

Pearsonova křivka

Naměřená a vypočtená data:

Klatovy			p=100*(m/(n+1))					
poř. č.	roky	úhrn	klesající řada	koef. $k=X_i/X$	k-1	$(k-1)^2$	$(k-1)^3$	pravděpo dobnost
1	1961	580.30	824.70	1.375E+00	3.750E-01	1.406E-01	5.271E-02	3.23
2	1962	509.60	774.90	1.292E+00	2.919E-01	8.522E-02	2.488E-02	6.45
3	1963	492.80	752.90	1.255E+00	2.552E-01	6.515E-02	1.663E-02	9.68
4	1964	570.10	741.00	1.235E+00	2.354E-01	5.542E-02	1.305E-02	12.90
5	1965	741.00	720.40	1.201E+00	2.011E-01	4.043E-02	8.128E-03	16.13
6	1966	752.90	712.90	1.189E+00	1.886E-01	3.555E-02	6.704E-03	19.35
7	1967	598.20	687.30	1.146E+00	1.459E-01	2.128E-02	3.104E-03	22.58
8	1968	596.30	646.30	1.078E+00	7.752E-02	6.009E-03	4.658E-04	25.81
9	1969	552.00	632.50	1.055E+00	5.451E-02	2.972E-03	1.620E-04	29.03
10	1970	632.50	612.00	1.020E+00	2.033E-02	4.135E-04	8.408E-06	32.26
11	1971	528.50	610.70	1.018E+00	1.817E-02	3.300E-04	5.996E-06	35.48
12	1972	503.00	608.00	1.014E+00	1.367E-02	1.867E-04	2.552E-06	38.71
13	1973	456.30	601.50	1.003E+00	2.829E-03	8.002E-06	2.263E-08	41.94
14	1974	646.30	598.20	9.973E-01	-2.673E-03	7.145E-06	-1.910E-08	45.16
15	1975	601.50	596.30	9.942E-01	-5.841E-03	3.411E-05	-1.993E-07	48.39
16	1976	504.90	580.30	9.675E-01	-3.252E-02	1.057E-03	-3.438E-05	51.61
17	1977	712.90	573.20	9.556E-01	-4.435E-02	1.967E-03	-8.725E-05	54.84
18	1978	610.70	571.80	9.533E-01	-4.669E-02	2.180E-03	-1.018E-04	58.06
19	1979	720.40	570.10	9.505E-01	-4.952E-02	2.452E-03	-1.214E-04	61.29
20	1980	573.20	552.00	9.203E-01	-7.970E-02	6.352E-03	-5.062E-04	64.52
21	1981	774.90	550.80	9.183E-01	-8.170E-02	6.675E-03	-5.453E-04	67.74
22	1982	412.20	539.70	8.998E-01	-1.002E-01	1.004E-02	-1.006E-03	70.97
23	1983	529.30	529.30	8.825E-01	-1.175E-01	1.382E-02	-1.624E-03	74.19
24	1984	571.80	528.50	8.811E-01	-1.189E-01	1.413E-02	-1.680E-03	77.42
25	1985	608.00	509.60	8.496E-01	-1.504E-01	2.262E-02	-3.401E-03	80.65
26	1986	824.70	504.90	8.418E-01	-1.582E-01	2.503E-02	-3.961E-03	83.87
27	1987	612.00	503.00	8.386E-01	-1.614E-01	2.605E-02	-4.204E-03	87.10
28	1988	687.30	492.80	8.216E-01	-1.784E-01	3.183E-02	-5.678E-03	90.32
29	1989	550.80	456.30	7.607E-01	-2.393E-01	5.724E-02	-1.369E-02	93.55
30	1990	539.70	412.20	6.872E-01	-3.128E-01	9.783E-02	-3.060E-02	96.77
Suma		17994.1		3.00E+001	2.33E-015	7.73E-001	5.86E-002	1500
Průměr		599.80333						
v		0.1605052						
alfa		0.4724182						

Teoretická data:

	0.1	1	5	10	30	50	70	80	90	95	97	99
E	3.74	2.64	1.76	1.32	0.46	-0.08	-0.58	-0.85	-1.23	-1.52	-1.7	-2.03
E*v	6.00E-01	4.24E-01	2.82E-01	2.12E-01	7.38E-02	-1.28E-02	-9.31E-02	-1.36E-01	-1.97E-01	-2.44E-01	-2.73E-01	-3.26E-01
ki=(E*v)+1	1.60E+00	1.42E+00	1.28E+00	1.21E+00	1.07E+00	9.87E-01	9.07E-01	8.64E-01	8.03E-01	7.56E-01	7.27E-01	6.74E-01
X*ki	9.60E+02	8.54E+02	7.69E+02	7.27E+02	6.44E+02	5.92E+02	5.44E+02	5.18E+02	4.81E+02	4.53E+02	4.36E+02	4.04E+02

Porovnání obou metod v grafu:

