

	<b>Q bio</b> <b>m3 / Tag</b>	<b>Q min</b> <b>l / s</b>	<b>Q max</b> <b>l / s</b>
<b>Mittelwert</b>	17'557		
<b>20%-Wert</b>	10'362	79	298
<b>50%-Wert</b>	12'836	98	356
<b>80%-Wert</b>	25'011	209	494
<b>Q tw</b> 1)	11'599	89	327
<b>2 Q tw</b>			653

1) Mittel aus 20% und 50%-Wert

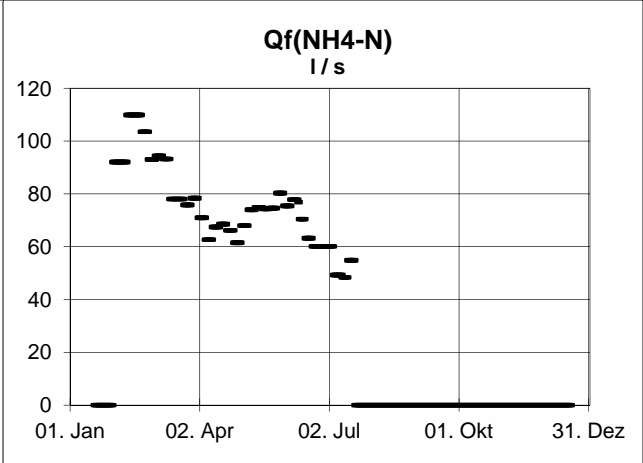
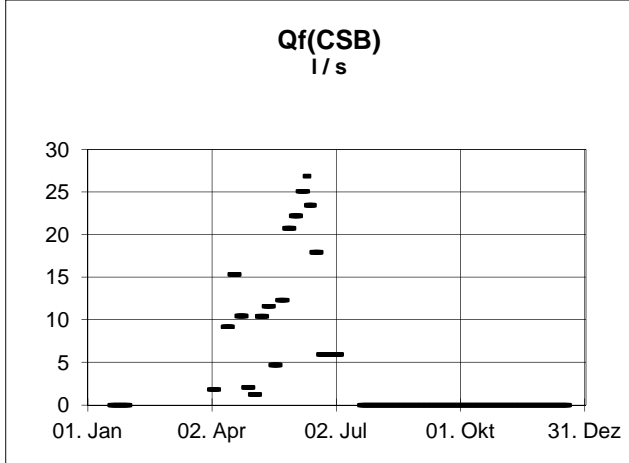
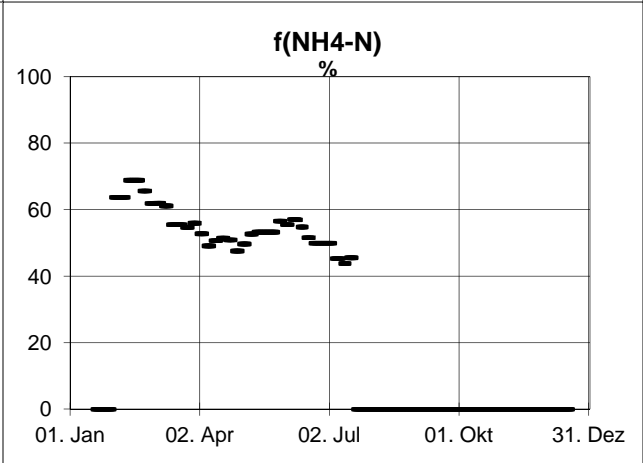
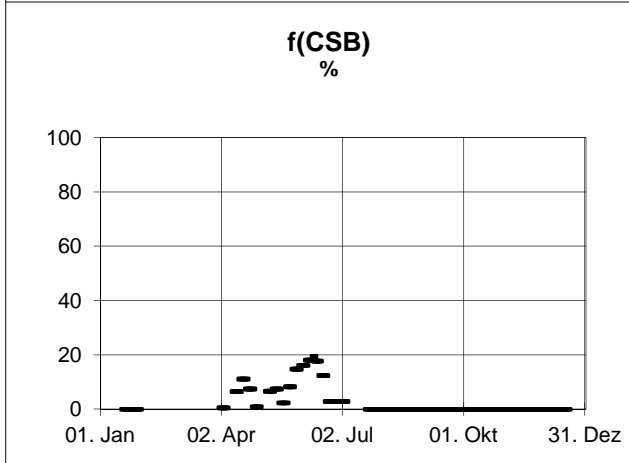
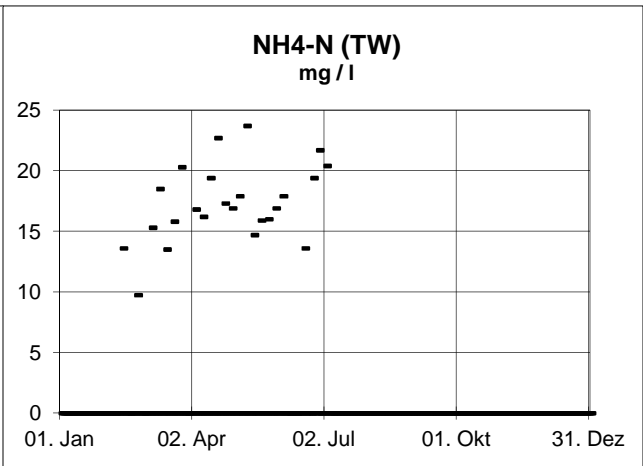
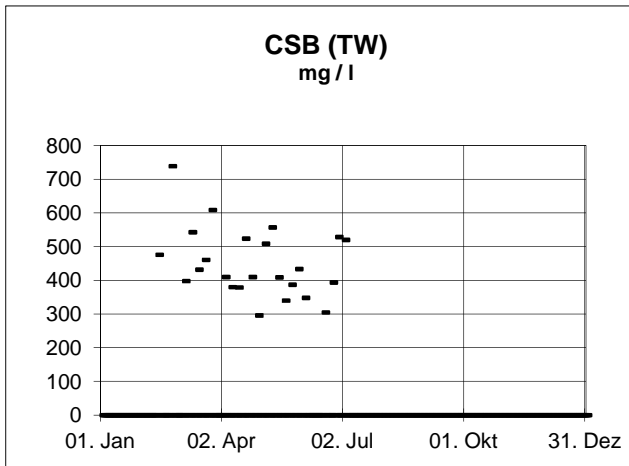
**Fremdwasseranteil 17 %**

siehe Seite 2

	<b>Tagesmittelwerte</b>	
	<b>m3 / d</b>	<b>l / s</b>
<b>Q tw</b>	11'599	134
<b>Q fremd</b> 2)	2'024	23
<b>Q schmutz</b> 3)	9'575	111

2) = Q tw \* Fremdwasseranteil / 100

3) = 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**

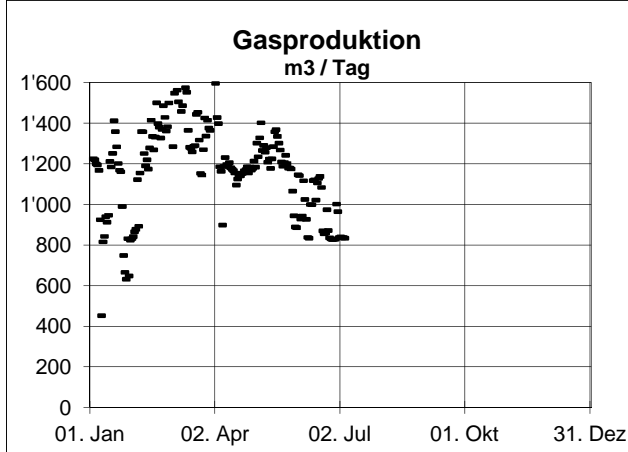
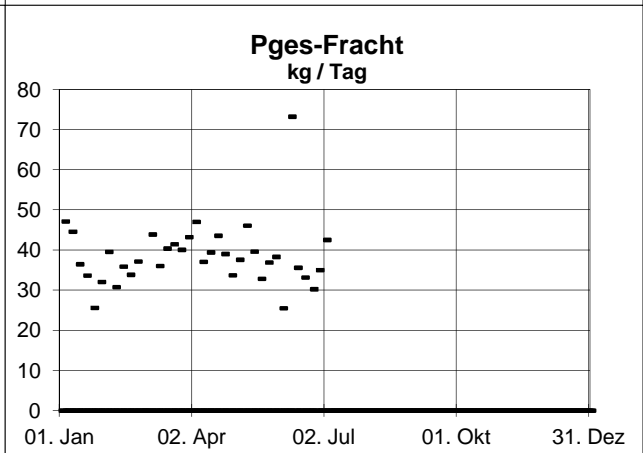
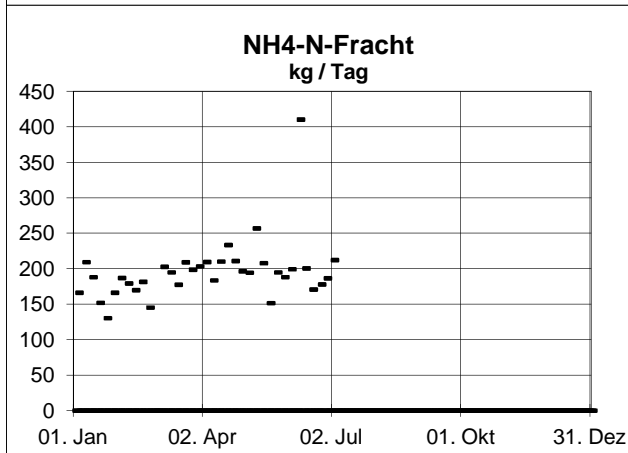
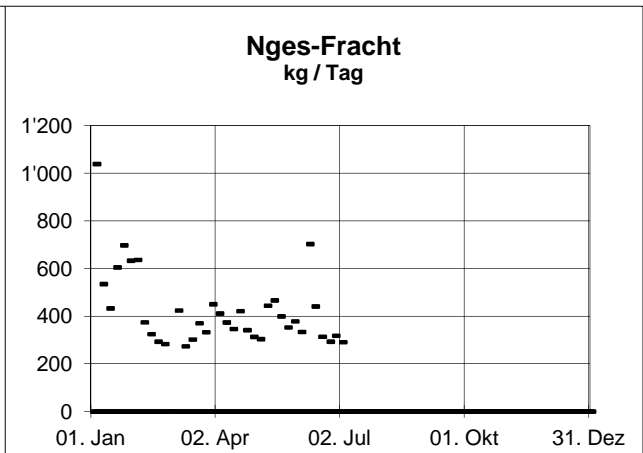
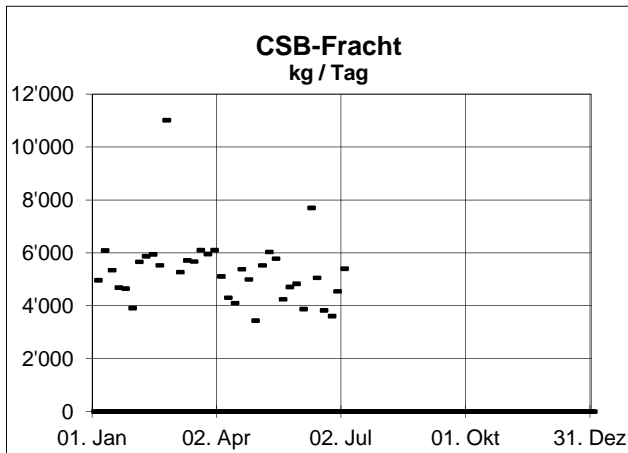
<b>Q tw</b>	11'599	m3 / Tag
<b>Q schmutz (EW) <sup>1)</sup></b>	11'800	m3 / Tag
<b>Q fremd (EW)</b>	-201	m3 / Tag
<b>f (EW)</b>	-2	%

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

**Schätzung aus den Zulaufkonzentrationen:**

<b>f(CSB)</b> Jahresmittel	0	%
<b>f(NH4-N)</b> Jahresmittel	54	%

<b>f Mittelwert</b>	17	%
<b>f gewählt</b>	17	%

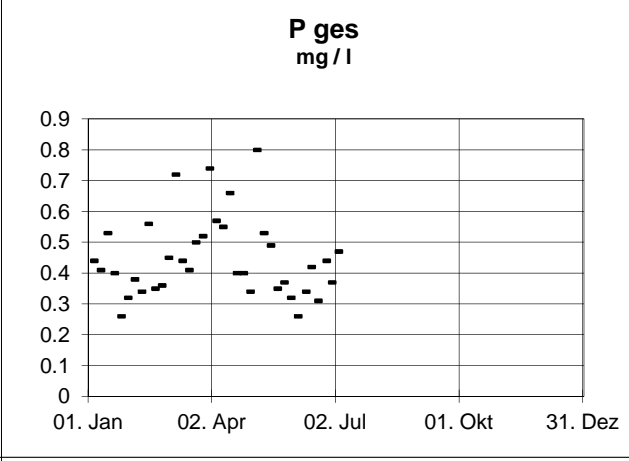
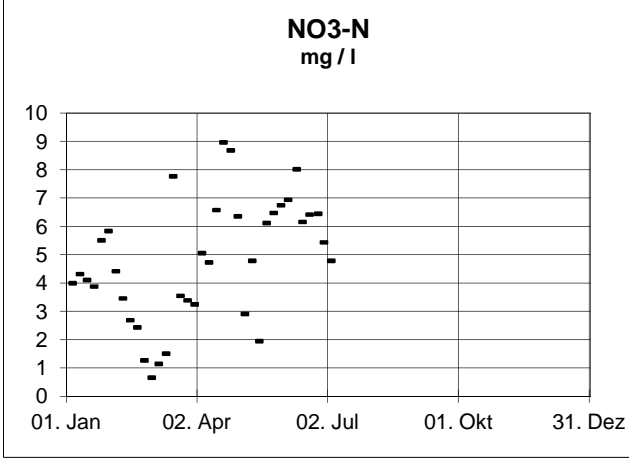
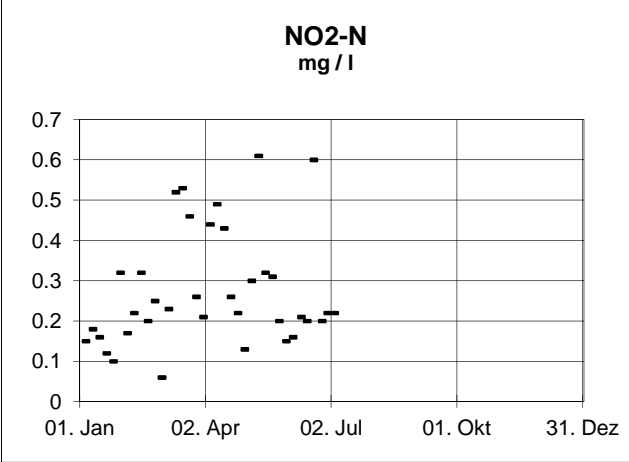
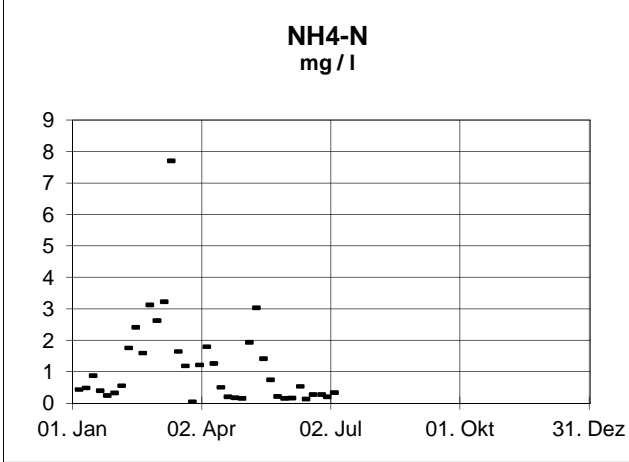
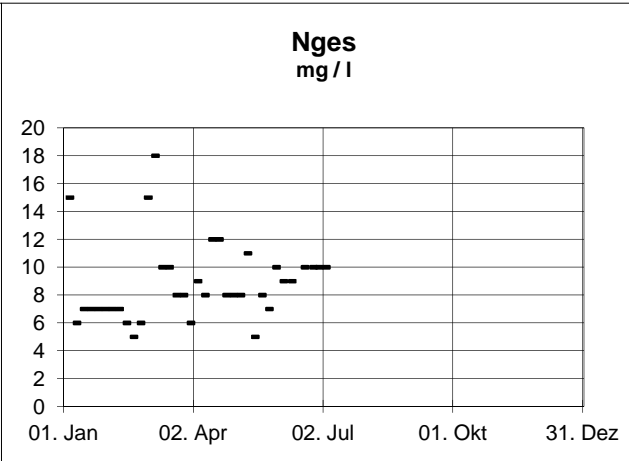
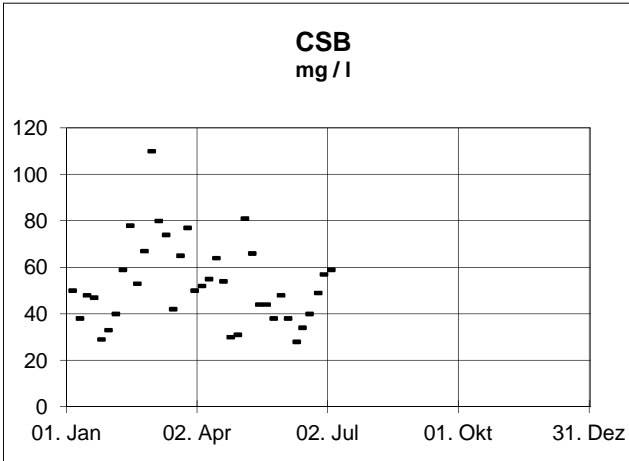


<b>EZ angeschlossen</b>	<b>20'000</b>
<b>EW biochem. gewählt</b>	<b>59'000</b>
<b>EW biochem. 80%-Wert</b>	<b>66'000</b>
<b>EW Stickstoff</b>	<b>26'000</b>
<b>EW Phosphor</b>	<b>24'000</b>

<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>		5'309	196	39	1'177	2'775
<b>50%-Wert</b>		5'314	195	37	1'187	
<b>80%-Wert</b>		5'948	209	43	1'363	

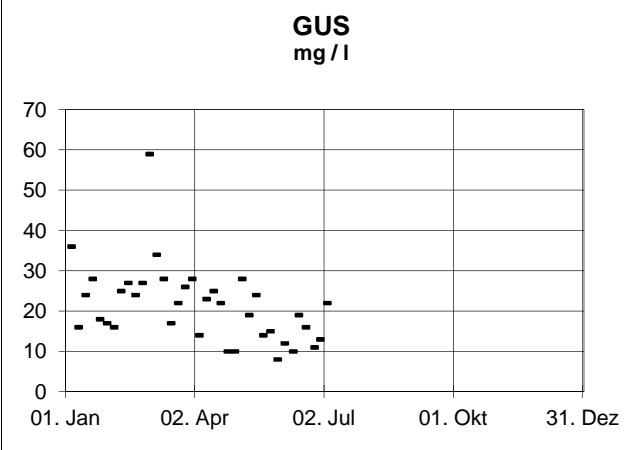
<b>spezifische Belastung pro EW</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>Probenahmeort: ab VKB</b>	<b>l / Tag</b>	<b>g / Tag</b>
	<b>45</b>	<b>90</b>	<b>7.5</b>	<b>1.6</b>		<b>30</b>	<b>85</b>

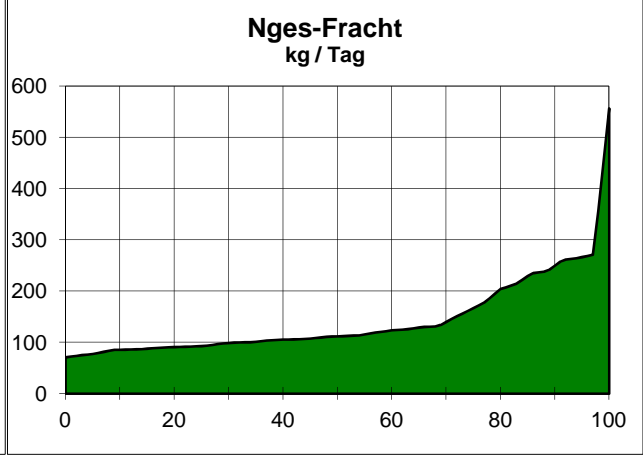
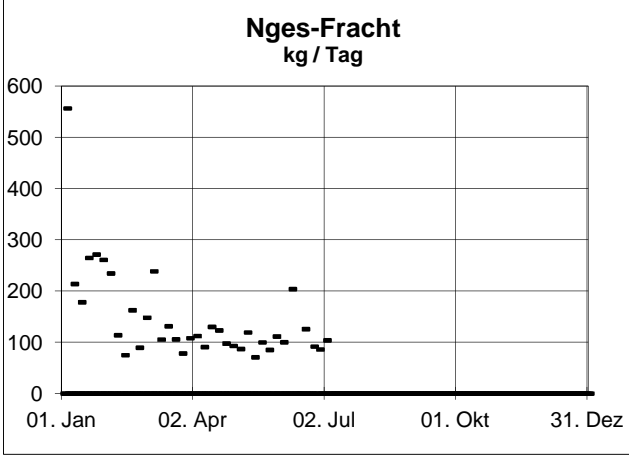
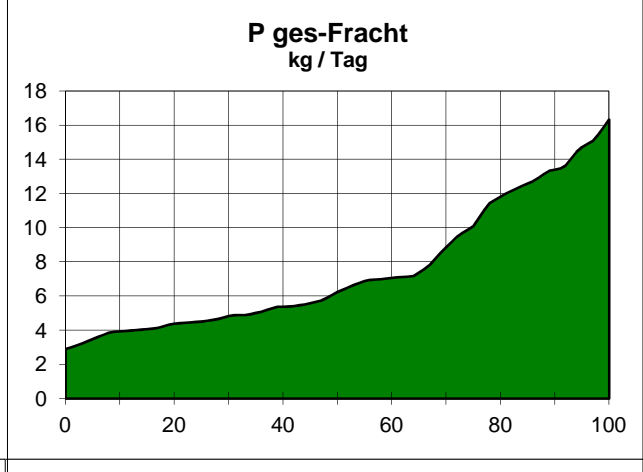
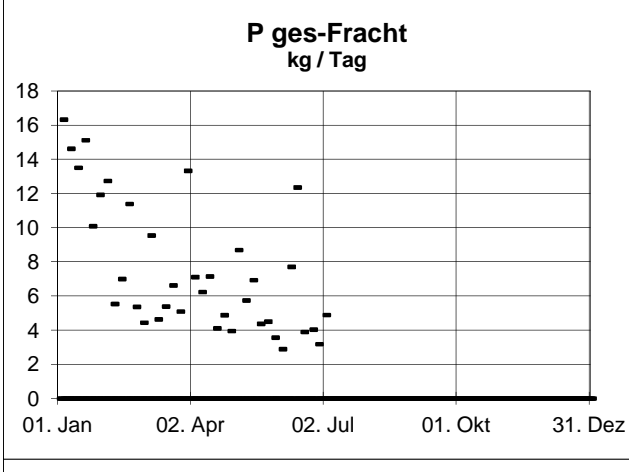
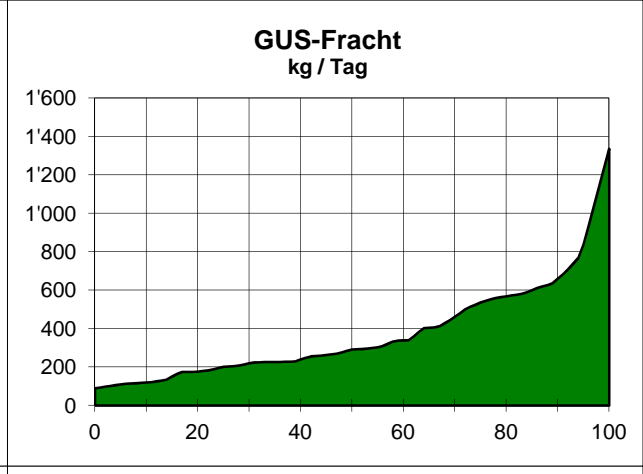
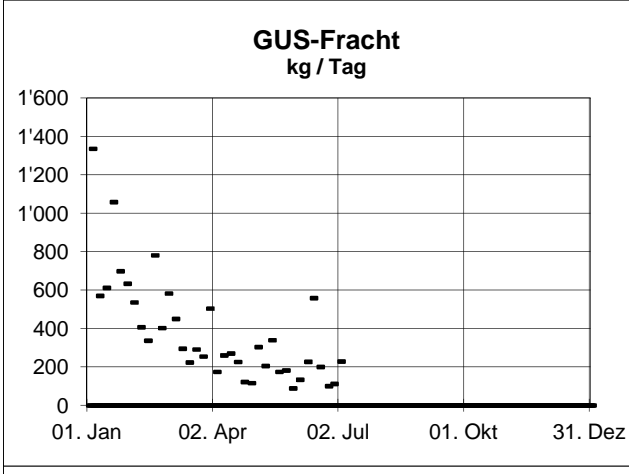
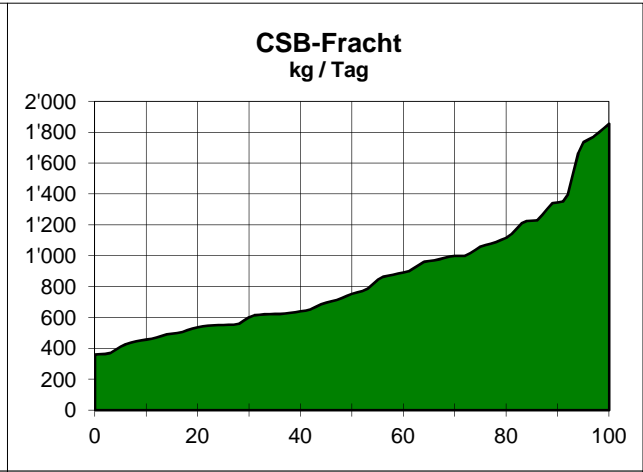
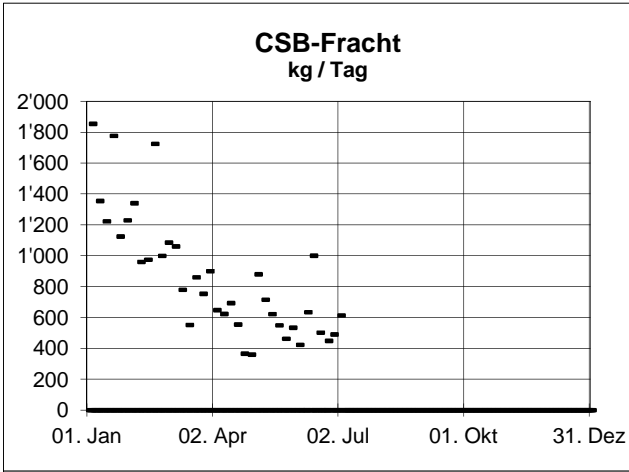
<b>Einwohnerwerte</b>	<b>BSB5 EW</b>	<b>CSB EW</b>	<b>NH4-N EW</b>	<b>Pges EW</b>	<b>Mittelwerte EW</b>	<b>Gasp. EW</b>	<b>FS EW</b>
<b>Mittelwert</b>		58'986	26'139	24'097	36'408	39'228	32'649
<b>50%-Wert</b>		59'046	25'952	23'356	36'118	39'550	
<b>80%-Wert</b>		66'090	27'907	27'012	40'336	45'440	

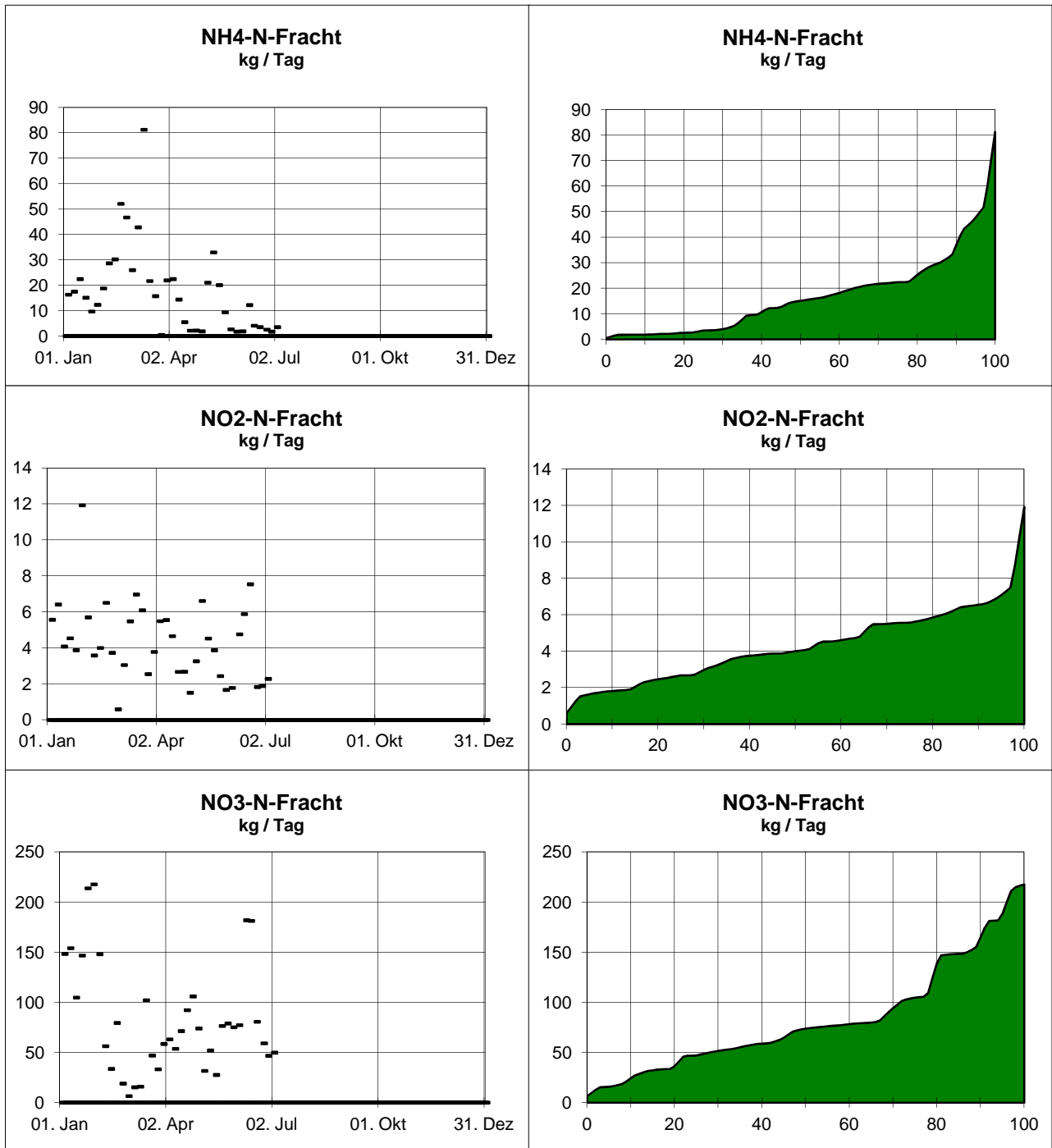


Angaben in mg/l	Mittelwert	90%-Wert	Grenzwert <sup>1)</sup>
<b>BSB5</b>			15
<b>CSB</b>	52.8	77.4	
<b>GUS</b>	21.3	28.0	15
<b>NH4-N</b>	1.2	2.8	2
<b>NO2-N<sup>2)</sup></b>	0.3	0.5	0.3
<b>NO3-N</b>	4.8	7.3	
<b>P ges</b>	0.45	0.61	0.8

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





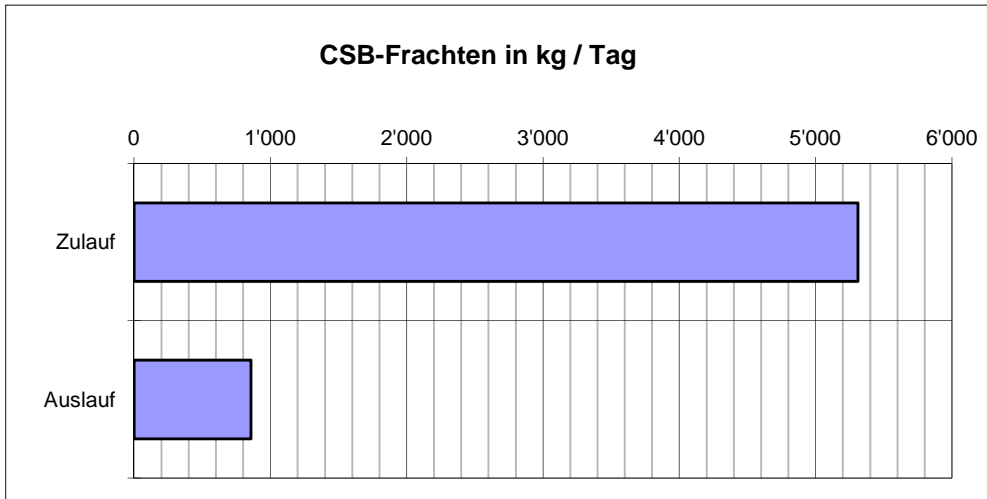


**Auslauffrachten:**

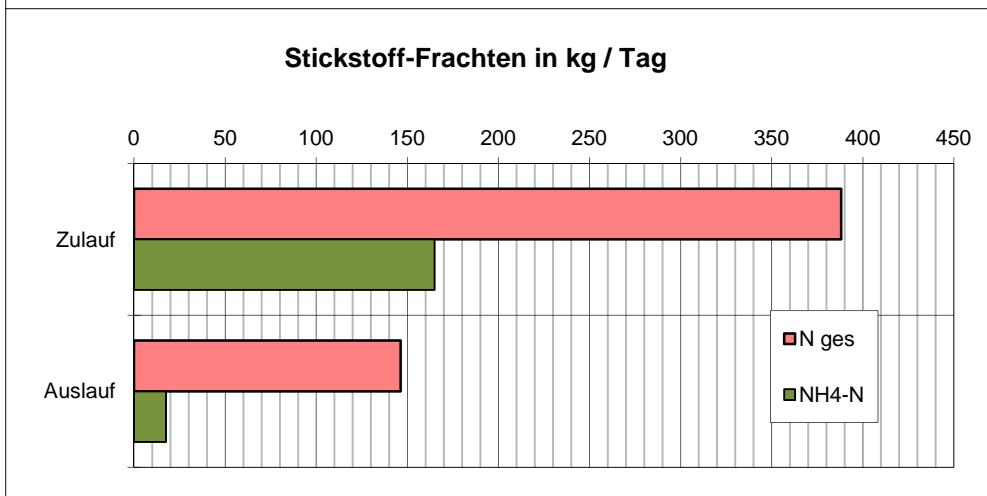
Angaben in kg/Tag	Mittel- wert	50%- Wert	80%- Wert	Mittel 5 - 95 %
<b>CSB</b>	856	754	1'117	826
<b>GUS</b>	378	291	568	346
<b>N ges</b>				
<b>NH4-N</b>	17.5	15.1	25.3	15.4
<b>NO2-N</b>	4.3	4.0	5.8	4.2
<b>NO3-N</b>	83.2	73.9	138.5	79.5
<b>P ges</b>	7.5	6.2	11.8	7.3

**Abbauleistungen:**

	Zulauf kg / Tag	Auslauf kg / Tag	Abbau	Grenz- wert
<b>CSB</b>	5'309	856	84%	80%
<b>N ges</b>	388.1	146.4	62%	30%
<b>NH4-N</b>	165.0	17.5	89%	90%
<b>Pges</b>	38.6	7.5	80%	80%

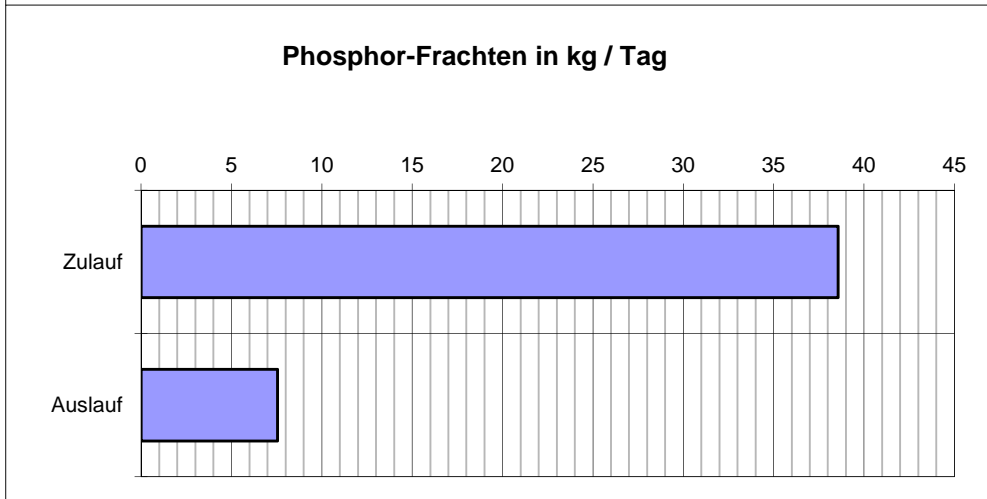


<b>CSB-Abbau</b>	
4'452 kg / Tag	84%
<b>80%</b>	Richtwert

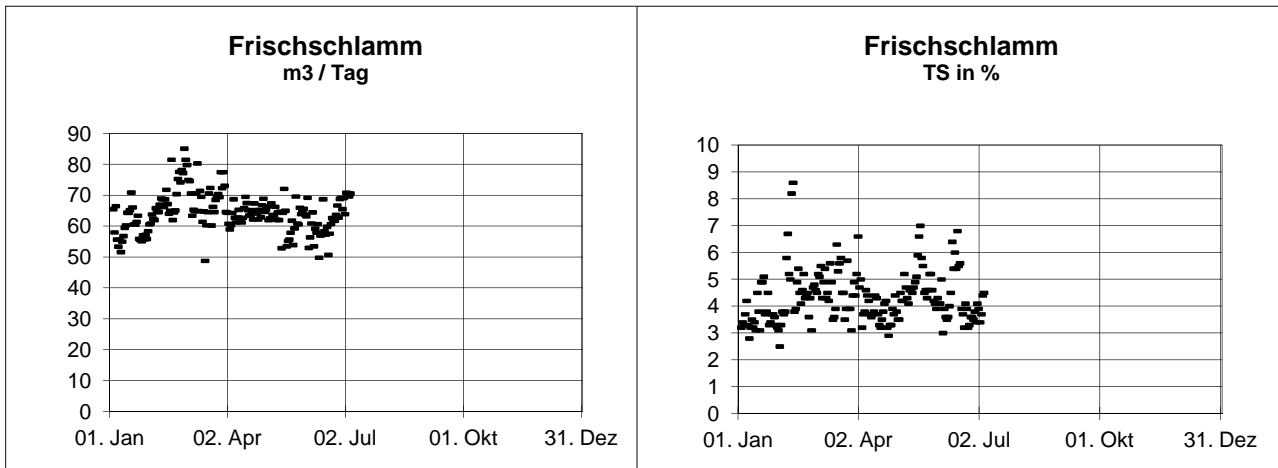


<b>N-Elimination</b>	
242 kg / Tag	62%
<b>30%</b>	

<b>Nitrifikation</b>	
148 kg / Tag	89%
<b>90%</b>	



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

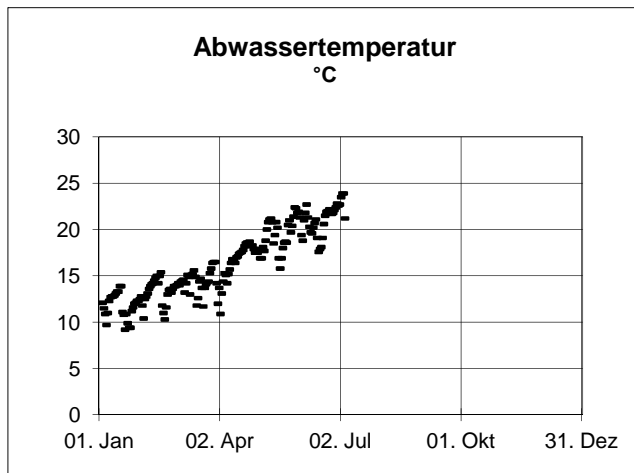


**Frishschlammmanfall: Mittelwerte**

<b>Frishschl. nass</b>	64.3	m <sup>3</sup> /Tag
<b>TS-Anteil</b>	4.3	%
<b>Frishschl. in TS</b>	2'775	kg/Tag

**Jahresanfall**

<b>Frishschl. in TS</b>	1'013	t/ Jahr
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**Abwassertemperatur:**

<b>Mittelwert</b>	16.3 °C
<b>20%-Wert</b>	12.9 °C
<b>50%-Wert</b>	15.7 °C
<b>80%-Wert</b>	20.3 °C

**Bemerkungen zur Datenauswertung:**