

	Q bio m3 / Tag	Q min l / s	Q max l / s
Mittelwert	14'157		
20%-Wert	9'053	67	229
50%-Wert	11'076	84	252
80%-Wert	19'136	119	461
Q tw 1)	10'065	75	240
2 Q tw			481

1) Mittel aus 20% und 50%-Wert

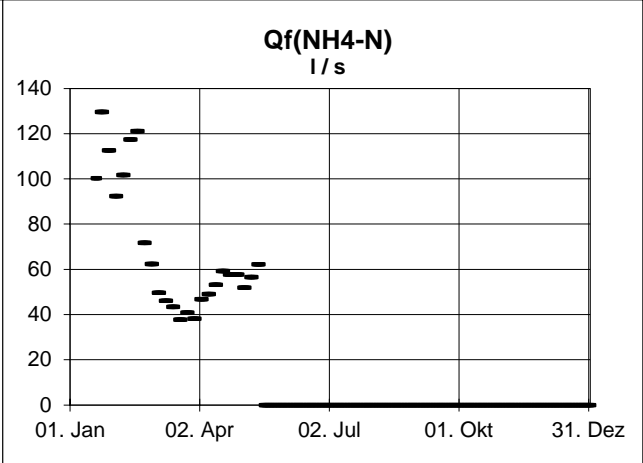
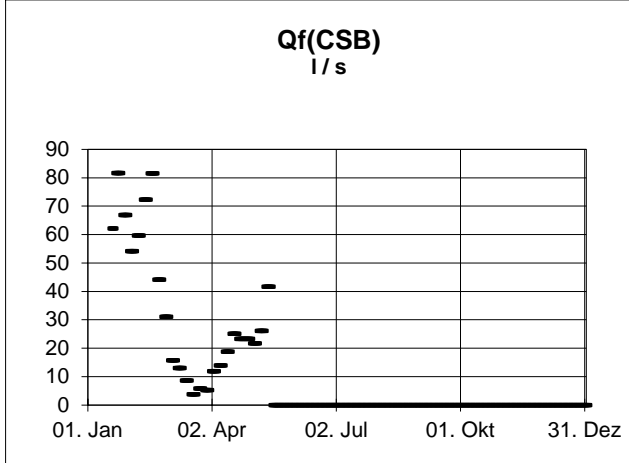
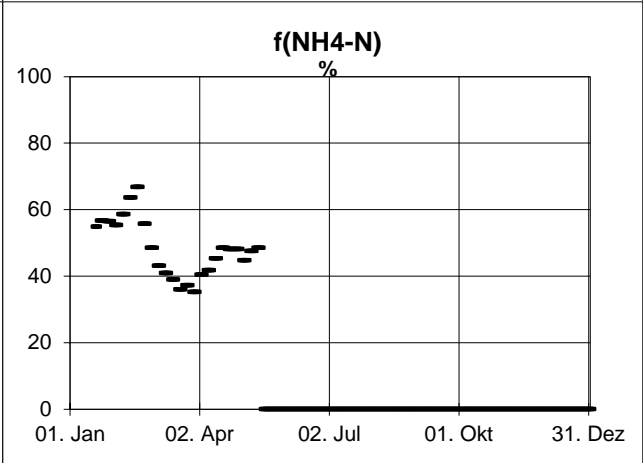
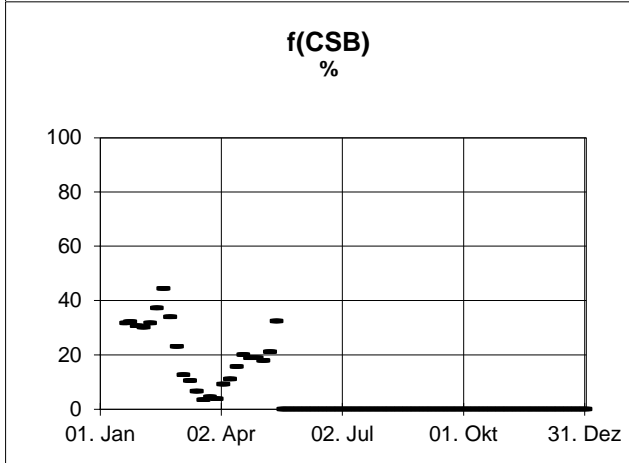
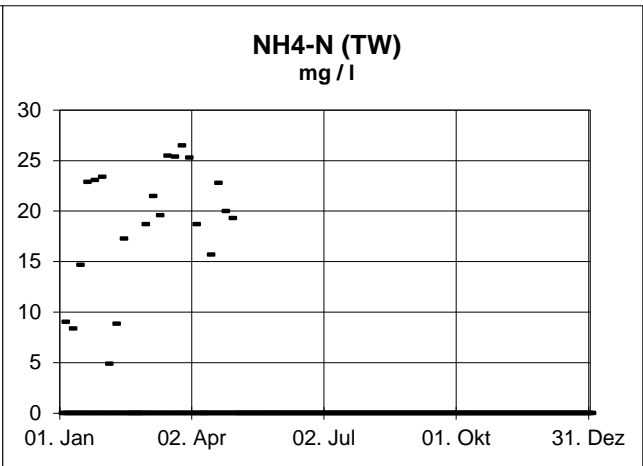
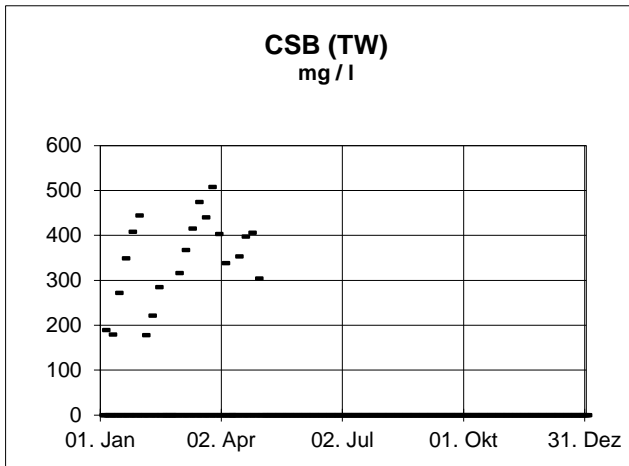
Fremdwasseranteil 26 %

siehe Seite 2

	Tagesmittelwerte	
	m3 / d	l / s
Q tw	10'065	116
Q fremd 2)	2'624	30
Q schmutz 3)	7'441	86

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

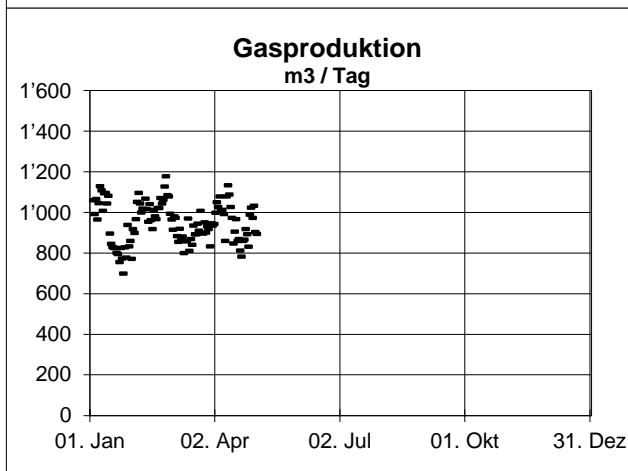
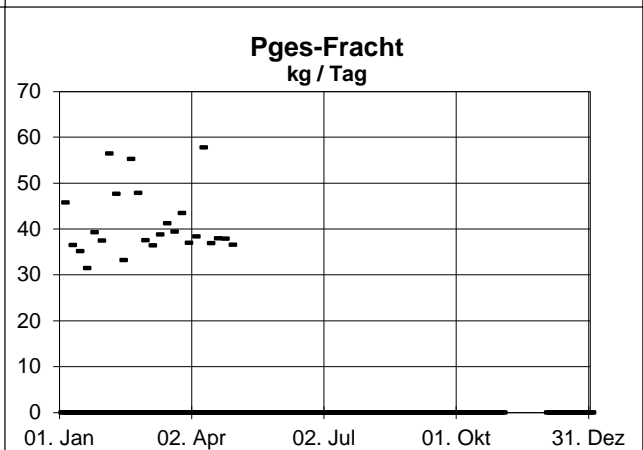
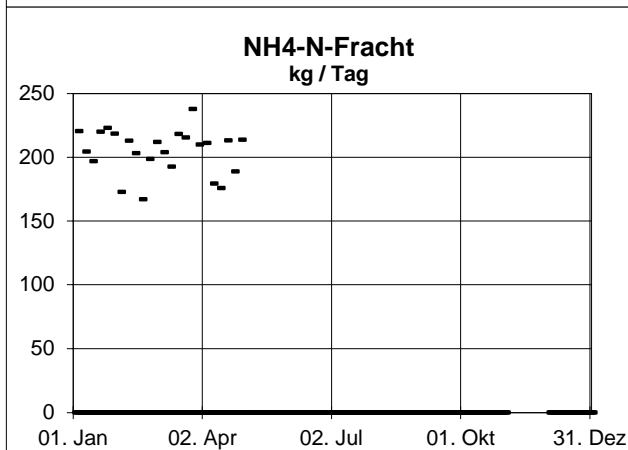
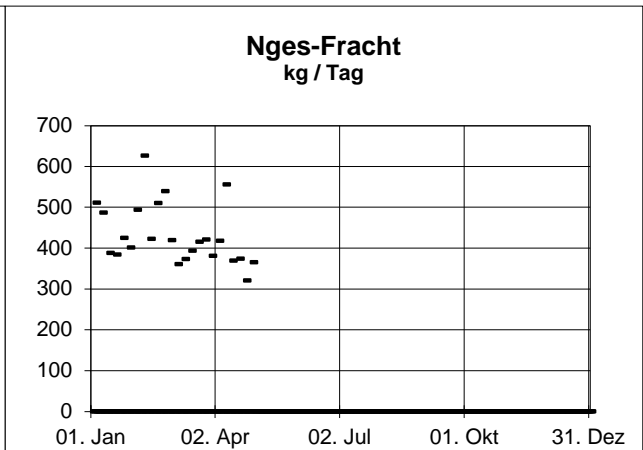
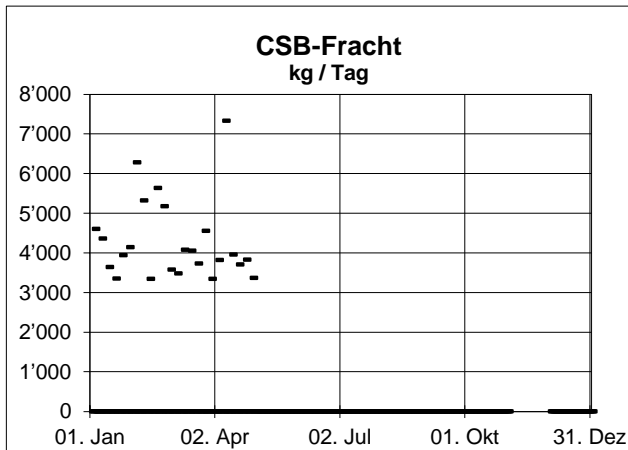
Q tw	10'065 m3 / Tag
Q schmutz (EW) ¹⁾	9'600 m3 / Tag
Q fremd (EW)	465 m3 / Tag
f (EW)	5 %

¹⁾ 200 l / EW * Tag

Schätzung aus den Zulaufkonzentrationen:

f(CSB) Jahresmittel	23 %
f(NH4-N) Jahresmittel	50 %

f Mittelwert	26 %
f gewählt	26 %

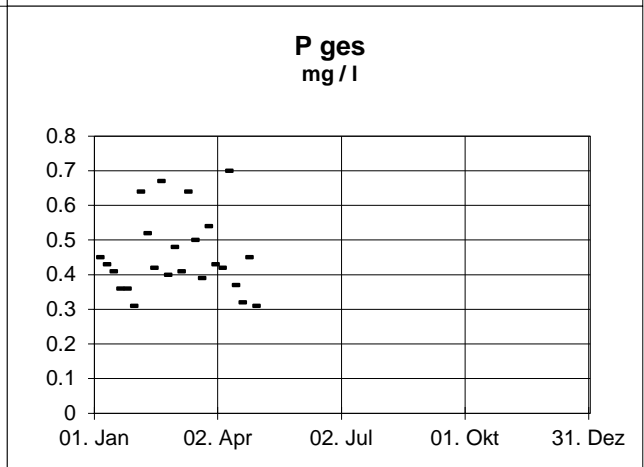
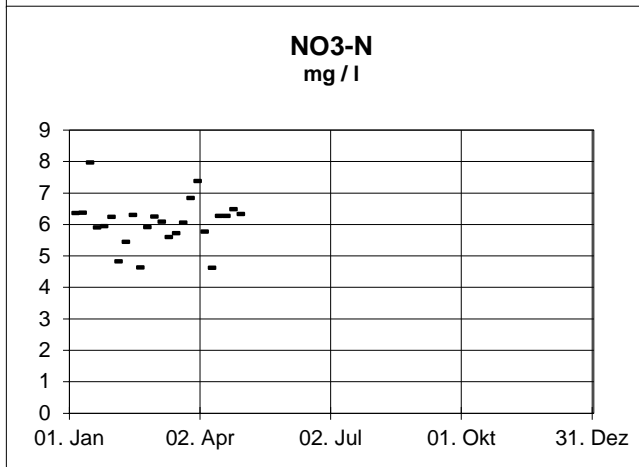
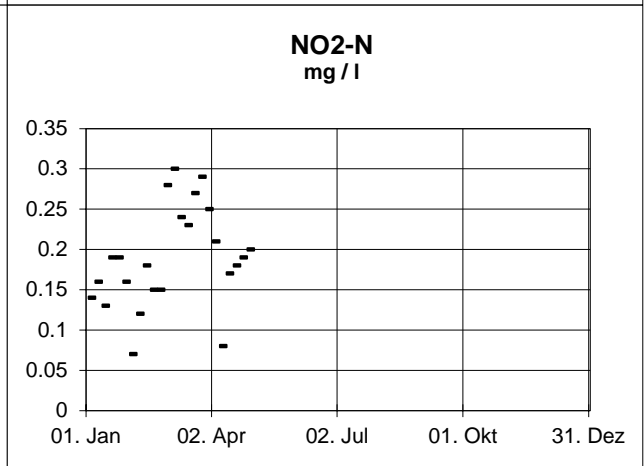
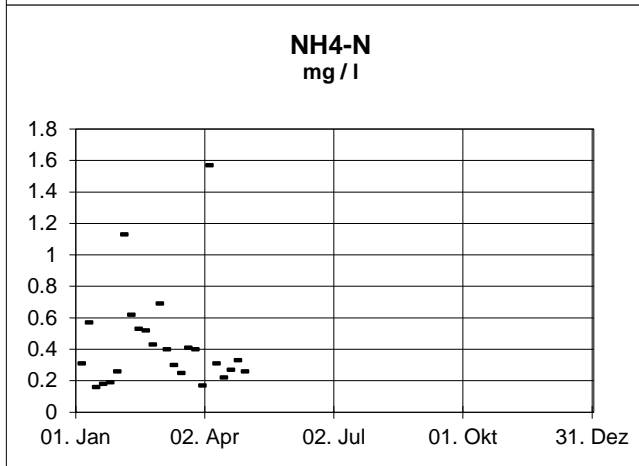
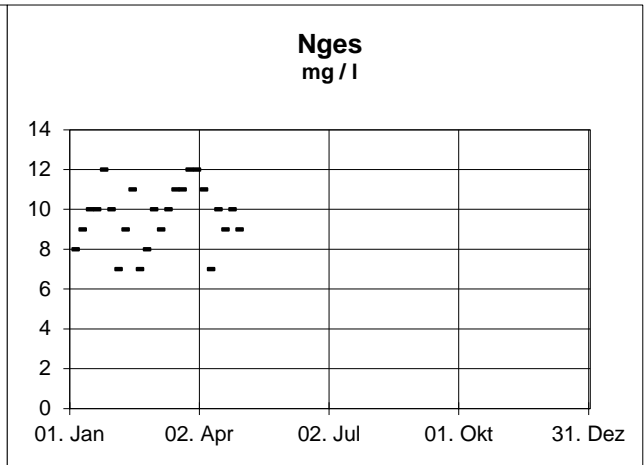
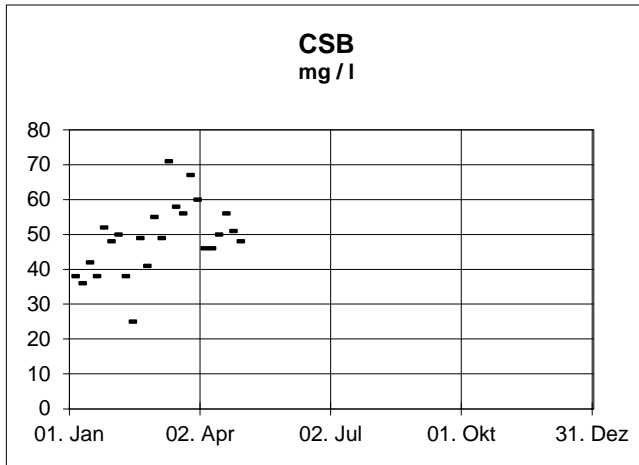


EZ angeschlossen	21'000
EW biochem. gewählt	48'000
EW biochem. 80%-Wert	54'000
EW Stickstoff	27'000
EW Phosphor	26'000

<u>Zulauffrachten</u>	BSB5 kg/Tag	CSB kg/Tag	NH4-N kg/Tag	Pges kg/Tag	Gasp. m3/Tag	FS kg/Tag
Mittelwert		4'277	205	41	989	2'519
50%-Wert		3'946	211	38	949	
80%-Wert		4'832	218	47	1'043	

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

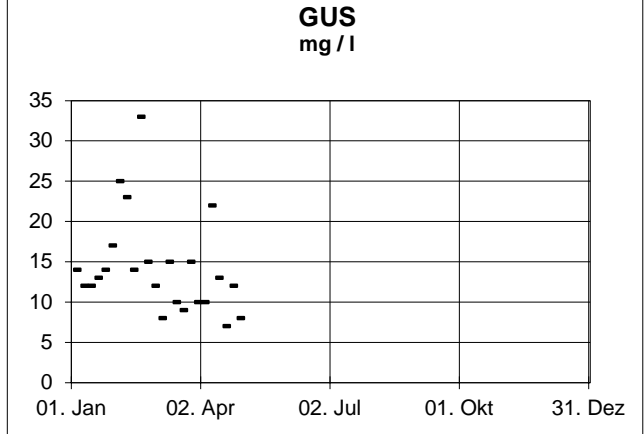
<u>Einwohnerwerte</u>	BSB5 EW	CSB EW	NH4-N EW	Pges EW	Mittelwerte EW	Gasp. EW	FS EW
Mittelwert		47'526	27'276	25'676	33'492	32'953	29'630
50%-Wert		43'849	28'077	23'869	31'931	31'617	
80%-Wert		53'685	29'101	29'084	37'290	34'773	

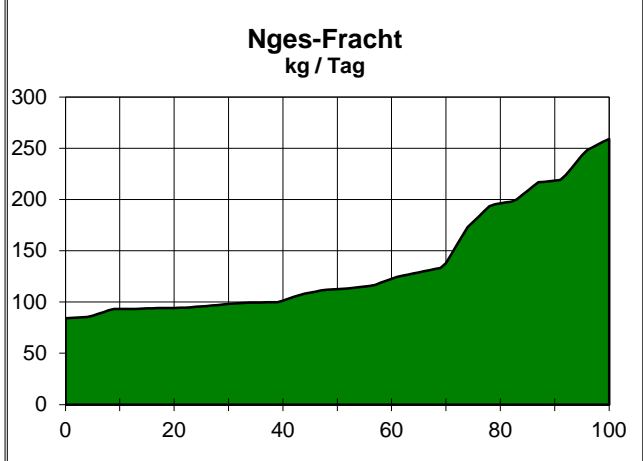
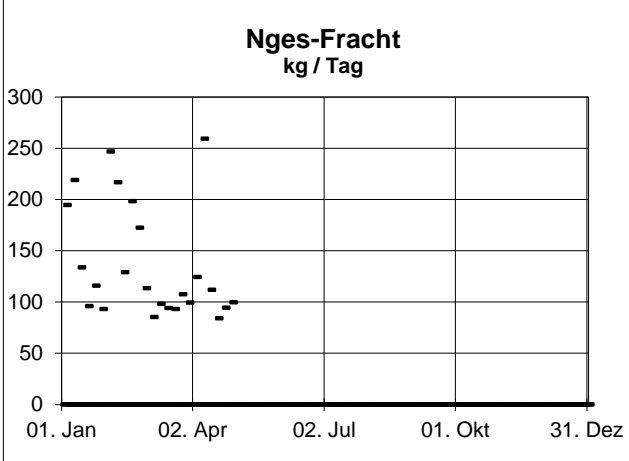
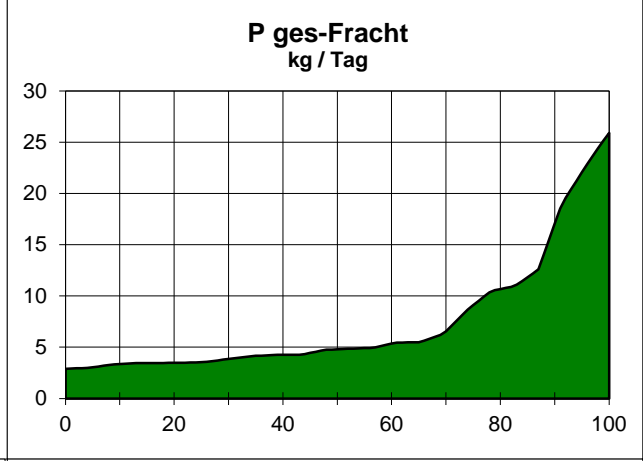
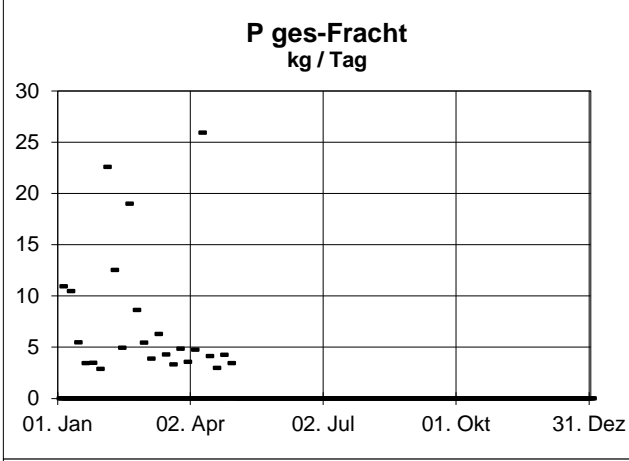
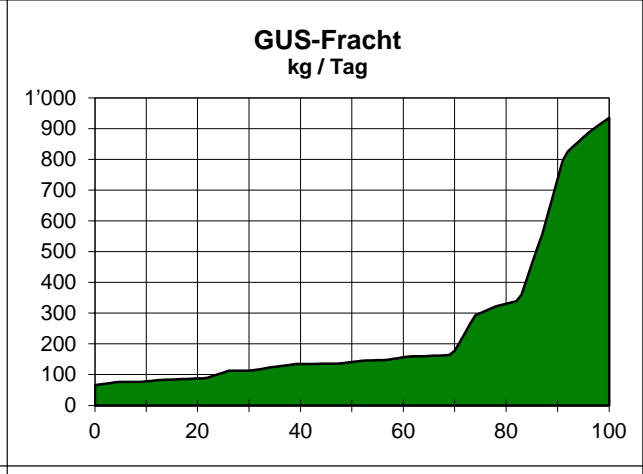
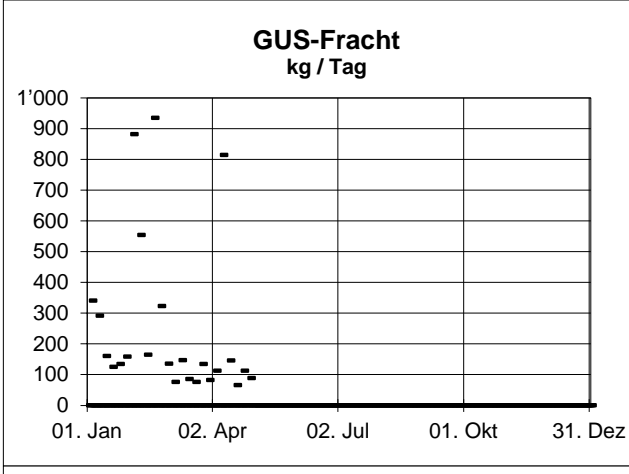
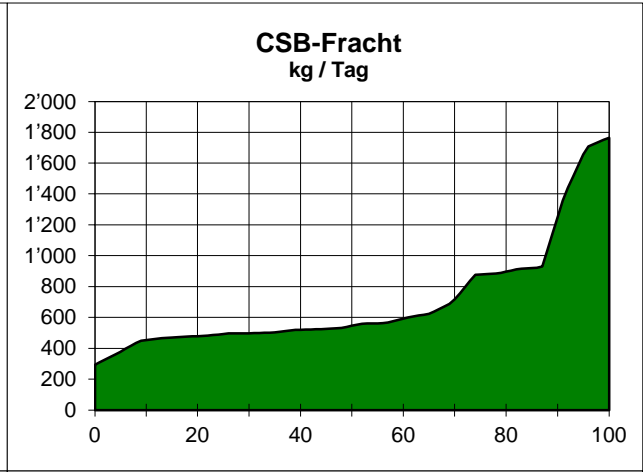
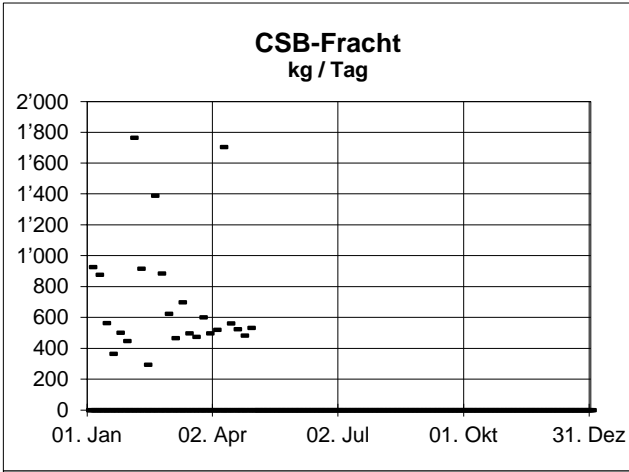


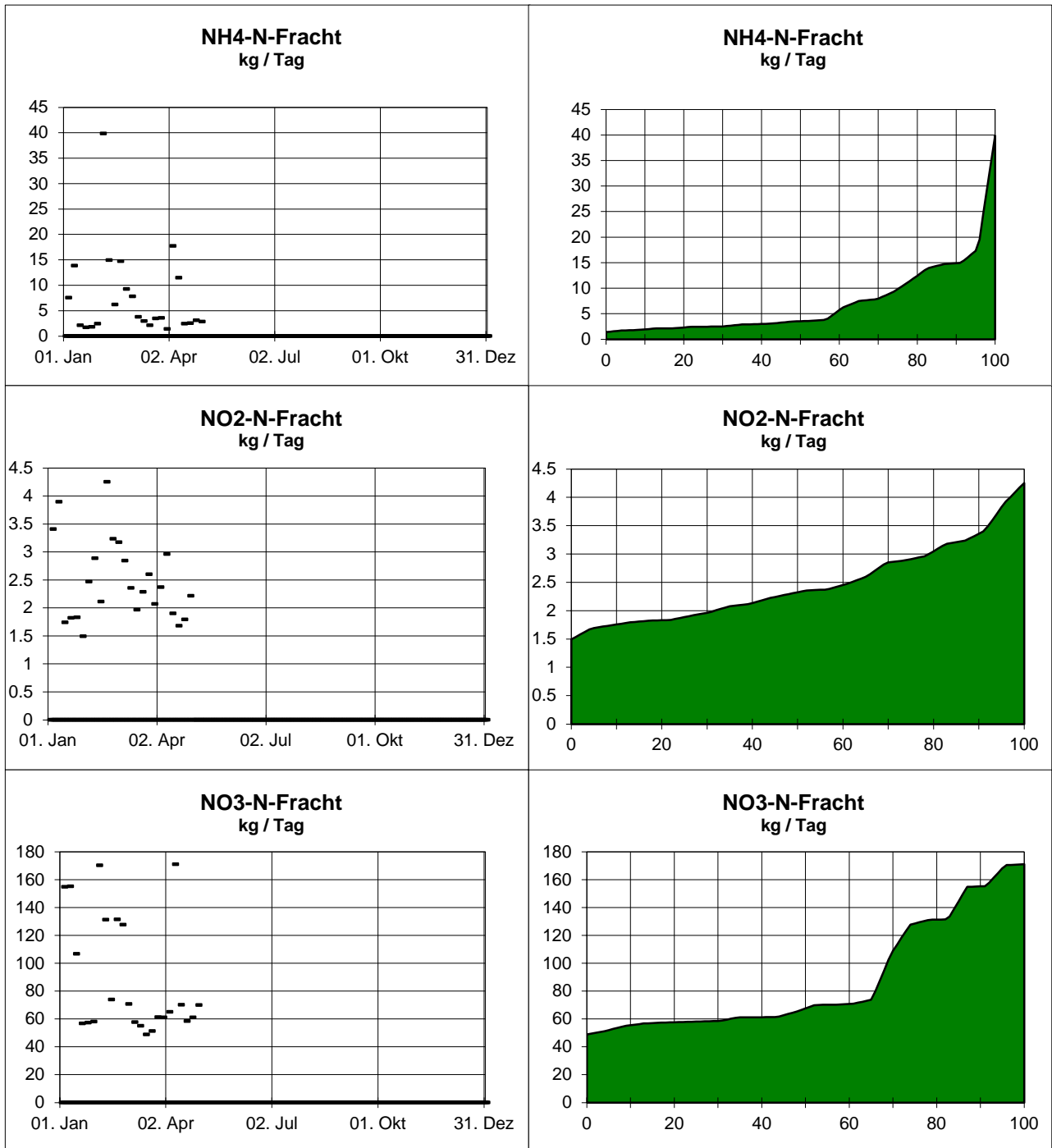
Angaben in mg/l	Mittel- wert	90%- Wert	Grenz- wert ¹⁾
BSB5			15
CSB	48.8	59.4	
GUS	14.3	22.7	15
NH4-N	0.4	0.7	2
NO2-N ²⁾	0.2	0.3	0.3
NO3-N	6.1	6.7	
P ges	0.46	0.64	0.8

¹⁾ nach GSchV vom 28. Oktober 1998

²⁾ Richtwert





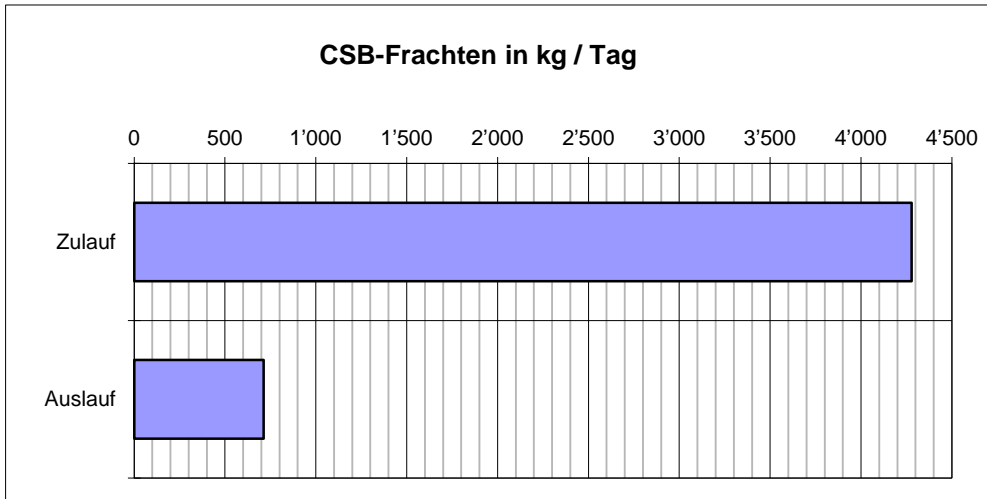


Auslauffrachten:

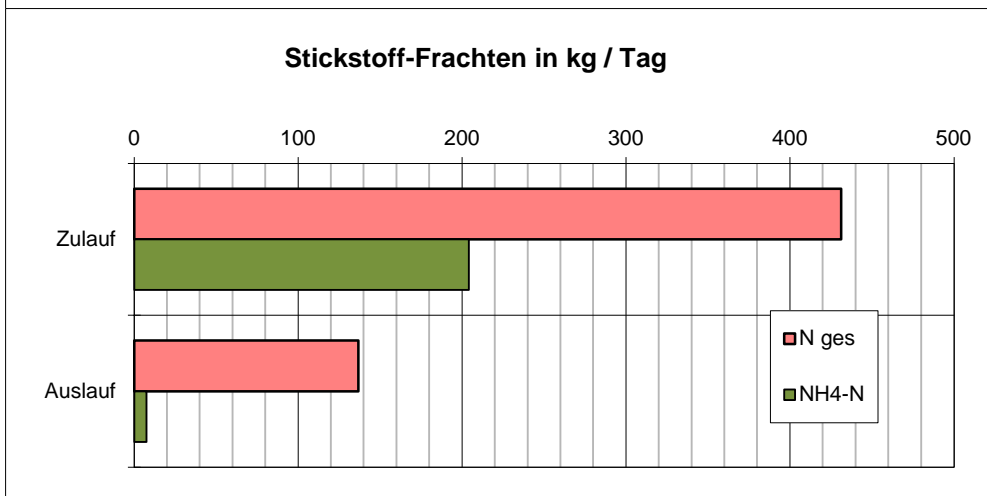
Angaben in kg/Tag	Mittel- wert	50%- Wert	80%- Wert	Mittel 5 - 95 %
CSB	713	546	897	666
GUS	256	141	330	222
Nges	137	113	196	132
NH4-N	7.5	3.5	12.4	6.1
NO2-N	2.5	2.3	3.0	2.4
NO3-N	88.6	67.7	131.4	85.5
P ges	7.6	4.8	10.7	6.6

Abbauleistungen:

	Zulauf kg / Tag	Auslauf kg / Tag	Abbau	Grenz- wert
CSB	4'277	713	83%	80%
N ges	431.2	136.8	68%	30%
NH4-N	204.2	7.5	96%	90%
Pges	41.1	7.6	82%	80%

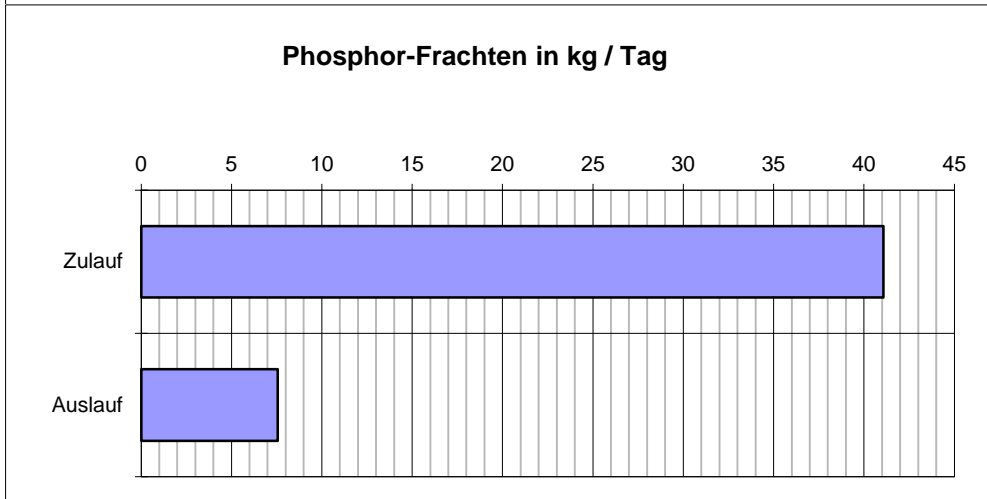


CSB-Abbau	
3'565	kg / Tag
83%	
80%	Richtwert

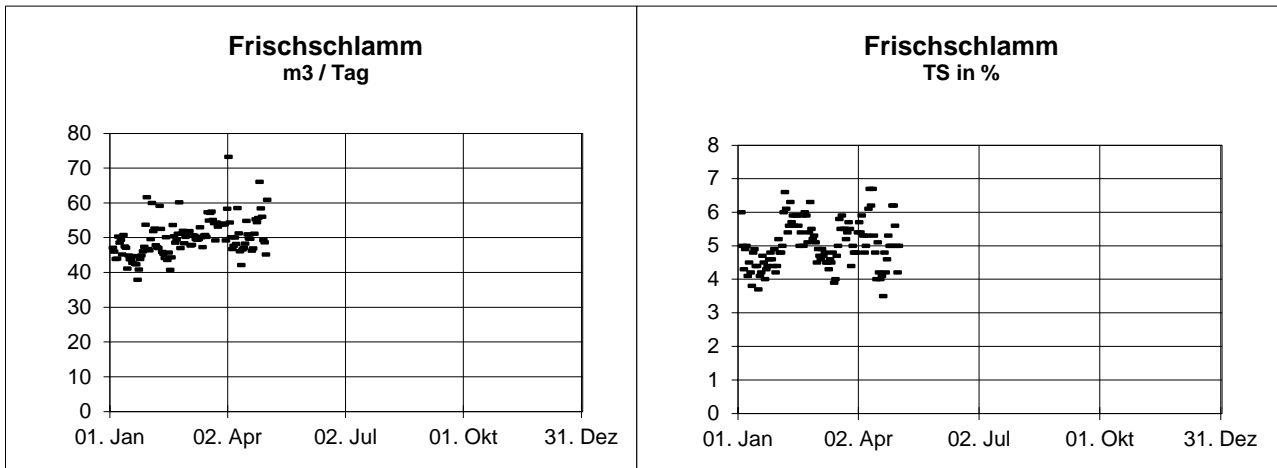


N-Elimination	
294	kg / Tag
68%	
30%	

Nitrifikation	
197	kg / Tag
96%	
90%	



P-Elimination	
34	kg / Tag
82%	
80%	

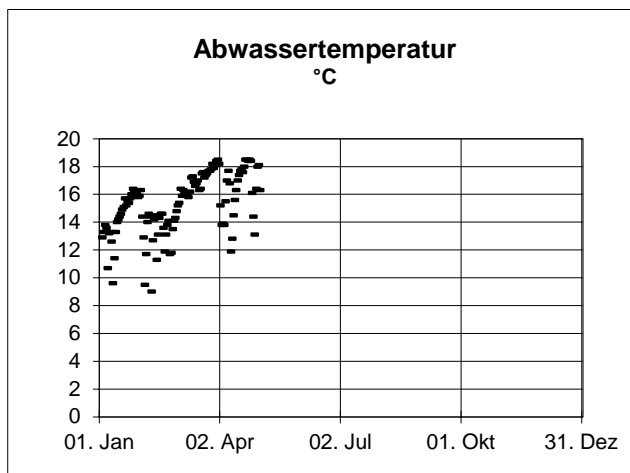


Frishschlammmanfall: Mittelwerte

Frishschl. nass	50.0	m ³ /Tag
TS-Anteil	5.0	%
Frishschl. in TS	2'519	kg/Tag

Jahresanfall

Frishschl. in TS	919	t/ Jahr
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Abwassertemperatur:

Mittelwert	15.3 °C
20%-Wert	13.6 °C
50%-Wert	15.7 °C
80%-Wert	17.4 °C

Bemerkungen zur Datenauswertung: