

	<b>Q bio</b> m <sup>3</sup> / Tag	<b>Q min</b> l / s	<b>Q max</b> l / s
<b>Mittelwert</b>	18'497		
<b>20%-Wert</b>	9'344	70	286
<b>50%-Wert</b>	13'520	100	356
<b>80%-Wert</b>	30'392	222	495
<b>Q tw</b> 1)	11'432	85	321
<b>2 Q tw</b>			642

1) Mittel aus 20% und 50%-Wert

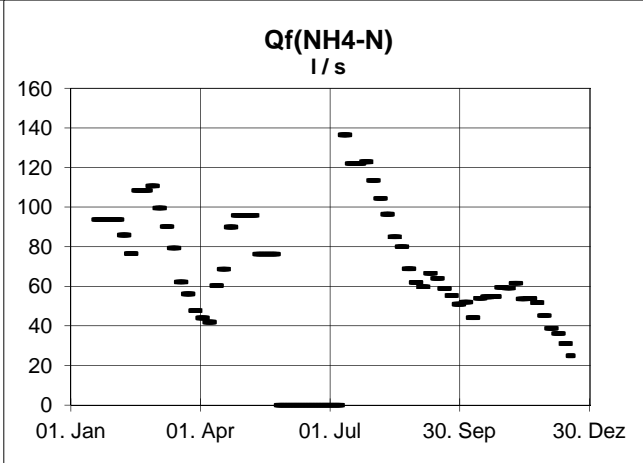
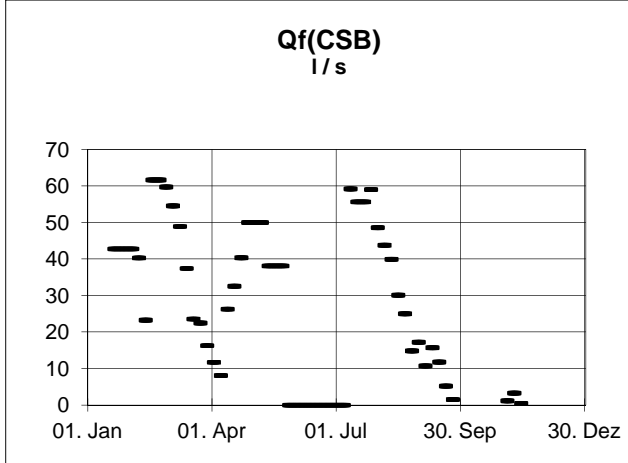
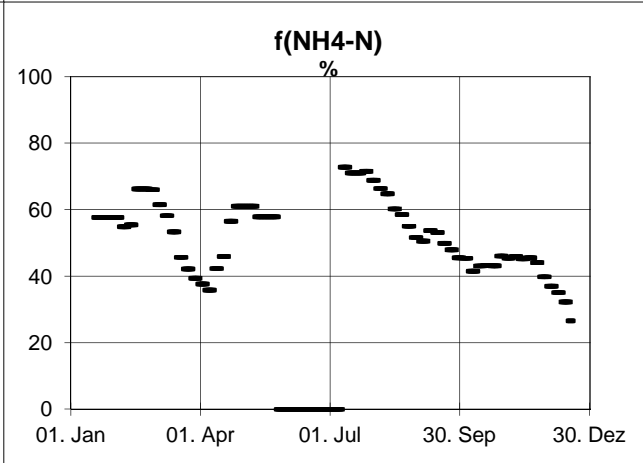
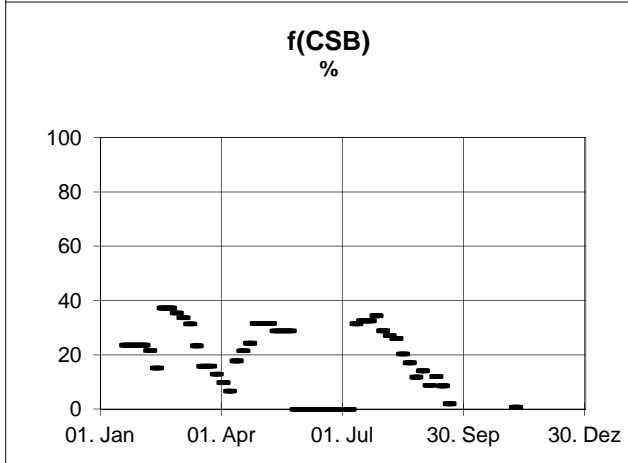
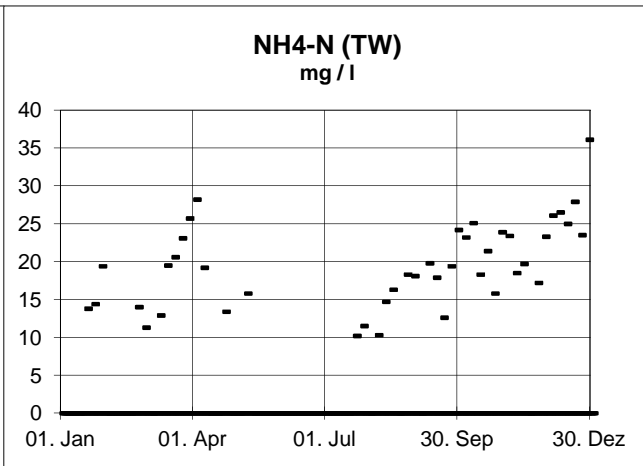
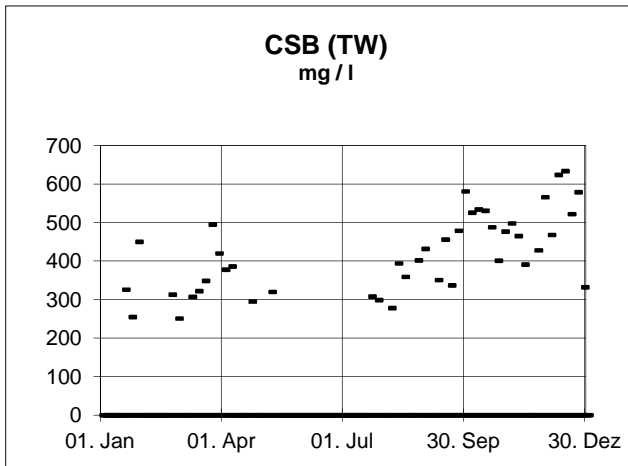
**Fremdwasseranteil 27 %**

siehe Seite 2

	<b>Tagesmittelwerte</b>	
	<b>m<sup>3</sup> / d</b>	<b>l / s</b>
<b>Q tw</b>	11'432	132
<b>Q fremd</b> <sup>2)</sup>	3'102	36
<b>Q schmutz</b> <sup>3)</sup>	8'330	96

<sup>2)</sup> = Q tw \* Fremdwasseranteil / 100

<sup>3)</sup> = Q tw - Q fremd



**Vorgaben:**

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

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

**Schätzung aus EW biochemisch**

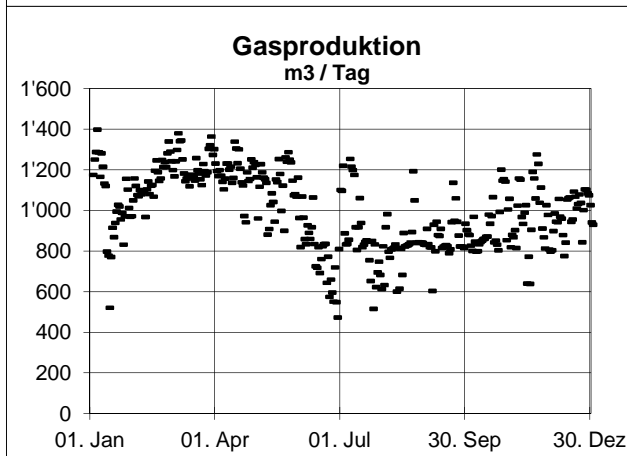
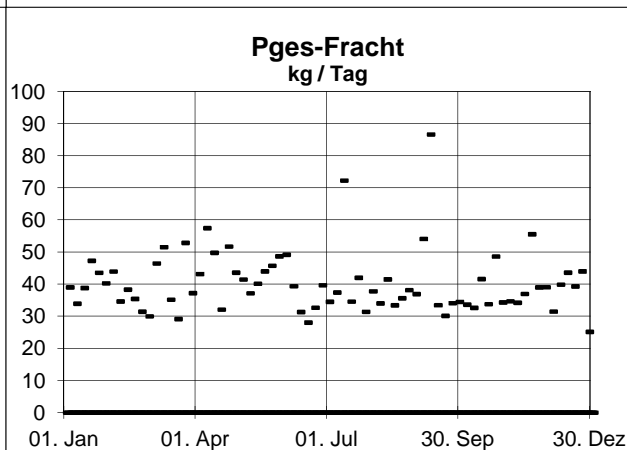
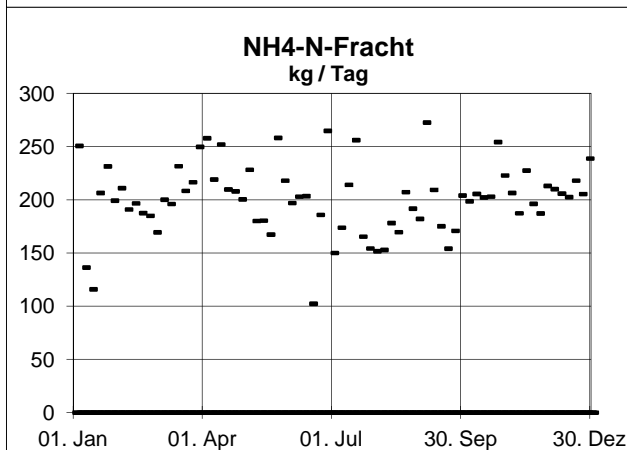
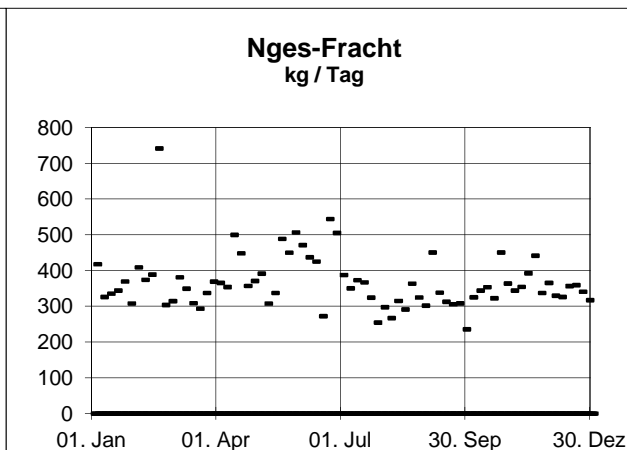
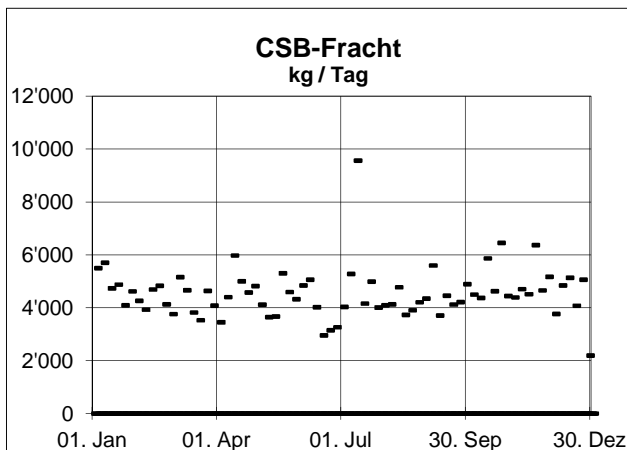
<b>Q tw</b>	11'432 m <sup>3</sup> / Tag
<b>Q schmutz (EW) <sup>1)</sup></b>	8'400 m <sup>3</sup> / Tag
<b>Q fremd (EW)</b>	3'032 m <sup>3</sup> / Tag
<b>f (EW)</b>	27 %

<sup>1)</sup> 200 l / EW \* Tag

**Schätzung aus den Zulaufkonzentrationen:**

<b>f(CSB) Jahresmittel</b>	7 %
<b>f(NH4-N) Jahresmittel</b>	48 %

<b>f Mittelwert</b>	27 %
<b>f gewählt</b>	27 %

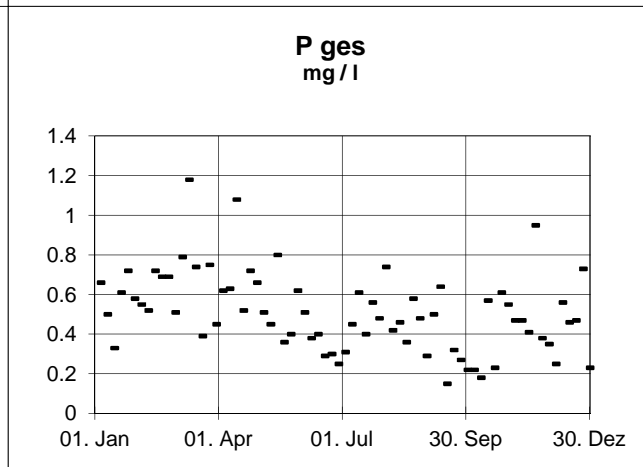
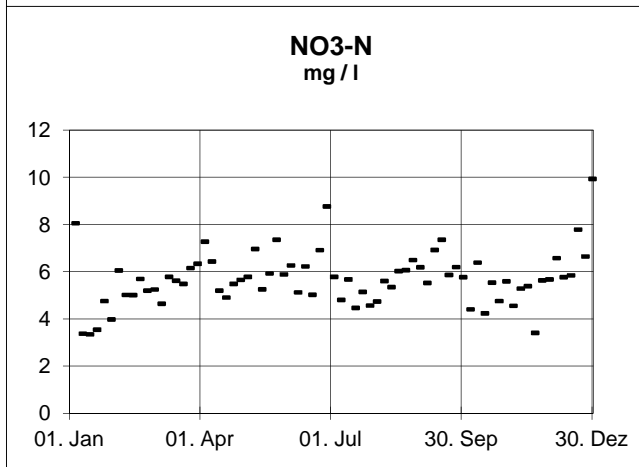
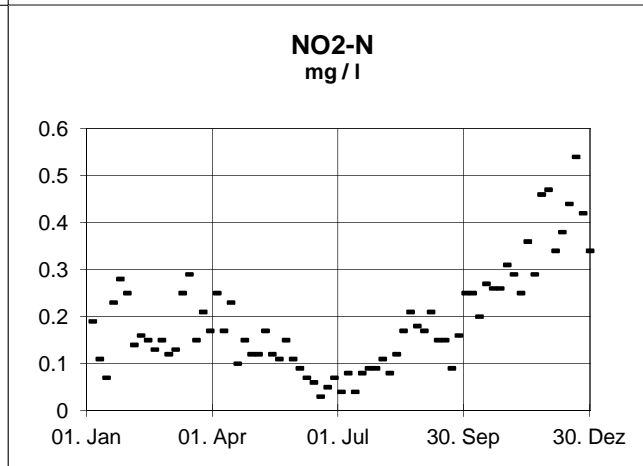
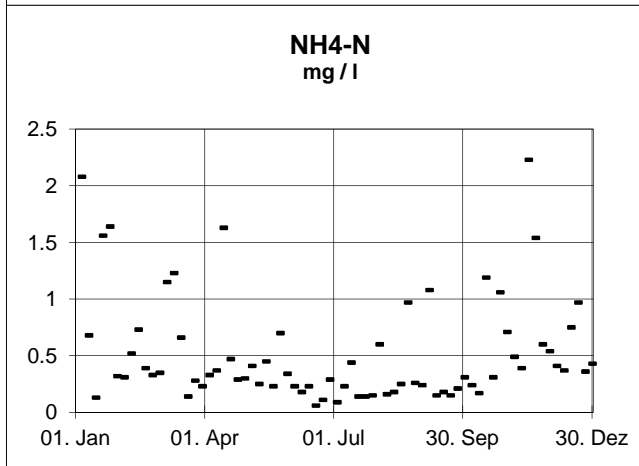
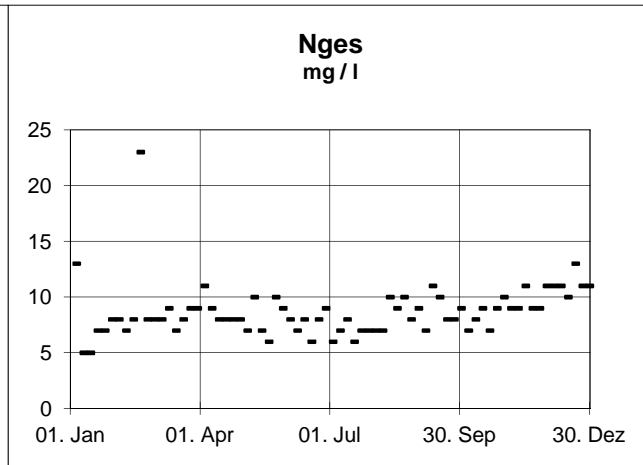
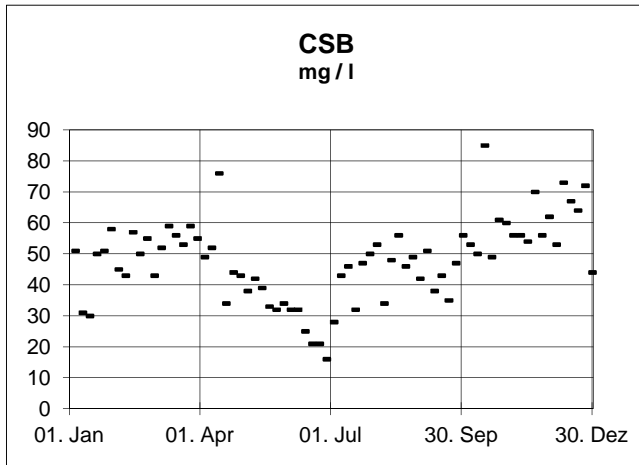


<b>EZ angeschlossen</b>	<b>19'660</b>
<b>EW biochem. gewählt</b>	<b>42'000</b>
<b>EW biochem. 80%-Wert</b>	<b>46'000</b>
<b>EW Stickstoff</b>	<b>27'000</b>
<b>EW Phosphor</b>	<b>25'000</b>

<b>Zulauffrachten</b>	<b>BSB5 kg/Tag</b>	<b>CSB kg/Tag</b>	<b>NH4-N kg/Tag</b>	<b>Pges kg/Tag</b>	<b>Gasp. m3/Tag</b>	<b>FS kg/Tag</b>
<b>Mittelwert</b>	1'531	4'545	201	40	1'012	2'633
<b>50%-Wert</b>	1'531	4'462	203	38	984	
<b>80%-Wert</b>	1'587	5'038	221	45	1'175	

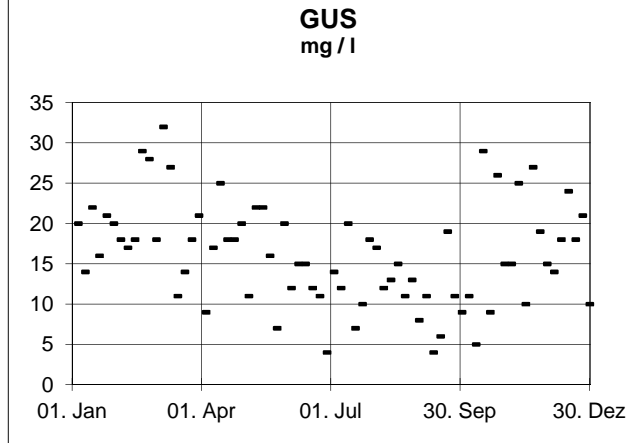
<b>spezifische Belastung pro EW</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>Probenahmeort: ab VKB</b>	<b>l / Tag</b>	<b>g / Tag</b>
	<b>45</b>	<b>90</b>	<b>7.5</b>	<b>1.6</b>		<b>30</b>	<b>85</b>

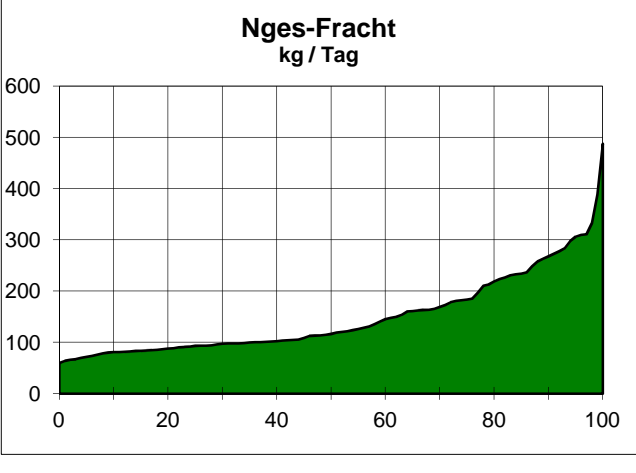
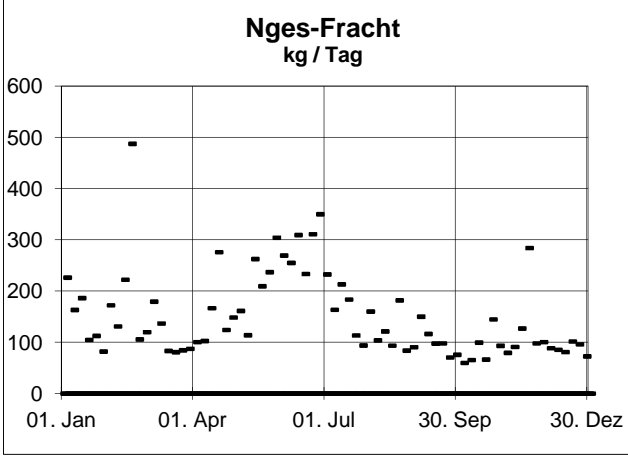
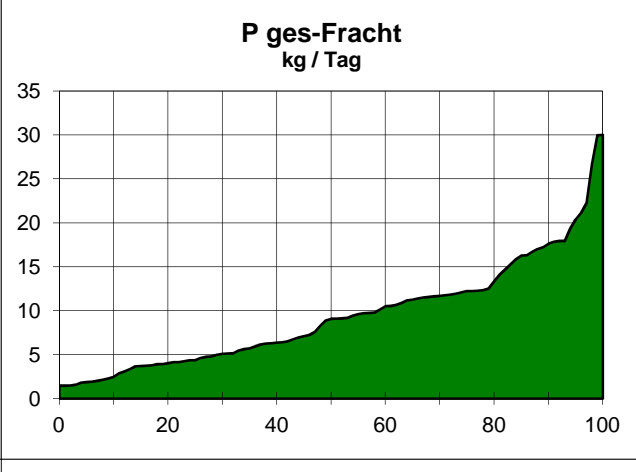
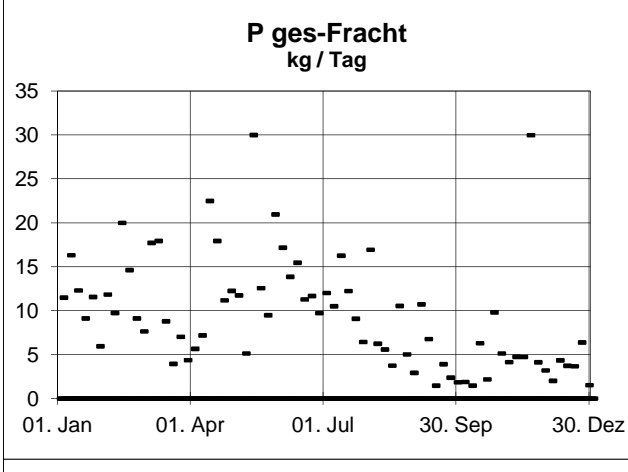
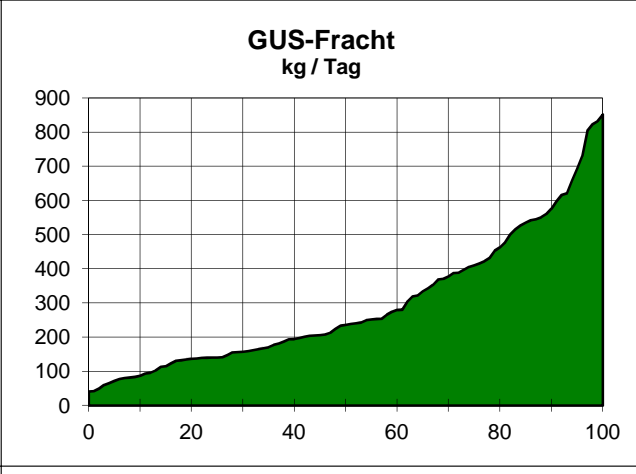
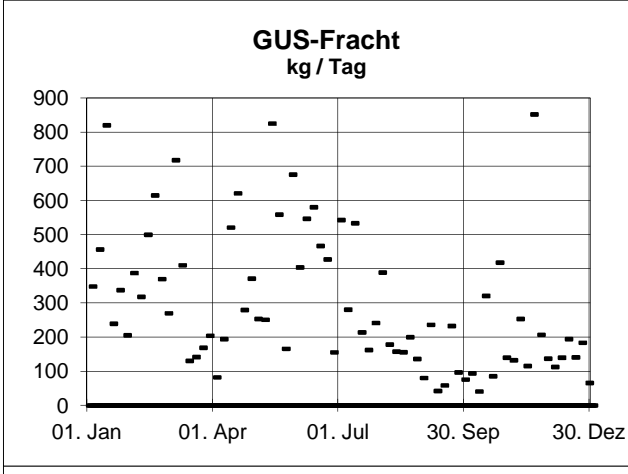
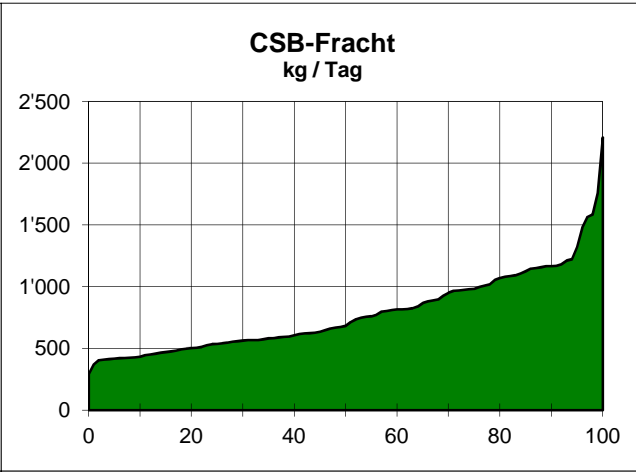
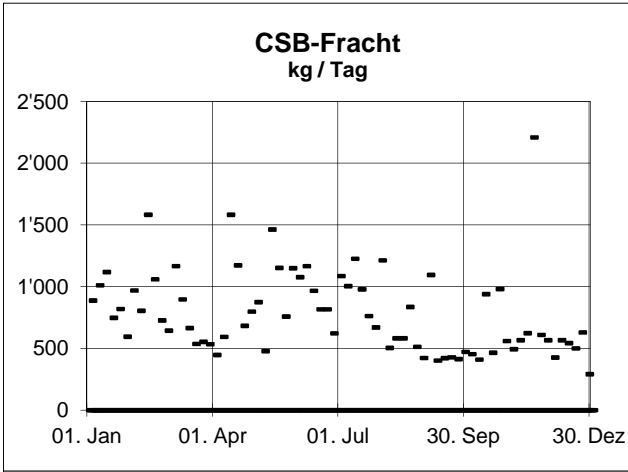
<b>Einwohnerwerte</b>	<b>BSB5 EW</b>	<b>CSB EW</b>	<b>NH4-N EW</b>	<b>Pges EW</b>	<b>Mittelwerte EW</b>	<b>Gasp. EW</b>	<b>FS EW</b>
<b>Mittelwert</b>	34'019	50'504	26'740	25'119	34'095	33'728	30'977
<b>50%-Wert</b>	34'018	49'572	27'069	23'957	33'654	32'783	
<b>80%-Wert</b>	35'274	55'983	29'525	28'150	37'233	39'167	

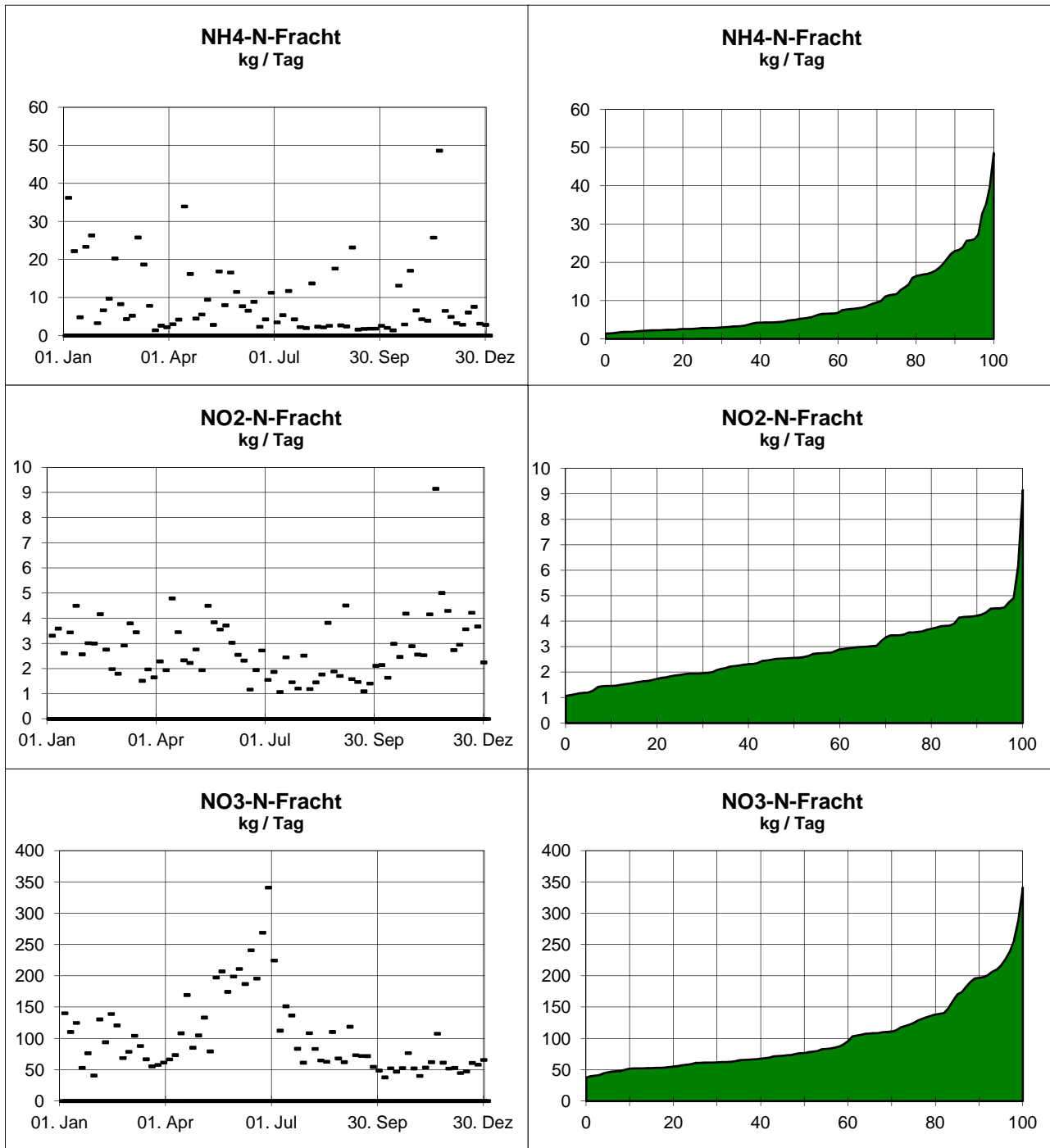


Angaben in mg/l	Mittelwert	90%-Wert	Grenzwert <sup>1)</sup>
<b>BSB5</b>			15
<b>CSB</b>	47.8	61.8	
<b>GUS</b>	16.2	25.0	15
<b>NH4-N</b>	0.5	1.2	2
<b>NO2-N<sup>2)</sup></b>	0.2	0.3	0.3
<b>NO3-N</b>	5.7	7.0	
<b>P ges</b>	0.51	0.74	0.8

<sup>1)</sup> nach GSchV vom 28. Oktober 1998  
<sup>2)</sup> Richtwert





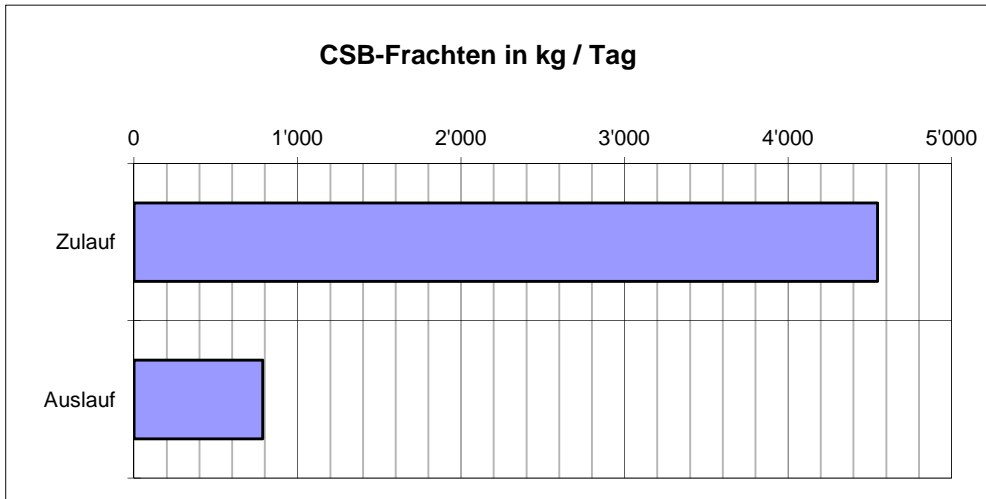


**Auslauffrachten:**

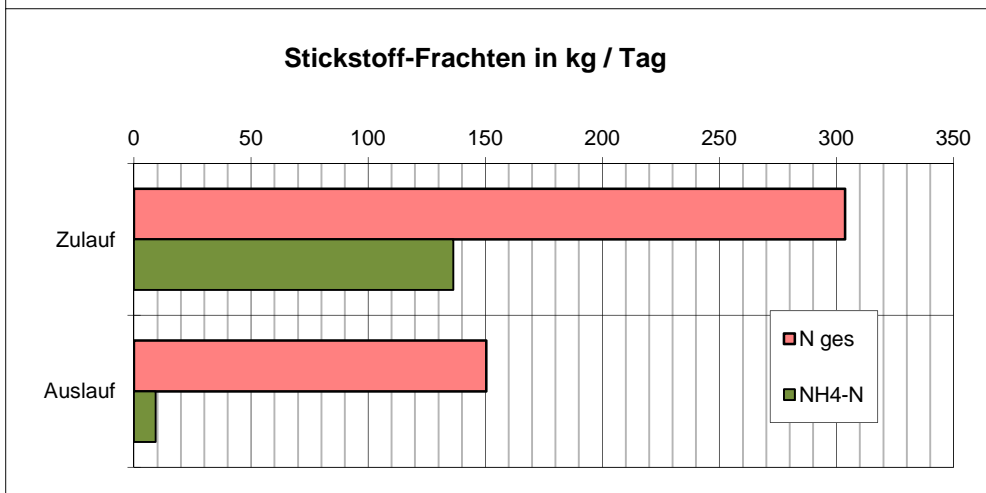
Angaben in kg/Tag	Mittel- wert	50%- Wert	80%- Wert	Mittel 5 - 95 %
<b>CSB</b>	786	683	1'071	756
<b>GUS</b>	297	236	463	282
<b>N ges</b>				
<b>NH4-N</b>	9.2	5.2	16.4	8.1
<b>NO2-N</b>	2.8	2.6	3.7	2.7
<b>NO3-N</b>	102.1	76.6	138.2	95.9
<b>P ges</b>	9.4	9.1	13.3	8.9

**Abbauleistungen:**

	Zulauf kg / Tag	Auslauf kg / Tag	Abbau	Grenz- wert
<b>CSB</b>	4'545	786	83%	80%
<b>N ges</b>	303.7	150.4	50%	30%
<b>NH4-N</b>	136.3	9.2	93%	90%
<b>Pges</b>	40.2	9.4	77%	80%

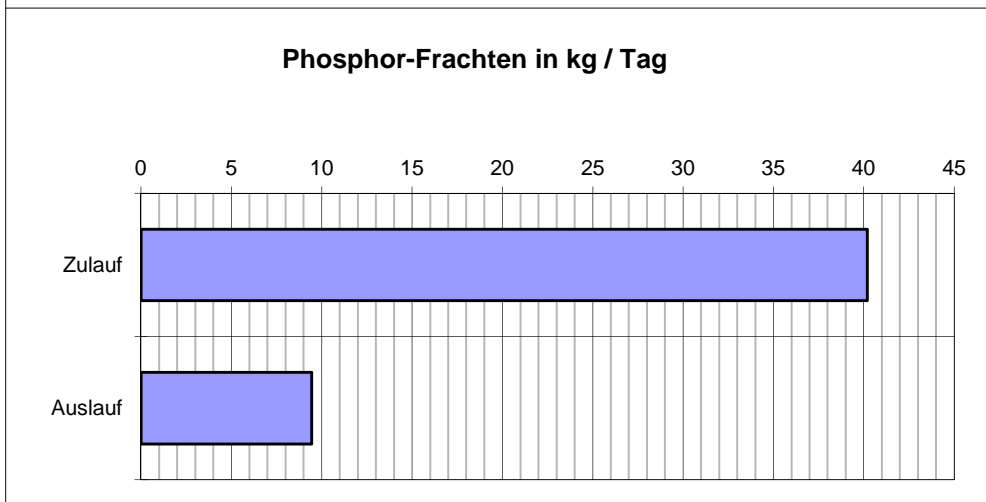


<b>CSB-Abbau</b>	
3'759	kg / Tag
83%	
80%	Richtwert

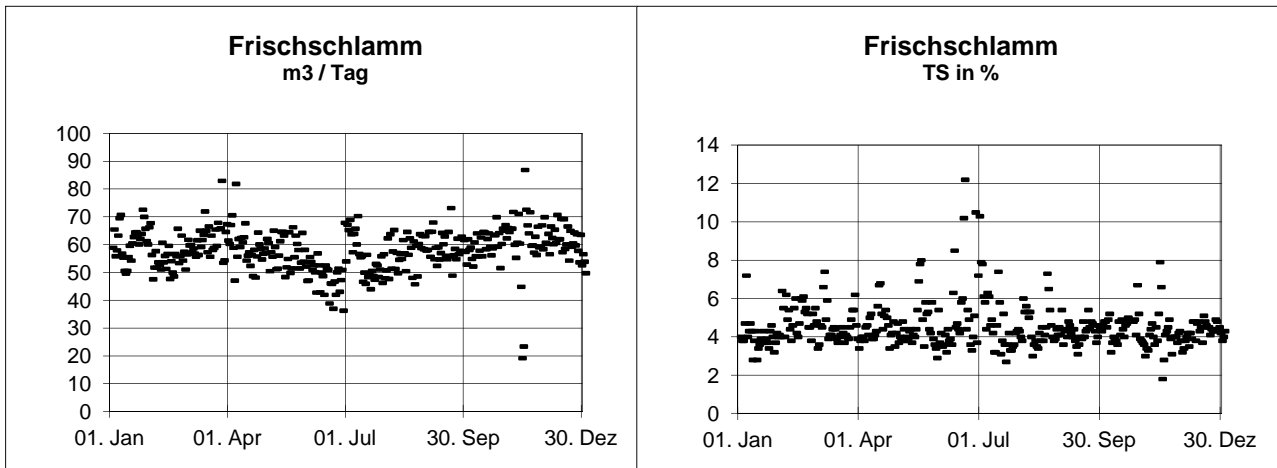


<b>N-Elimination</b>	
153	kg / Tag
50%	
30%	

<b>Nitrifikation</b>	
127	kg / Tag
93%	
90%	



<b>P-Elimination</b>	
31	kg / Tag
77%	
80%	

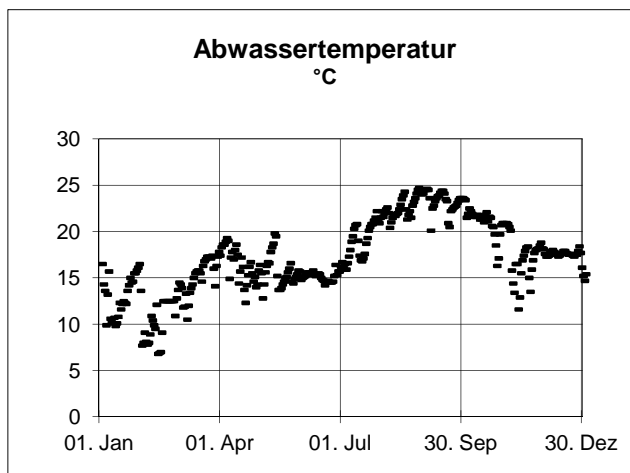


**Frischschlammfall: Mittelwerte**

<b>Frischschl. nass</b>	58.1	m3/Tag
<b>TS-Anteil</b>	4.5	%
<b>Frischschl. in TS</b>	2'633	kg/Tag

**Jahresanfall**

<b>Frischschl. in TS</b>	961	t/ Jahr
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**Abwassertemperatur:**

<b>Mittelwert</b>	17.3	°C
<b>20%-Wert</b>	14.3	°C
<b>50%-Wert</b>	17.1	°C
<b>80%-Wert</b>	21.5	°C

**Bemerkungen zur Datenauswertung:**