

GeoAV ver.1:

groundwater vulnerability assesment by DRASTIC and SINTACS methods
 stima della vulnerabilità di un acquifero attraverso i metodi DRASTIC e SINTACS

DRASTIC		SINTACS		Normal condition												
5	4	3	2	1	5	3										
<input checked="" type="checkbox"/> Input parameters		Col/Row	1	2	3	4	5	6	7	8	9	10				
Cell 1/1	Value	1	2/1	3/1	4/1	5/1	6/1	7/1	8/1	9/1	10/1					
Depth to the water table(m):	24.0	2	2/2	3/2	4/2	5/2	6/2	7/2	8/2	9/2	10/2					
Net recharge(mm):	345.0	3	2/3	3/3	4/3	5/3	6/3	7/3	8/3	9/3	10/3					
Aquifer media:	Sand and gravel	4	2/4	3/4	4/4	5/4	6/4	7/4	8/4	9/4	10/4					
Soil media:	Sandy loam	5	2/5	3/5	4/5	5/5	6/5	7/5	8/5	9/5	10/5					
Topography (%):	0.0	6	2/6	3/6	4/6	5/6	6/6	7/6	8/6	9/6	10/6					
Impact of vadose zone:	Silt/clay	7	2/7	3/7	4/7	5/7	6/7	7/7	8/7	9/7	10/7					
Hydraulic conductivity (m/s):	10.0e-5	8	2/8	3/8	4/8	5/8	6/8	7/8	8/8	9/8	10/8					
Vulnerability:	99 Low vulnerability	9	2/9	3/9	4/9	5/9	6/9	7/9	8/9	9/9	10/9					

Methods . Metodi:

DRASTIC (Aller et al., 1987)

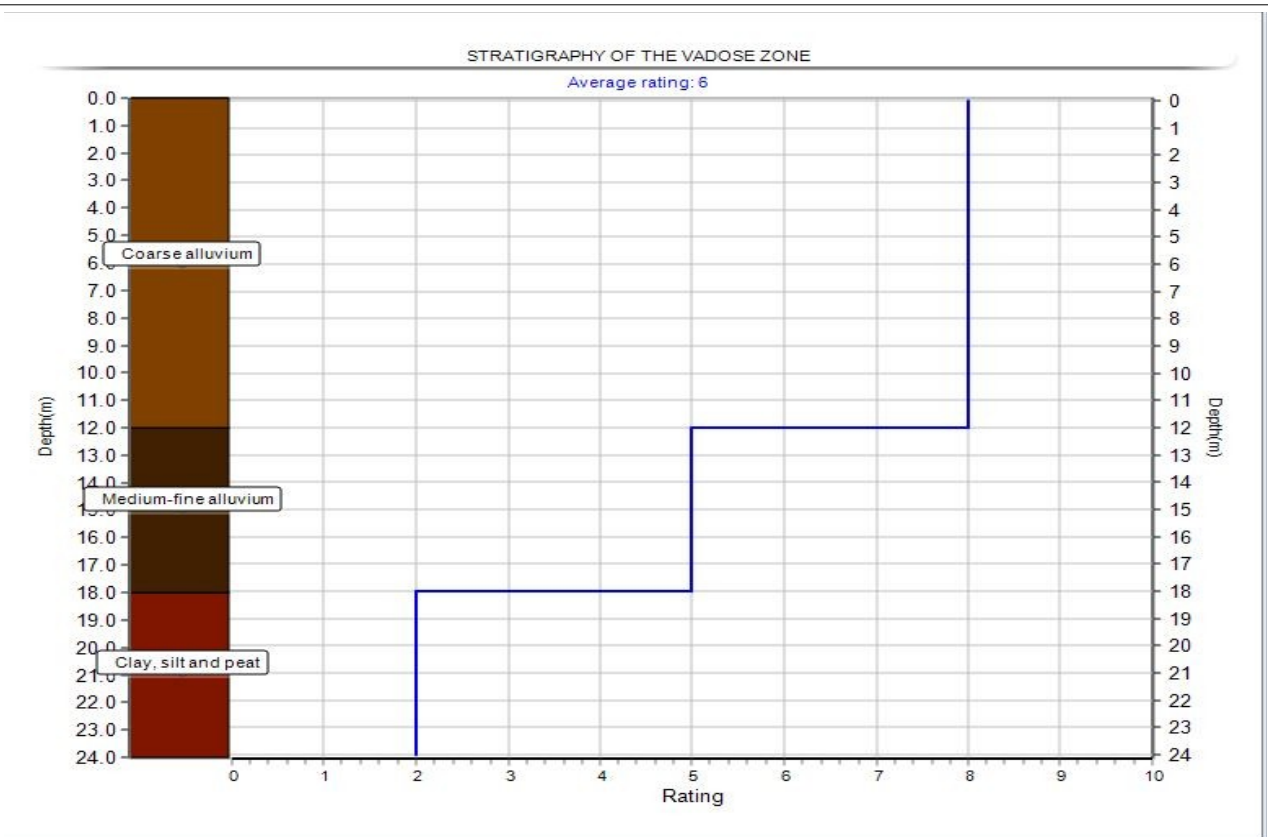
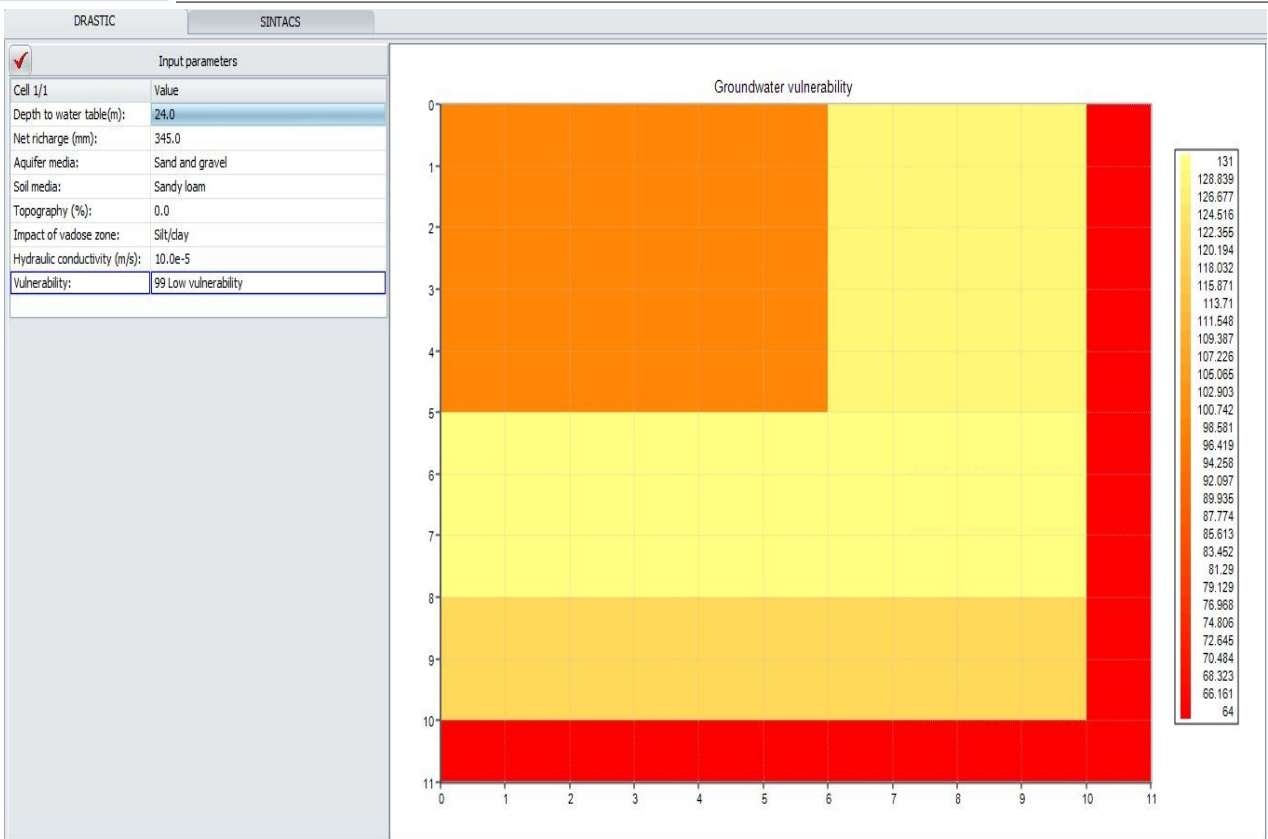
SINTACS (Civita and De Maio., 1997)

Maximum grid size – Massima dimensione della griglia:

500 x 500

Maximum number of layers in vadose zone Massimo numero di strati nella zona insatura:

100



DRASTIC SINTACS

5 4 5 4 3 3 2 Normal impact

Input parameters		Col/Row	1	2	3	4	5	6	7	8	9	10
Cell 1/1	Value	1	2	3	4	5	6	7	8	9	10	
Depth to water table(m):	24.0	1	2/1	3/1	4/1	5/1	6/1	7/1	8/1	9/1	10/1	
Net recharge (mm):	345.0	2	1/2	2/2	3/2	4/2	5/2	6/2	7/2	8/2	9/2	10/2
Aquifer media:	Coarse alluvium	3	1/3	2/3	3/3	4/3	5/3	6/3	7/3	8/3	9/3	10/3
Soil media:	Sandy soil	4	1/4	2/4	3/4	4/4	5/4	6/4	7/4	8/4	9/4	10/4
Topography (%):	0.0	5	1/5	2/5	3/5	4/5	5/5	6/5	7/5	8/5	9/5	10/5
Impact of vadose zone:	6	6	1/6	2/6	3/6	4/6	5/6	6/6	7/6	8/6	9/6	10/6
Hydraulic conductivity (m/s):	10.0e-5	7	1/7	2/7	3/7	4/7	5/7	6/7	7/7	8/7	9/7	10/7
Vulnerability:	156 High vulnerability	8	1/8	2/8	3/8	4/8	5/8	6/8	7/8	8/8	9/8	10/8
		9	1/9	2/9	3/9	4/9	5/9	6/9	7/9	8/9	9/9	10/9

