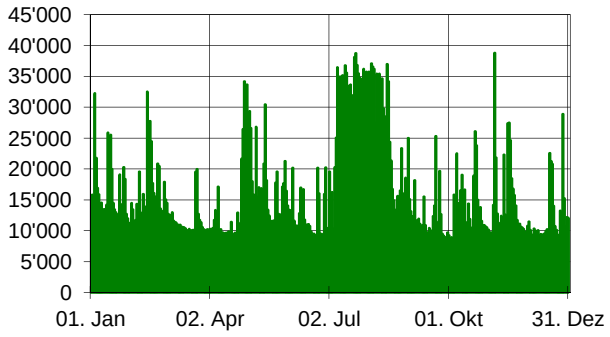
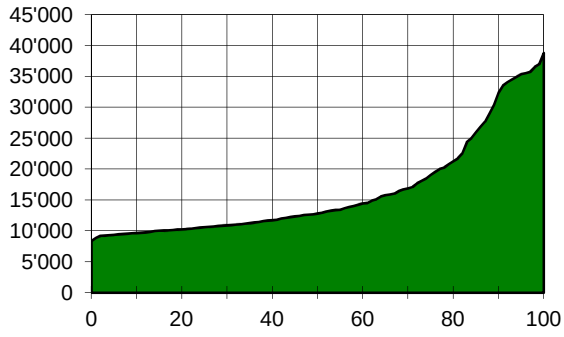
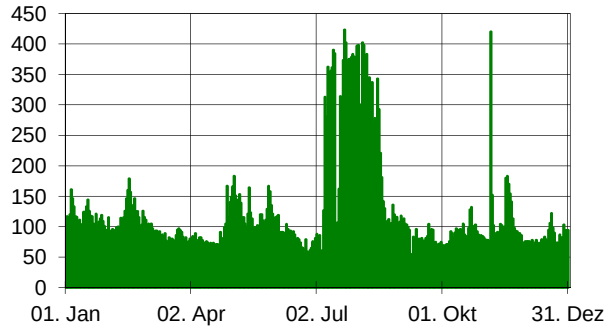
Tagestotal Q bio
m3 / Tag



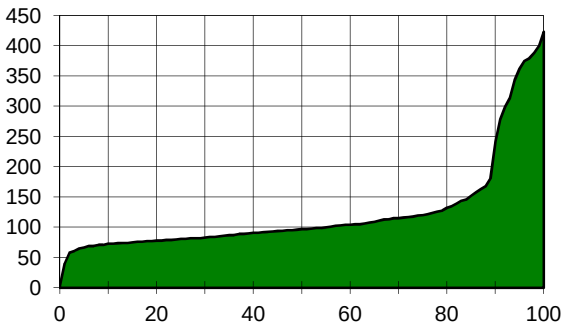
Tagestotal Q bio
m3 / Tag



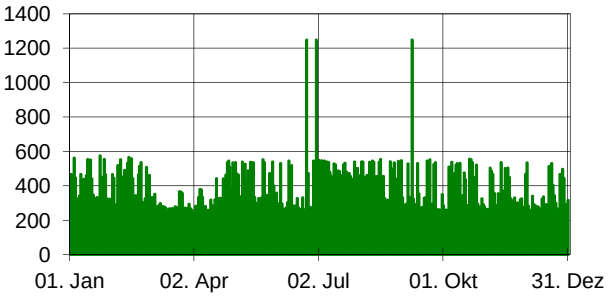
Tagesminimum Q min
l / s



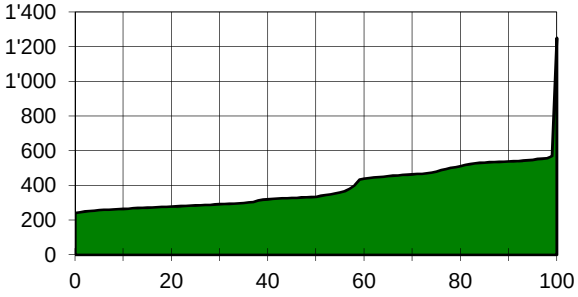
Tagesminimum Q min
l / s



Tagesmaximum Q max
l / s



Tagesmaximum Q max
l / s



	Q bio m3 / Tag	Q min l / s	Q max l / s
Mittelwert	16'327		
20%-Wert	10'262	78	278
50%-Wert	12'808	97	334
80%-Wert	21'262	132	512
Q tw 1)	11'535	88	306
2 Q tw			612

1) Mittel aus 20% und 50%-Wert

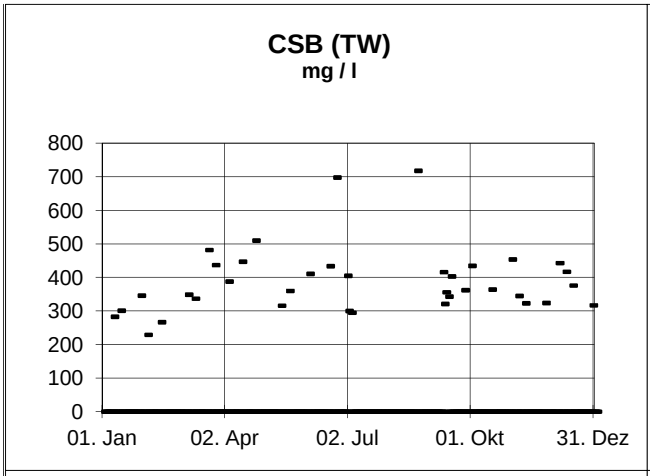
Fremdwasseranteil	***32*** **%**

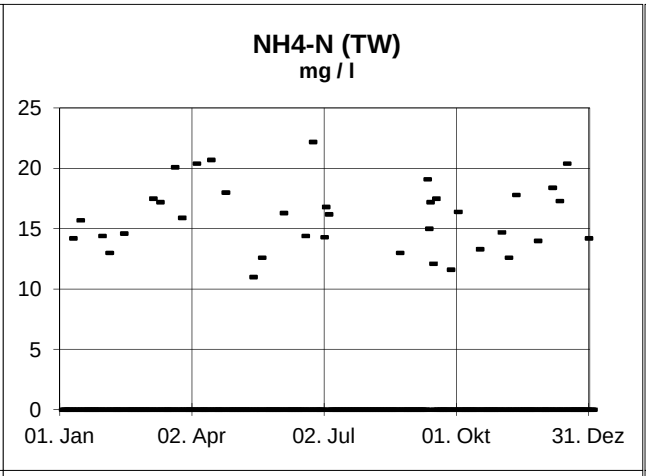
siehe Seite 2

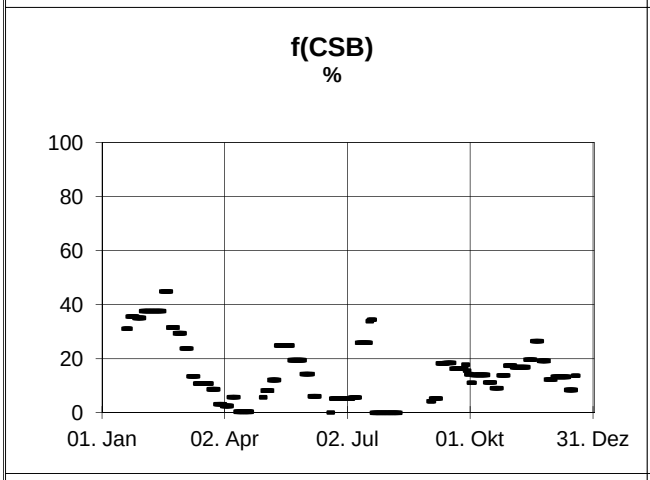
	Tagesmittelwerte m3 / d	l / s
Q tw	11'535	134
O fremd [2)]	3'661	42
O schmutz [3)]	7'874	91

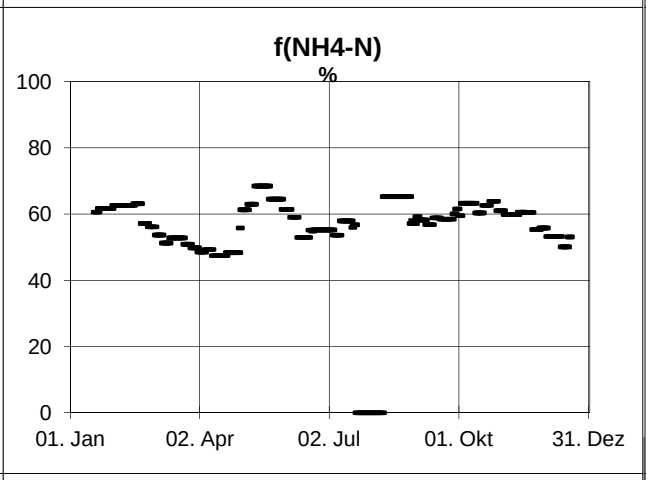
2) = O tw * Fremdwasseranteil / 100

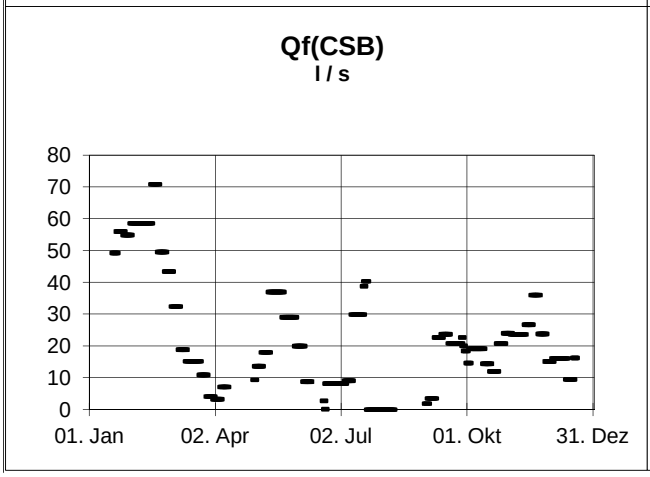
3) = O tw - O fremd

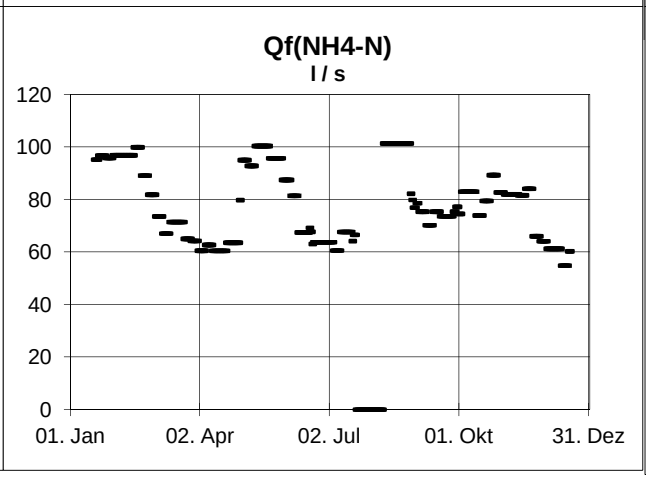












Vorgaben:

Q schmutz	200	l/EW*Tag
CSB	90	g/EW*Tag
NH4-N	7.5	g/EW*Tag
K soll (CSB)	450	mg / l
K soll (NH4-N)	37.5	mg / l

K soll: erwartete Konzentration im Zulauf, wenn nur Schmutzwasser zuläuft!

Schätzung aus EW biochemisch

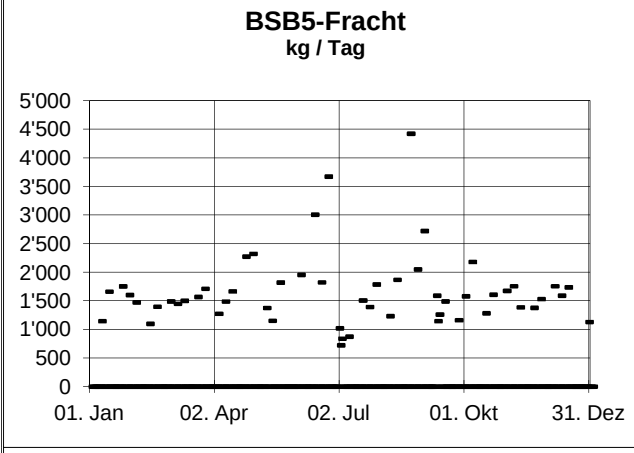
Q tw	11'535	m3 / Tag
Q schmutz (EW) [1)]	8'800	m3 / Tag
Q fremd (EW)	2'735	m3 / Tag
f (EW)	24	%

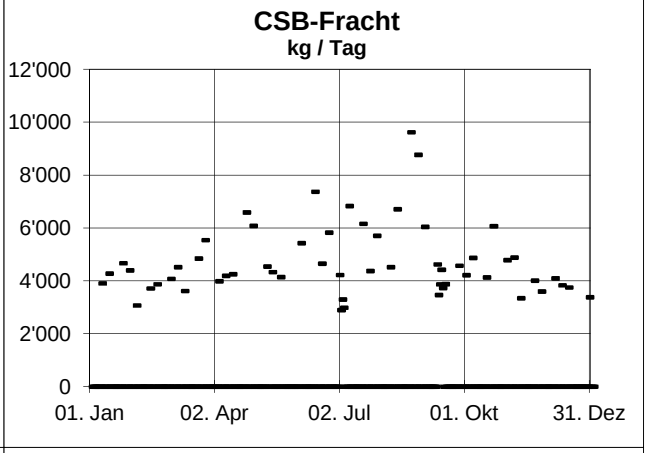
[1)] 200 l / EW * Tag

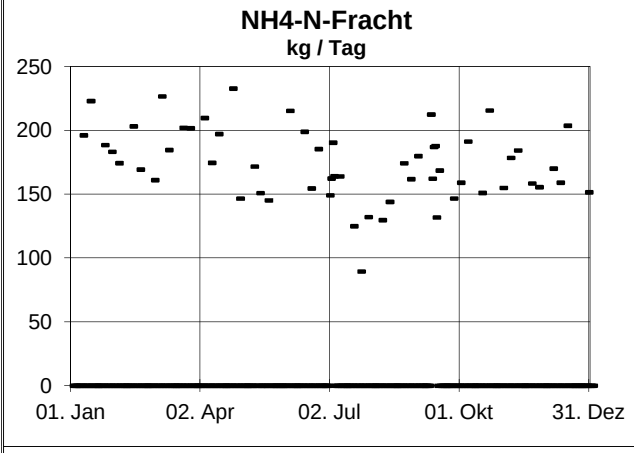
Schätzung aus den Zulaufkonzentrationen:

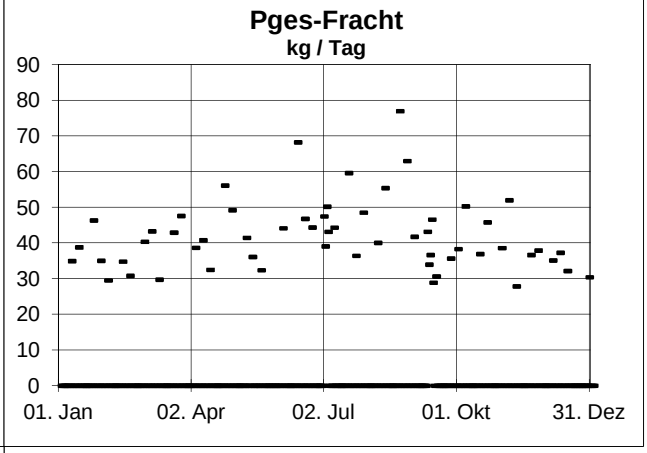
f(CSB)	Jahresmittel	14	%
f(NH4-N)	Jahresmittel	57	%

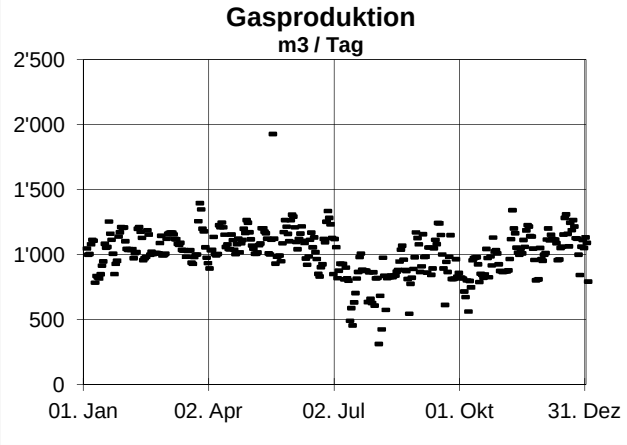
f Mittelwert	32	%
f gewählt	***32***	%











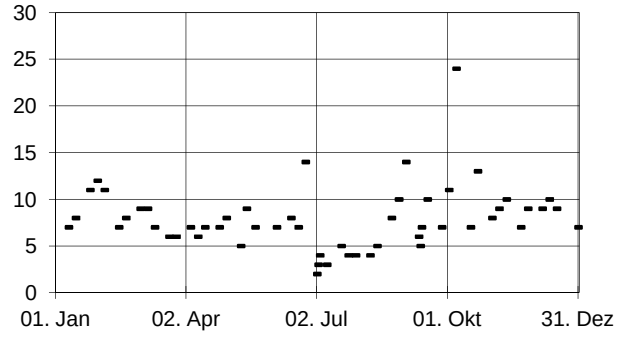
EZ angeschlossen	***18'500***
EW biochem. gewählt	*44'000*
EW biochem. 80%-Wert	*52'000*
EW Stickstoff	*23'000*
EW Phosphor	*26'000*

Zulauffrachten	**BSB5 kg/Tag**	**CSB kg/Tag**	**NH4-N kg/Tag**	**Pges kg/Tag**	**Gasp. m3/Tag**	**FS kg/Tag**
Mittelwert	1'656	4'696	174	42	1'010	2'711
50%-Wert	1'550	4'334	172	40	1'019	
80%-Wert	1'822	5'676	199	48	1'151	

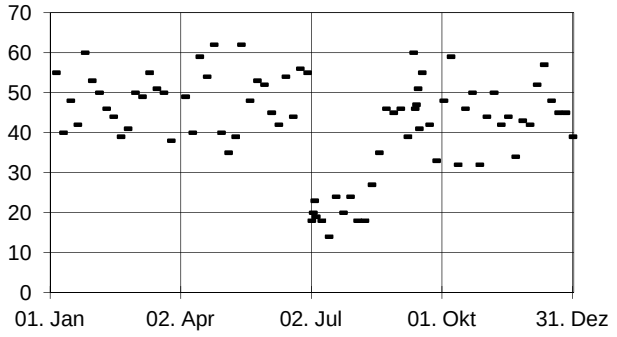
spezifische Belastung pro EW	**g / Tag**	**g / Tag**	**g / Tag**	**g / Tag**	Probenahmeort: **ab VKB**	**l / Tag**	**g / Tag**
	45	**90**	**7.5**	**1.6**		**30**	**85**

Einwohnerwerte	**BSB5 EW**	**CSB EW**	**NH4-N EW**	**Pges EW**	**Mittelwerte EW**	**Gasp. EW**	**FS EW**
Mittelwert	36'791	52'179	23'137	26'146	34'563	33'669	31'898
50%-Wert	34'450	48'158	22'887	25'017	32'628	33'967	
80%-Wert	40'480	63'071	26'481	29'713	39'936	38'373	

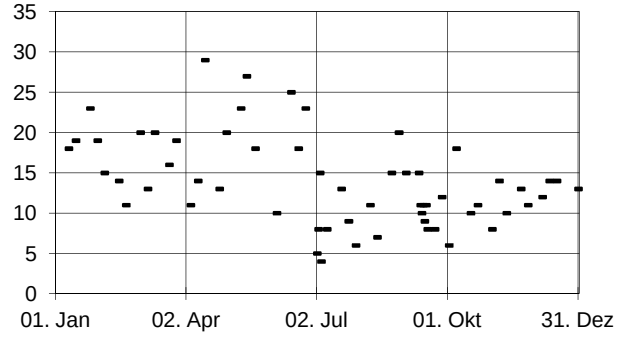
BSB5
mg / l



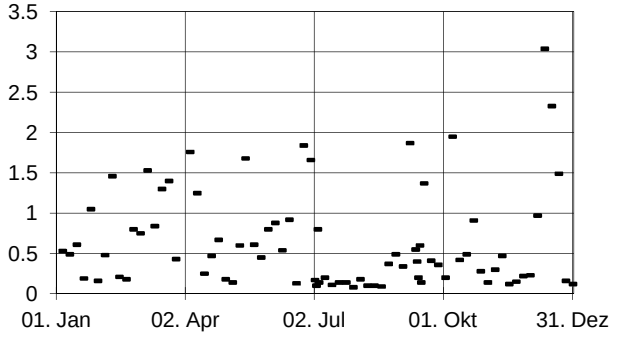
CSB
mg / l



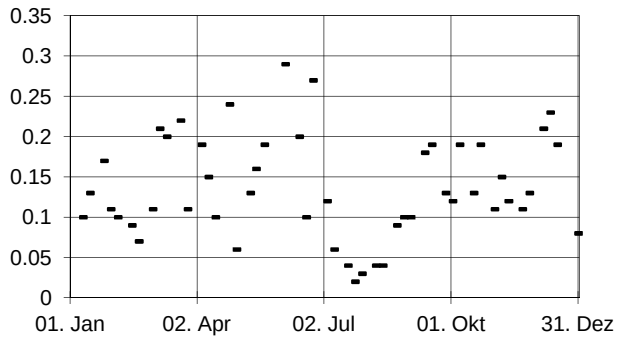
GUS
mg / l



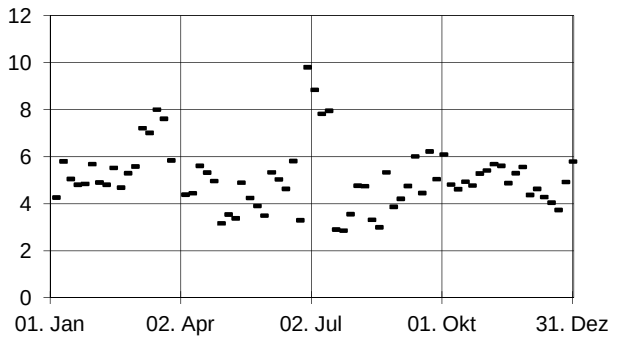
NH4-N
mg / l



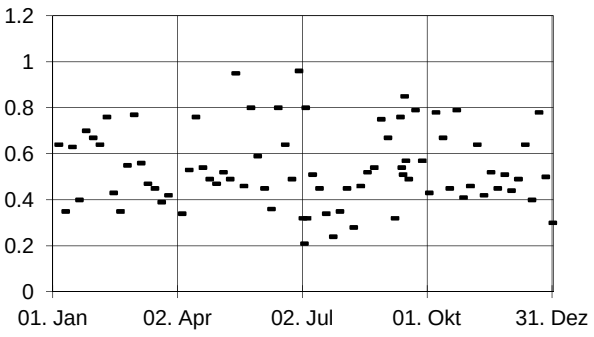
NO2-N
mg / l



NO3-N
mg / l



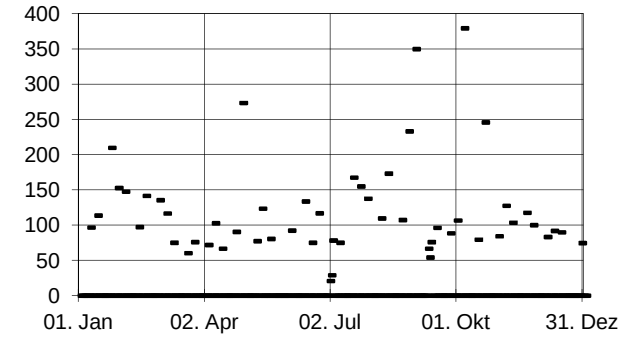
P ges
mg / l



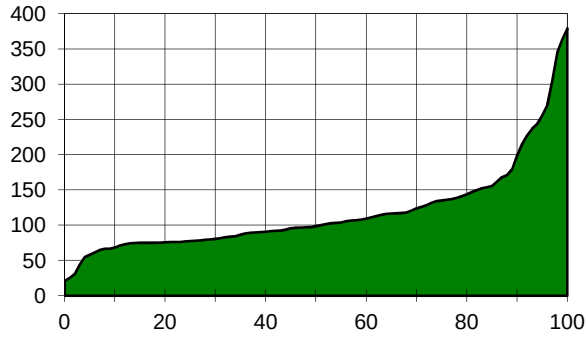
Angaben in mg/l	Mittel-wert	90%-Wert	Grenz-wert [1)]
BSB5	7.9	11.0	15
CSB	42.8	55.2	
GUS	13.9	20.6	15
NH4-N	0.6	1.6	2
NO2-N	0.1	0.2	0.3
NO3-N	5.1	6.9	
P ges	0.54	0.78	0.8

[1)] nach GSchV vom 28. Oktober 1998
CSB: Richtwert

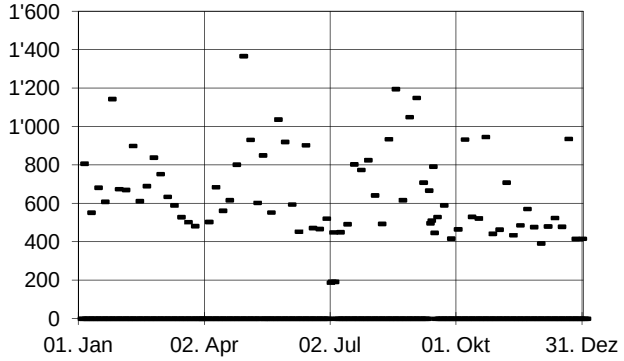
BSB5-Fracht
kg / Tag



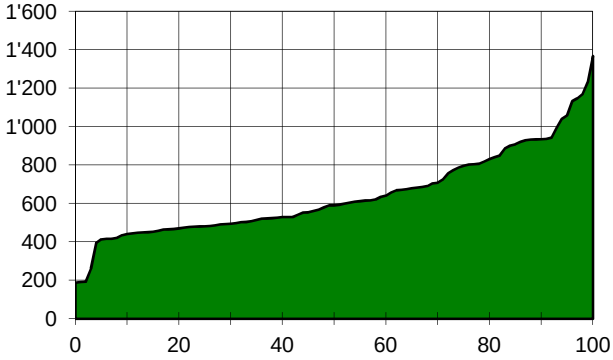
BSB5-Fracht
kg / Tag



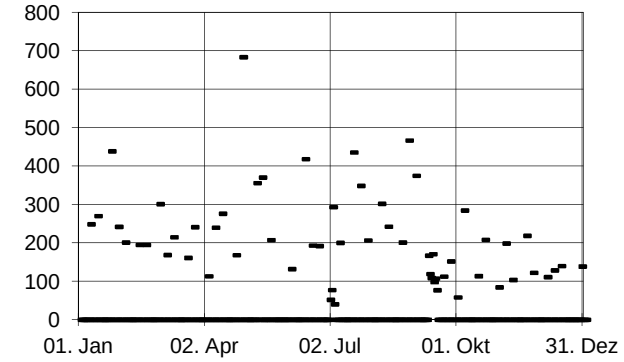
CSB-Fracht
kg / Tag



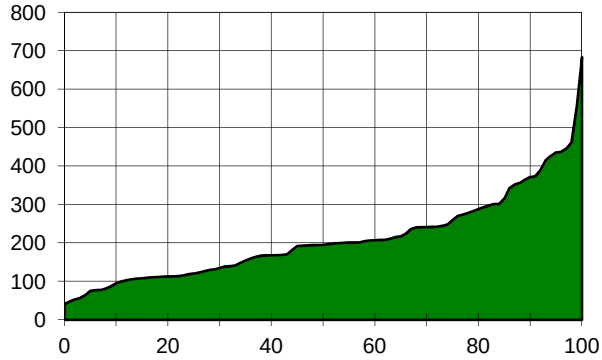
CSB-Fracht
kg / Tag



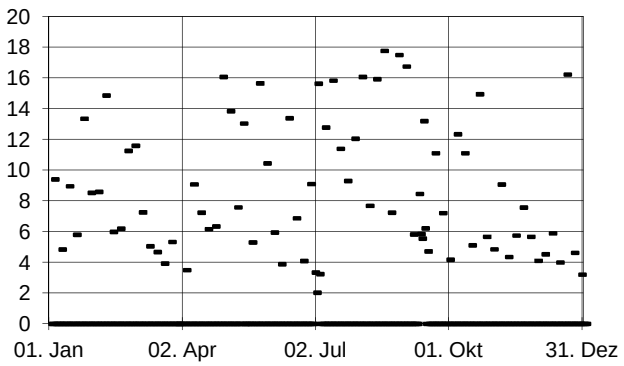
GUS-Fracht
kg / Tag



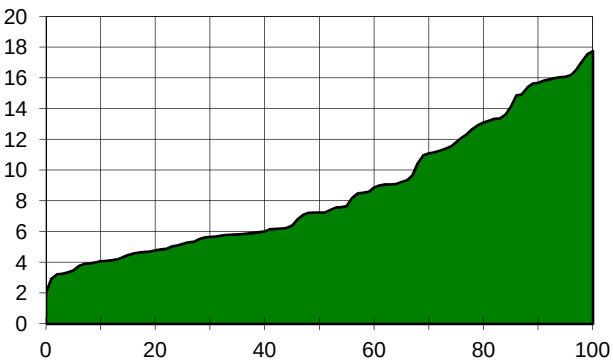
GUS-Fracht
kg / Tag

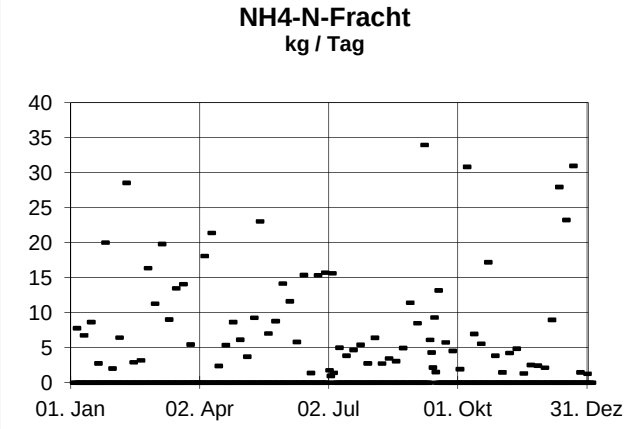


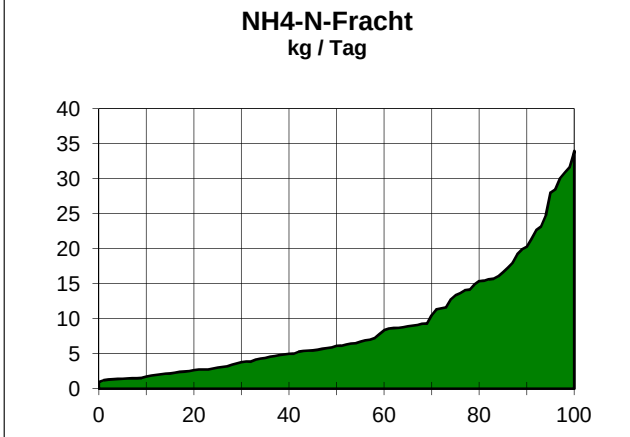
P ges-Fracht
kg / Tag

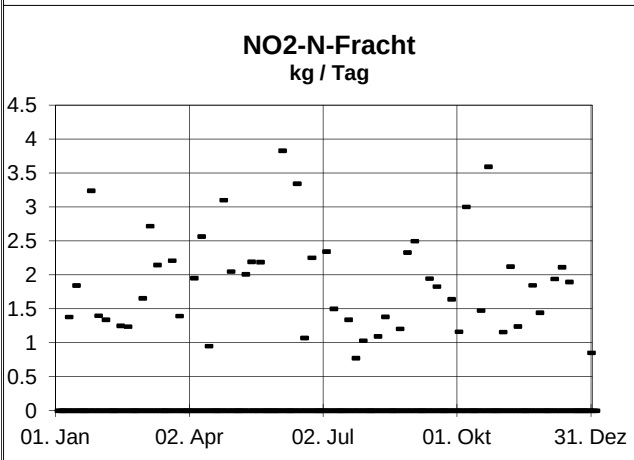


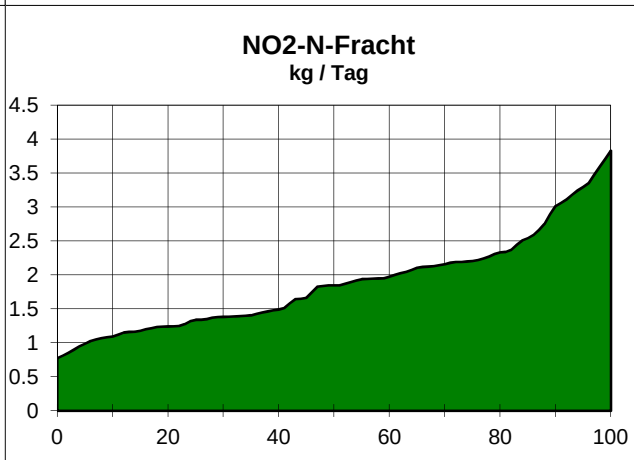
P ges-Fracht
kg / Tag

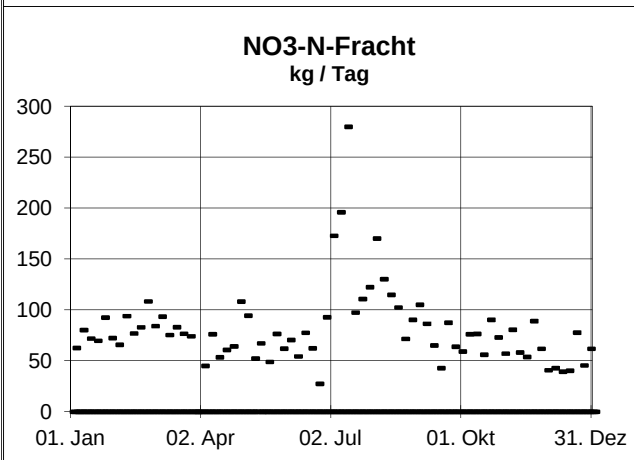


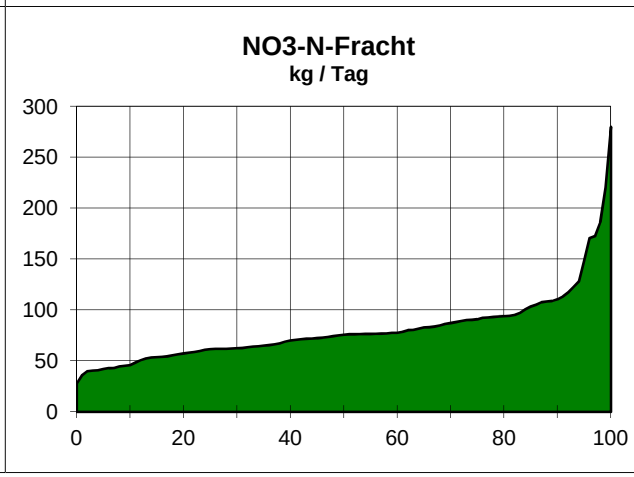










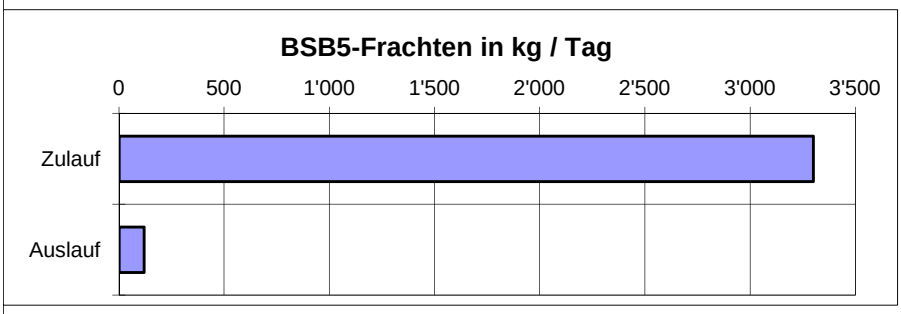


Auslauffrachten:

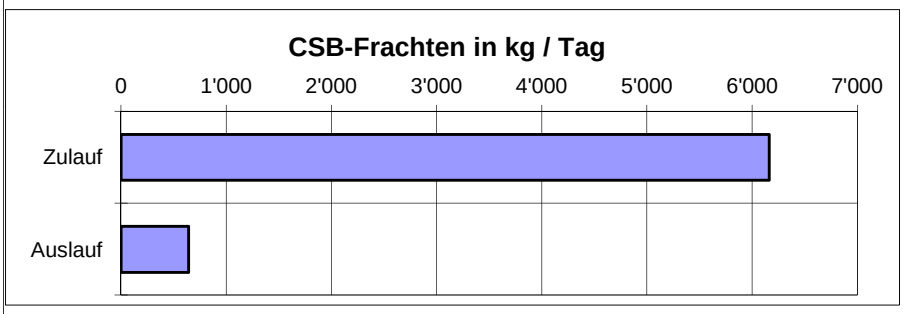
Angaben in kg/Tag	Mittel-wert	50%-Wert	80%-Wert	Mittel 5 - 95 %
BSB5	119	99	144	111
CSB	642	590	831	633
GUS	212	195	288	203
NH4-N	9.0	6.1	15.4	8.2
NO2-N	1.9	1.8	2.3	1.8
NO3-N	81.3	75.8	93.9	76.6
P ges	8.6	7.2	13.1	8.4

Abbauleistungen:

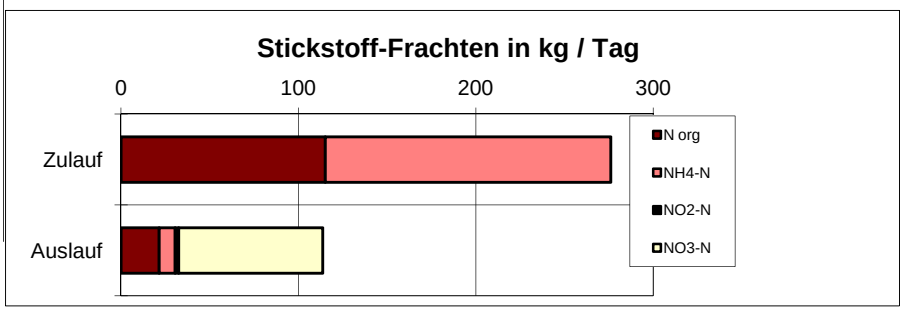
	EW gewählt	Spez. B. g / EW	Zulauf kg / Tag	Auslauf kg / Tag	Abbau %	Nitrifikation %	
BSB5	*44'000*	75	3'300	119	96		
CSB	*44'000*	140	6'160	642	90		
N ges				113.6	59		Auslauf: Summe N im Auslauf
N Kjel	*23'000*	12	276.0	30.5		89	Roh-Zulauf / Auslauf (NH4-N + Norg)
NH4-N		7	161.0	9.0			
NO2-N				1.9			
NO3-N				81.3			
N org		5	115.0	21.4			CSB / 30
Pges	*26'000*	2	52.0	8.6	83		



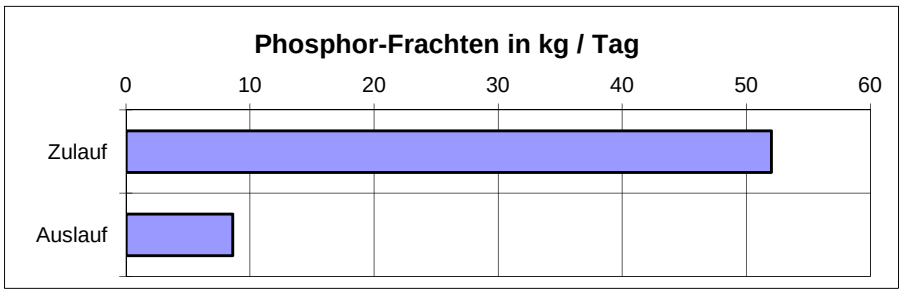
BSB5- Abbau	
3'181	kg / Tag
96	%
85	%



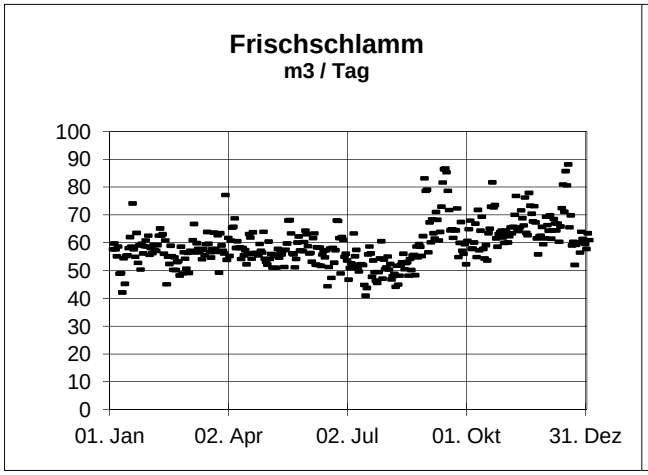
CSB-Abbau	
5'518	kg / Tag
90	%
0	%

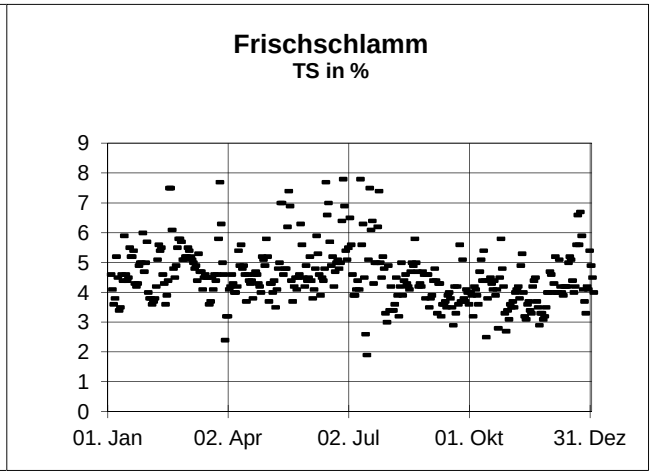


N-Elimination	
162	kg / Tag
59	%
30	%
Nitrifikation	
246	kg / Tag
89	%
90	%



P-Elimination	
43	kg / Tag
83	%
80	%



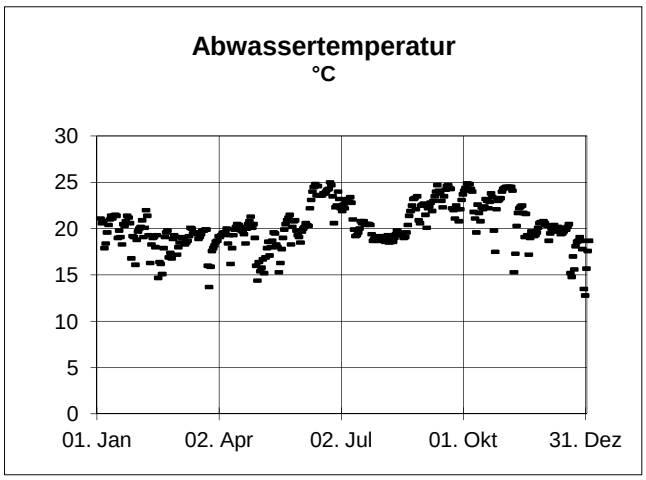


Frischschlammanfall: Mittelwerte

Frischschl. nass	59.5	m3/Tag
TS-Anteil	4.6	%
Frischschl. in TS	2'711	kg/Tag

Jahresanfall

Frischschl. in TS	990	t / Jahr



Abwassertemperatur:

Mittelwert	20.3	°C
20%-Wert	18.7	°C
50%-Wert	20.0	°C
80%-Wert	22.5	°C

Bemerkungen zur Datenauswertung: