

	Q bio m ³ / Tag	Q min l / s	Q max l / s
Mittelwert	14'868		
20%-Wert	9'556	71	222
50%-Wert	10'994	84	256
80%-Wert	19'206	148	454
Q tw 1)	10'275	77	239
2 Q tw			477

1) Mittel aus 20% und 50%-Wert

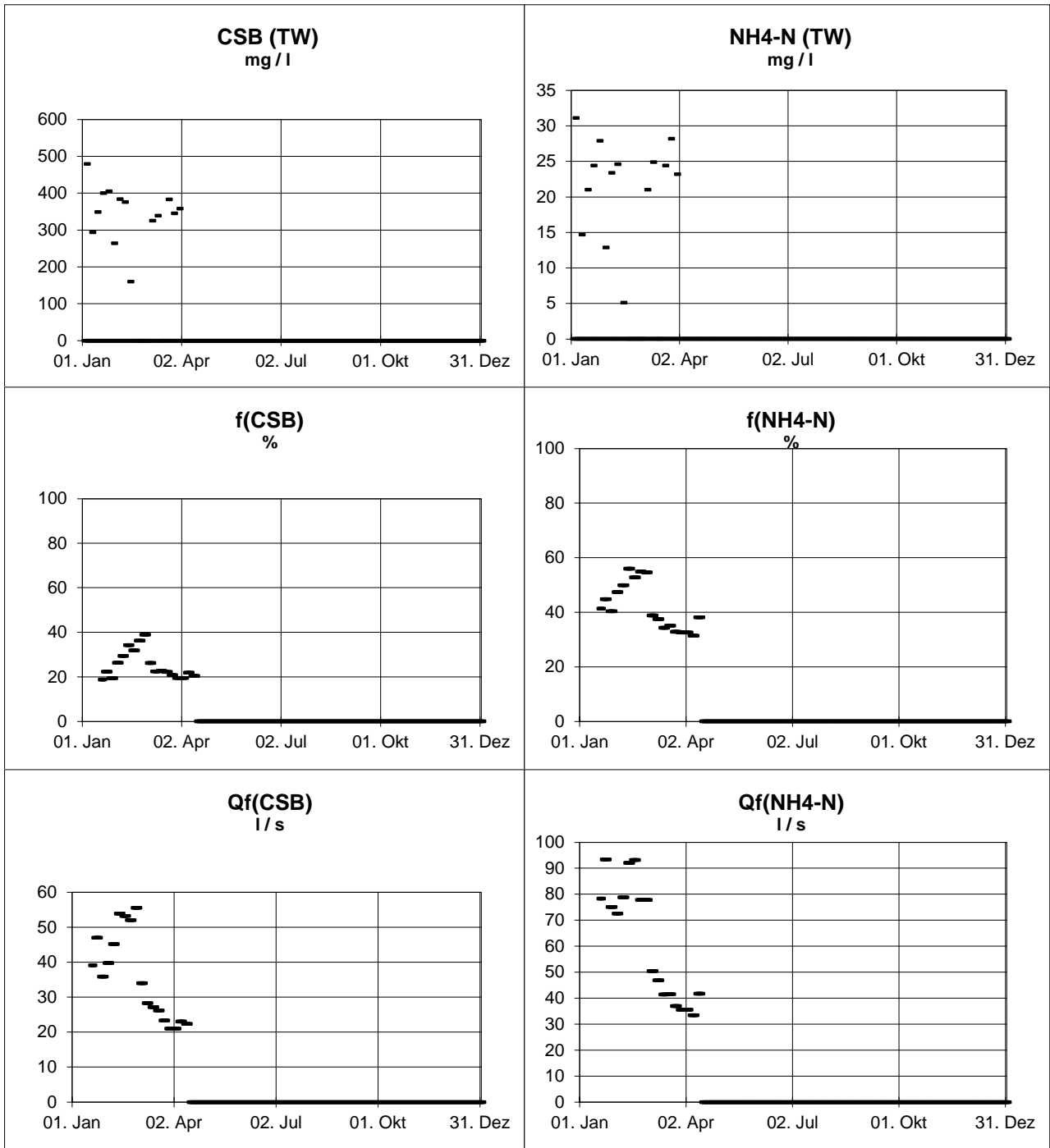
Fremdwasseranteil 23 %

siehe Seite 2

	Tagesmittelwerte	
	m³ / d	l / s
Q tw	10'275	119
Q fremd ²⁾	2'364	27
Q schmutz ³⁾	7'911	92

²⁾ = Q tw * Fremdwasseranteil / 100

³⁾ = Q tw - Q 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

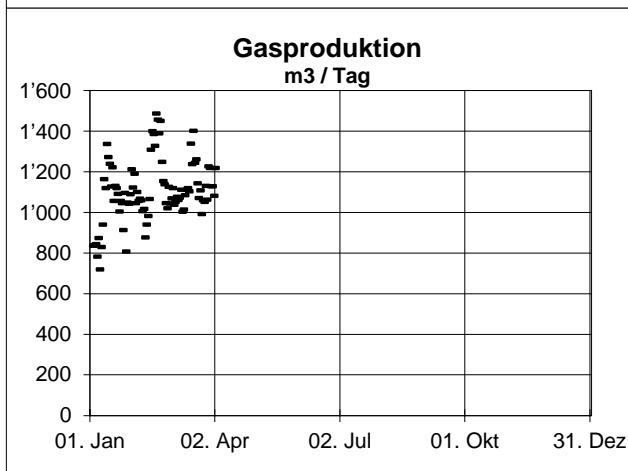
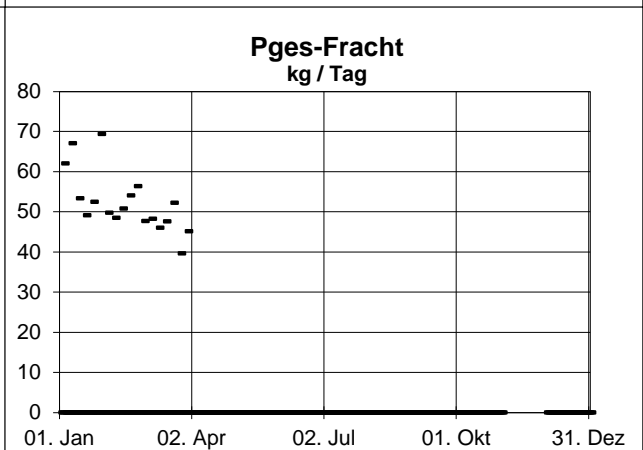
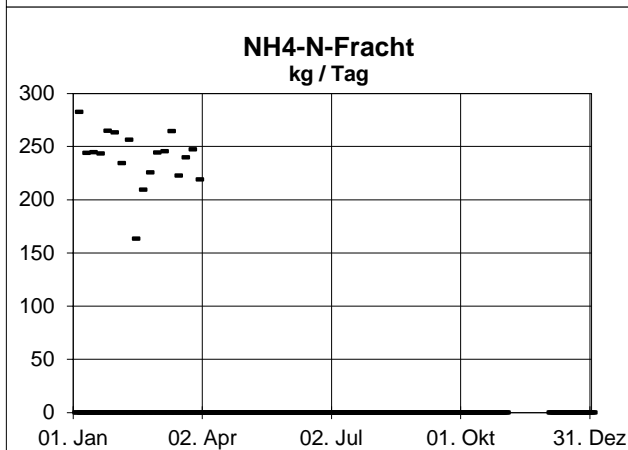
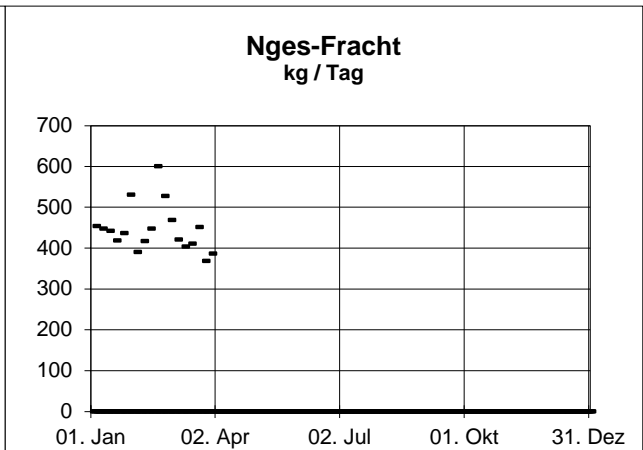
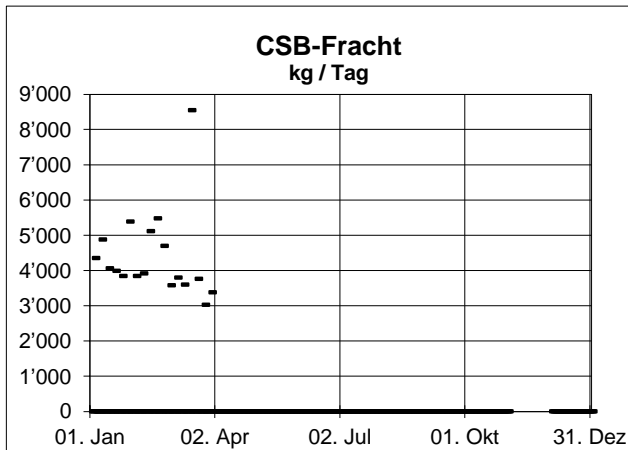
Q tw	10'275 m3 / Tag
Q schmutz (EW) ¹⁾	9'800 m3 / Tag
Q fremd (EW)	475 m3 / Tag
f (EW)	5 %

¹⁾ 200 l / EW * Tag

Schätzung aus den Zulaufkonzentrationen:

f(CSB) Jahresmittel	23 %
f(NH4-N) Jahresmittel	42 %

f Mittelwert	23 %
f gewählt	23 %

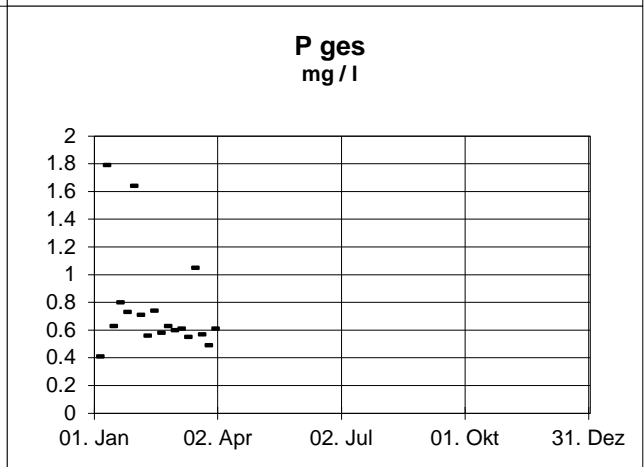
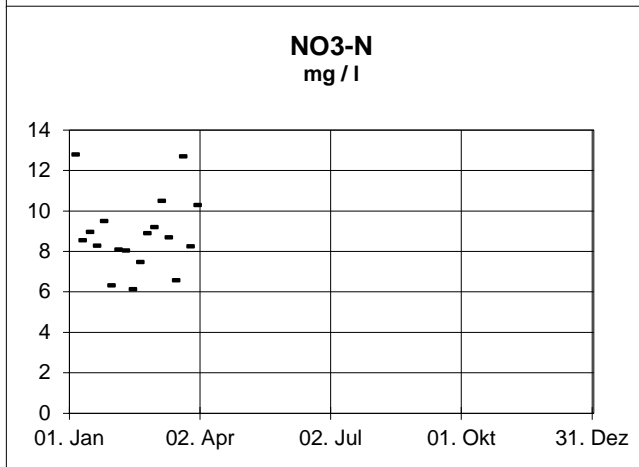
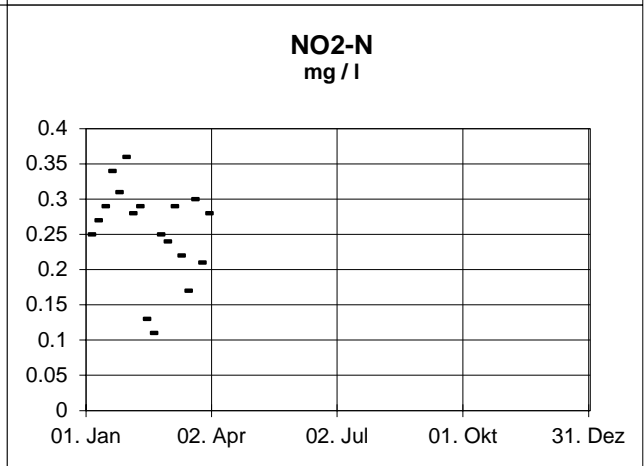
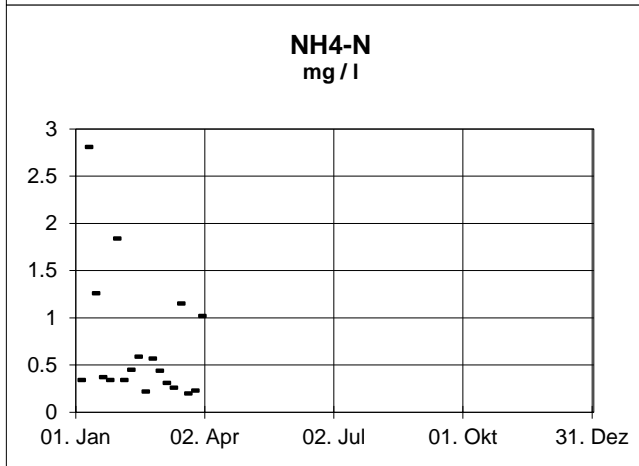
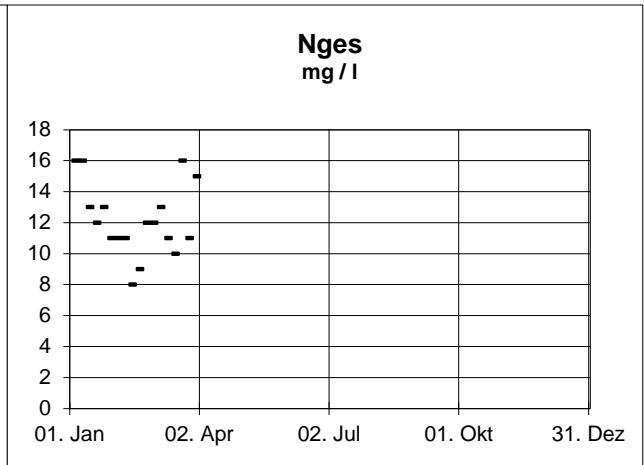
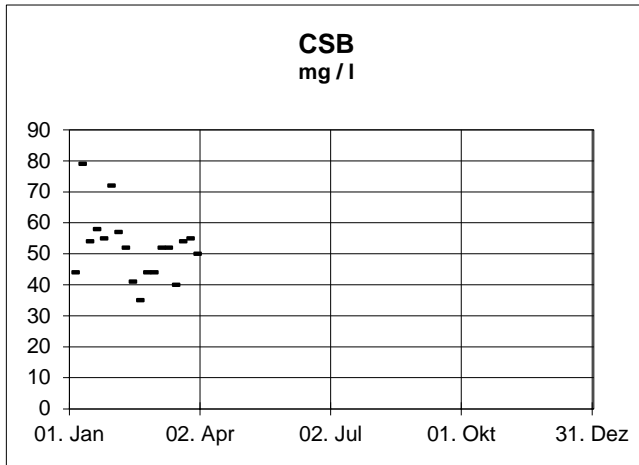


EZ angeschlossen	22'236
EW biochem. gewählt	49'000
EW biochem. 80%-Wert	56'000
EW Stickstoff	32'000
EW Phosphor	33'000

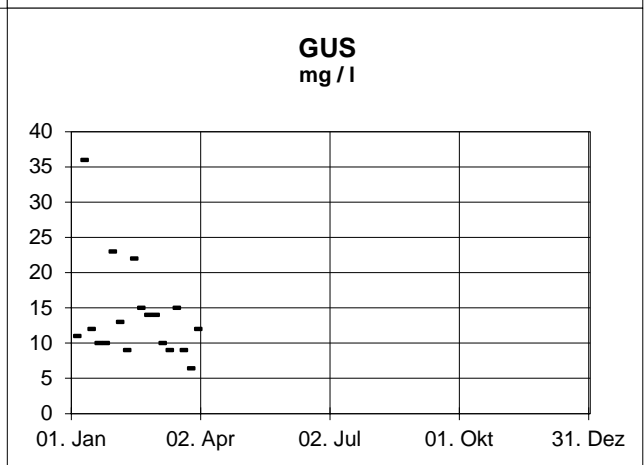
Zulauffrachten	BSB5 kg/Tag	CSB kg/Tag	NH4-N kg/Tag	Pges kg/Tag	Gasp. m3/Tag	FS kg/Tag
Mittelwert		4'405	240	52	1'106	3'043
50%-Wert		3'955	244	50	1'091	
80%-Wert		5'020	260	55	1'222	

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		48'942	31'970	32'631	37'848	36'850	35'801
50%-Wert		43'943	32'565	31'438	35'982	36'350	
80%-Wert		55'780	34'733	34'668	41'727	40'733	

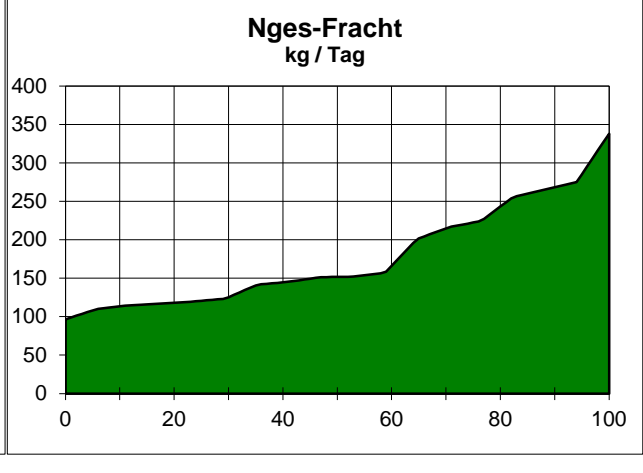
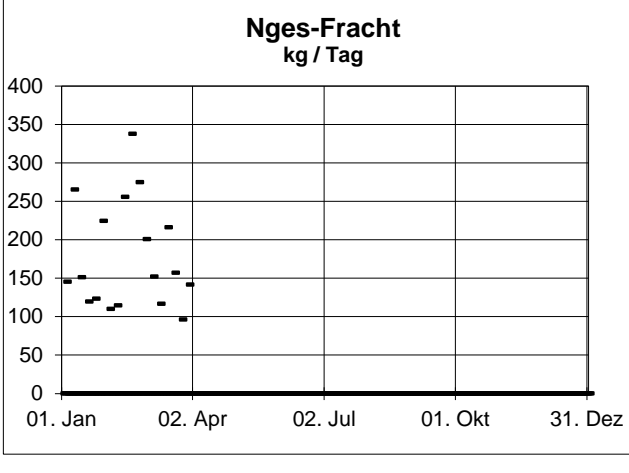
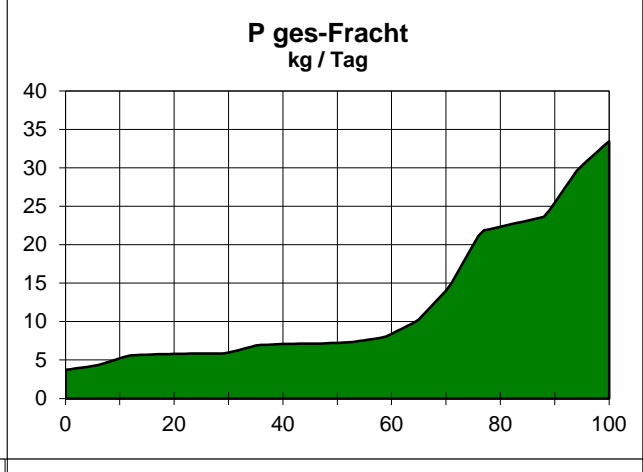
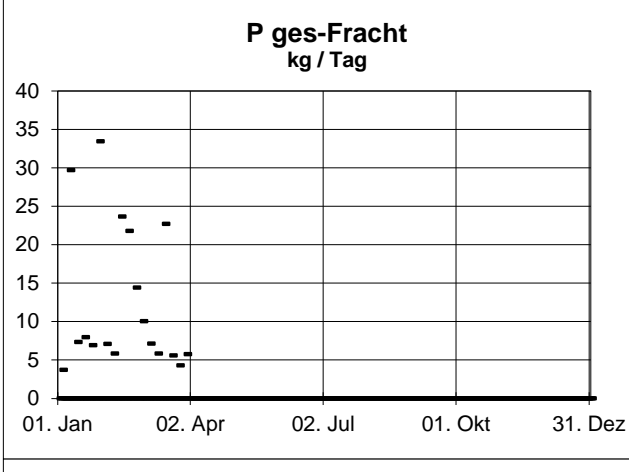
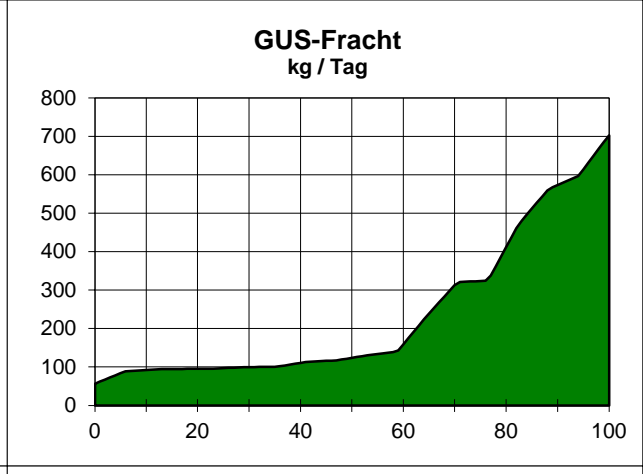
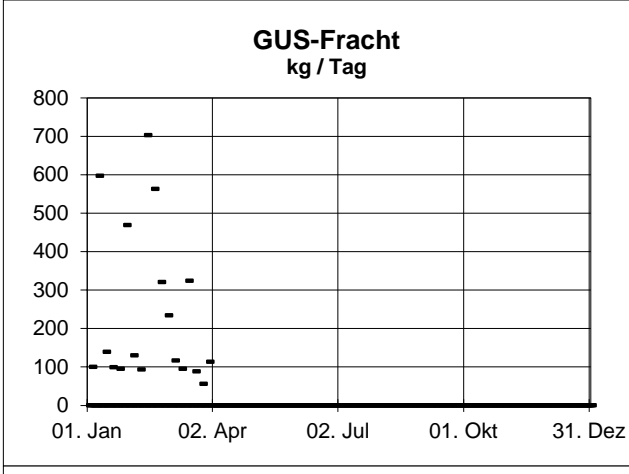
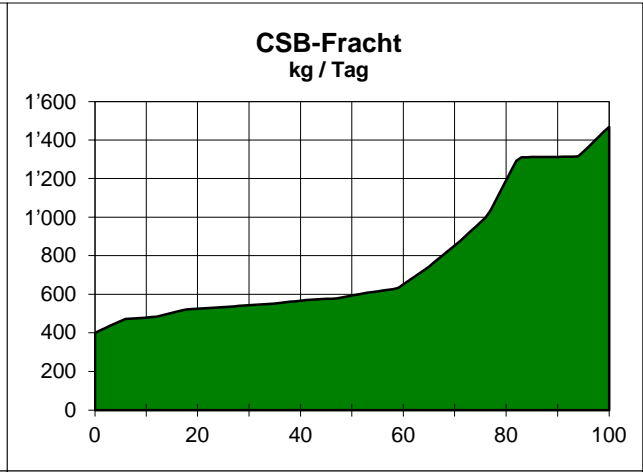
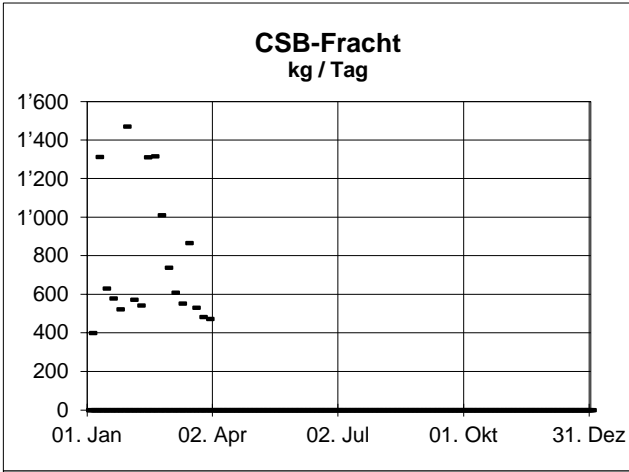


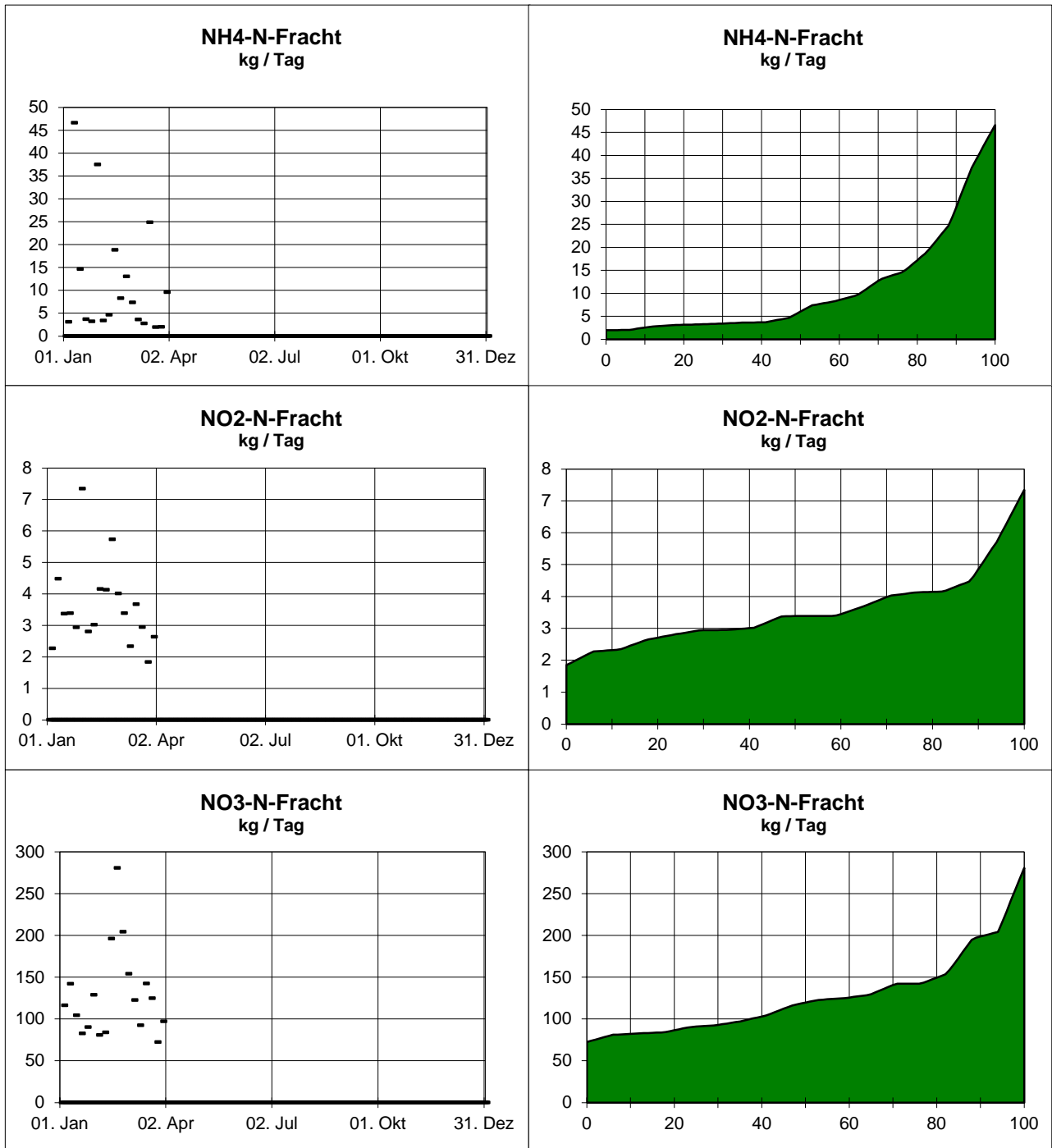
Angaben in mg/l	Mittelwert	90%-Wert	Grenzwert ¹⁾
BSB5			15
CSB	52.1	62.2	
GUS	13.9	22.3	15
NH4-N	0.7	1.4	2
NO2-N²⁾	0.3	0.3	0.3
NO3-N	8.9	11.2	
P ges	0.76	1.23	0.8



¹⁾ nach GSchV vom 28. Oktober 1998

²⁾ Richtwert



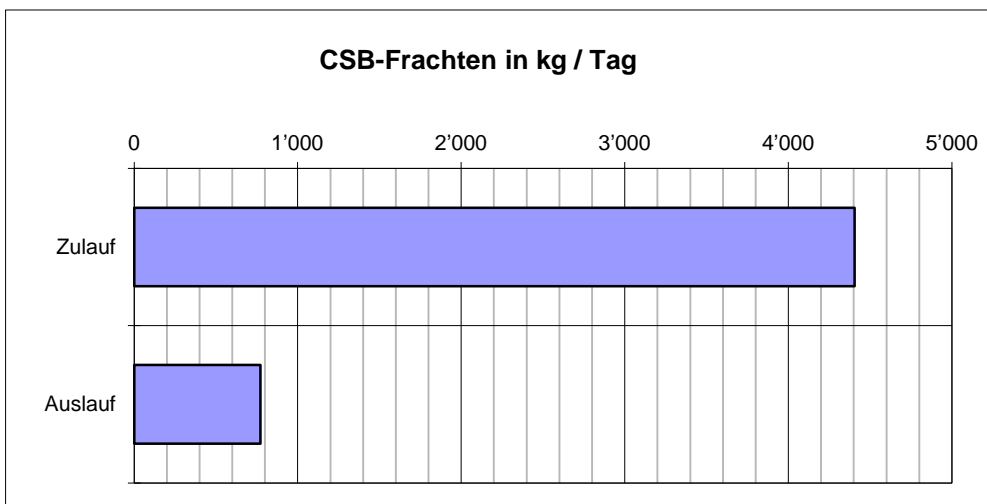


Auslauffrachten:

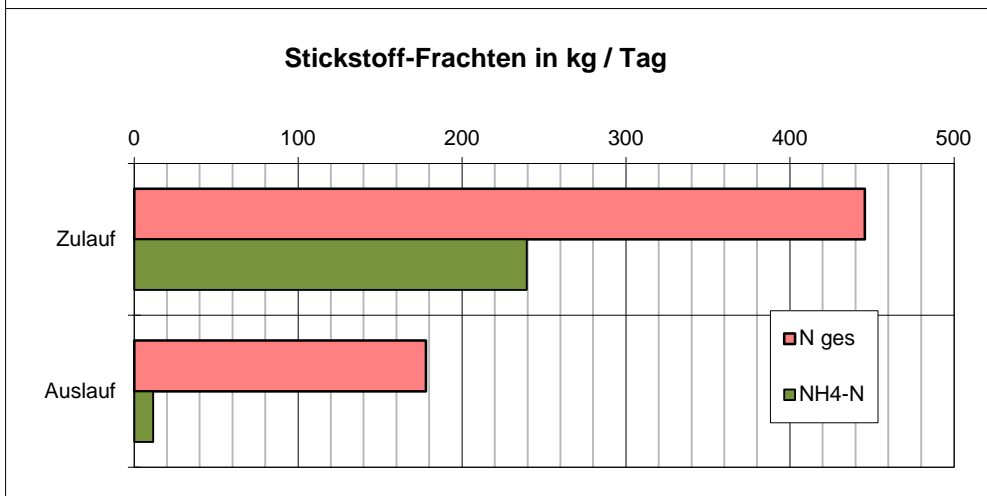
Angaben in kg/Tag	Mittel- wert	50%- Wert	80%- Wert	Mittel 5 - 95 %
CSB	772	593	1'190	748
GUS	241	124	411	220
Nges	178	152	243	173
NH4-N	11.6	6.0	17.2	9.7
NO2-N	3.6	3.4	4.1	3.4
NO3-N	128.7	119.6	149.4	122.2
P ges	12.4	7.2	22.3	11.5

Abbauleistungen:

	Zulauf kg / Tag	Auslauf kg / Tag	Abbau	Grenz- wert
CSB	4'405	772	82%	80%
N ges	445.7	178.1	60%	30%
NH4-N	239.6	11.6	95%	90%
Pges	52.2	12.4	76%	80%

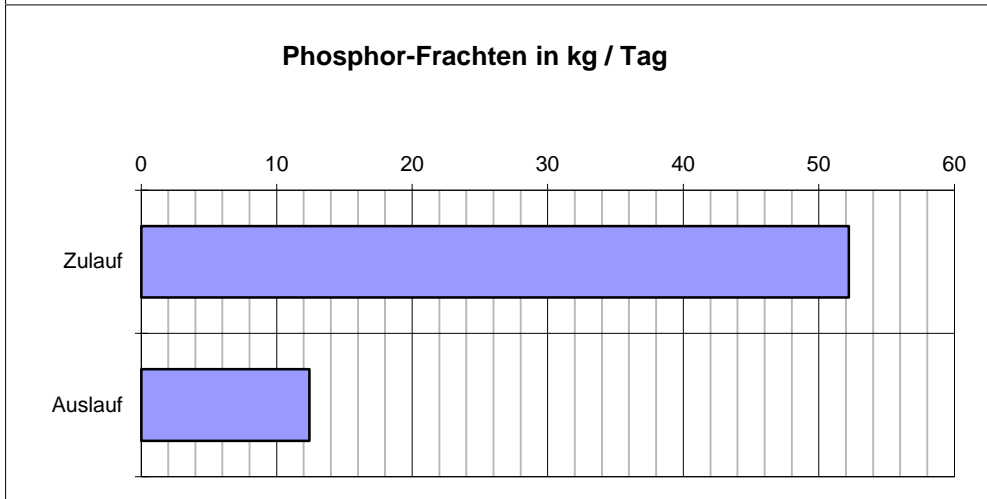


CSB-Abbau	
3'632	kg / Tag
82%	
80%	Richtwert

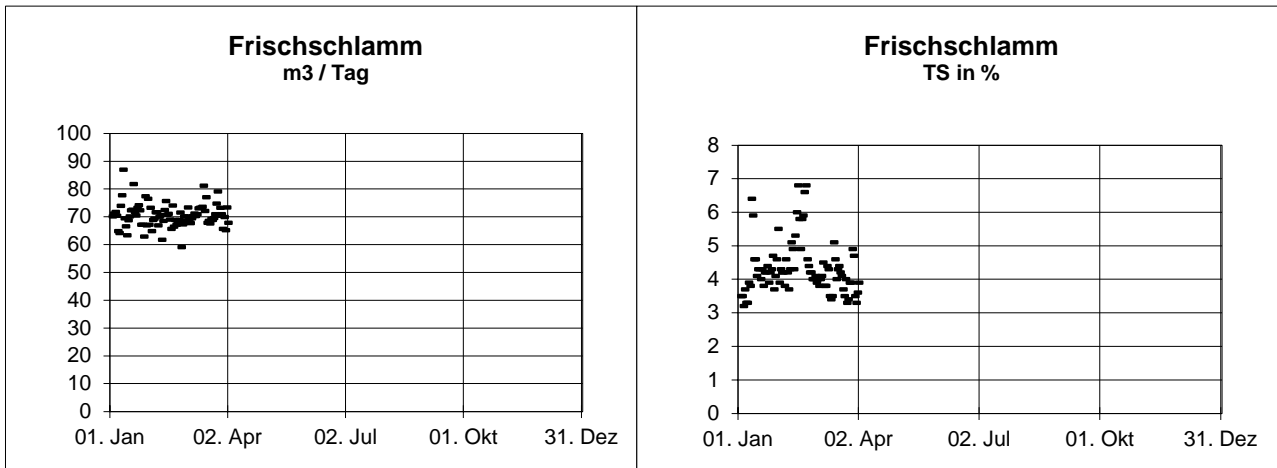


N-Elimination	
268	kg / Tag
60%	
30%	

Nitrifikation	
228	kg / Tag
95%	
90%	



P-Elimination	
40	kg / Tag
76%	
80%	

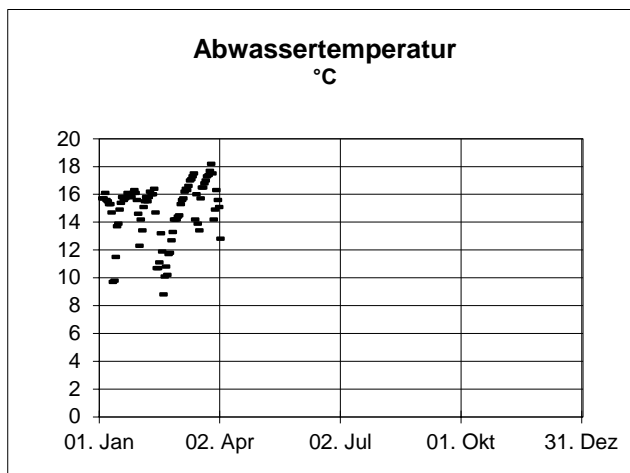


Frishschlammmanfall: Mittelwerte

Frishschl. nass	70.5	m3/Tag
TS-Anteil	4.3	%
Frishschl. in TS	3'043	kg/Tag

Jahresanfall

Frishschl. in TS	1'111	t/ Jahr
-------------------------	-------	---------



Abwassertemperatur:

Mittelwert	14.8 °C
20%-Wert	13.4 °C
50%-Wert	15.6 °C
80%-Wert	16.3 °C

Bemerkungen zur Datenauswertung: