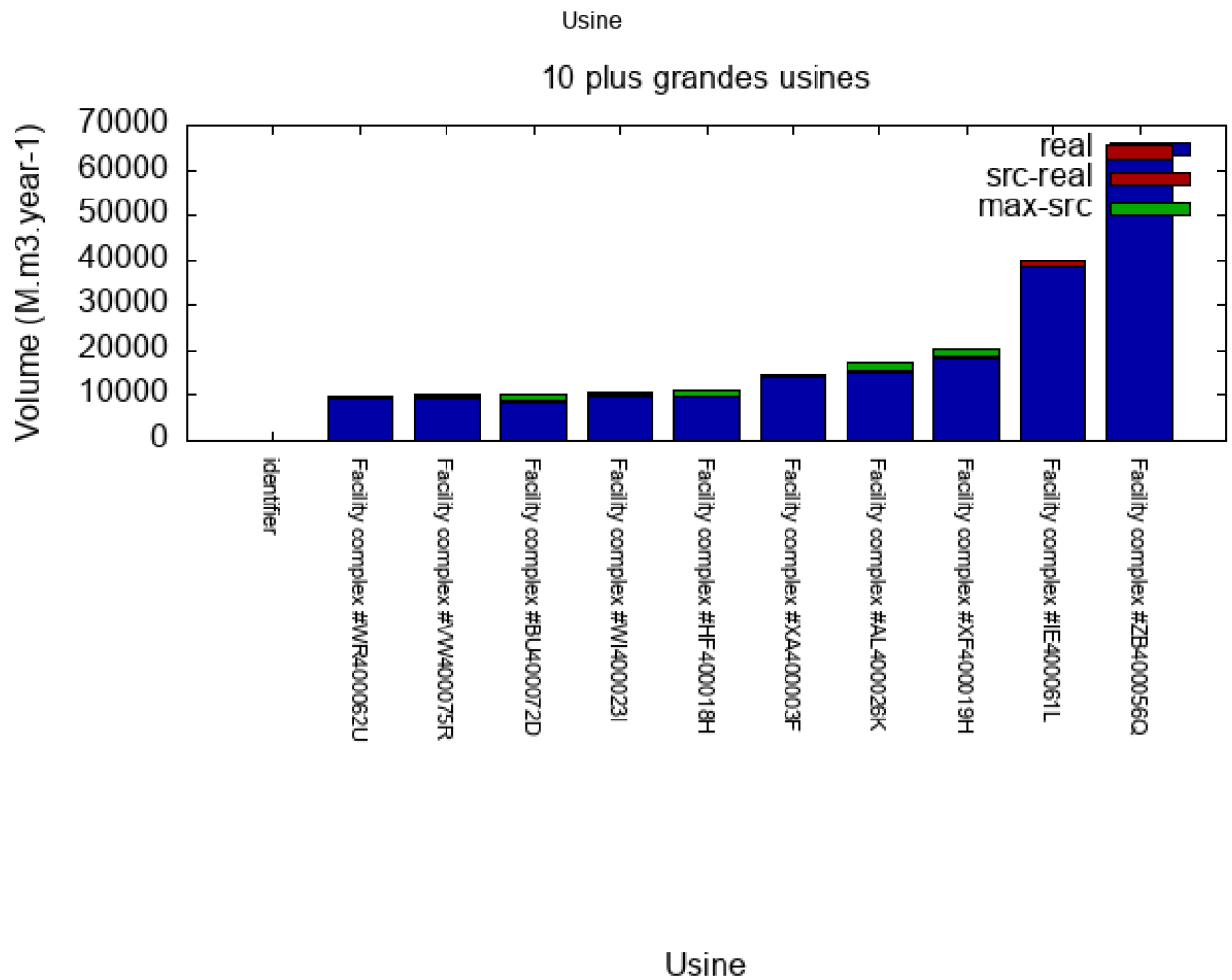
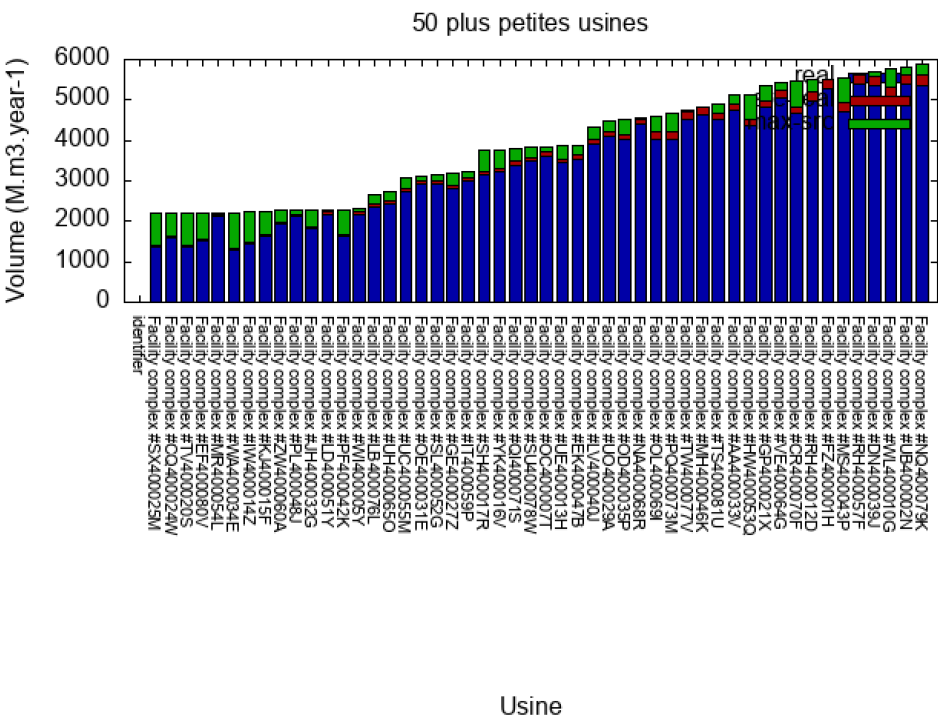


Test :



L'histogramme cumulé regroupe simultanément les valeurs sources, maximales et réelles, offrant une vision comparative complète du réseau. Cette représentation permet d'analyser les écarts entre les différentes capacités pour une même installation et de mieux comprendre les relations entre potentiel, disponibilité et usage réel. Elle constitue un outil synthétique permettant d'identifier rapidement les incohérences, les marges de progression possibles et les zones où les pertes sont les plus significatives.

	≡ vol_all.dat ×
Users > abbadì > Documents > Info3 > ≡ vol_all.dat	
1	identifìer;max volume (M.m3.year-1);source volume (M.m3.year-1);real volume (M.m3.year-1)
2	Facility complex #ZW400060A;2267.838000;1981.105000;1938.301582
3	Facility complex #ZT400008G;7059.824000;6247.853000;5994.601965
4	Facility complex #ZB400056Q;65661.934000;65661.933000;62530.447006
5	Facility complex #YK400016V;3772.751000;3311.008000;3234.304797
6	Facility complex #YF400058I;6421.031000;5771.691000;5553.721995
7	Facility complex #XF400019H;20410.841000;18775.731000;17983.990163
8	Facility complex #XA400003F;14823.268000;14706.833000;14088.844118
9	Facility complex #WV400000Y;6755.845000;6306.826000;6072.602549
10	Facility complex #WR400062U;9527.415000;9514.949000;9223.321753
11	Facility complex #WL400010G;5753.270000;5330.754000;5098.431448
12	Facility complex #WI400023I;10520.126000;9989.061000;9583.608423
13	Facility complex #WI400005Y;2309.692000;2234.670000;2174.051920
14	Facility complex #WA400034E;2217.356000;1335.345000;1303.088236
15	Facility complex #VW400075R;9989.859000;9797.947000;9464.429120
16	Facility complex #VW400006S;6884.457000;6215.412000;5951.427510
17	Facility complex #VE400064G;5438.857000;5259.129000;5062.677939
18	Facility complex #VA400041C;6784.970000;5841.622000;5640.170754
19	Facility complex #U0400029A;4482.156000;4223.540000;4107.803239
20	Facility complex #UH4000650;2719.034000;2503.212000;2423.897666
21	Facility complex #UE400013H;3859.311000;3535.256000;3453.762830
22	Facility complex #UC400055M;3061.112000;2819.868000;2747.588120
23	Facility complex #UB400002N;5797.490000;5608.261000;5377.544738
24	Facility complex #TW400077V;4749.292000;4702.923000;4512.189962
25	Facility complex #TV400020S;2194.993000;1410.234000;1377.022391
26	Facility complex #TS400081U;4892.763000;4687.169000;4519.646399
27	Facility complex #SX400025M;2191.567000;1414.396000;1371.759646
28	Facility complex #SU400078W;3821.108000;3584.569000;3480.814058
29	Facility complex #SL400052G;3166.292000;2998.888000;2932.053937
30	Facility complex #SH400017R;3758.365000;3245.037000;3156.015234
31	Facility complex #RH400057F;5641.685000;5603.737000;5410.038384
32	Facility complex #RH400012D;5500.428000;5188.631000;4967.677026
33	Facility complex #QW400074Q;5971.722000;5350.480000;5152.334761
34	Facility complex #QI400071S;3807.244000;3485.007000;3386.194192
35	Facility complex #PQ400073M;4664.236000;4232.959000;4027.162332
36	Facility complex #PL400048J;2271.874000;2179.951000;2130.514320
37	Facility complex #PF400042K;2292.290000;1678.970000;1638.256702
38	Facility complex #OL400069I;4595.667000;4210.862000;4028.398959

	≡ vol_all.dat	≡ vol_all_low.dat ×
Users > abbadi > Documents > Info3 > ≡ vol_all_low.dat		
1	identifiant;max volume (M.m3.year-1);source volume (M.m3.year-1);real volume (M.m3.year-1)	
2	Facility complex #SX400025M;2191.567000;1414.396000;1371.759646	
3	Facility complex #CQ400024W;2192.203000;1621.794000;1583.063423	
4	Facility complex #TV400020S;2194.993000;1410.234000;1377.022391	
5	Facility complex #EF400080V;2210.524000;1570.431000;1531.496544	
6	Facility complex #MR400054L;2214.734000;2179.125000;2125.531337	
7	Facility complex #WA400034E;2217.356000;1335.345000;1303.088236	
8	Facility complex #IW400014Z;2225.904000;1490.480000;1456.120631	
9	Facility complex #KJ400015F;2236.590000;1675.720000;1636.403824	
10	Facility complex #ZW400060A;2267.838000;1981.105000;1938.301582	
11	Facility complex #PL400048J;2271.874000;2179.951000;2130.514320	
12	Facility complex #JH400032G;2279.872000;1854.083000;1803.932407	
13	Facility complex #LD400051Y;2286.709000;2226.828000;2171.786317	
14	Facility complex #PF400042K;2292.290000;1678.970000;1638.256702	
15	Facility complex #WI400005Y;2309.692000;2234.670000;2174.051920	
16	Facility complex #LB400076L;2653.629000;2422.236000;2366.095340	
17	Facility complex #UH4000650;2719.034000;2503.212000;2423.897666	
18	Facility complex #UC400055M;3061.112000;2819.868000;2747.588120	
19	Facility complex #OE400031E;3118.843000;3017.422000;2938.197140	
20	Facility complex #SL400052G;3166.292000;2998.888000;2932.053937	
21	Facility complex #GE400027Z;3179.754000;2896.232000;2819.810404	
22	Facility complex #IT400059P;3239.505000;3061.574000;2982.949342	
23	Facility complex #SH400017R;3758.365000;3245.037000;3156.015234	
24	Facility complex #YK400016V;3772.751000;3311.008000;3234.304797	
25	Facility complex #QI400071S;3807.244000;3485.007000;3386.194192	
26	Facility complex #SU400078W;3821.108000;3584.569000;3480.814058	
27	Facility complex #OC400007T;3829.177000;3709.983000;3613.337140	
28	Facility complex #UE400013H;3859.311000;3535.256000;3453.762830	
29	Facility complex #EK400047B;3862.253000;3645.820000;3546.033437	
30	Facility complex #LV400040J;4339.889000;4014.091000;3918.947030	
31	Facility complex #UO400029A;4482.156000;4223.540000;4107.803239	
32	Facility complex #OD400035P;4534.466000;4149.863000;4040.790096	
33	Facility complex #NA400068R;4567.113000;4535.401000;4423.183153	
34	Facility complex #OL400069I;4595.667000;4210.862000;4028.398959	
35	Facility complex #PQ400073M;4664.236000;4232.959000;4027.162332	
36	Facility complex #Tw400077V;4749.292000;4702.923000;4512.189962	
37	Facility complex #MH400046K;4824.634000;4820.631000;4628.733750	

Le fichier de données au format .dat constitue la base d'entrée du programme. Il contient l'ensemble des informations décrivant le réseau de distribution d'eau, notamment les identifiants des installations, les capacités sources, maximales et réelles, ainsi que les liaisons entre les différents tronçons. Ce format permet un traitement efficace de données volumineuses, comprenant plusieurs millions de lignes, sans surcharge mémoire excessive. Le programme lit et interprète ce fichier ligne par ligne afin d'extraire les informations nécessaires aux calculs et aux analyses. La fiabilité des résultats obtenus dépend directement de la cohérence et de la structure de ce fichier, qui sert de référence unique pour la génération des histogrammes et la détection des fuites.