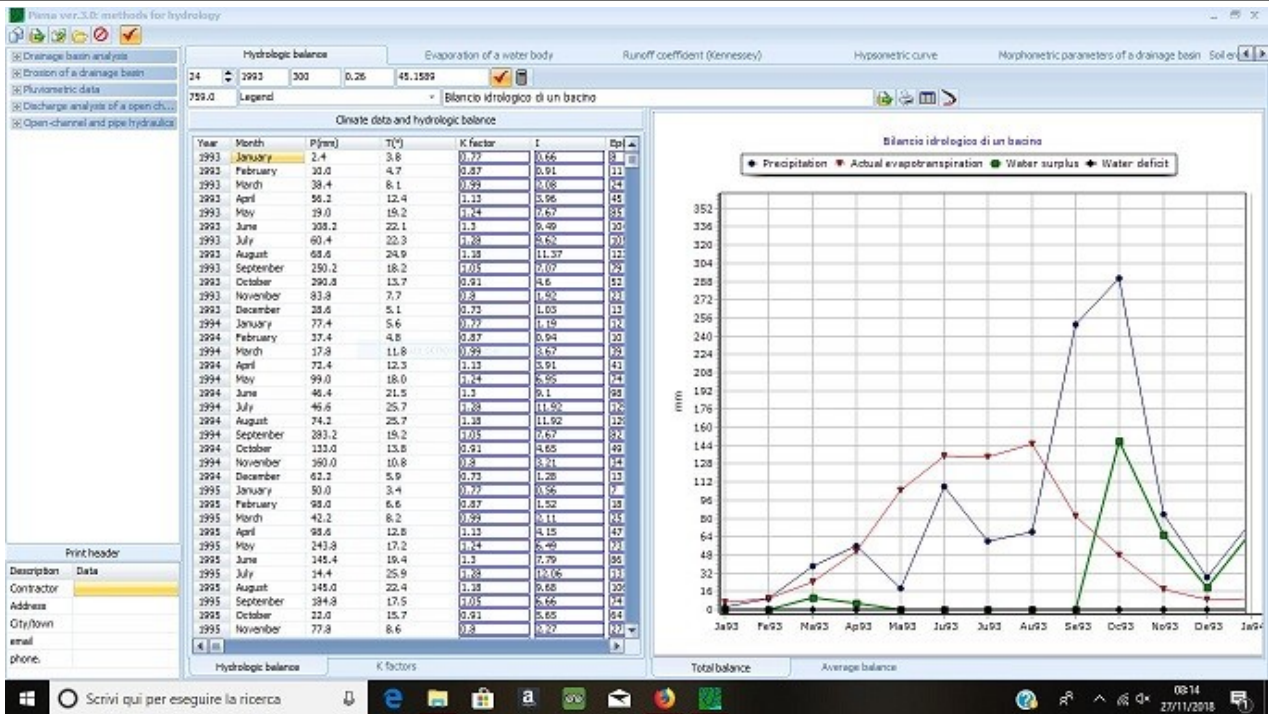


**Piena ver.3:**  
**methods for hydrology .**  
**Metodi per l'idrologia.**



**Average annual runoff coefficient of a drainage basin – coefficiente di deflusso medio annuale di un bacino.**

**Hydrologic balance of an hydrographic basin bilancio idrologico di un bacino.**

**Assessment of the IDF (Intensity-Duration-Frequency) curves stima delle curve di possibilità pluviometrica.**

**Assessment of the effective rainfall – stima della pioggia efficace.**

*Curve Number method by Soil Conservation Service.*

*Rasulo & Gisonni (1997).*

*Green & Ampt (1911).*

**Processing a design rainfall – elaborazione della pioggia di progetto.**

**Hypsometric curve – curva ipsometrica.**

**Analysis of stream networks by Strahler – analisi di un reticolo idrografico secondo Strahler.**

**Assessment of the maximum flood discharge – stima della portata di massima piena.**

*Rational methods – metodo razionale.*

*Probabilistic methods- metodi probabilistici.*

*Synthetic hydrograph by Nash - idrogramma sintetico di Nash.*

*Synthetic hydrograph by S.C.S. method idrogramma sintetico con il metodo S.C.S..*

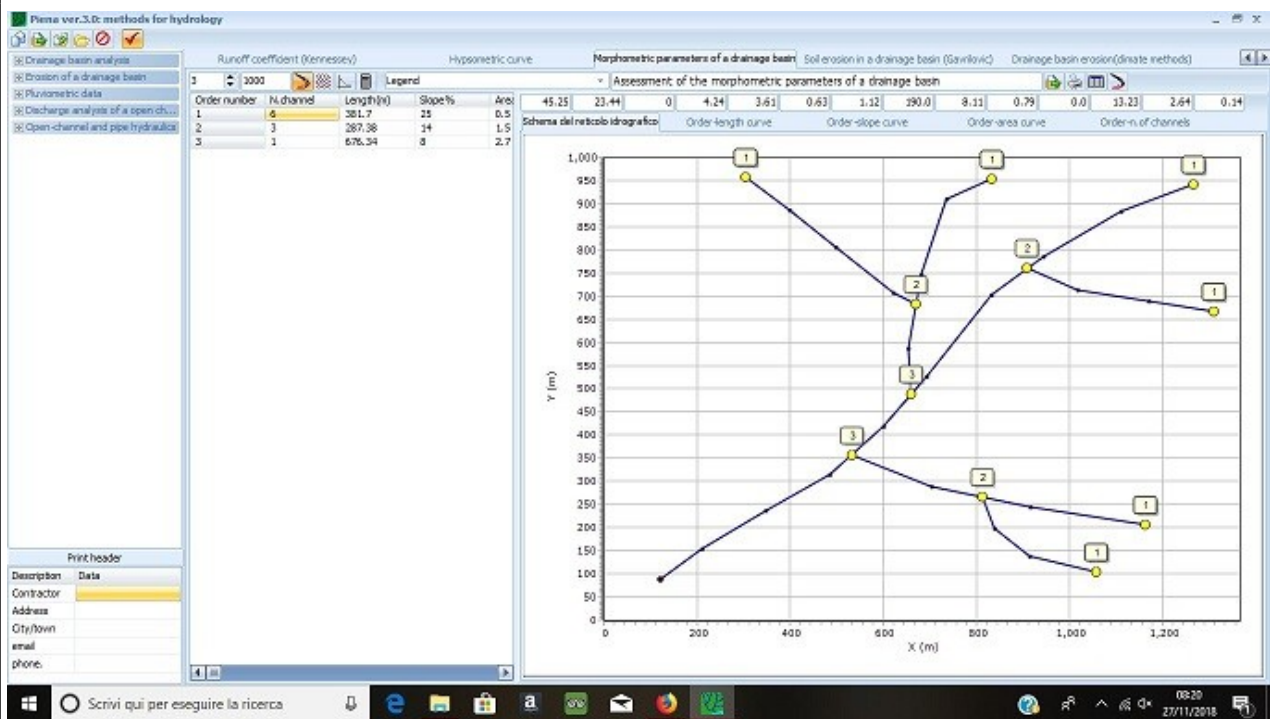
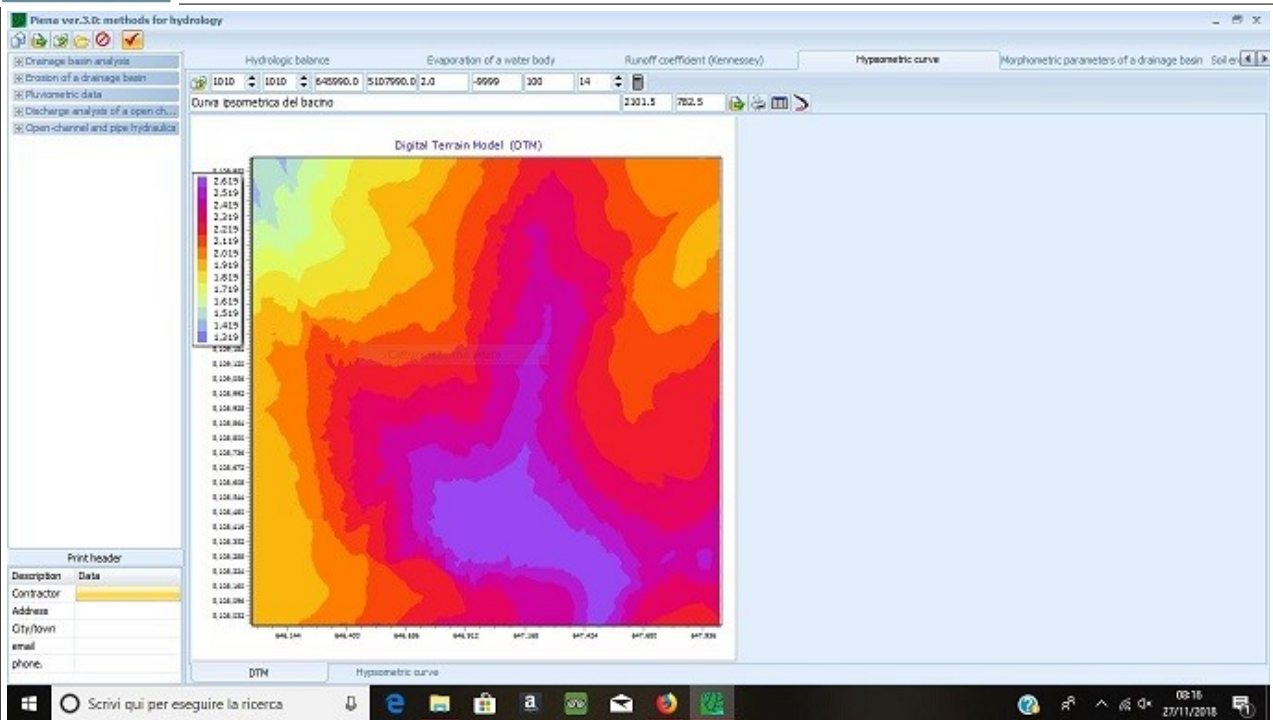
*Synthetic hydrograph by rational method – idrogramma sintetico con il metodo razionale.*

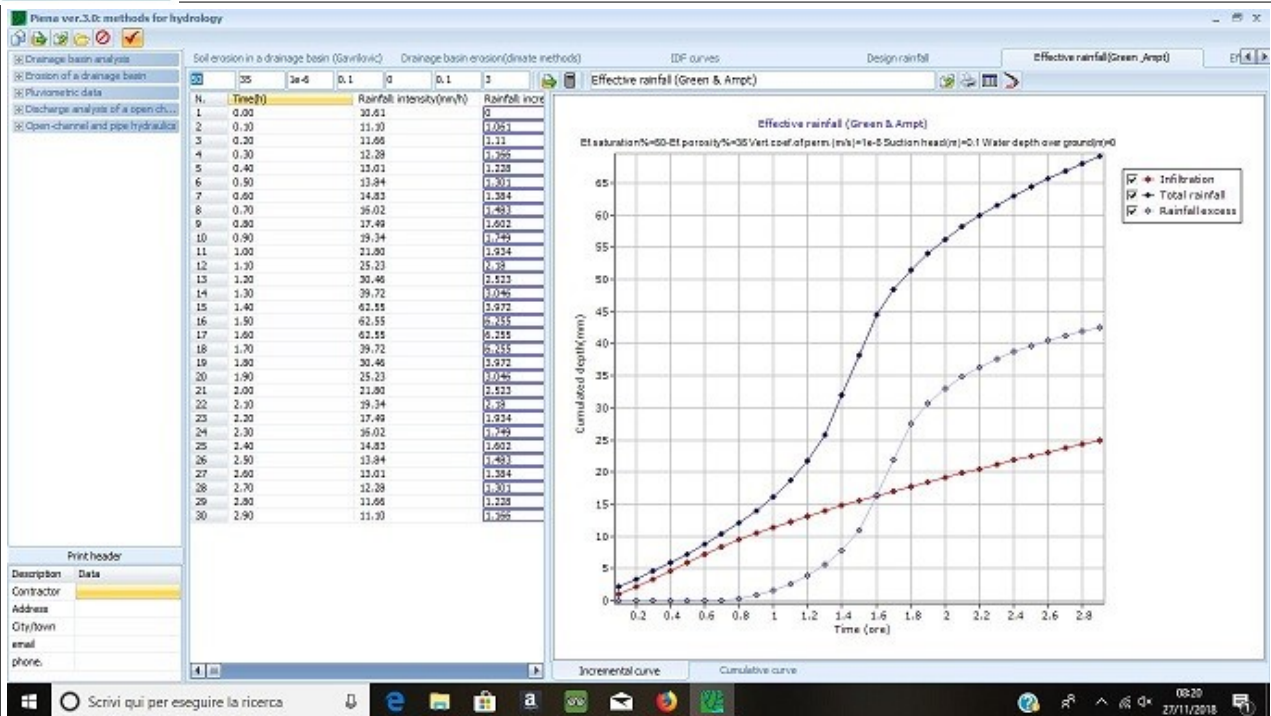
**Soil erosion of a drainage basin – erosione del suolo in un bacino.**

**Check of a channel cross-section – verifica di sezioni d'alveo.**

*Uniform flow- moto uniforme*

*Gradually varied flow - moto permanente*





**Effective rainfall (Soil Conservation Service)**

N.	Land use	Soil treatment	Drainage	Partial area	Class of permeability	Partial CNII
1	Pallow	Straight row	-			
2	Row crops	Straight row	Poor			
3	Row crops	Straight row	Good			
4	Row crops	Contoured	Poor			
5	Row crops	Contoured	Good			
6	Row crops	Terraced	Poor			
7	Row crops	Terraced	Good			
8	Small grain	Straight row	Poor			
9	Small grain	Straight row	Good	8	B=medium permeability	75.0
10	Small grain	Contoured	Poor			
11	Small grain	Contoured	Good			
12	Small grain	Terraced	Poor			
13	Small grain	Terraced	Good			
14	Close-seeded or rotation mead.	Straight row	Poor			
15	Close-seeded or rotation mead.	Straight row	Good			
16	Close-seeded or rotation mead.	Contoured	Poor			
17	Close-seeded or rotation mead.	Contoured	Good			
18	Close-seeded or rotation mead.	Terraced	Poor			
19	Close-seeded or rotation mead.	Terraced	Good			
20	Pasture	Straight row	Poor	4	B=medium permeability	39.0
21	Pasture	Straight row	Fair			
22	Pasture	Straight row	Good			
23	Pasture	Contoured	Poor			
24	Pasture	Contoured	Fair			
25	Pasture	Contoured	Good			
26	Hopkiss					
27	Wood		Poor			
28	Wood		Fair	4	B=medium permeability	20.0
29	Wood		Good			
30	Farmsteads					
31	Commercial and business distr.			1	C=low permeability	62.0
32	Industrial districts					
33	Residential districts	65% impervious				
34	Residential districts	36% impervious				
35	Residential districts	30% impervious		5	C=low permeability	72.0
36	Residential districts	25% impervious				
37	Residential districts	20% impervious				
38	Paved parking					
39	Streets and roads	Paved				

