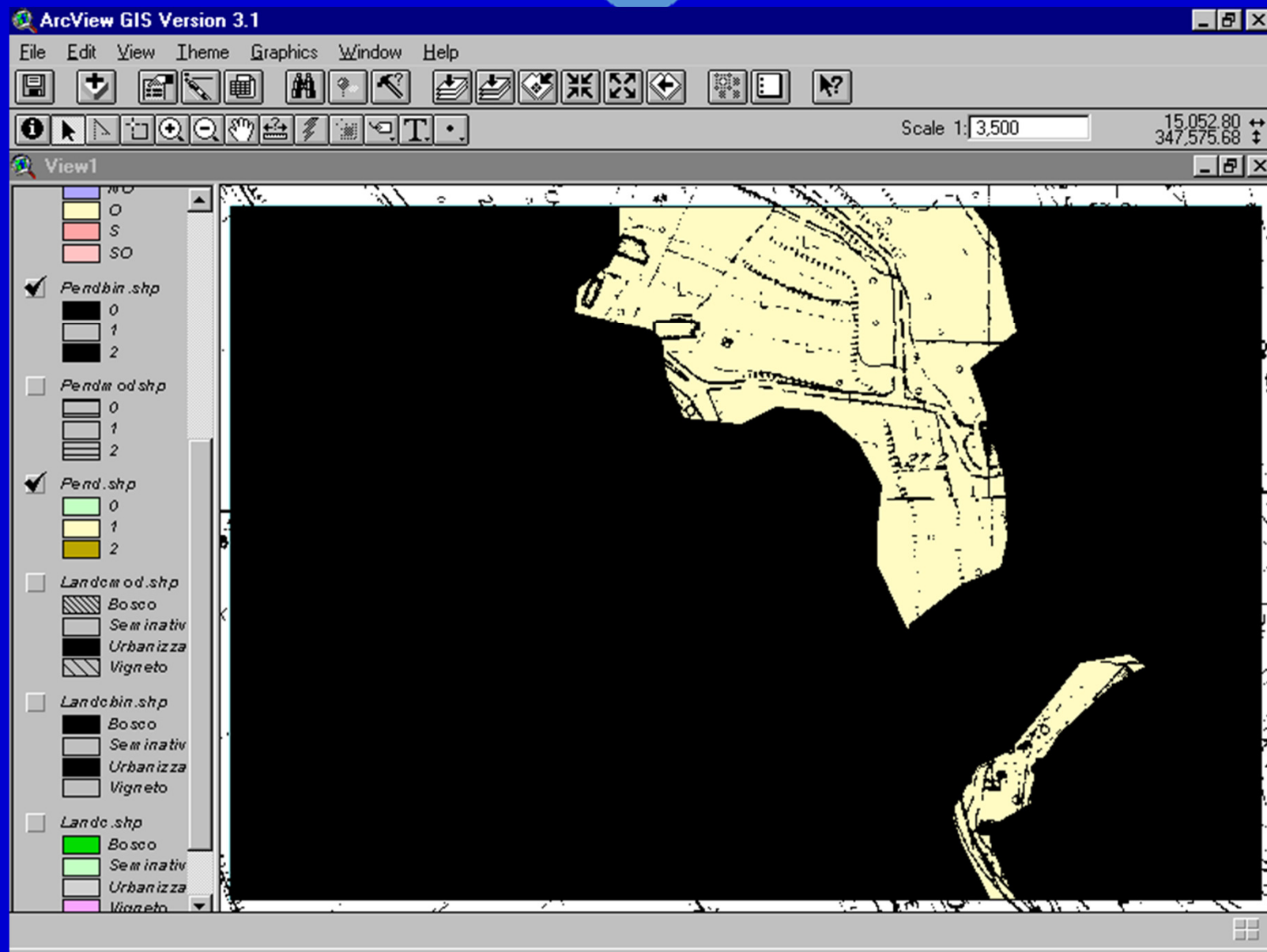
Incrocio per esclusione



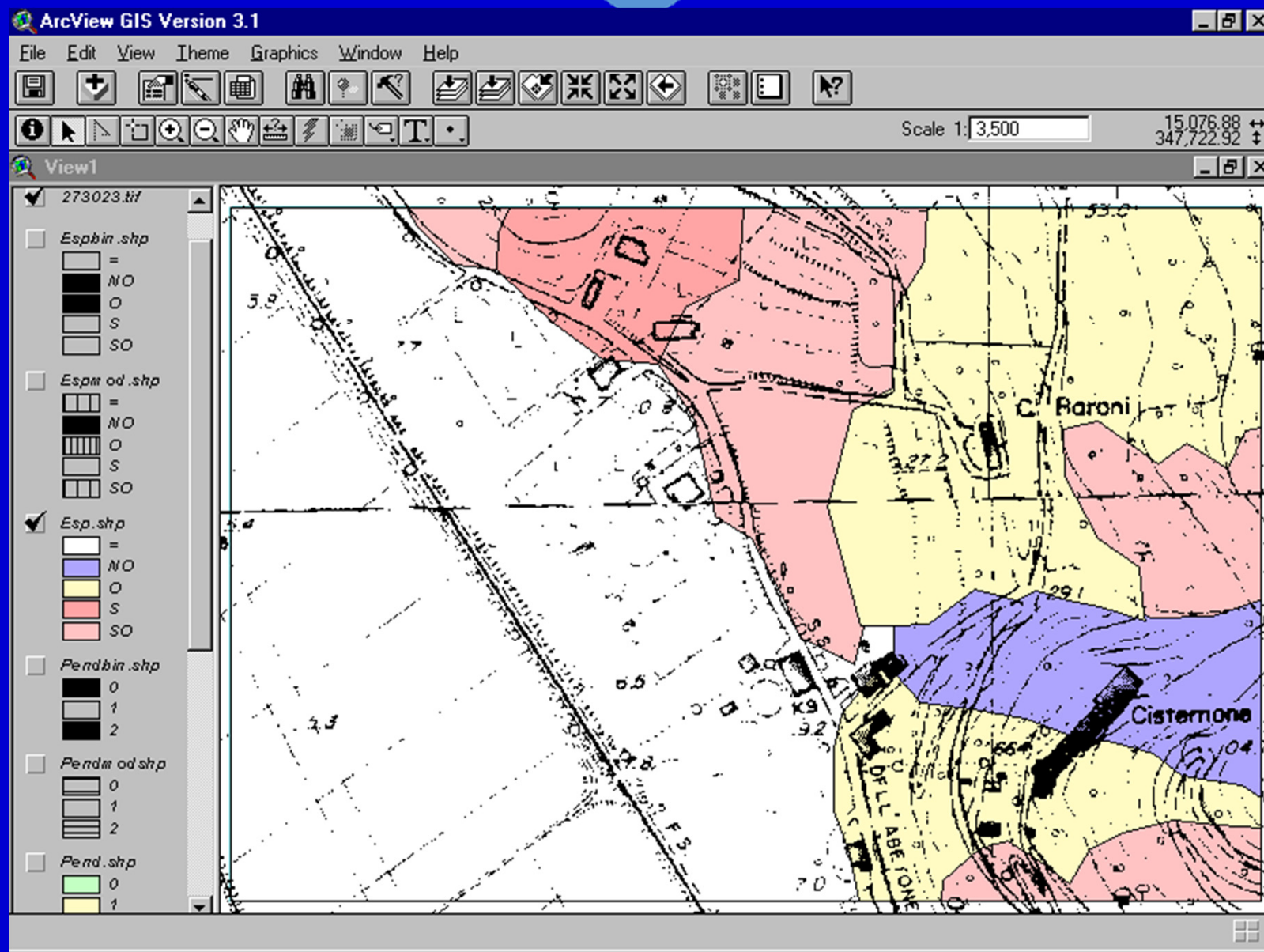
Incrocio per esclusione



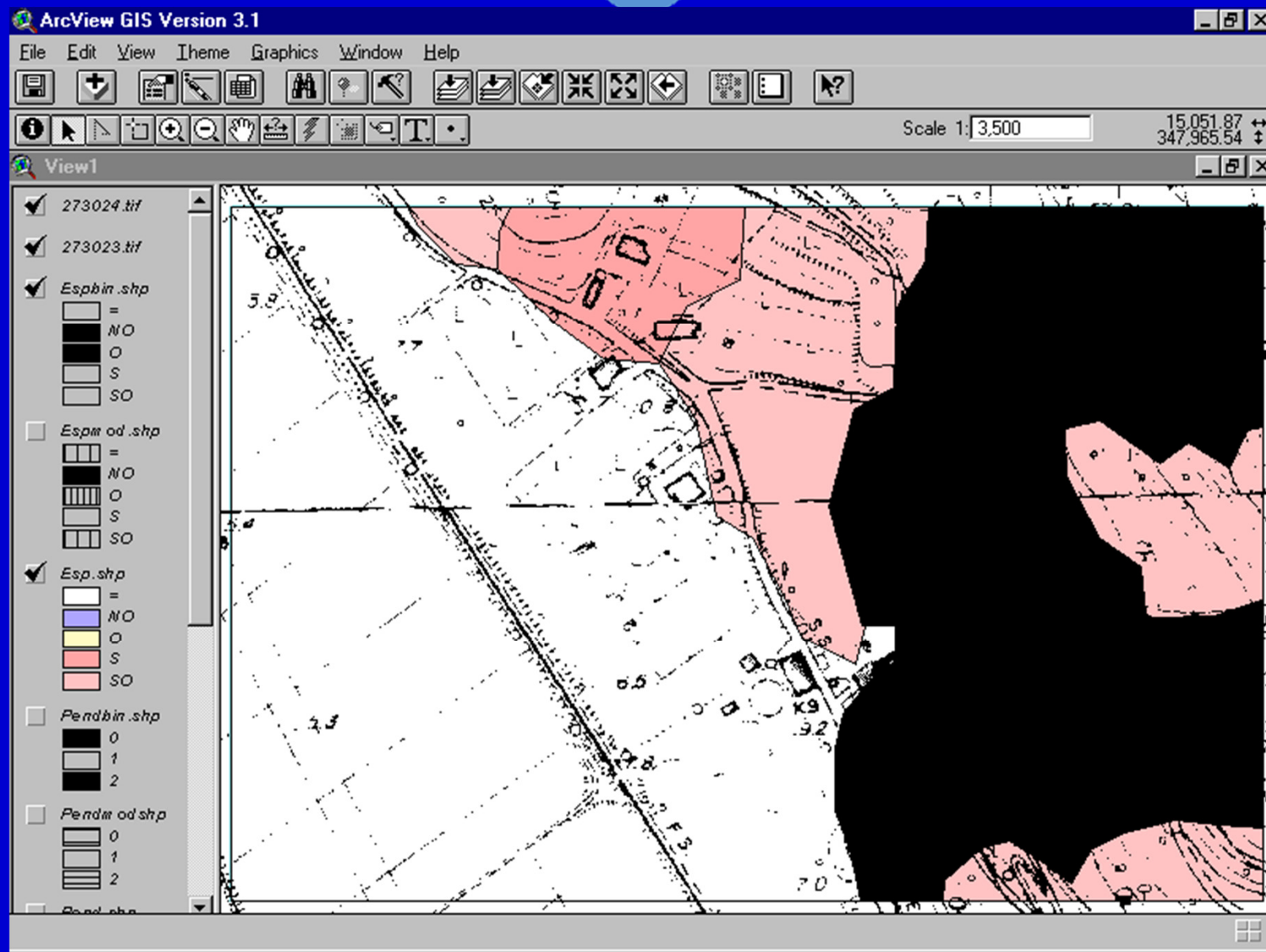
Incrocio per esclusione



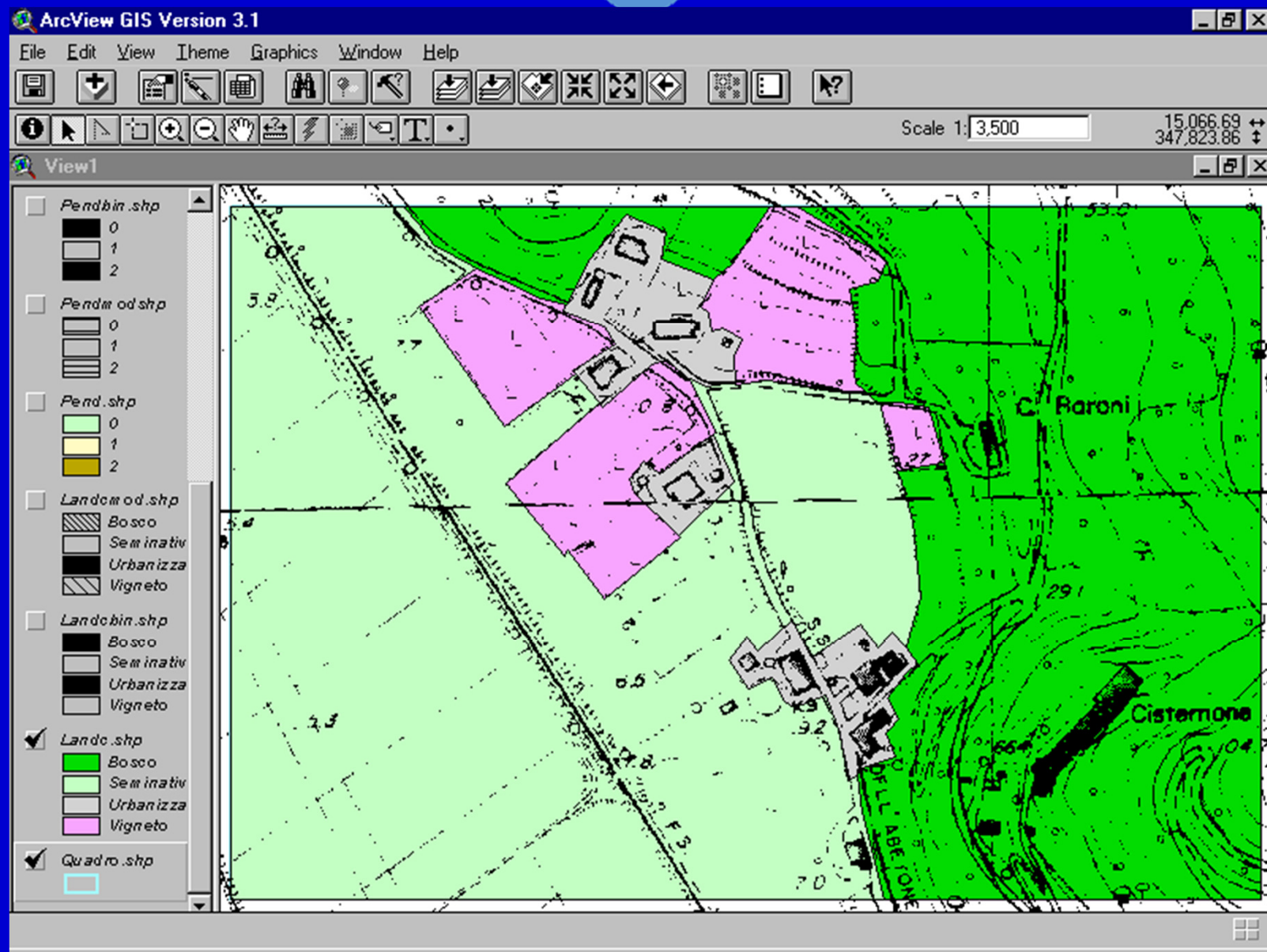
Incrocio per esclusione



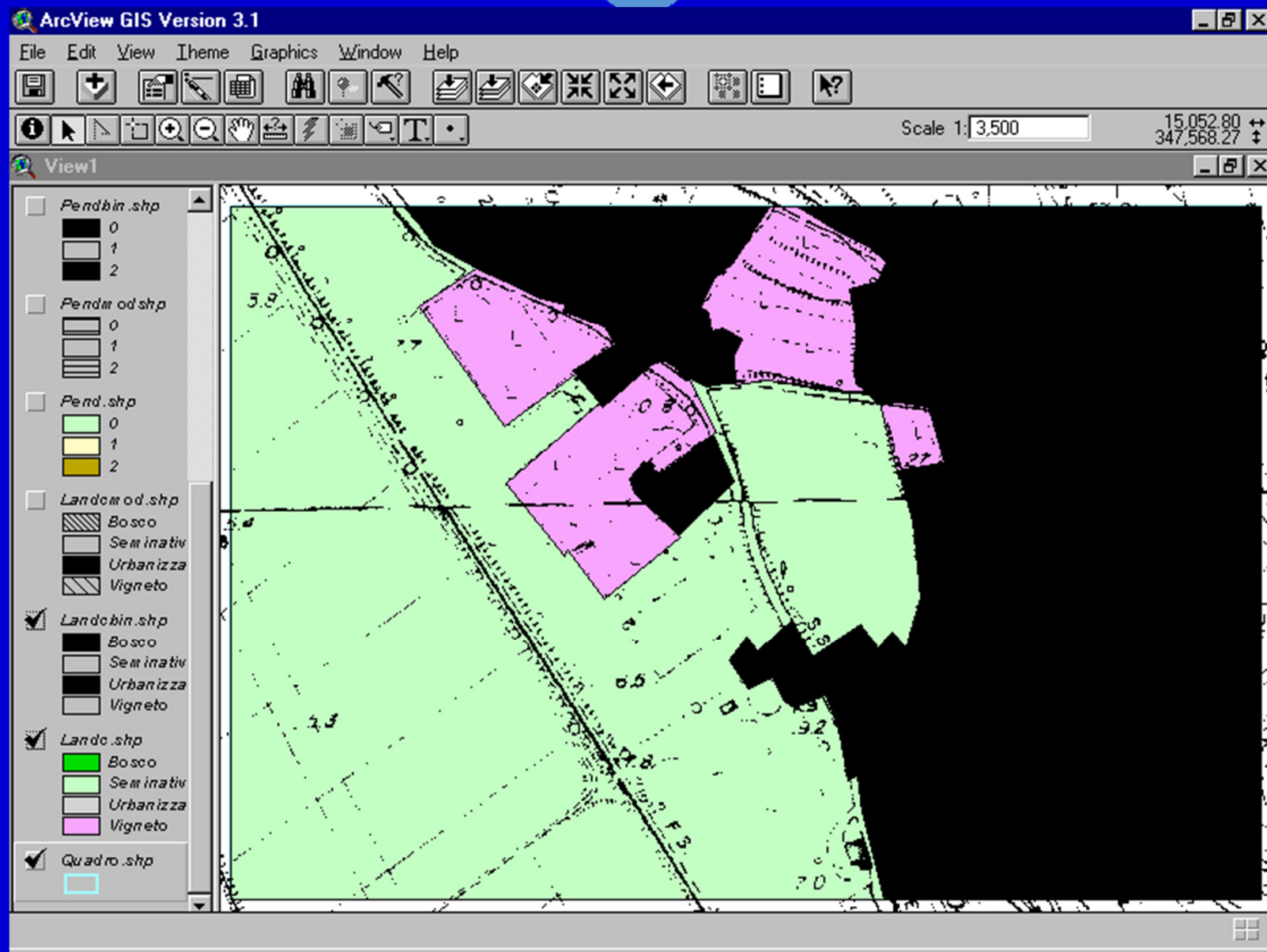
Incrocio per esclusione



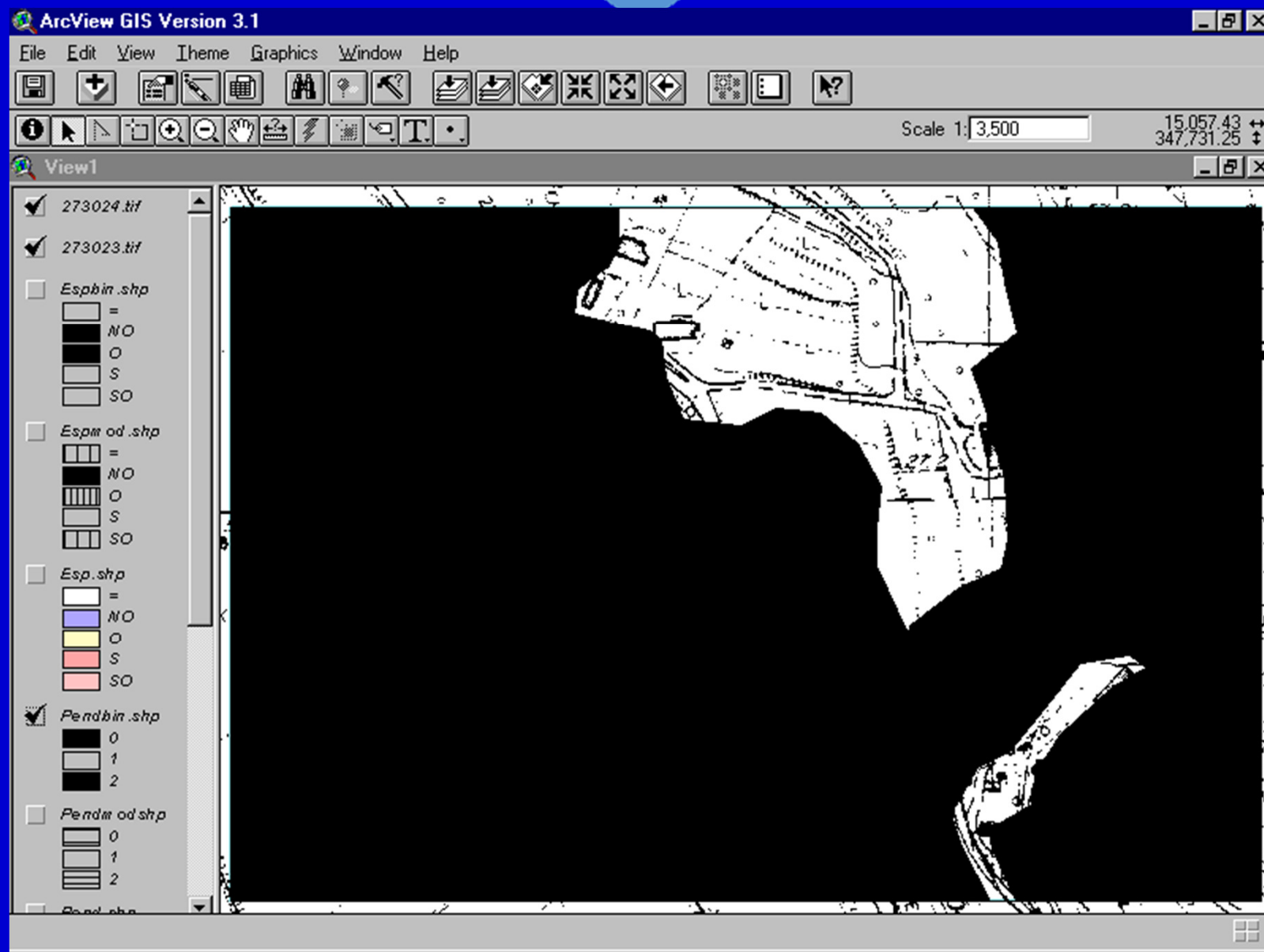
Incrocio per esclusione



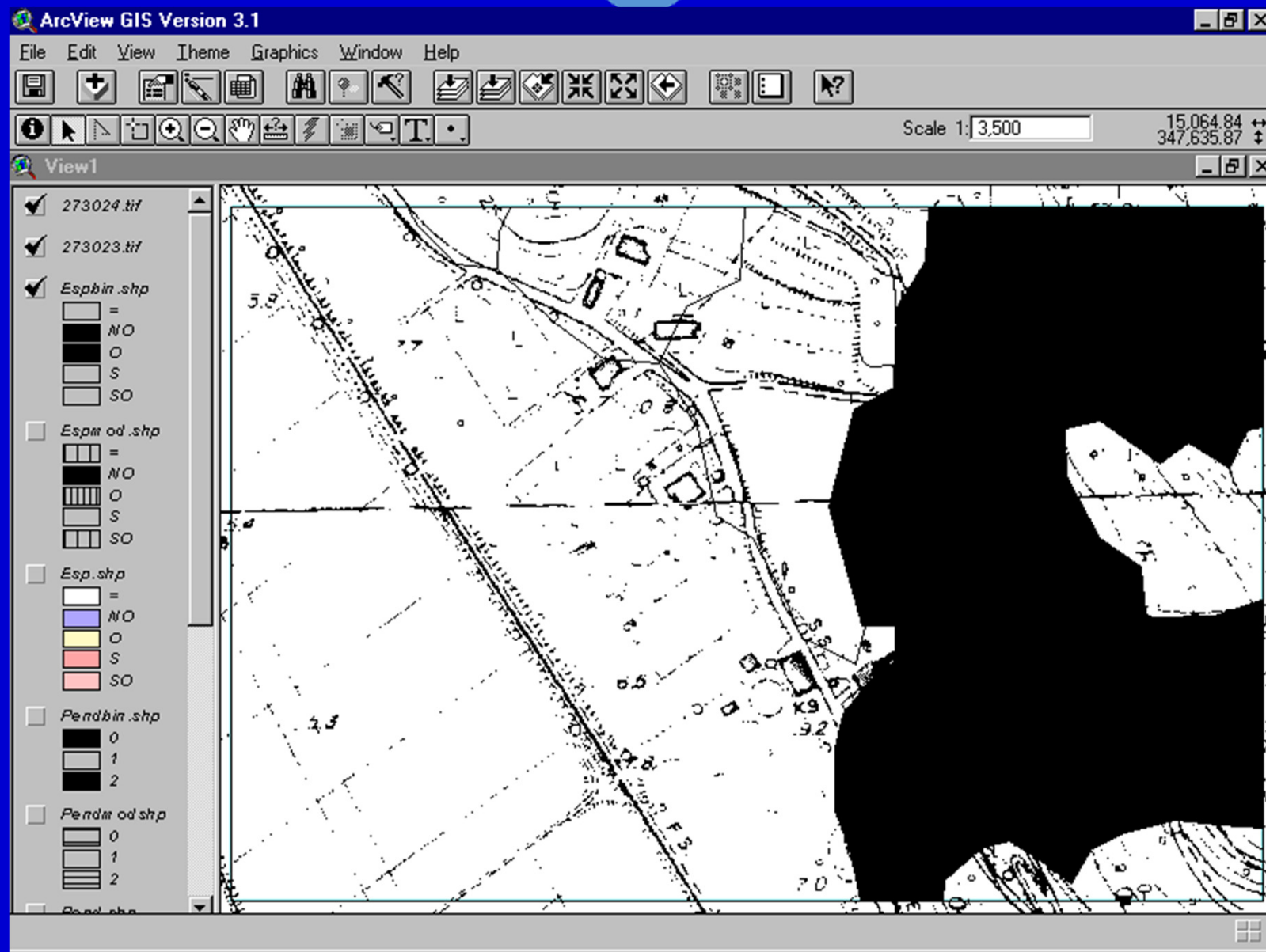
Incrocio per esclusione



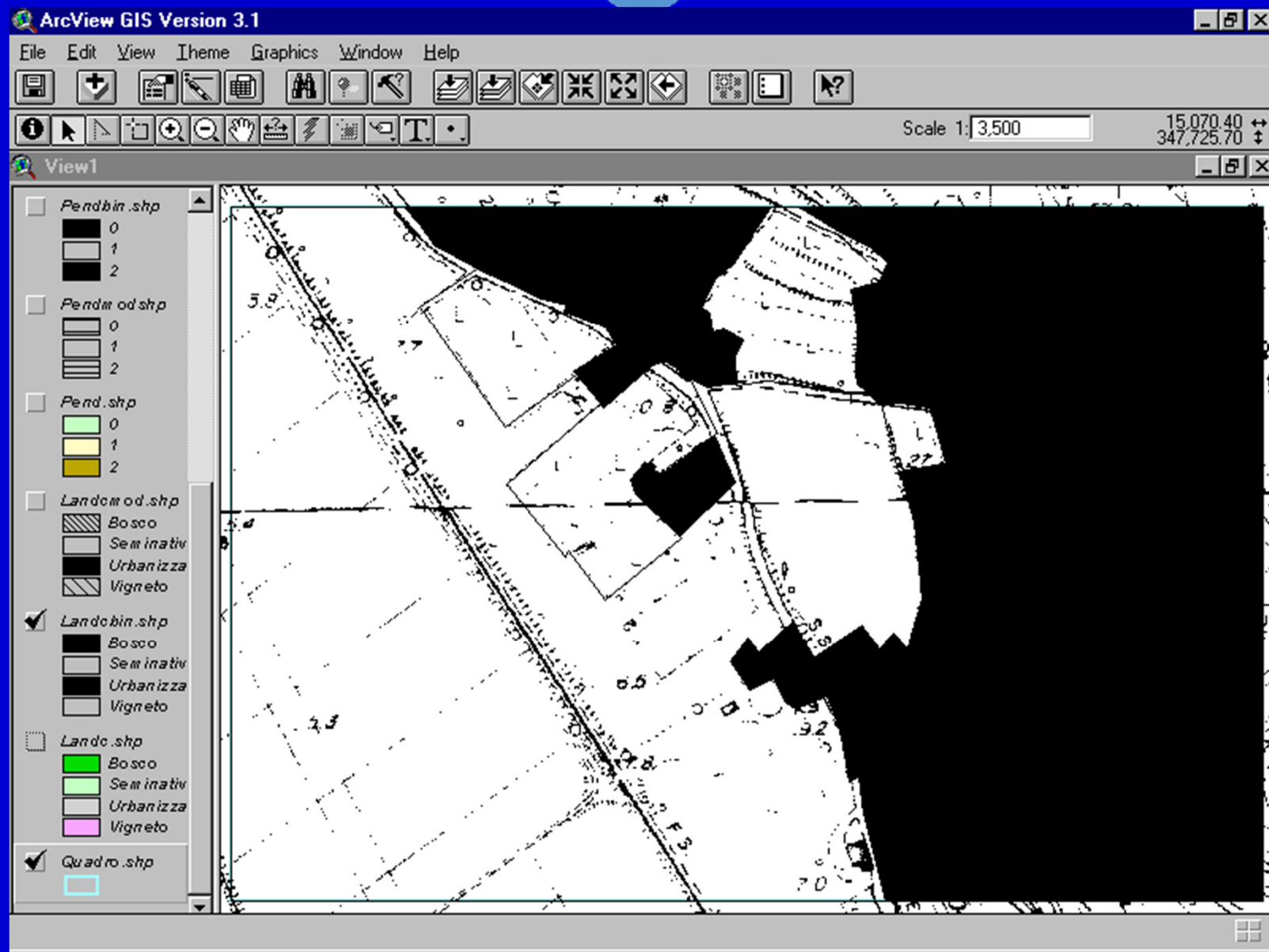
Incrocio per esclusione



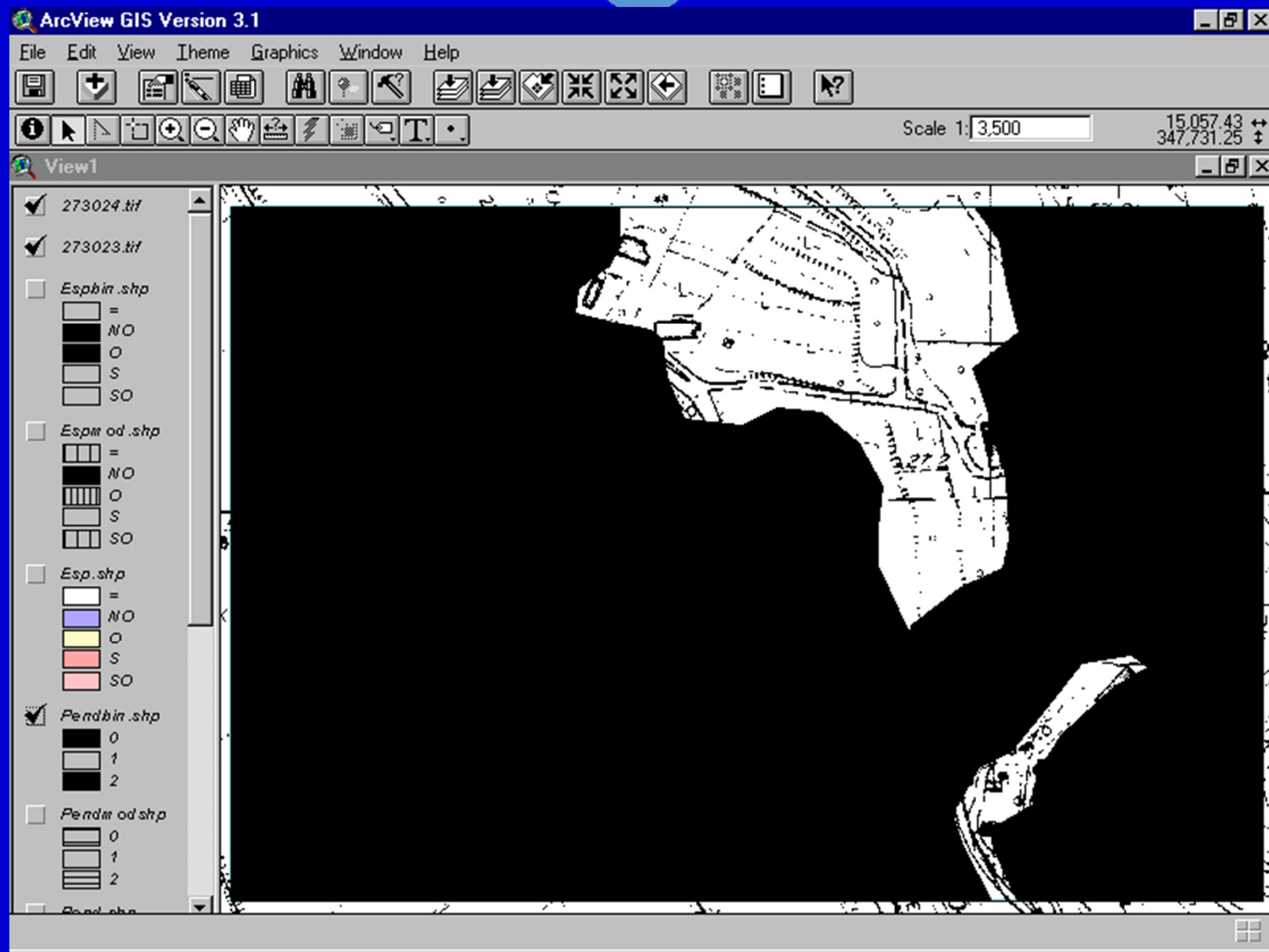
Incrocio per esclusione



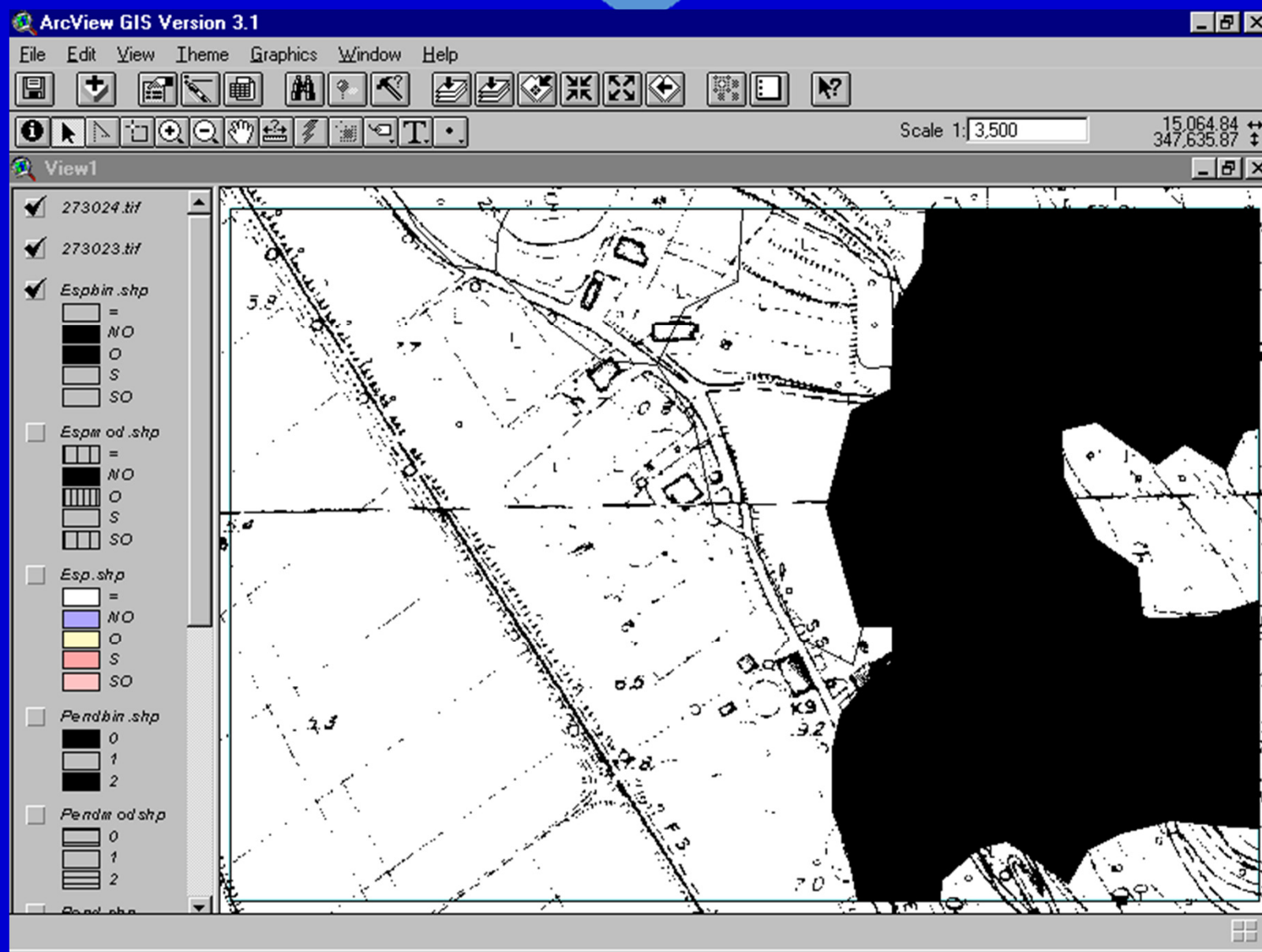
Incrocio per esclusione



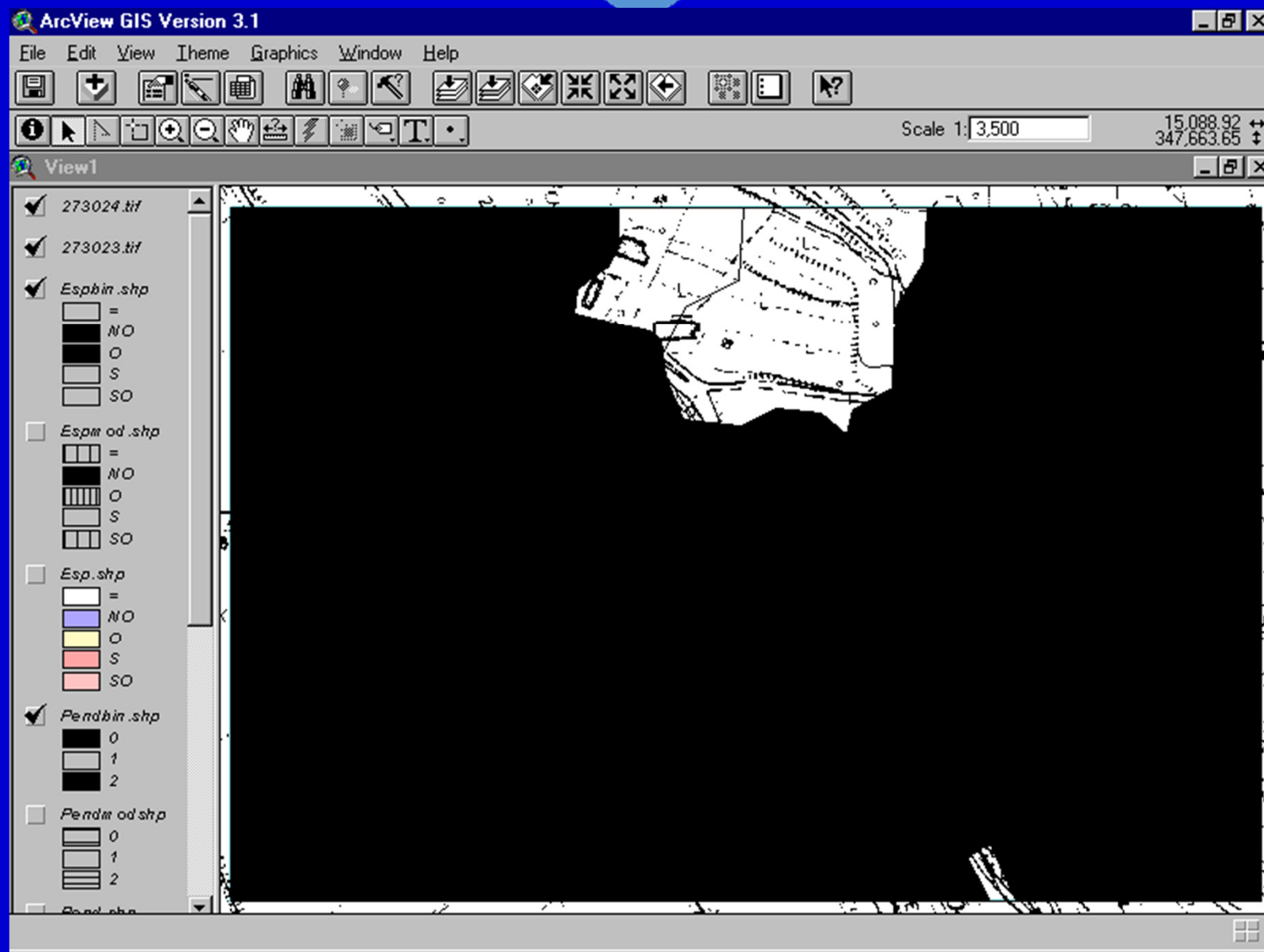
Incrocio per esclusione



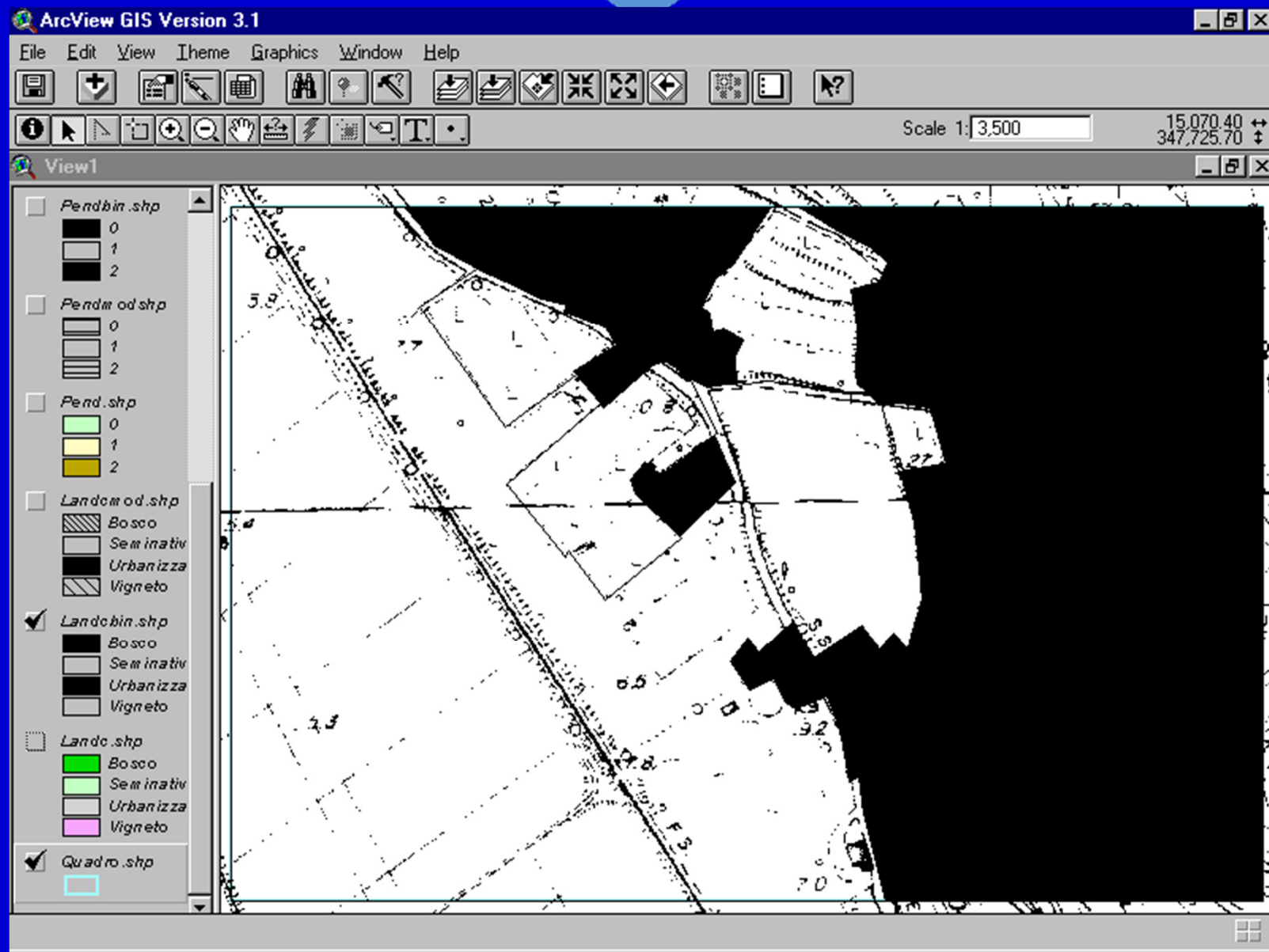
Incrocio per esclusione



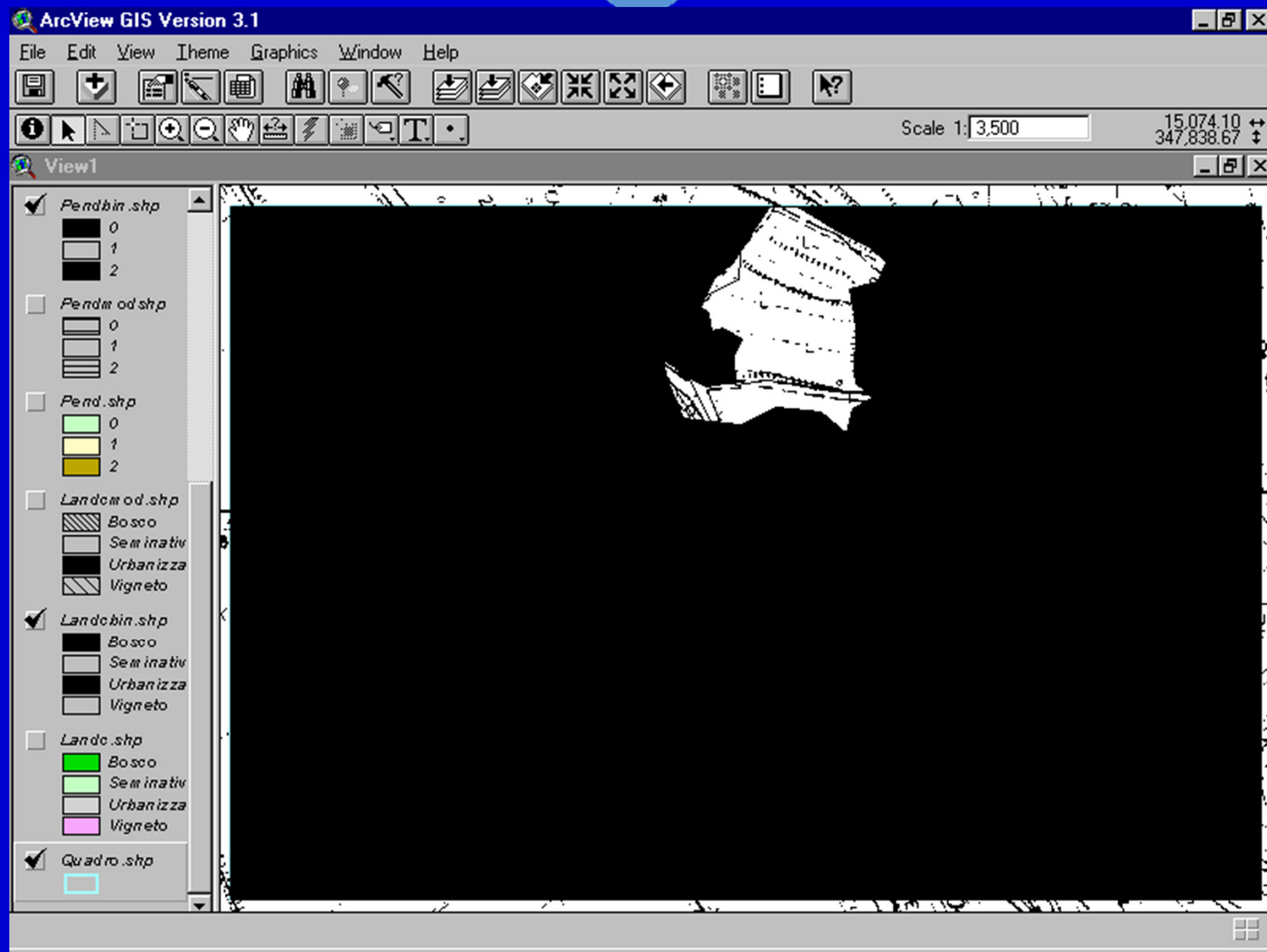
Incrocio per esclusione



Incrocio per esclusione



Incrocio per esclusione



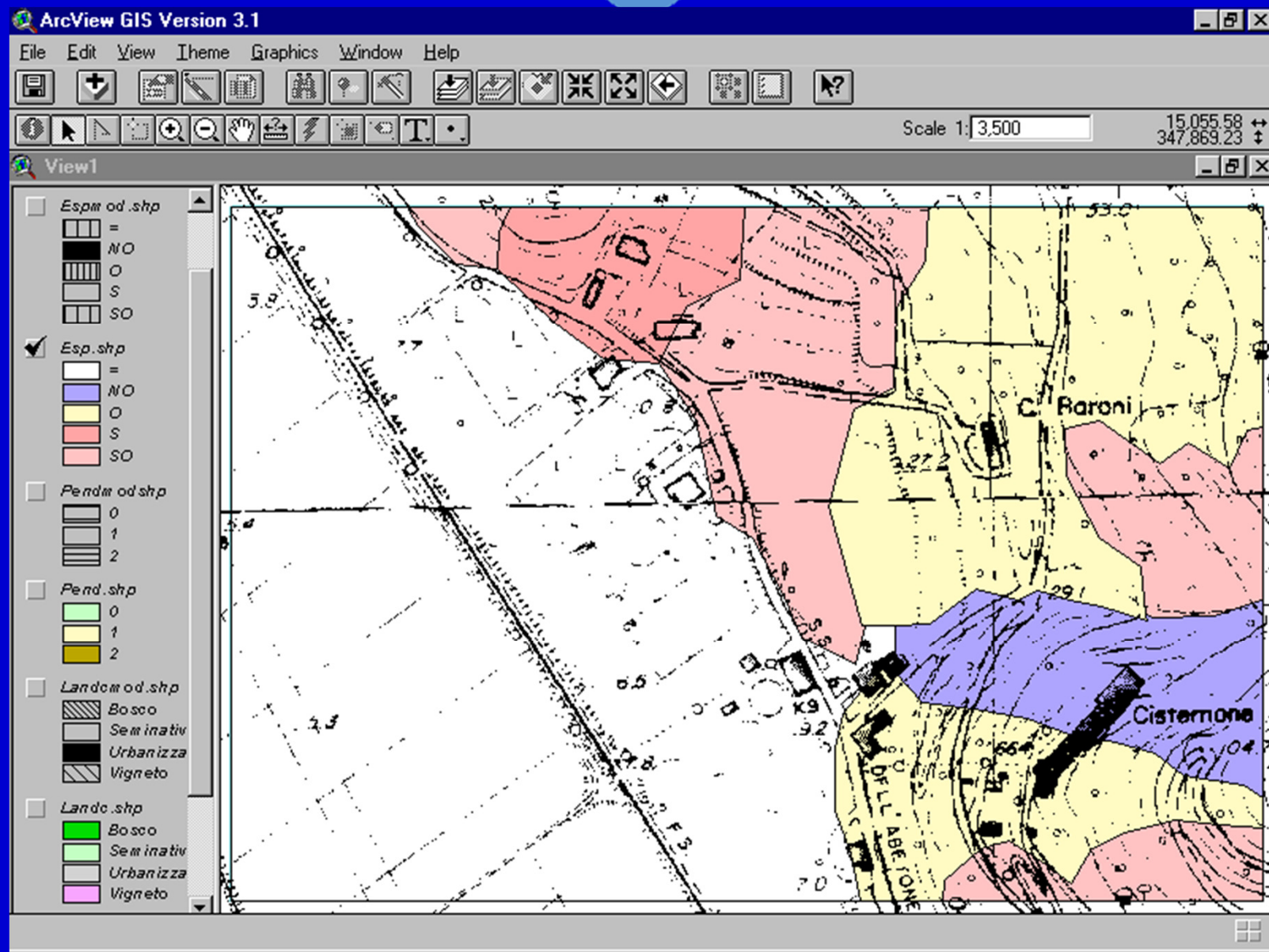
Incrocio per esclusione (o per selezione)

$$S = S_p \text{ and } S_e \text{ and } S_c$$

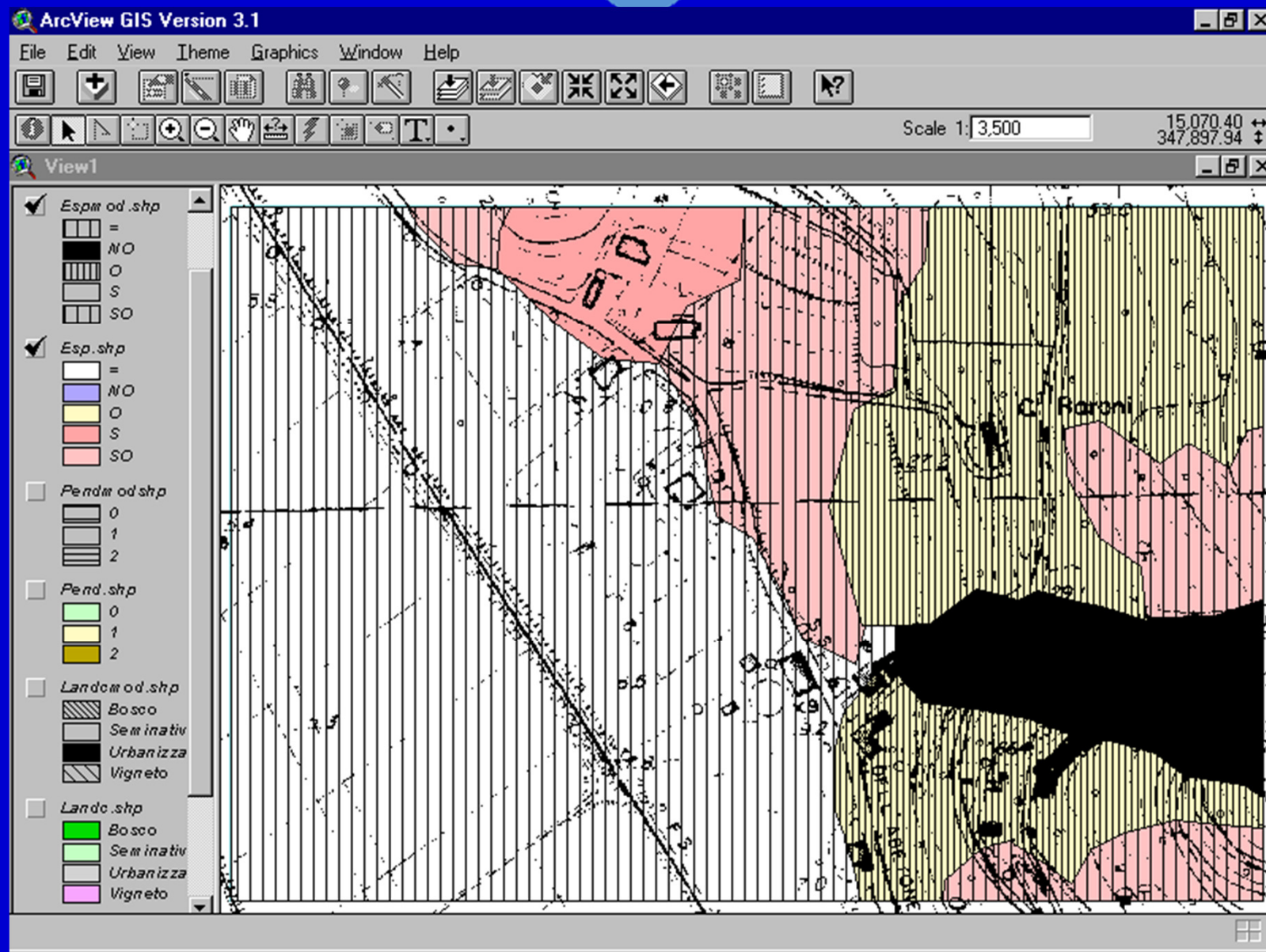
$$E = E_p \text{ or } E_e \text{ or } E_c$$

Incrocio pesato

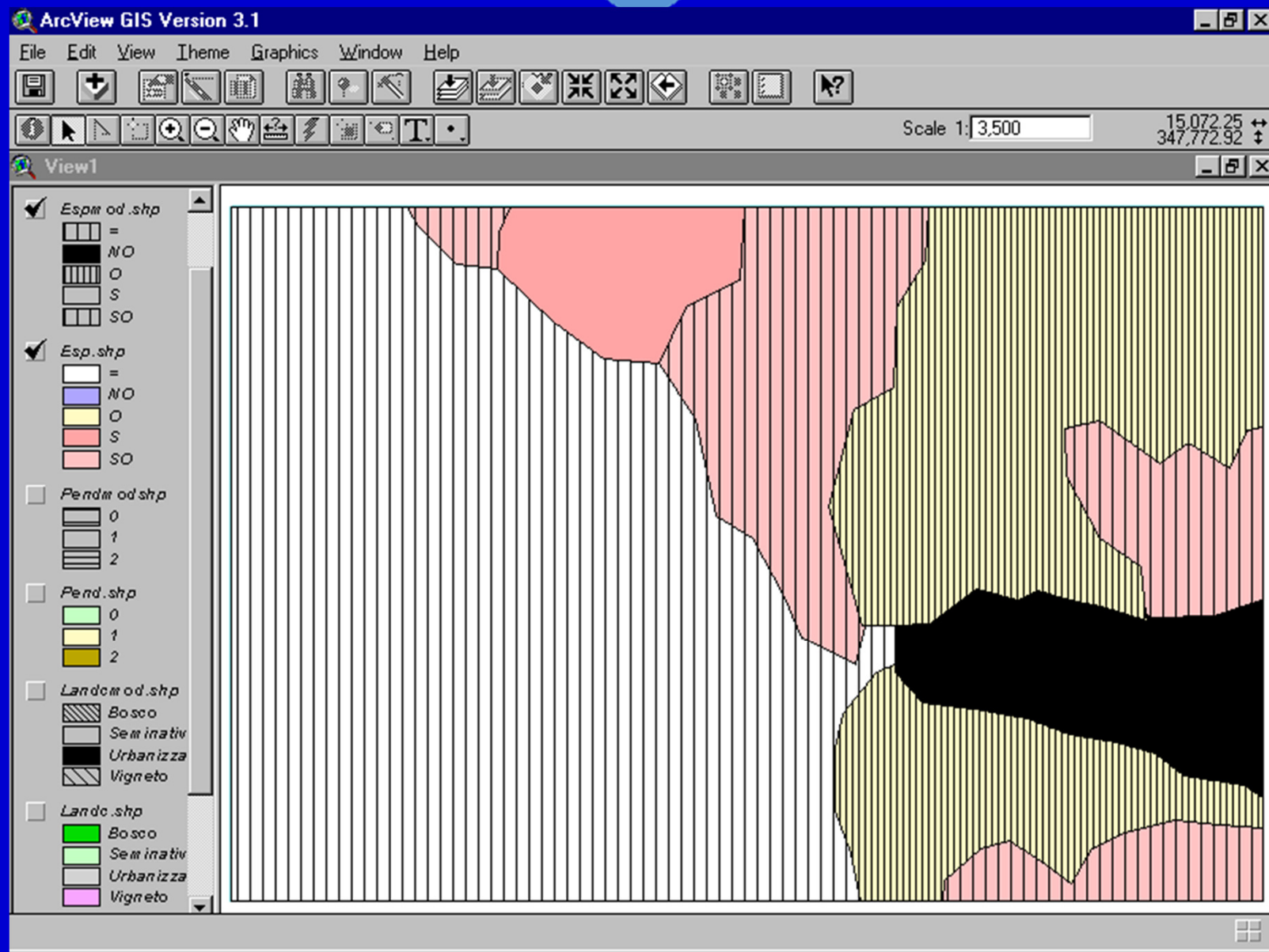
Incrocio pesato



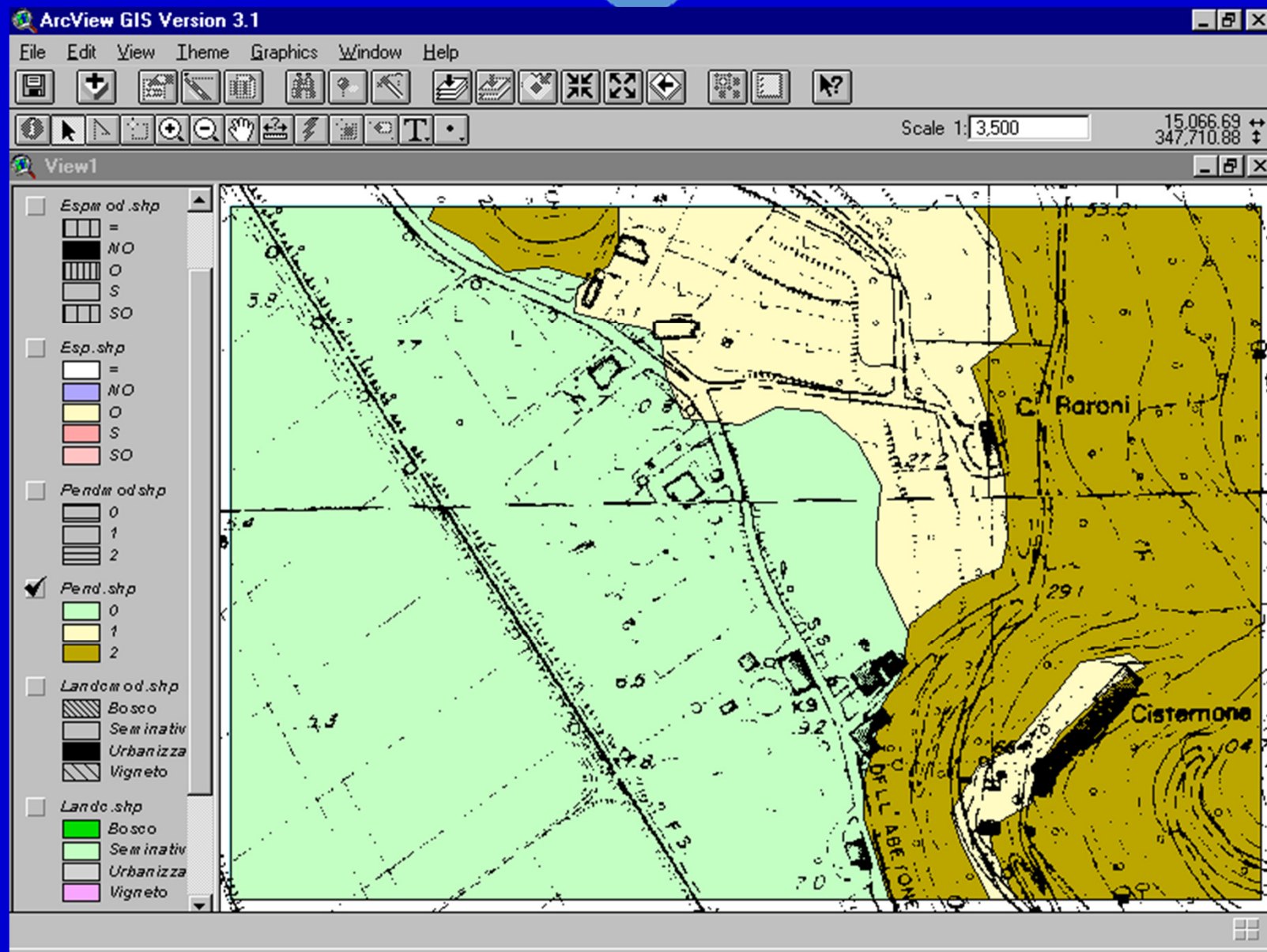
Incrocio pesato



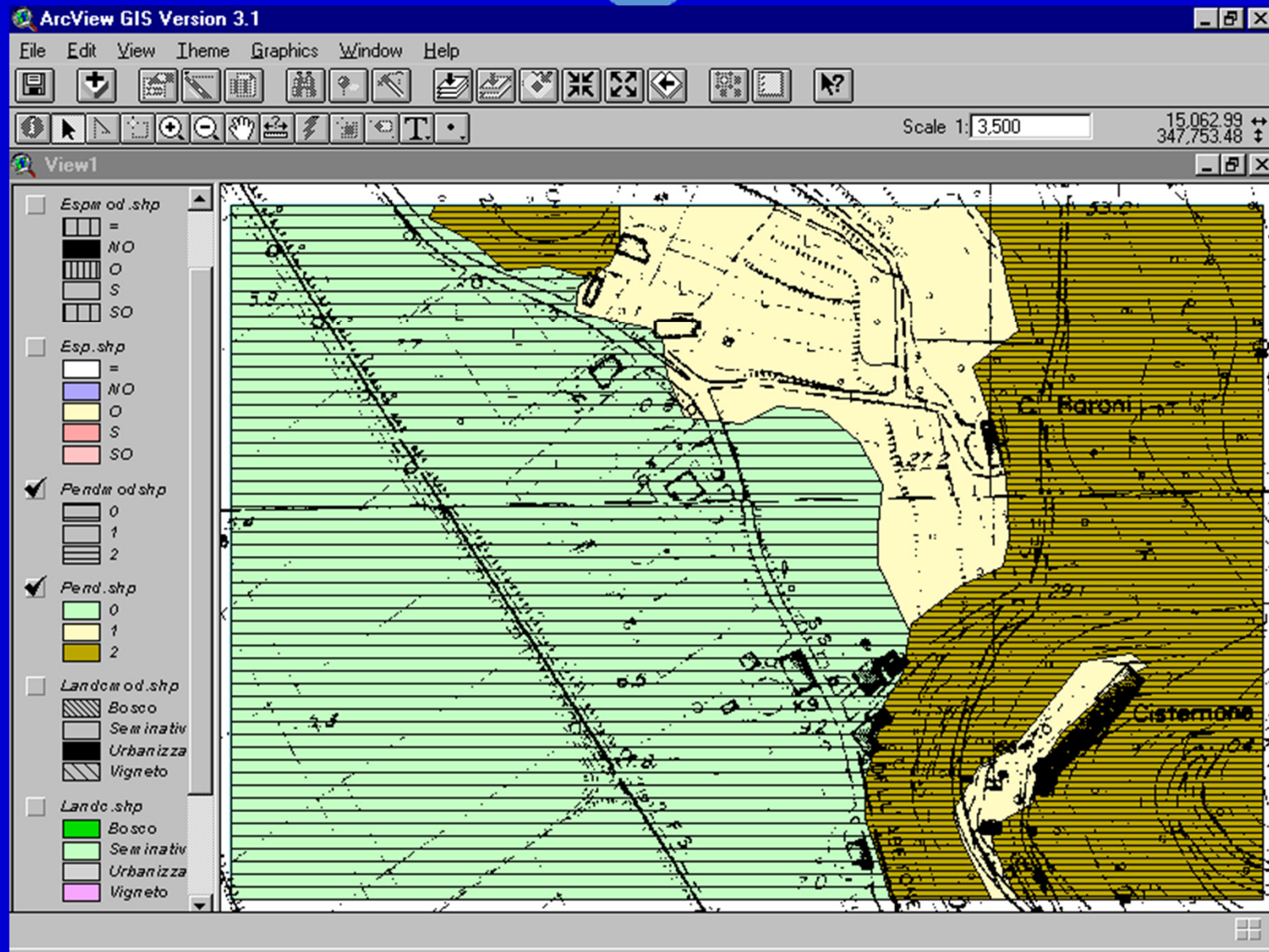
Incrocio pesato



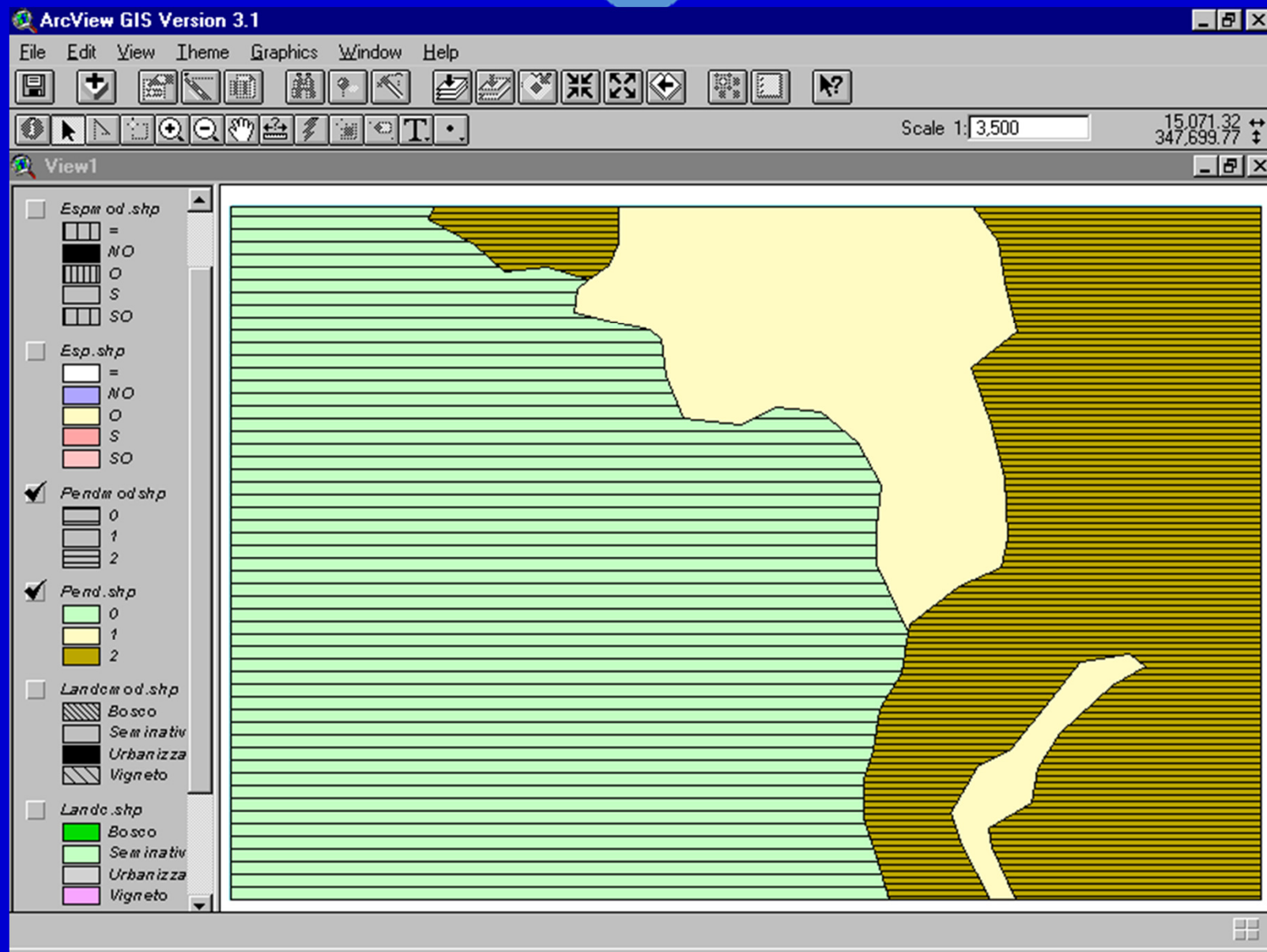
Incrocio pesato



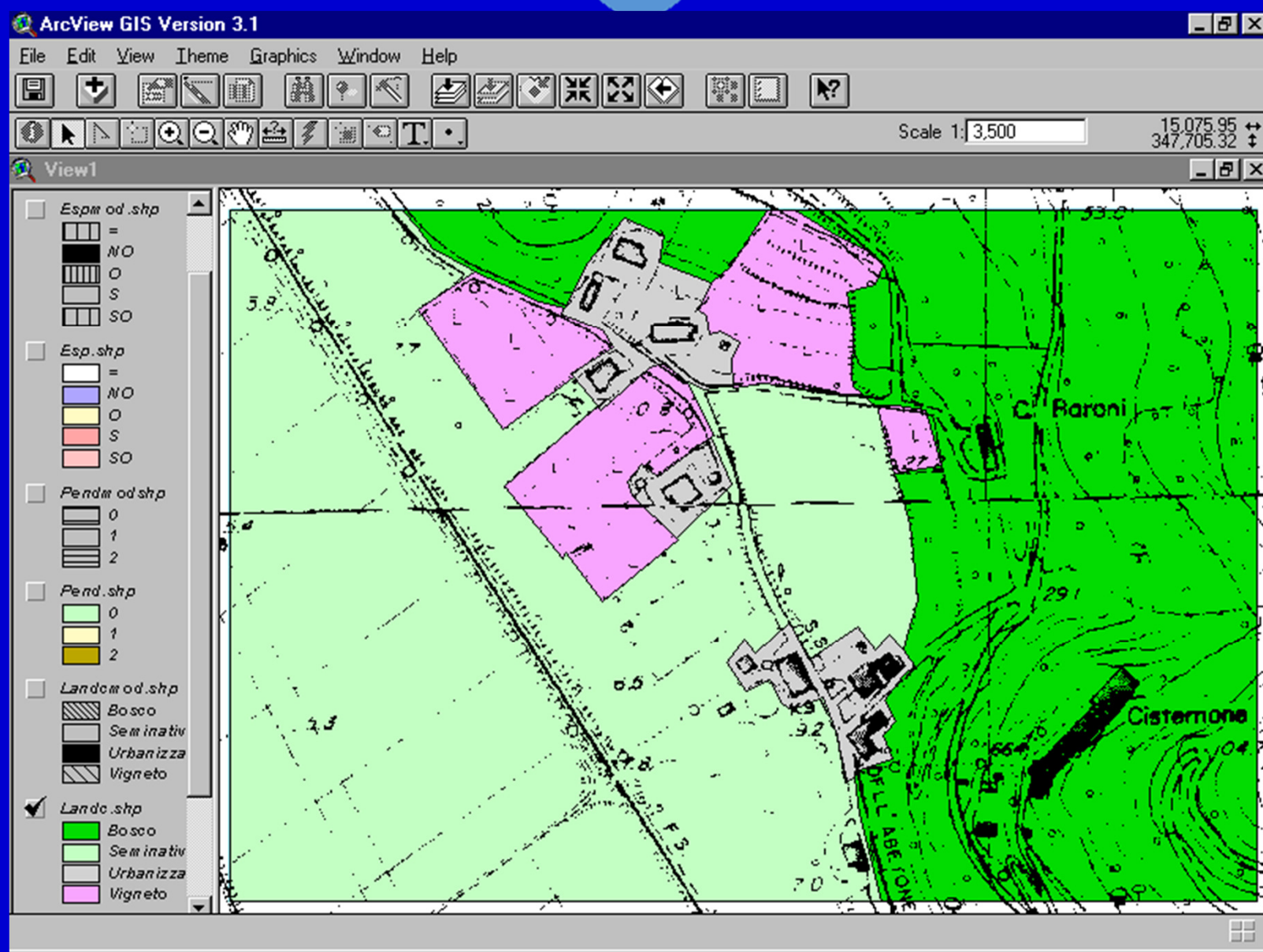
Incrocio pesato



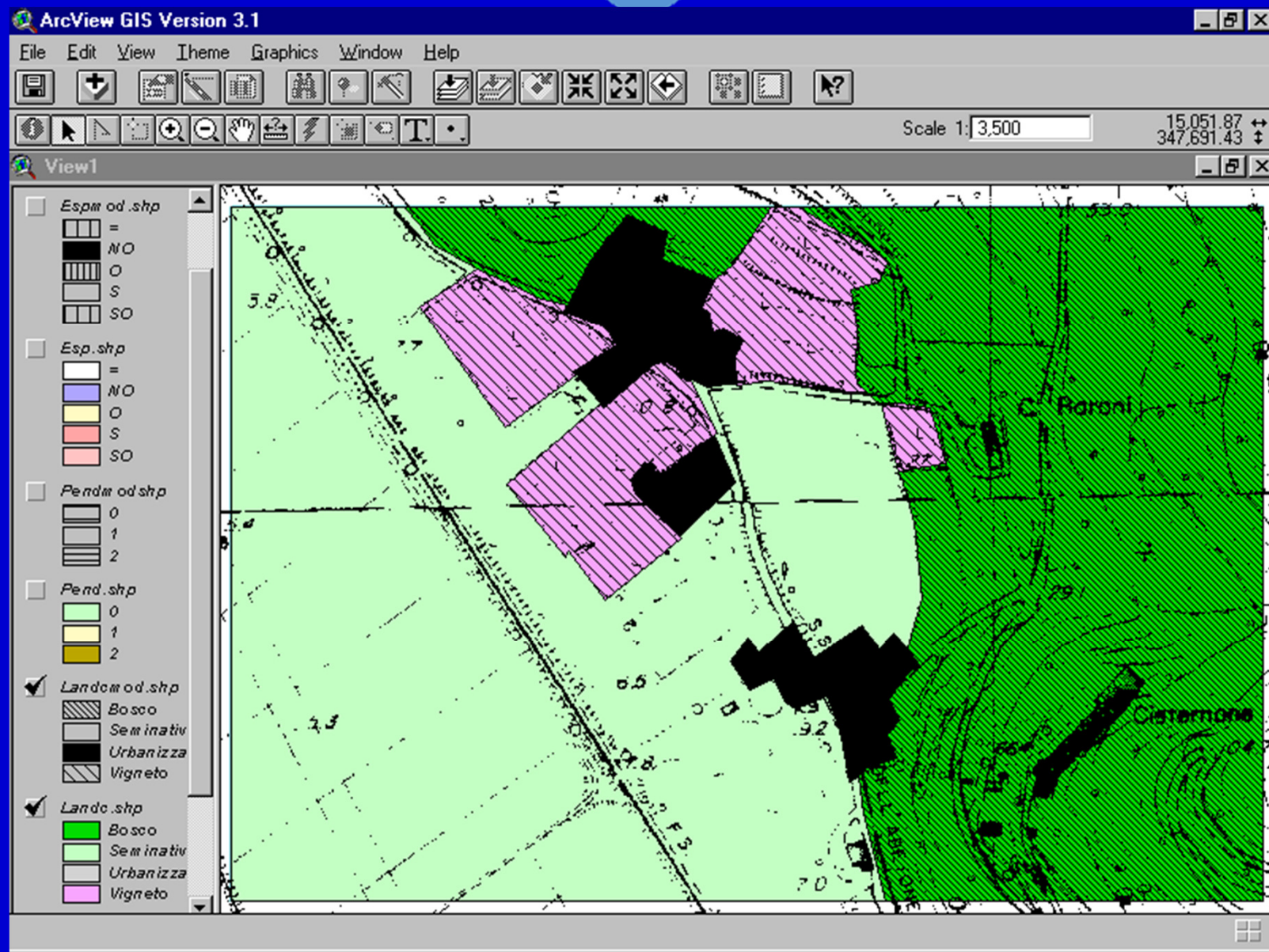
Incrocio pesato



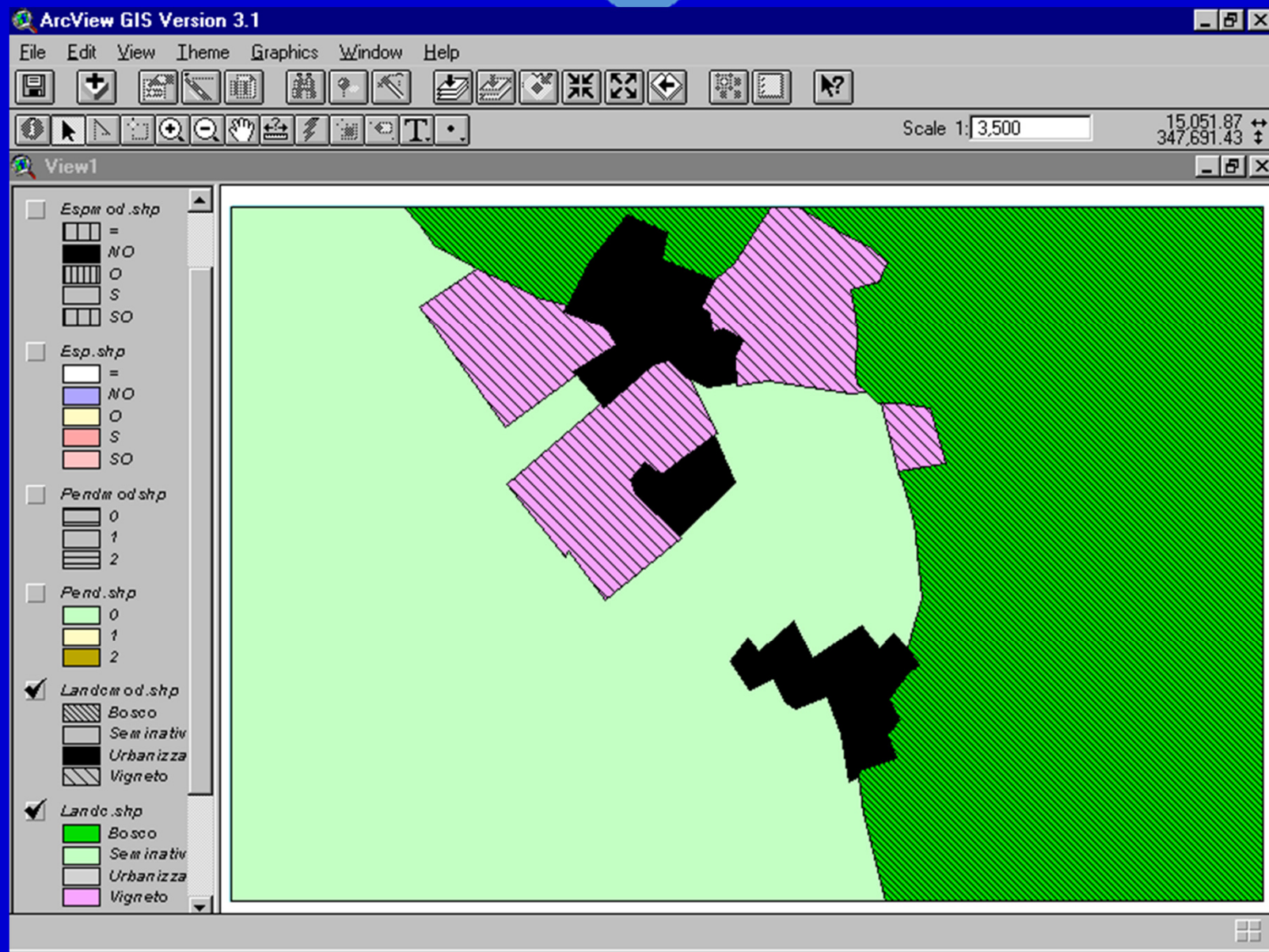
Incrocio pesato



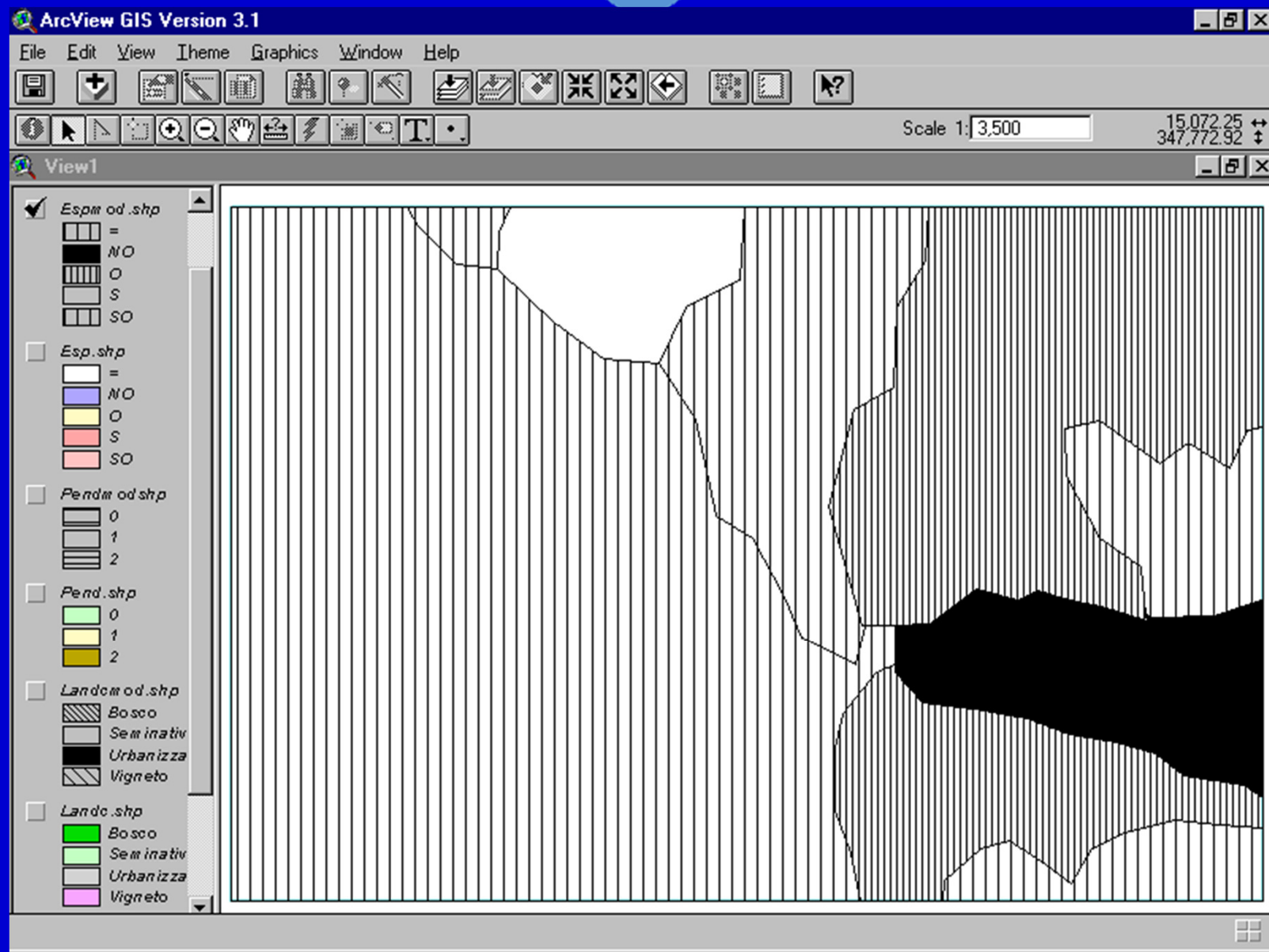
Incrocio pesato



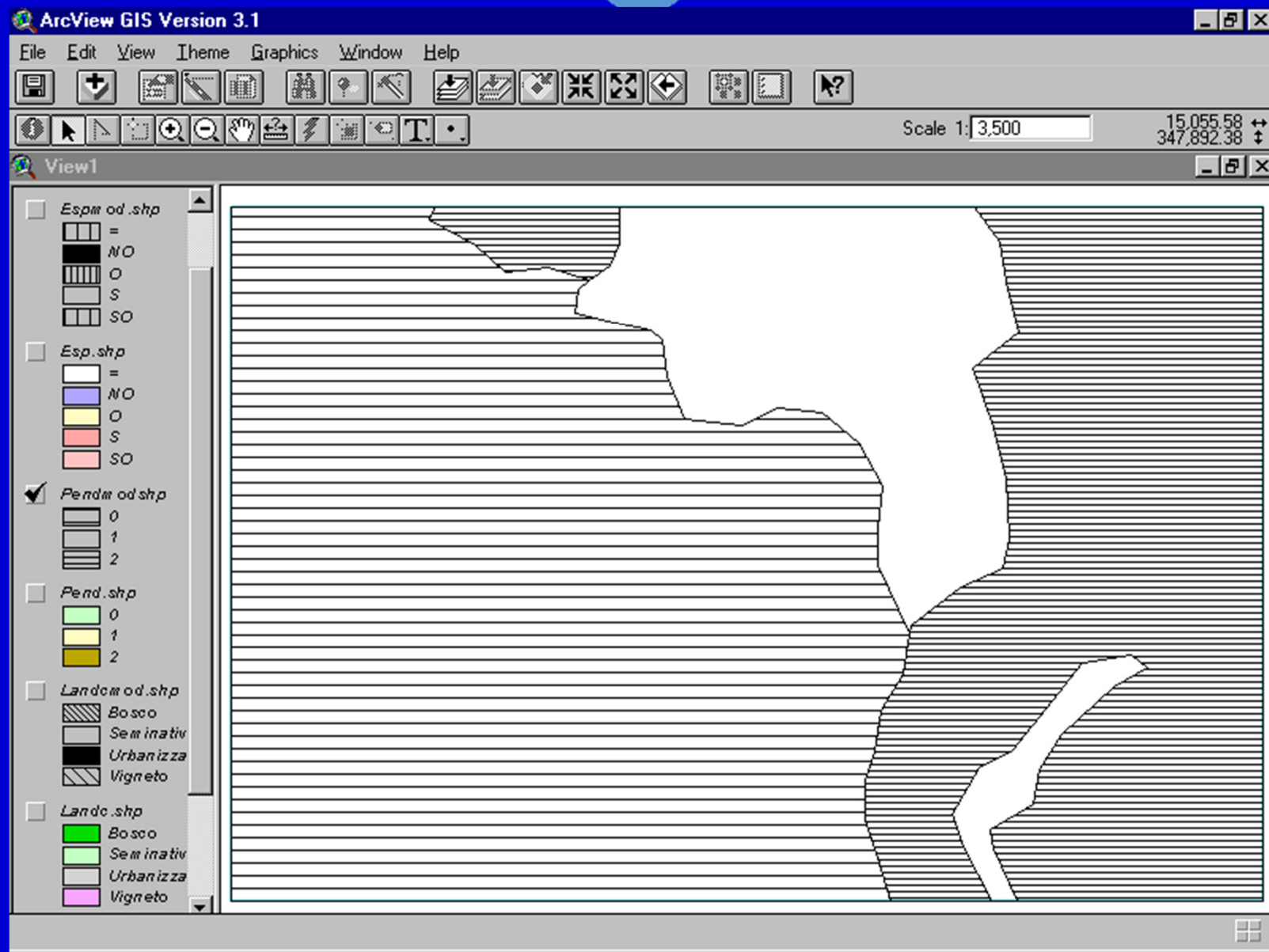
Incrocio pesato



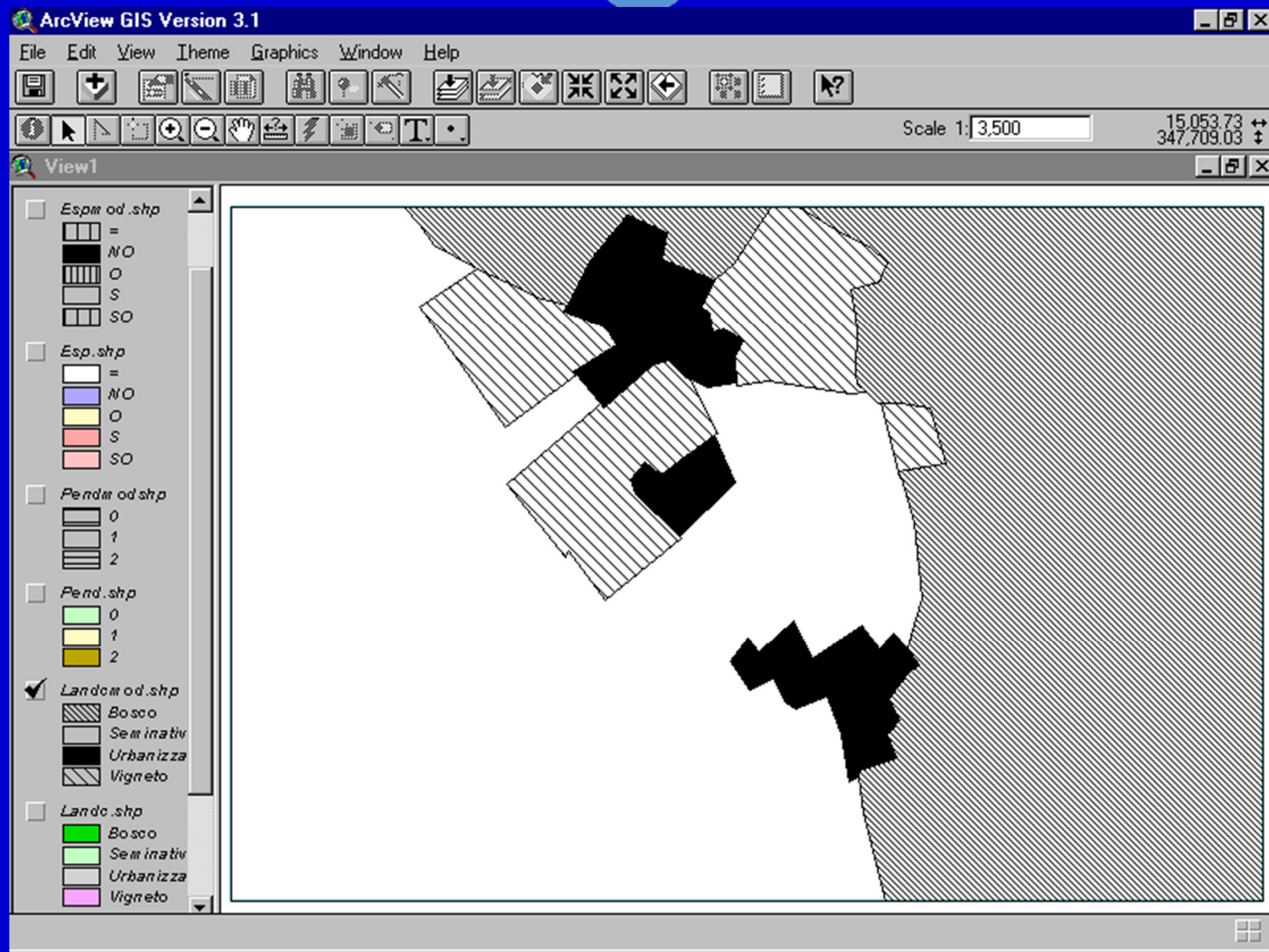
Incrocio pesato



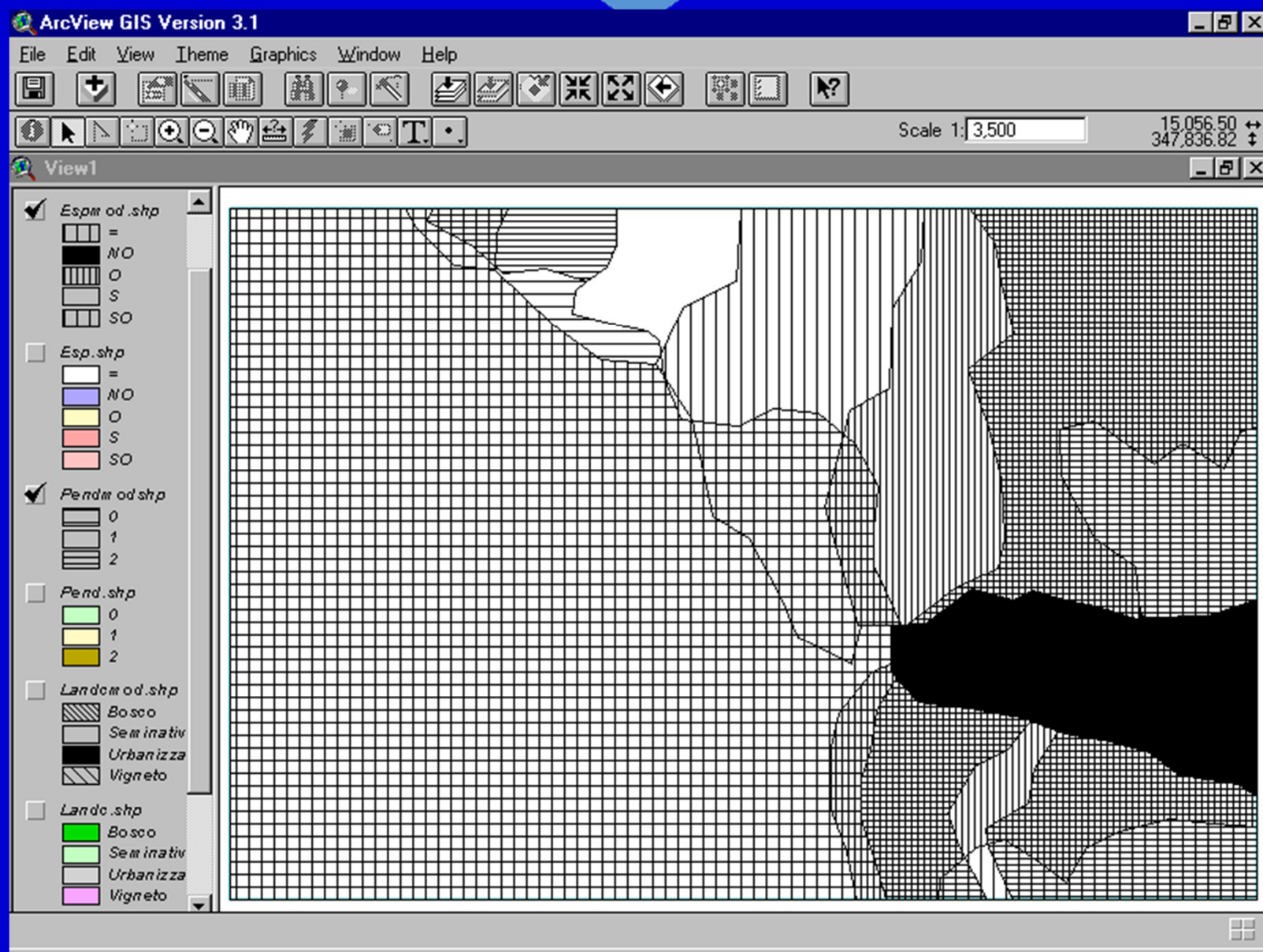
Incrocio pesato



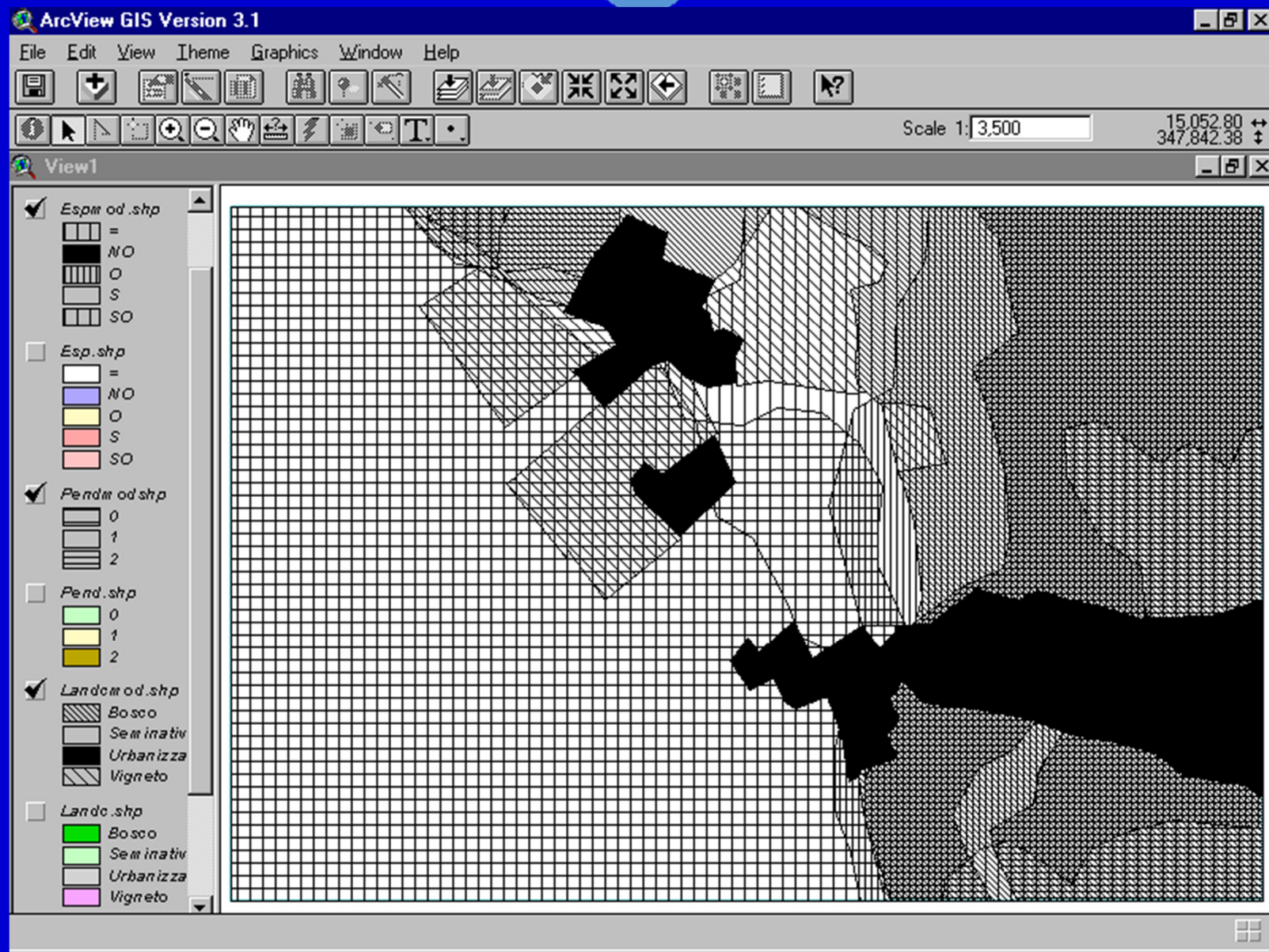
Incrocio pesato



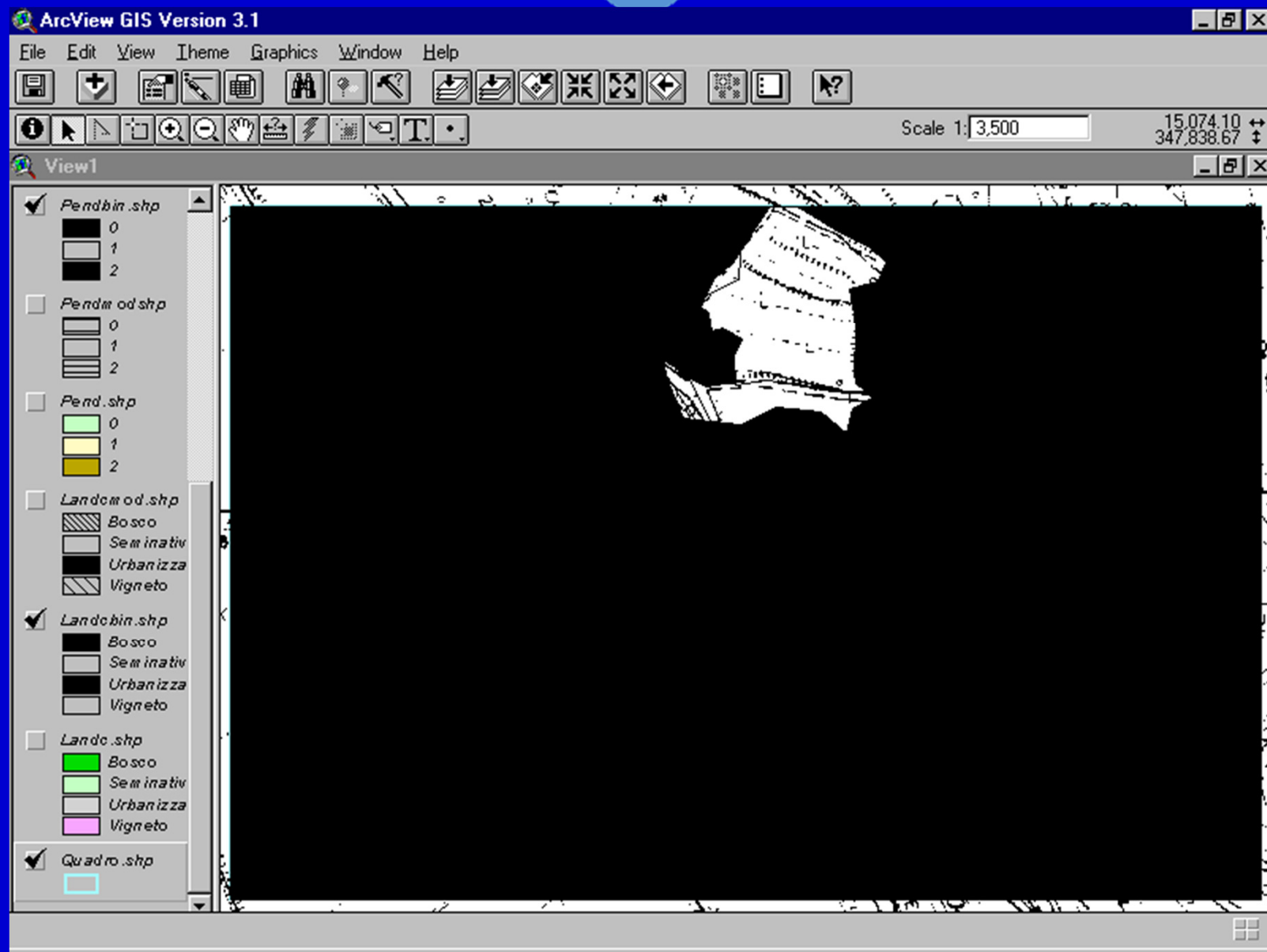
Incrocio pesato



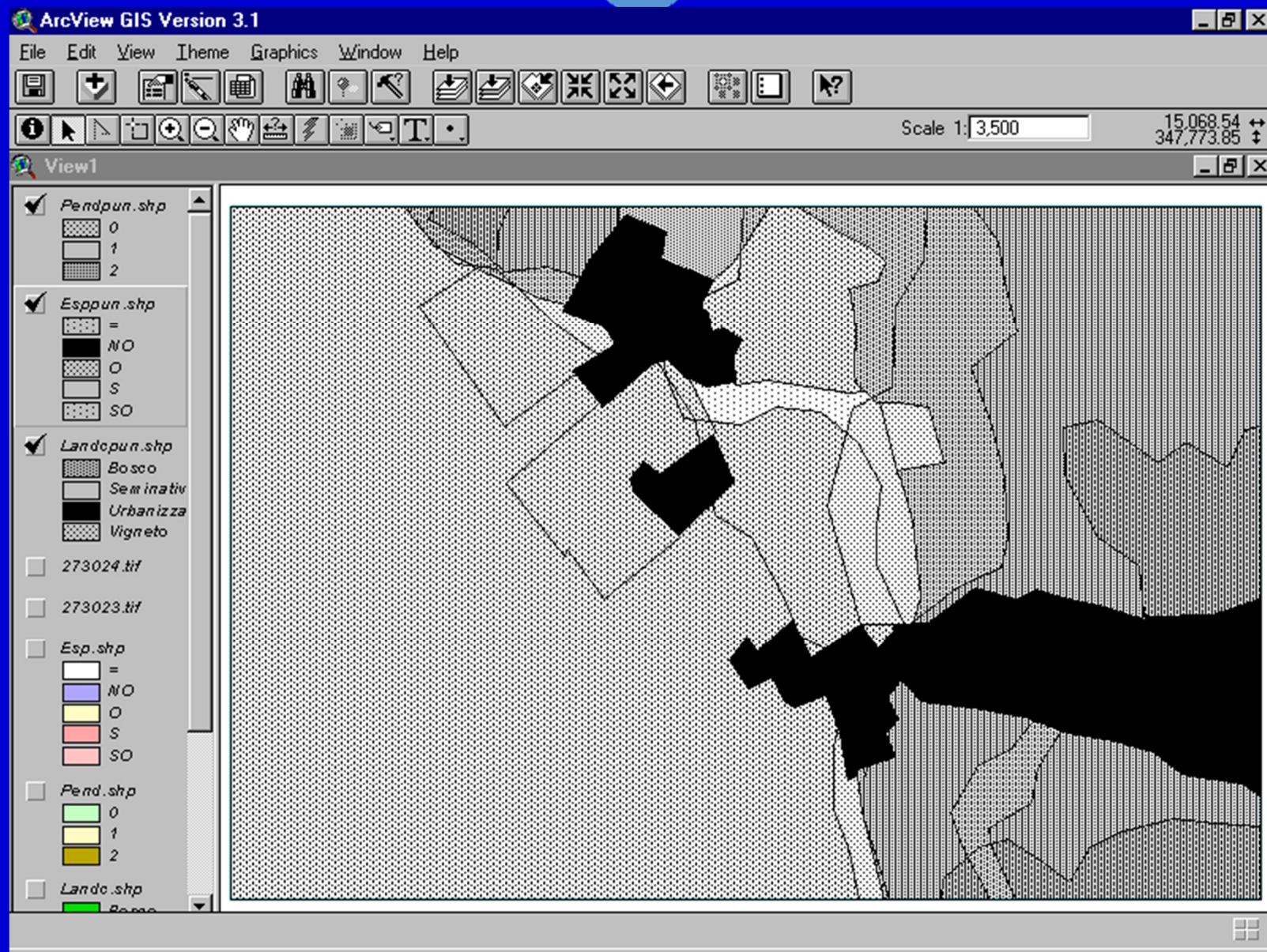
Incrocio pesato



Incrocio pesato vs Incrocio per esclusione

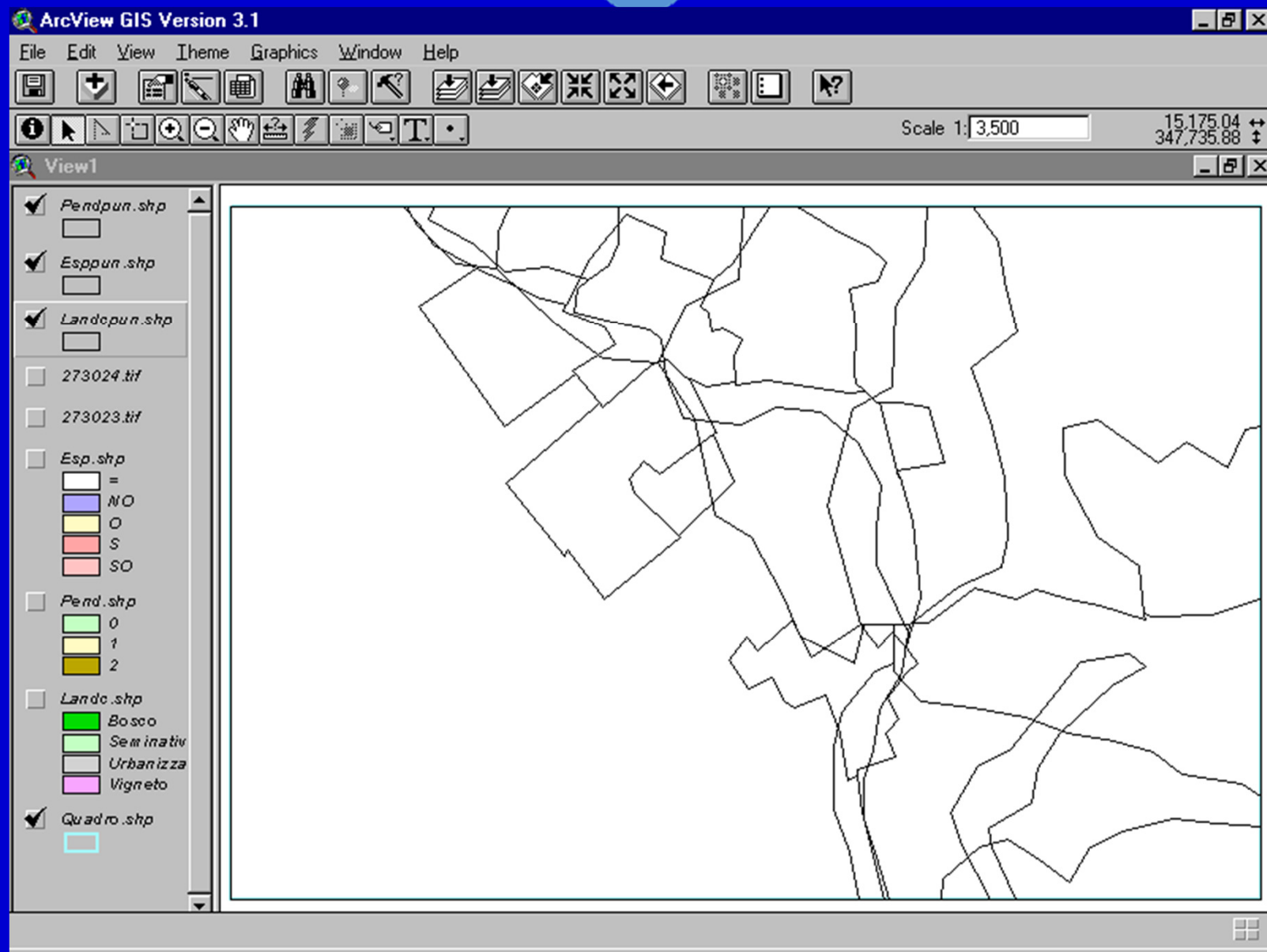


Incrocio pesato vs Incrocio per esclusione

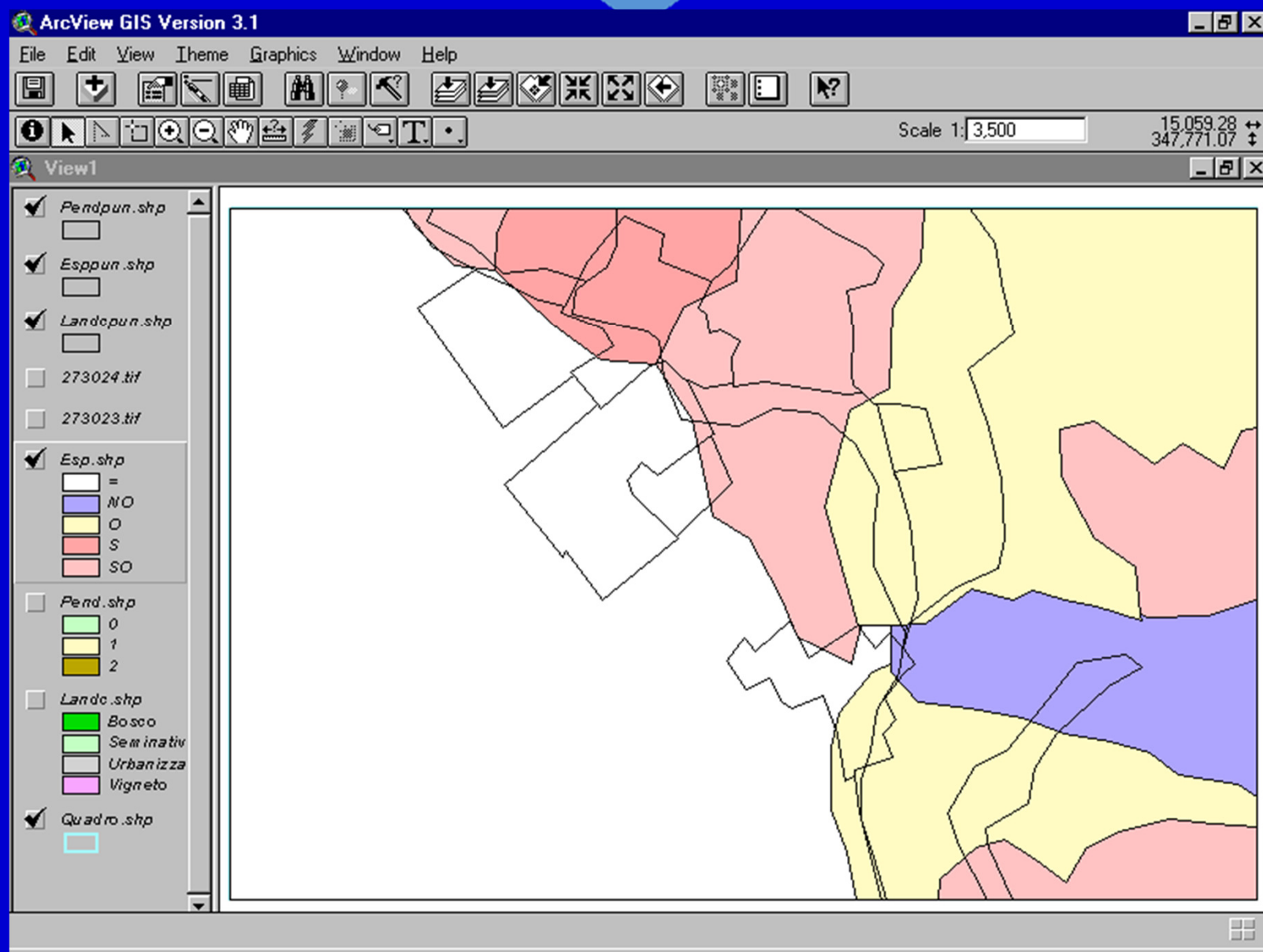


Incrocio per trasferimento degli attributi

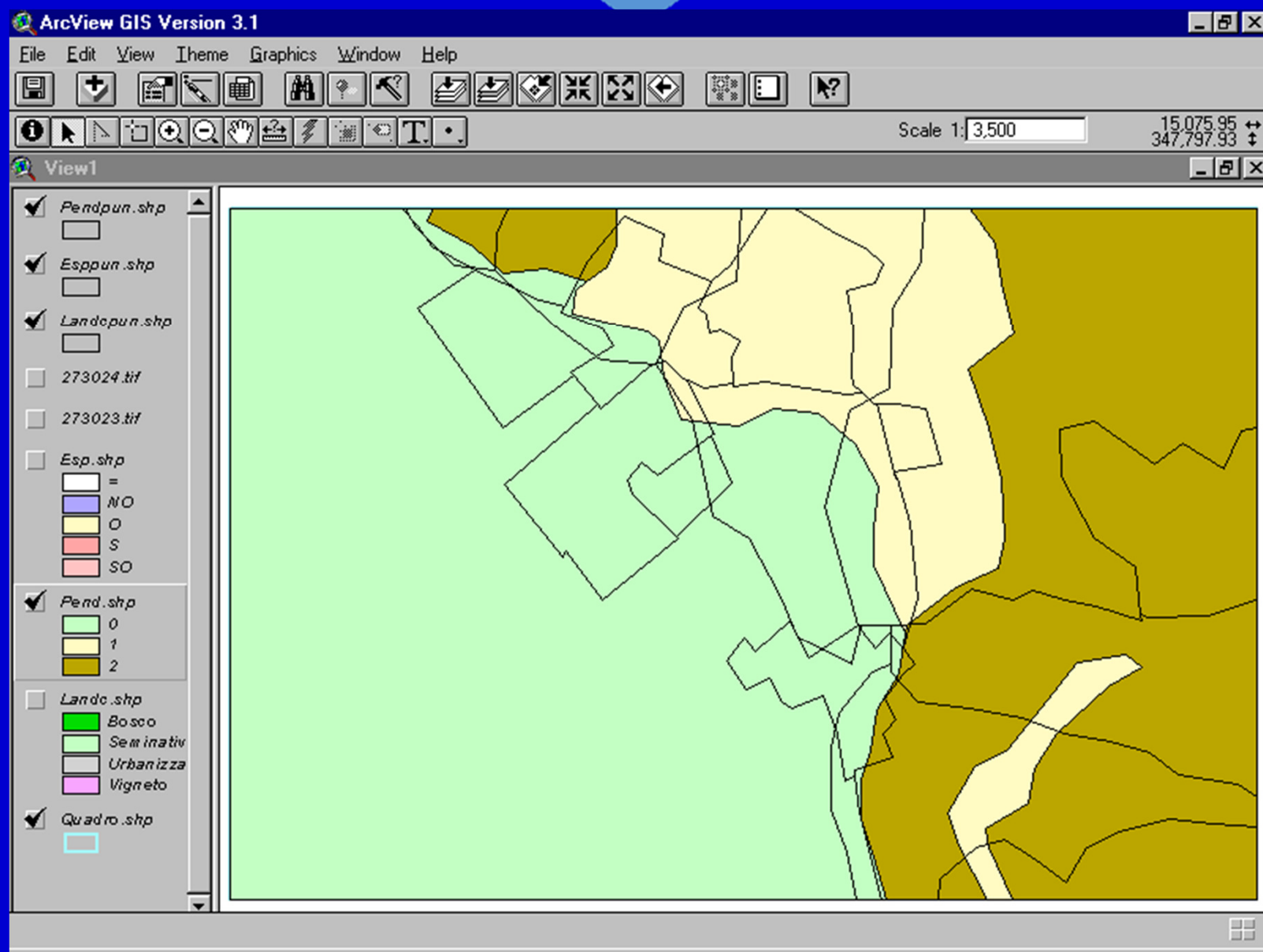
Incrocio per trasferimenti di attributi



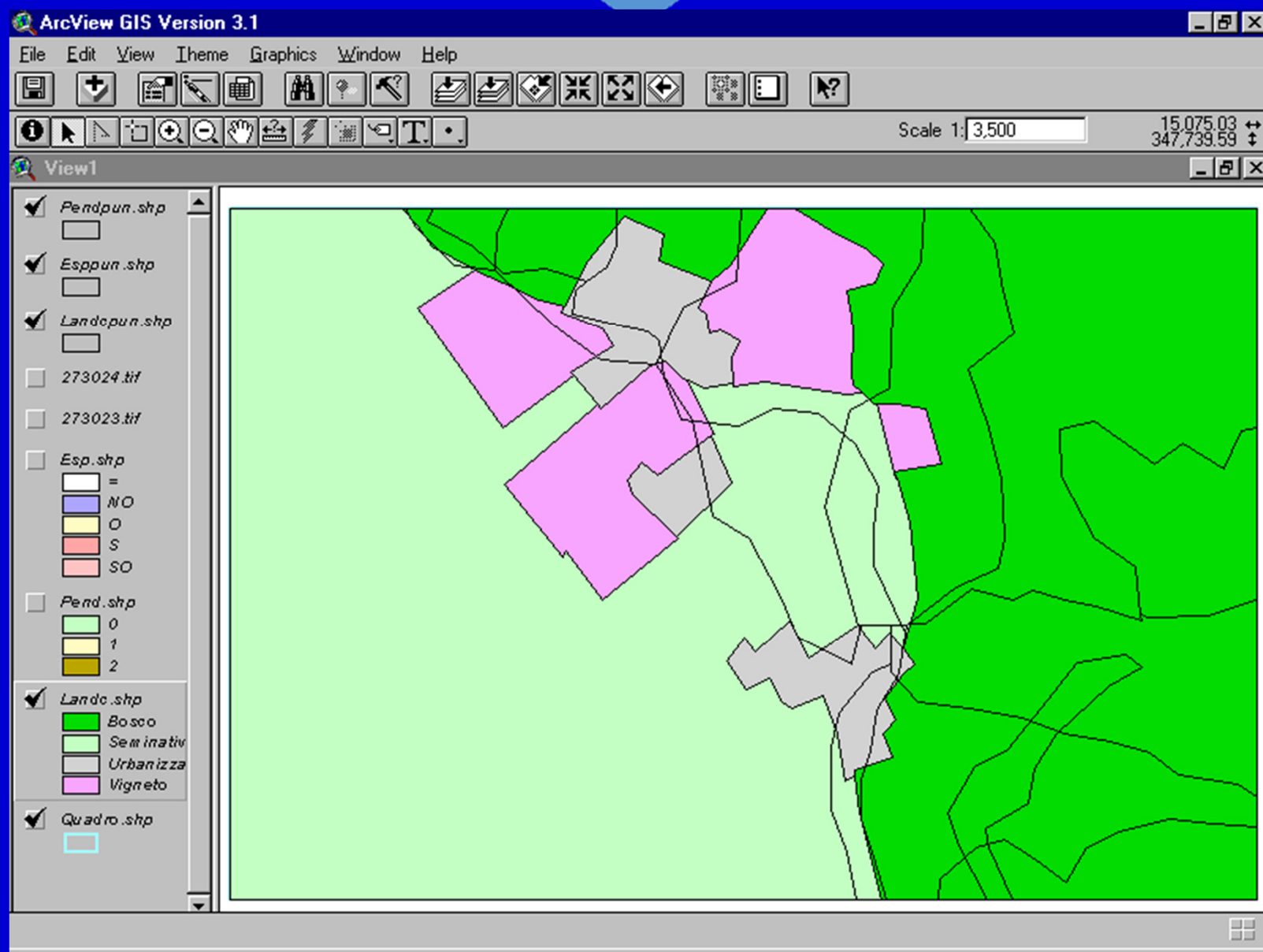
Incrocio per trasferimenti di attributi



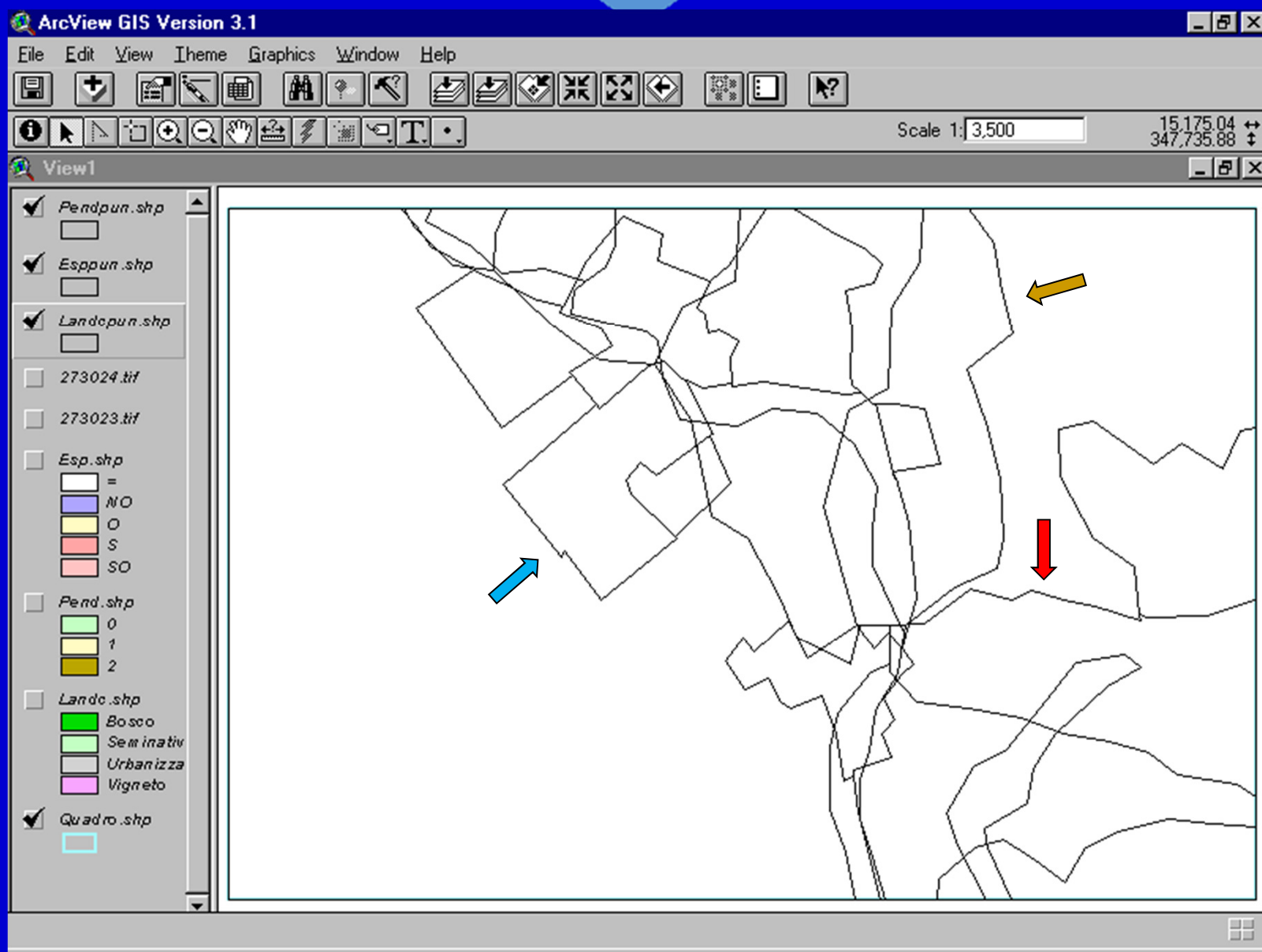
Incrocio per trasferimenti di attributi



Incrocio per trasferimenti di attributi

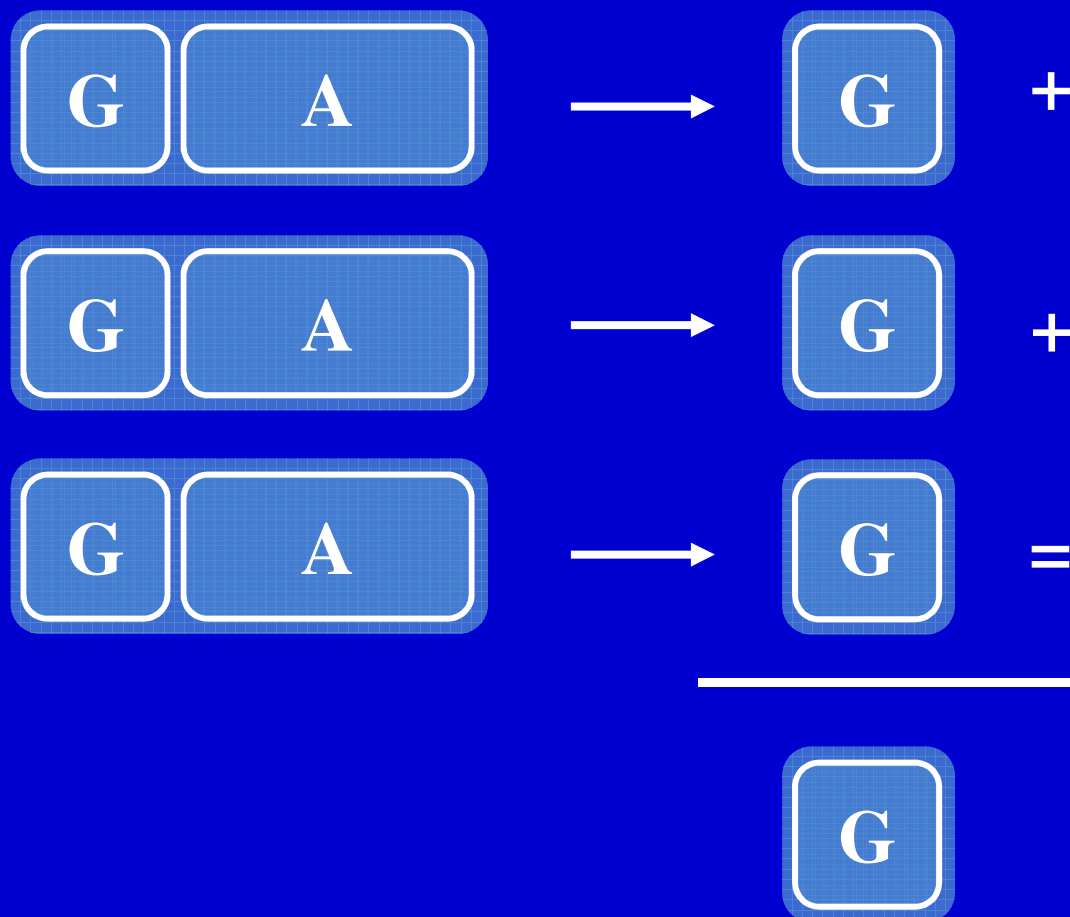


Incrocio per trasferimenti di attributi

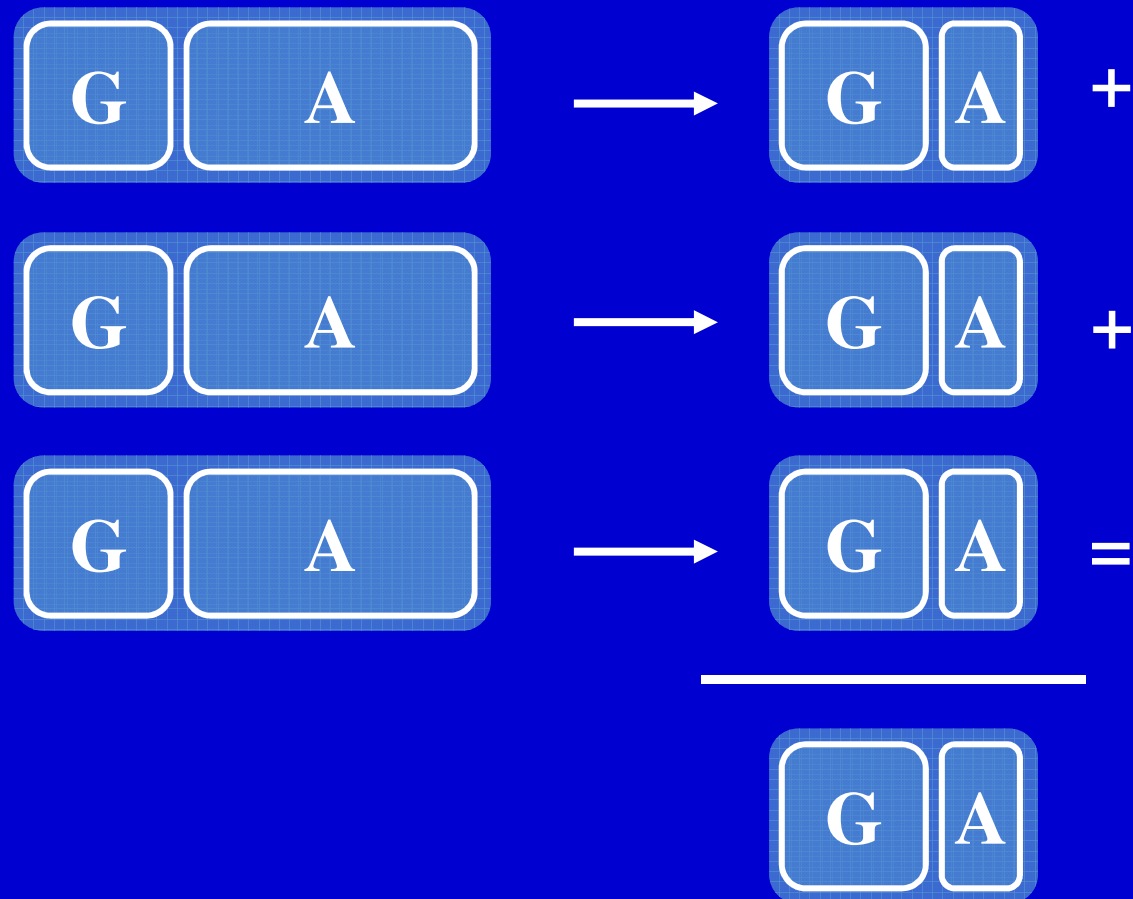


Confronto fra i tre tipi di incrocio

Incrocio per esclusione



Incrocio pesato



Incrocio per trasferimenti di attributi

G A +

G A +

G A =

G A

L'incrocio è il cuore della tecnologia GIS

**L'incrocio è un'operazione
che integra strati informativi diversi
sfruttando sia la parte geometrica che gli attributi
per ottenere nuova informazione
(per ristrutturare in modo significativo l'informazione)**

Principi dell'operazione di incrocio

- Relazioni spaziali tra oggetti
- Incrocio per esclusione
- Incrocio pesato
- Incrocio per trasferimento degli attributi
- Confronto fra i tre tipi di incrocio

Sistemi Informativi Territoriali

Paolo Mogorovich
www.di.unipi.it/~mogorov