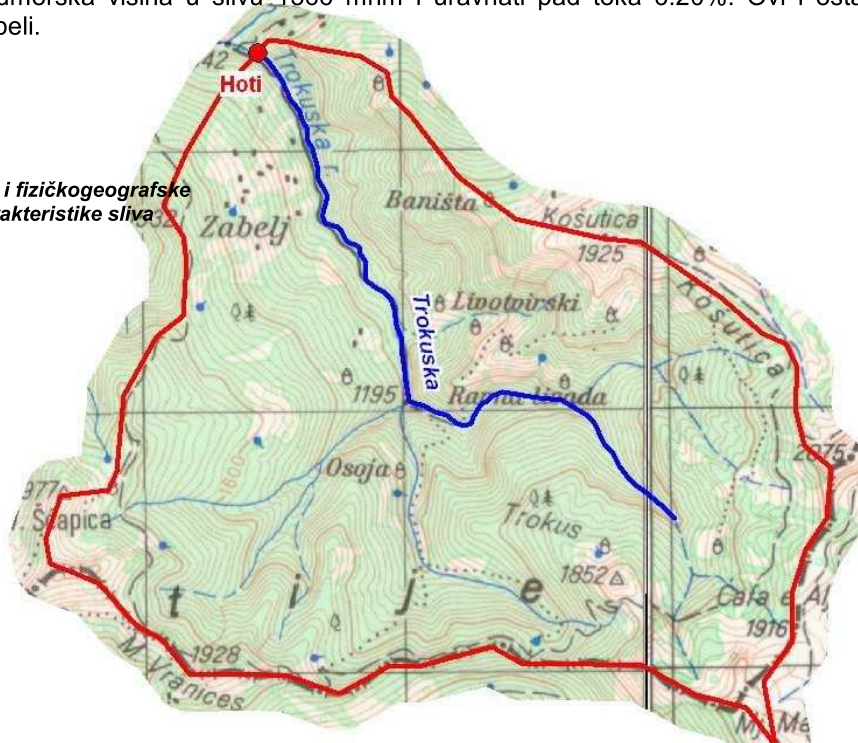


**F.8. VODOTOK: TROKUTSKA RIJEKA
HS: HOTI**

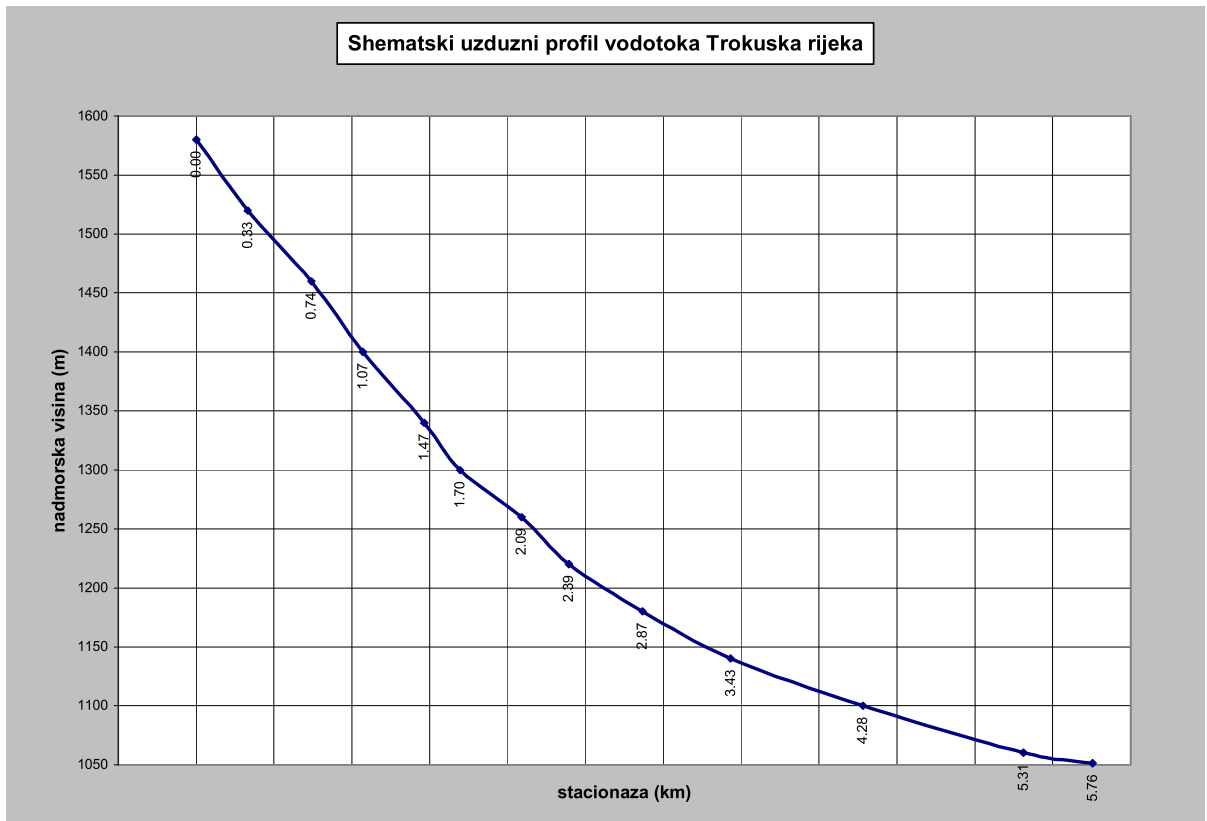
Generalni smjer tečenja ovog vodotoka je jugoistok-sjeverozapad. Dužina toka je 5.76 km, površina sliva 19.6 km² a dužina vododjelnice 19.3 km. Najvisočija kota u slivu je 2122 mnm a najniža 1051 mnm, srednji pad sliva 41.5%, srednja nadmorska visina u slivu 1566 mnm i uravnati pad toka 6.20%. Ovi i ostali parametri sliva dati su u sledećoj tabeli.

Hidrografske i fizičkogeografske karakteristike sliva

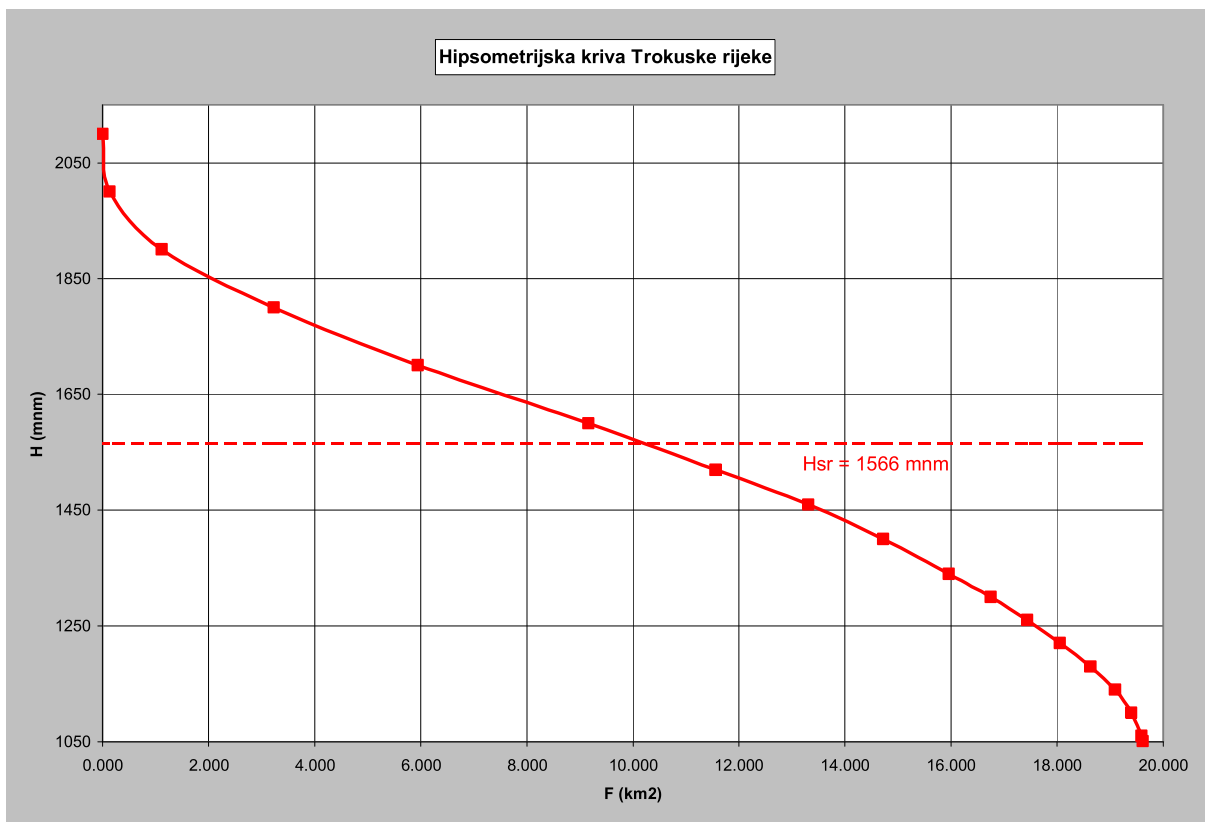


| | | | |
|----|---------------------------------------------------------------|-------|--------------------|
| 1 | Površina sliva F | 19.6 | [km ²] |
| 2 | Dužina toka L _t | 5.76 | [km] |
| 3 | Dužina sliva L _s | 7.18 | [km] |
| 4 | Obim sliva S | 19.3 | [km] |
| 5 | Srednja širina sliva B=F/L _s | 2.73 | [km] |
| 6 | Pravolinijska udaljenost izvor-ušće L _i | 4.81 | [km] |
| 7 | Pravolinijska udaljenost težišta sliva od ušća U _t | 3.07 | [km] |
| 8 | Koeficijent razvijenosti vododjelnice K _s | 1.23 | [-] |
| 9 | Koeficijent izduženja sliva K _o | 1.69 | [-] |
| 10 | Koeficijent koncentracije sliva K _c | 0.661 | [-] |
| 11 | Koeficijent krivudavosti toka K _L | 1.20 | [-] |
| 12 | Maksimalna visina sliva H _{max} | 2122 | [m n. m.] |
| 13 | Minimalna visina sliva H _{min} | 1051 | [m n. m.] |
| 14 | Srednji pad sliva I _{sr} | 41.5 | [%] |
| 15 | Maksimalni pad kosine doline I _{max} | 42.1 | [%] |
| 16 | Srednja nadmorska visina sliva H _{sr} | 1566 | [m n. m.] |
| 17 | Srednja visinska razlika sliva ΔH | 515 | [m] |
| 18 | Uravnati pad toka I _t | 6.20 | [%] |
| 19 | Maksimalni pad toka I _{t1} | 18.1 | [%] |
| 20 | Srednji maksimalni pad toka I _{t2} | 9.19 | [%] |

Na strani 76 dat je podužni profil vodotoka (sl.68) i hipsometrijska kriva (sl.69). Sa hipsometrijske krive se vidi da se većina sliva nalazi između kota 1250 i 1850 mnm i taj procenat iznosi oko 80%.

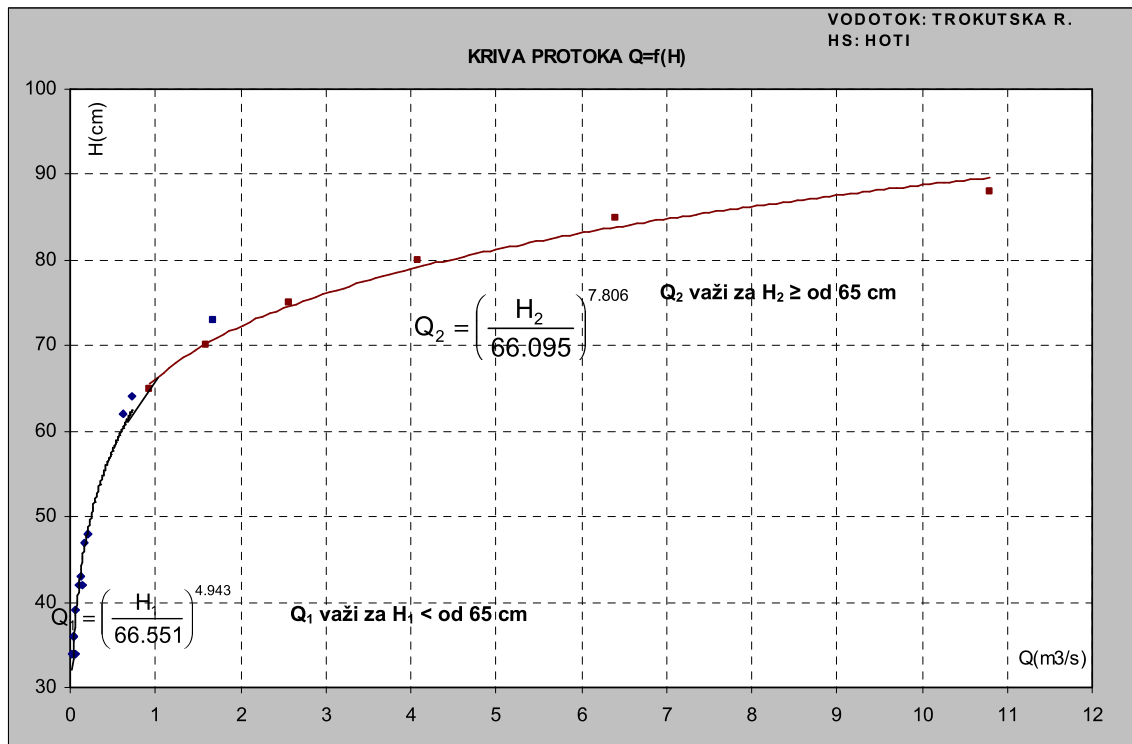


slika 68



slika 69

Kriva protoka (sl. 70) je jedinstvena stepena funkcija. Za vodostaje manje od 65 cm je $Q_1 = \left(\frac{H_1}{66.551}\right)^{4.943}$ a za veće ili jednake 65 cm $Q_2 = \left(\frac{H_2}{66.095}\right)^{7.806}$. Prema njima sastavljen je bilans koji je prikazan na strani 78.



slika 70

Najvodniji mjeseci su bili april i maj iz 2007 god a najsušniji septembar i oktobar takođe 2007 god. Apsolutni maksimum od 9.34 m³/s iz novembra 2006 god je bio veći od srednje dnevnog protoka za taj dan oko 8.33 puta a minimalni od samo 36 l/s bio je manji od srednje dnevnog protoka za taj dan za 1.83 puta.

Hidrogram oticaja (sl. 71) i kriva trajanja (sl. 72) dati su na strani 79. Prema krivoj trajanja srednji godišnji protok i svi veći od njega traju 35% ili 128 dana. Ostala karakteristična trajanja protoka data su u tabeli.

| Trajanje | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% |
|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Protok | 1.21 | 0.735 | 0.565 | 0.412 | 0.265 | 0.209 | 0.162 | 0.118 | 0.088 |

PREGLED PROTICAJA - 2006

| | JUN | JUL | AUG | SEP | OKT | NOV | DEC |
|--|-----|-----|-----|-----|-----|-----|-----|
|--|-----|-----|-----|-----|-----|-----|-----|

| | | | | | | | |
|-------------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 0.243 | 0.115 | 0.091 | 0.081 | 0.081 | 0.081 | 0.220 |
| 2 | 0.220 | 0.103 | 0.091 | 0.081 | 0.081 | 0.103 | 0.199 |
| 3 | 0.243 | 0.103 | 0.081 | 0.081 | 0.081 | 0.103 | 0.199 |
| 4 | 0.220 | 0.115 | 0.081 | 0.071 | 0.081 | 0.091 | 0.199 |
| 5 | 0.199 | 0.325 | 0.081 | 0.103 | 0.081 | 0.103 | 0.199 |
| 6 | 0.179 | 0.161 | 0.081 | 0.199 | 0.103 | 0.103 | 0.179 |
| 7 | 0.179 | 0.129 | 0.071 | 0.129 | 0.103 | 0.103 | 0.179 |
| 8 | 0.161 | 0.129 | 0.071 | 0.145 | 0.115 | 0.115 | 0.161 |
| 9 | 0.179 | 0.115 | 0.071 | 0.179 | 0.115 | 0.115 | 0.179 |
| 10 | 0.161 | 0.199 | 0.071 | 0.129 | 0.145 | 0.145 | 0.325 |
| 11 | 0.161 | 0.220 | 0.071 | 0.115 | 0.115 | 0.115 | 0.220 |
| 12 | 0.145 | 0.161 | 0.071 | 0.115 | 0.115 | 0.115 | 0.199 |
| 13 | 0.145 | 0.161 | 0.063 | 0.103 | 0.103 | 0.103 | 0.179 |
| 14 | 0.145 | 0.161 | 0.063 | 0.103 | 0.103 | 0.103 | 0.179 |
| 15 | 0.145 | 0.129 | 0.063 | 0.091 | 0.115 | 0.115 | 0.179 |
| 16 | 0.824 | 0.145 | 0.129 | 0.063 | 0.091 | 0.145 | 0.179 |
| 17 | 0.824 | 0.129 | 0.115 | 0.103 | 0.091 | 0.129 | 0.179 |
| 18 | 0.763 | 0.103 | 0.115 | 0.115 | 0.091 | 0.129 | 0.356 |
| 19 | 0.705 | 0.103 | 0.115 | 0.115 | 0.091 | 0.129 | 0.426 |
| 20 | 0.650 | 0.091 | 0.103 | 0.103 | 0.081 | 0.129 | 0.356 |
| 21 | 0.551 | 0.091 | 0.091 | 0.091 | 0.081 | 0.129 | 0.295 |
| 22 | 0.465 | 0.091 | 0.103 | 0.091 | 0.091 | 0.112 | 0.295 |
| 23 | 0.465 | 0.091 | 0.091 | 0.091 | 0.091 | 1.248 | 0.243 |
| 24 | 0.465 | 0.091 | 0.091 | 0.081 | 0.081 | 0.599 | 0.243 |
| 25 | 0.390 | 0.103 | 0.081 | 0.081 | 0.081 | 0.426 | 0.243 |
| 26 | 0.325 | 0.103 | 0.179 | 0.081 | 0.081 | 0.356 | 0.243 |
| 27 | 0.295 | 0.103 | 0.115 | 0.103 | 0.081 | 0.295 | 0.199 |
| 28 | 0.268 | 0.091 | 0.129 | 0.115 | 0.081 | 0.268 | 0.199 |
| 29 | 0.243 | 0.199 | 0.103 | 0.103 | 0.081 | 0.243 | 0.199 |
| 30 | 0.220 | 0.220 | 0.103 | 0.091 | 0.115 | 0.243 | 0.199 |
| 31 | 0.161 | 0.103 | | | 0.091 | 0.199 | |
| DEK1 | 0.000 | 0.199 | 0.150 | 0.079 | 0.120 | 0.105 | 0.204 |
| DEK2 | 0.377 | 0.131 | 0.140 | 0.063 | 0.097 | 0.123 | 0.247 |
| DEK3 | 0.365 | 0.122 | 0.108 | 0.093 | 0.087 | 0.492 | 0.233 |
| MIN | 0.199 | 0.081 | 0.081 | 0.063 | 0.071 | 0.081 | 0.161 |
| DAT | 30 | 23 | 24 | 12 | 4 | 1 | 7 |
| SRED | 0.247 | 0.150 | 0.132 | 0.085 | 0.101 | 0.240 | 0.228 |
| MAX | 0.878 | 2.682 | 1.112 | 0.243 | 0.356 | 9.341 | 0.470 |
| DAT | 17 | 29 | 5 | 17 | 6 | 22 | 10 |
| MIN = 0.053 | | | | | | | |
| DAT: 12. 09 | | | | | | | |
| SR = 0.181 | | | | | | | |
| MAX = 9.341 | | | | | | | |
| DAT: 22. 11 | | | | | | | |

PREGLED PROTICAJA - 2007

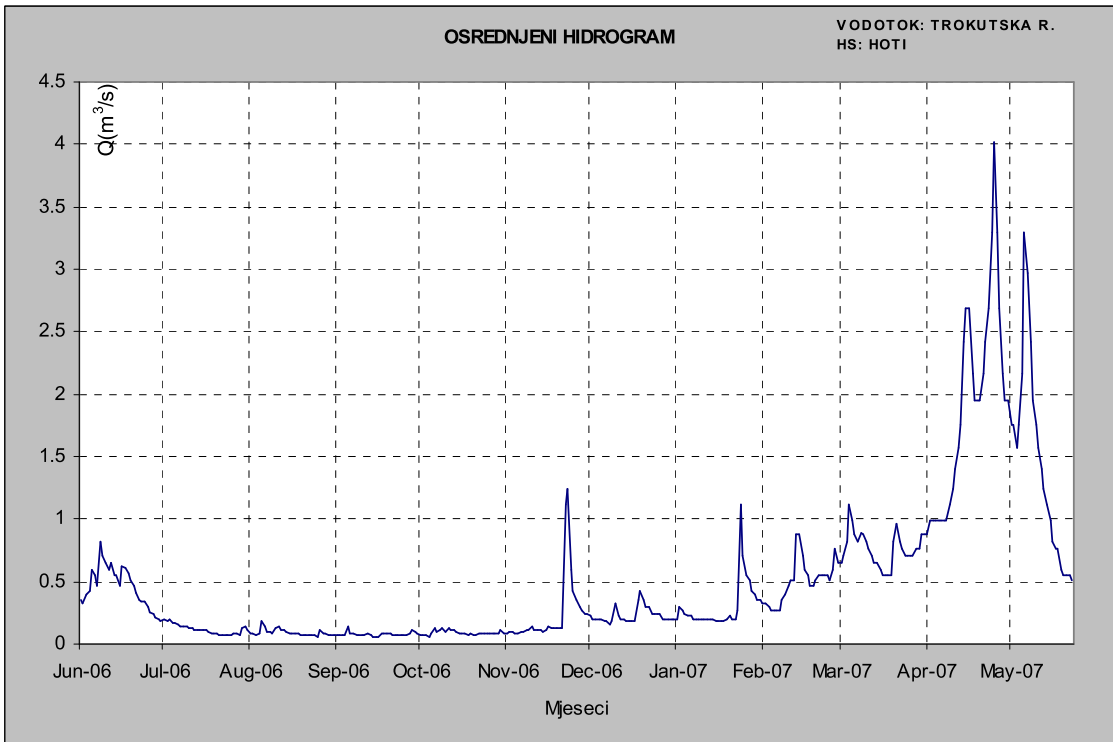
| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

| | | | | | | | | | | |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 0.199 | 0.325 | 0.650 | 0.878 | 1.749 | 0.356 | 0.161 | 0.055 | 0.048 | 0.071 |
| 2 | 0.295 | 0.325 | 0.705 | 0.989 | 1.749 | 0.325 | 0.145 | 0.055 | 0.055 | 0.063 |
| 3 | 0.268 | 0.295 | 0.824 | 0.989 | 1.565 | 0.390 | 0.145 | 0.048 | 0.048 | 0.055 |
| 4 | 0.243 | 0.268 | 1.112 | 0.989 | 1.749 | 0.426 | 0.129 | 0.048 | 0.055 | 0.055 |
| 5 | 0.220 | 0.268 | 0.989 | 0.989 | 1.749 | 0.599 | 0.129 | 0.065 | 0.199 | 0.055 |
| 6 | 0.220 | 0.268 | 0.878 | 0.989 | 3.294 | 0.551 | 0.129 | 0.115 | 0.103 | 0.055 |
| 7 | 0.199 | 0.268 | 0.824 | 0.989 | 2.974 | 0.465 | 0.115 | 0.071 | 0.091 | 0.071 |
| 8 | 0.199 | 0.356 | 0.878 | 0.989 | 2.415 | 0.824 | 0.115 | 0.063 | 0.071 | 0.081 |
| 9 | 0.199 | 0.390 | 0.878 | 1.112 | 1.950 | 0.705 | 0.115 | 0.063 | 0.071 | 0.071 |
| 10 | 0.199 | 0.465 | 0.824 | 1.248 | 1.749 | 0.650 | 0.103 | 0.063 | 0.071 | 0.071 |
| 11 | 0.199 | 0.507 | 0.763 | 1.399 | 1.565 | 0.599 | 0.103 | 0.055 | 0.081 | 0.129 |
| 12 | 0.199 | 0.507 | 0.705 | 1.565 | 1.399 | 0.650 | 0.091 | 0.055 | 0.091 | 0.103 |
| 13 | 0.199 | 0.878 | 0.650 | 1.749 | 1.248 | 0.551 | 0.091 | 0.055 | 0.071 | 0.115 |
| 14 | 0.199 | 0.878 | 0.650 | 2.415 | 1.112 | 0.551 | 0.091 | 0.048 | 0.063 | 0.091 |
| 15 | 0.179 | 0.705 | 0.599 | 2.682 | 0.989 | 0.465 | 0.091 | 0.048 | 0.063 | 0.081 |
| 16 | 0.179 | 0.599 | 0.551 | 2.682 | 0.824 | 0.426 | 0.081 | 0.048 | 0.055 | 0.071 |
| 17 | 0.179 | 0.551 | 0.551 | 2.172 | 0.763 | 0.390 | 0.071 | 0.048 | 0.055 | 0.071 |
| 18 | 0.179 | 0.465 | 0.551 | 1.950 | 0.763 | 0.356 | 0.071 | 0.048 | 0.055 | 0.063 |
| 19 | 0.199 | 0.465 | 0.551 | 1.950 | 0.599 | 0.325 | 0.071 | 0.048 | 0.063 | 0.071 |
| 20 | 0.220 | 0.507 | 0.824 | 1.950 | 0.551 | 0.295 | 0.071 | 0.042 | 0.071 | 0.071 |
| 21 | 0.199 | 0.551 | 0.960 | 2.172 | 0.551 | 0.268 | 0.063 | 0.042 | 0.063 | 0.063 |
| 22 | 0.199 | 0.551 | 0.824 | 2.415 | 0.551 | 0.243 | 0.063 | 0.036 | 0.063 | 0.081 |
| 23 | 0.268 | 0.551 | 0.763 | 2.682 | 0.507 | 0.243 | 0.063 | 0.036 | 0.055 | 0.081 |
| 24 | 1.112 | 0.551 | 0.705 | 3.294 | 0.465 | 0.220 | 0.055 | 0.042 | 0.055 | 0.081 |
| 25 | 0.705 | 0.507 | 0.705 | 4.024 | 0.426 | 0.199 | 0.048 | 0.042 | 0.055 | 0.081 |
| 26 | 0.551 | 0.599 | 0.705 | 3.294 | 0.465 | 0.179 | 0.055 | 0.042 | 0.063 | 0.081 |
| 27 | 0.507 | 0.763 | 0.705 | 2.682 | 0.390 | 0.179 | 0.055 | 0.042 | 0.081 | 0.081 |
| 28 | 0.426 | 0.650 | 0.763 | 2.172 | 0.426 | 0.161 | 0.055 | 0.036 | 0.103 | 0.103 |
| 29 | 0.390 | | 0.763 | 1.950 | 0.599 | 0.161 | 0.055 | 0.036 | 0.103 | 0.103 |
| 30 | 0.356 | | 0.878 | 1.950 | 0.465 | 0.161 | 0.055 | 0.036 | 0.071 | 0.071 |
| 31 | 0.356 | | 0.878 | 0.390 | | | 0.055 | 0.036 | | |
| DEK1 | 0.224 | 0.323 | 0.856 | 1.016 | 2.137 | 0.529 | 0.129 | 0.064 | 0.081 | 0.065 |
| DEK2 | 0.193 | 0.606 | 0.640 | 2.052 | 0.981 | 0.461 | 0.083 | 0.049 | 0.067 | 0.087 |
| DEK3 | 0.461 | 0.591 | 0.786 | 2.684 | 0.476 | 0.202 | 0.056 | 0.039 | 0.071 | 0.020 |
| MIN | 0.179 | 0.243 | 0.507 | 0.824 | 0.356 | 0.161 | 0.048 | 0.036 | 0.036 | 0.055 |
| DAT | 1 | 5 | 19 | 1 | 27 | 26 | 24 | 21 | 1 | 3 |
| SRED | 0.298 | 0.500 | 0.761 | 1.910 | 1.175 | 0.397 | 0.088 | 0.050 | 0.073 | 0.056 |
| MAX | 1.950 | 1.565 | 1.399 | 5.383 | 3.643 | 1.950 | 0.161 | 0.145 | 0.288 | 0.161 |
| DAT | 24 | 13 | 20 | 24 | 6 | 8 | 1 | 6 | 5 | 11 |
| MIN = 0.036 | | | | | | | | | | |
| DAT: 21. 08 | | | | | | | | | | |
| SR = 0.543 | | | | | | | | | | |
| MAX = 5.383 | | | | | | | | | | |
| DAT: 24. 04 | | | | | | | | | | |

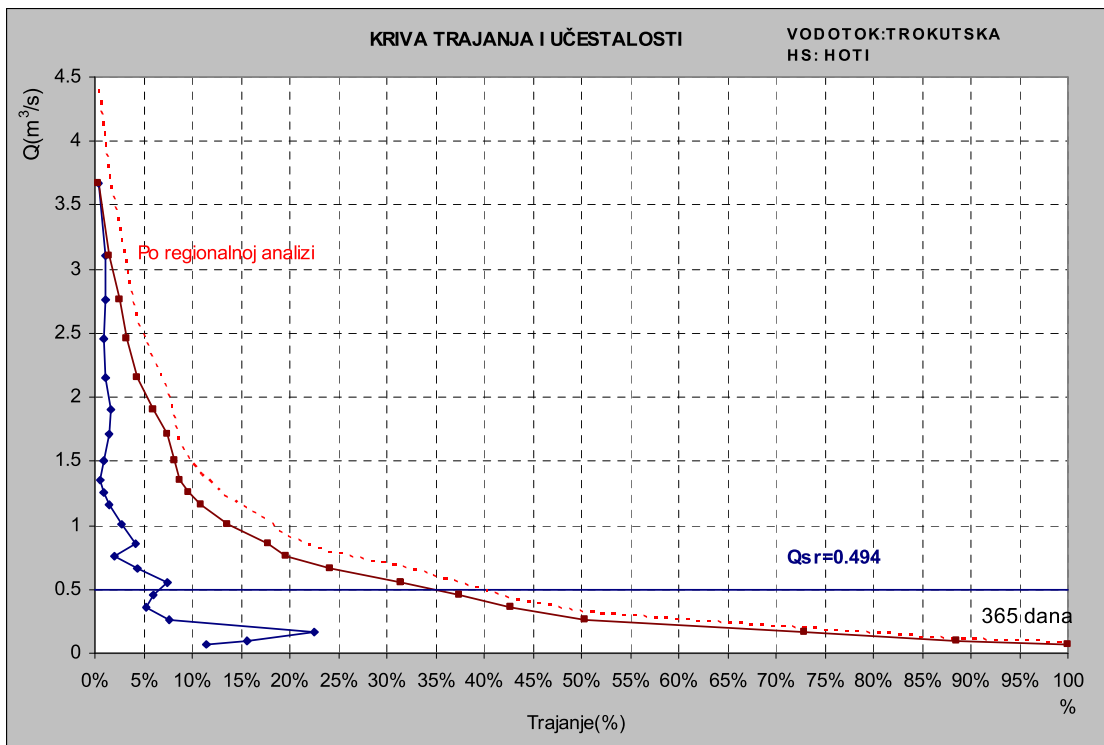
PREGLED PROTICAJA

| | JUN | JUL | AUG | SEP | OKT | NOV | DEC | JAN | FEB | MAR | APR | MAY |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

| | | | | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 0.356 | 0.202 | 0.085 | 0.070 | 0.076 | 0.081 | 0.220 | 0.199 | 0.325 | 0.650 | 0.878 | 1.749 |
| 2 | 0.325 | 0.182 | 0.079 | 0.073 | 0.072 | 0.103 | 0.199 | 0.295 | 0.325 | 0.705 | 0.989 | 1.749 |
| 3 | 0.390 | 0.194 | 0.075 | 0.064 | 0.068 | 0.103 | 0.199 | 0.268 | 0.295 | 0.824 | 0.989 | 1.565 |
| 4 | 0.426 | 0.194 | 0.082 | 0.068 | 0.063 | 0.091 | 0.199 | 0.243 | 0.268 | 1.112 | 0.989 | 1.749 |
| 5 | 0.599 | 0.164 | 0.190 | 0.140 | 0.079 | 0.081 | 0.199 | 0.220 | 0.268 | 0.989 | 0.989 | 2.172 |
| 6 | 0.551 | 0.154 | 0.138 | 0.092 | 0.127 | 0.103 | 0.179 | 0.220 | 0.268 | 0.878 | 0.989 | 3.294 |
| 7 | 0.465 | 0.147 | 0.100 | 0.081 | 0.100 | 0.103 | 0.179 | 0.199 | 0.268 | 0.824 | 0.989 | 2.974 |
| 8 | 0.824 | 0.138 | 0.096 | 0.071 | 0.113 | 0.115 | 0.161 | 0.199 | 0.356 | 0.890 | 0.989 | 2.415 |
| 9 | 0.705 | 0.147 | 0.089 | 0.071 | 0.125 | 0.145 | 0.179 | 0.199 | 0.390 | 0.824 | 1.112 | 1.950 |
| 10 | 0.650 | 0.132 | 0.131 | 0.071 | 0.100 | 0.145 | 0.325 | 0.199 | 0.465 | 0.824 | 1.248 | 1.749 |
| 11 | 0.599 | 0.132 | 0.138 | 0.076 | 0.122 | 0.115 | 0.220 | 0.199 | 0.507 | 0.763 | 1.399 | 1.565 |
| 12 | 0.650 | 0.118 | 0.108 | 0.081 | 0.109 | 0.115 | 0.199 | 0.199 | 0.507 | 0.705 | 1.565 | 1.399 |
| 13 | 0.551 | 0.118 | 0.108 | 0.067 | 0.109 | 0.115 | 0.199 | 0.199 | 0.878 | 0.650 | 1.749 | 1.248 |
| 14 | 0.551 | 0.118 | 0.105 | 0.063 | 0.097 | 0.103 | 0.179 | 0.199 | 0.878 | 0.650 | 2.415 | 1.112 |
| 15 | 0.465 | 0.118 | 0.089 | 0.063 | 0.086 | 0.115 | 0.179 | 0.179 | 0.705 | 0.599 | 2.682 | 0.989 |
| 16 | 0.625 | 0.113 | 0.089 | 0.059 | 0.081 | 0.145 | 0.179 | 0.179 | 0.599 | 0.551 | 2.682 | 0.824 |
| 17 | 0.607 | 0.100 | 0.082 | 0.079 | 0.081 | 0.129 | 0.179 | 0.179 | 0.551 | 0.551 | 2.172 | 0.763 |
| 18 | 0.559 | 0.087 | 0.082 | 0.085 | 0.077 | 0.129 | 0.356 | 0.179 | 0.465 | 0.551 | 1.950 | 0.763 |
| 19 | 0.515 | 0.087 | 0.075 | 0.089 | 0.081 | 0.129 | 0.426 | 0.199 | 0.465 | 0.551 | 1.950 | 0.599 |
| 20 | 0.473 | 0.081 | 0.072 | 0.087 | 0.076 | 0.129 | 0.356 | 0.220 | 0.507 | 0.824 | 1.950 | 0.551 |
| 21 | 0.410 | 0.077 | 0.066 | 0.077 | 0.072 | 0.129 | 0.295 | 0.199 | 0.551 | 0.960 | 2.172 | 0.551 |
| 22 | 0.354 | 0.077 | 0.069 | 0.077 | 0.086 | 0.112 | 0.295 | 0.199 | 0.551 | 0.824 | 2.415 | 0.551 |
| 23 | 0.335 | 0.077 | 0.064 | 0.073 | 0.086 | 1.248 | 0.243 | 0.268 | 0.551 | 0.763 | 2.682 | 0.507 |
| 24 | 0.343 | 0.073 | 0.066 | 0.068 | 0.081 | 0.599 | 0.243 | 1.112 | 0.551 | 0.705 | 3.294 | 0.465 |
| 25 | 0.294 | 0.075 | 0.061 | 0.068 | 0.081 | 0.426 | 0.243 | 0.705 | 0.507 | 0.705 | 4.024 | 0.426 |
| 26 | 0.252 | 0.079 | 0.110 | 0.072 | 0.081 | 0.356 | 0.243 | 0.551 | 0.599 | 0.705 | 3.294 | 0.465 |
| 27 | 0.237 | 0.079 | 0.079 | 0.079 | 0.081 | 0.295 | 0.199 | 0.507 | 0.763 | 0.705 | 2.682 | 0.390 |
| 28 | 0.215 | 0.073 | 0.063 | 0.109 | 0.081 | 0.268 | 0.199 | 0.426 | 0.650 | 0.763 | 2.172 | 0.426 |
| 29 | 0.202 | 0.127 | 0.089 | 0.103 | 0.081 | 0.243 | 0.199 | 0.390 | 0.650 | 0.763 | 1.950 | 0.599 |
| 30 | 0.191 | 0.138 | 0.069 | 0.081 | 0.115 | 0.243 | 0.199 | 0.356 | 0.650 | 0.8 | | |



slika 71



slika 72