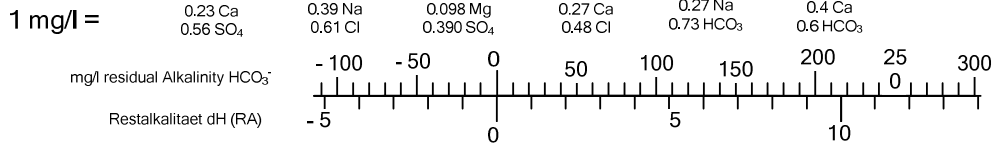
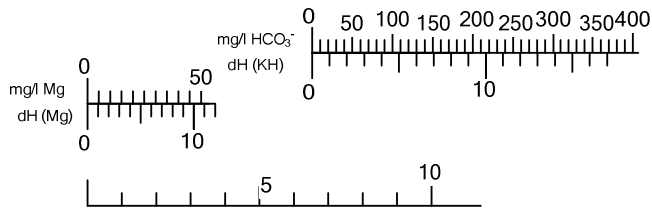


Sud Nummer	Name	Datum
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Wasseraufbereitung								Resultat		
Wasserquelle 1		TDS	%	Wasserquelle 2		TDS	%	Ca ²⁺	Mg ²⁺	HCO ₃ ⁻ (rest)
								mg/l	mg/l	mg/l
Hauptguss	CaSO ₄ ·2H ₂ O	NaCl	MgSO ₄ ·7H ₂ O	CaCl ₂ ·2H ₂ O	NaHCO ₃	CaCO ₃		Na ⁺	SO ₄ ²⁻	RA
	g	g	g	g	g	g	g	mg/l	mg/l	dH
Nachguss	CaSO ₄ ·2H ₂ O	NaCl	MgSO ₄ ·7H ₂ O	CaCl ₂ ·2H ₂ O	NaHCO ₃	CaCO ₃		Cl ⁻	HCO ₃ ⁻	
	g	g	g	g	g	g	g	mg/l	mg/l	

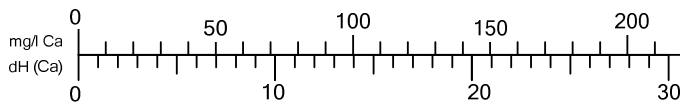


$$RA = KH - \frac{CH + 0.5MH}{3.5}$$



$$1 \text{ dH (KH)} = 21,7 \text{ mg/l HCO}_3^-$$

$$1 \text{ dH (MH)} = 4.33 \text{ mg/l Mg}$$



$$1 \text{ dH (CH)} = 7.14 \text{ mg/l Ca}$$

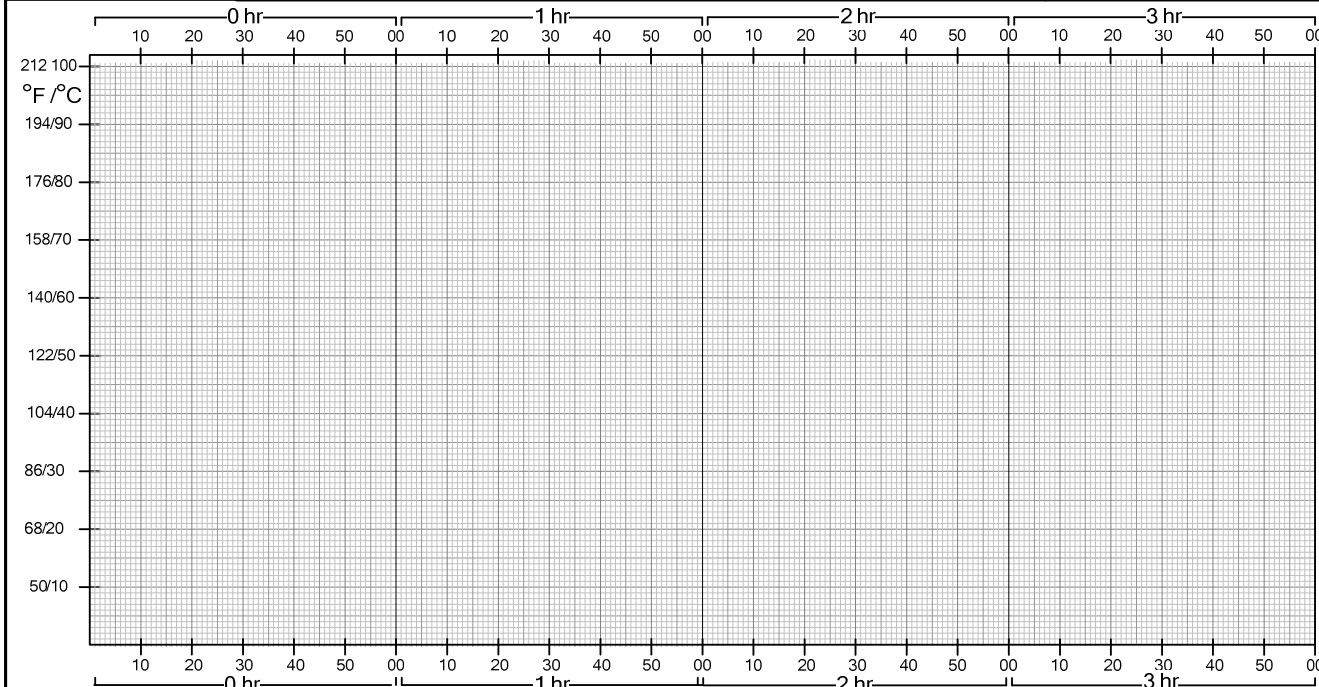
Schüttung konditioniert <input type="checkbox"/>					Sonstiges	
Menge	kg	%	Typ	Hersteller		Spaltweite
						mm
Menge	kg	%	Typ	Hersteller		Spaltweite
						mm
Menge	kg	%	Typ	Hersteller		Spaltweite
						mm
Menge	kg	%	Typ	Hersteller		Spaltweite
						mm
Menge	kg	%	Typ	Hersteller		Spaltweite
					mm	
Total	kg					
Hopfen						
Menge	g	a.-Saeure	IBU	Kochzeit	Typ	
Menge	g	a.-Saeure	IBU	Kochzeit	Typ	
Menge	g	a.-Saeure	IBU	Kochzeit	Typ	
Menge	g	a.-Saeure	IBU	Kochzeit	Typ	
Menge	g	a.-Saeure	IBU	Kochzeit	Typ	
Menge	g	a.-Saeure	IBU	Kochzeit	Typ	
total IBU			IBU Format: <input type="checkbox"/> Tinseth <input type="checkbox"/> Rager <input type="checkbox"/> Garetz <input type="checkbox"/> Other _____			
Hefe						
Typ	Aufzucht				Anstellmenge	



Sud Nummer	Name
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Maische

angestrebt								gemessen	
Rastname	Menge	<input type="checkbox"/> Infusion <input type="checkbox"/> Dekoktion <input type="checkbox"/> Erhitzen	Temperatur	Anstiegszeit	Rasttemperatur	Rastzeit	Schuetting/Guss	Rasttemperatur	pH
	l		°C	min	°C	min	l/kg	°C	
Rastname	Menge	<input type="checkbox"/> Infusion <input type="checkbox"/> Dekoktion <input type="checkbox"/> Erhitzen	Temperatur	Anstiegszeit	Rasttemperatur	Rastzeit	Schuetting/Guss	Rasttemperatur	pH
	l		°C	min	°C	min	l/kg	°C	
Rastname	Menge	<input type="checkbox"/> Infusion <input type="checkbox"/> Dekoktion <input type="checkbox"/> Erhitzen	Temperatur	Anstiegszeit	Rasttemperatur	Rastzeit	Schuetting/Guss	Rasttemperatur	pH
	l		°C	min	°C	min	l/kg	°C	
Rastname	Menge	<input type="checkbox"/> Infusion <input type="checkbox"/> Dekoktion <input type="checkbox"/> Erhitzen	Temperatur	Anstiegszeit	Rasttemperatur	Rastzeit	Schuetting/Guss	Rasttemperatur	pH
	l		°C	min	°C	min	l/kg	°C	
Rastname	Menge	<input type="checkbox"/> Infusion <input type="checkbox"/> Dekoktion <input type="checkbox"/> Erhitzen	Temperatur	Anstiegszeit	Rasttemperatur	Rastzeit	Schuetting/Guss	Rasttemperatur	pH
	l		°C	min	°C	min	l/kg	°C	

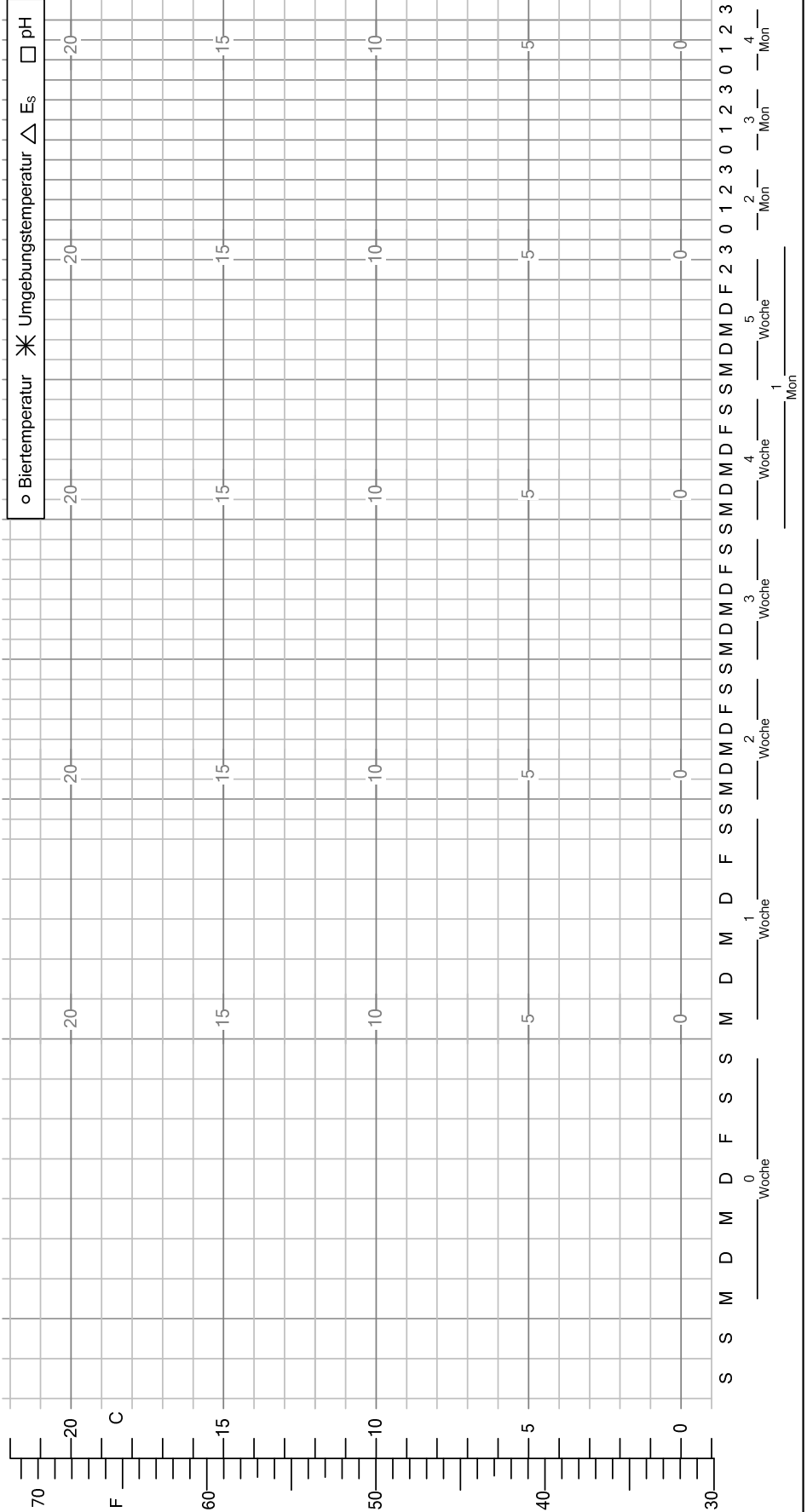


Läutern		Würzekochen				
Läuterwuerze trüb <input type="checkbox"/> klar <input type="checkbox"/> brilliant <input type="checkbox"/>	Pfanne-voll Volumen (heiss)	Pfanne-Voll Extract	Kochzeit	Ausbeute in Pfanne	Pfanne-Voll pH	
	l	°P	min	%		
Anschwänz pH (1. Nachguss)	Anschwänz pH (2. Nachguss)	Ausschlag-Volumen heiss <input type="checkbox"/> kalt <input type="checkbox"/>	Wasserzugabe	Verdampfung	Verdampfungsrate	
		l	l	l	%/h	

Zeit	Kommentar	Zeit	Kommentar

Resultat	Ausschlagmenge	Stammwürze	Ausbeute (bezogen auf Schuetting)	Ausbeute (bezogen auf max Extrakt)
	l	°P	%	%

Sudnummer		Name	
Anstelltemperatur	°C	Anstell pH	
Schnellgaerprobe E _s	°P	EVG	%
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> o Biertemperatur * Umgebungstemperatur Δ E_s □ pH </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="margin-top: 0;">Belüftung</p> <p style="text-align: right; margin-top: 0;">mg/l O₂</p> </div> <div style="width: 45%;"> <p style="margin-top: 0;">Zeit zum Überweißen</p> <p style="text-align: right; margin-top: 0;">h</p> </div> </div>			



Sudnummer	Name																										
Datum	Bemerkung																										
Alter																											
Datum	Bemerkung																										
Alter																											
Datum	Bemerkung																										
Alter																											
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Datum	Bemerkung																										
Alter																											
Datum	Bemerkung																										
Alter																											
Datum	Aroma	Geschmack																									
Alter																											
Stammwürze: Plato	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;">Hopfen</td> <td style="width:10%;">zu wenig</td> <td style="width:80%; text-align:center;"> _____ </td> <td style="width:10%;">zu viel</td> </tr> <tr> <td>Malz</td> <td>zu wenig</td> <td style="text-align:center;"> _____ </td> <td>zu viel</td> </tr> <tr> <td>Andere</td> <td>zu wenig</td> <td style="text-align:center;"> _____ </td> <td>zu viel</td> </tr> </table>	Hopfen	zu wenig	_____	zu viel	Malz	zu wenig	_____	zu viel	Andere	zu wenig	_____	zu viel														
Hopfen		zu wenig	_____	zu viel																							
Malz	zu wenig	_____	zu viel																								
Andere	zu wenig	_____	zu viel																								
E _s : Plato	___/12																										
EVG: %	Erscheinung																										
AVG: %																											
EVG-AVG: %																											
pH:																											
	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;">Farbe</td> <td style="width:10%;">zu wenig</td> <td style="width:80%; text-align:center;"> _____ </td> <td style="width:10%;">zu viel</td> </tr> <tr> <td>Klarheit</td> <td>zu wenig</td> <td style="text-align:center;"> _____ </td> <td>zu viel</td> </tr> <tr> <td>Schaum</td> <td>zu wenig</td> <td style="text-align:center;"> _____ </td> <td>zu viel</td> </tr> </table>	Farbe	zu wenig	_____	zu viel	Klarheit	zu wenig	_____	zu viel	Schaum	zu wenig	_____	zu viel	___/3													
Farbe	zu wenig	_____	zu viel																								
Klarheit	zu wenig	_____	zu viel																								
Schaum	zu wenig	_____	zu viel																								
Verbesserungen		<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;">Bittere</td> <td style="width:10%;">zu wenig</td> <td style="width:80%; text-align:center;"> _____ </td> <td style="width:10%;">zu viel</td> <td style="width:10%;"></td> </tr> <tr> <td>Suesse</td> <td>zu wenig</td> <td style="text-align:center;"> _____ </td> <td>zu viel</td> <td>Geschmack ___/20</td> </tr> <tr> <td>Vollmundig</td> <td>zu wenig</td> <td style="text-align:center;"> _____ </td> <td>zu viel</td> <td>Vollmundig ___/5</td> </tr> <tr> <td>Rezens</td> <td>zu wenig</td> <td style="text-align:center;"> _____ </td> <td>zu viel</td> <td>Gesamteindruck ___/10</td> </tr> <tr> <td colspan="4"></td> <td style="text-align:right;">Total ___/50</td> </tr> </table>	Bittere	zu wenig	_____	zu viel		Suesse	zu wenig	_____	zu viel	Geschmack ___/20	Vollmundig	zu wenig	_____	zu viel	Vollmundig ___/5	Rezens	zu wenig	_____	zu viel	Gesamteindruck ___/10					Total ___/50
Bittere	zu wenig	_____	zu viel																								
Suesse	zu wenig	_____	zu viel	Geschmack ___/20																							
Vollmundig	zu wenig	_____	zu viel	Vollmundig ___/5																							
Rezens	zu wenig	_____	zu viel	Gesamteindruck ___/10																							
				Total ___/50																							



Apparent attenuation

	original extract (%)																					
	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5		20.0
1.00	90.0	90.5	90.9	91.3	91.7	92.0	92.3	92.6	92.9	93.1	93.3	93.5	93.8	93.9	94.1	94.3	94.4	94.6	94.7	94.9	95.0	1.00
1.10	89.0	89.5	90.0	90.4	90.8	91.2	91.5	91.9	92.1	92.4	92.7	92.9	93.1	93.3	93.5	93.7	93.9	94.1	94.2	94.4	94.5	1.10
1.20	88.0	88.6	89.1	89.6	90.0	90.4	90.8	91.1	91.4	91.7	92.0	92.3	92.5	92.7	92.9	93.1	93.3	93.5	93.7	93.8	94.0	1.20
1.30	87.0	87.6	88.2	88.7	89.2	89.6	90.0	90.4	90.7	91.0	91.3	91.6	91.9	92.1	92.4	92.6	92.8	93.0	93.2	93.3	93.5	1.30
1.40	86.0	86.7	87.3	87.8	88.3	88.8	89.2	89.6	90.0	90.3	90.7	91.0	91.3	91.5	91.8	92.0	92.2	92.4	92.6	92.8	93.0	1.40
1.50	85.0	85.7	86.4	87.0	87.5	88.0	88.5	88.9	89.3	89.7	90.0	90.3	90.6	90.9	91.2	91.4	91.7	91.9	92.1	92.3	92.5	1.50
1.60	84.0	84.8	85.5	86.1	86.7	87.2	87.7	88.1	88.6	89.0	89.3	89.7	90.0	90.3	90.6	90.9	91.1	91.4	91.6	91.8	92.0	1.60
1.70	83.0	83.8	84.5	85.2	85.8	86.4	86.9	87.4	87.9	88.3	88.7	89.0	89.4	89.7	90.0	90.3	90.6	90.8	91.1	91.3	91.5	1.70
1.80	82.0	82.9	83.6	84.3	85.0	85.6	86.2	86.7	87.1	87.6	88.0	88.4	88.8	89.1	89.4	89.7	90.0	90.3	90.5	90.8	91.0	1.80
1.90	81.0	81.9	82.7	83.5	84.2	84.8	85.4	85.9	86.4	86.9	87.3	87.7	88.1	88.5	88.8	89.1	89.4	89.7	90.0	90.3	90.5	1.90
2.00	80.0	81.0	81.8	82.6	83.3	84.0	84.6	85.2	85.7	86.2	86.7	87.1	87.5	87.9	88.2	88.6	88.9	89.2	89.5	89.7	90.0	2.00
2.10	79.0	80.0	80.9	81.7	82.5	83.2	83.8	84.4	85.0	85.5	86.0	86.5	86.9	87.3	87.6	88.0	88.3	88.6	88.9	89.2	89.5	2.10
2.20	78.0	79.0	80.0	80.9	81.7	82.4	83.1	83.7	84.3	84.8	85.3	85.8	86.3	86.7	87.1	87.4	87.8	88.1	88.4	88.7	89.0	2.20
2.30	77.0	78.1	79.1	80.0	80.8	81.6	82.3	83.0	83.6	84.1	84.7	85.2	85.6	86.1	86.5	86.9	87.2	87.6	87.9	88.2	88.5	2.30
2.40	76.0	77.1	78.2	79.1	80.0	80.8	81.5	82.2	82.9	83.4	84.0	84.5	85.0	85.5	85.9	86.3	86.7	87.0	87.4	87.7	88.0	2.40
2.50	75.0	76.2	77.3	78.3	79.2	80.0	80.8	81.5	82.1	82.8	83.3	83.9	84.4	84.8	85.3	85.7	86.1	86.5	86.8	87.2	87.5	2.50
2.60	74.0	75.2	76.4	77.4	78.3	79.2	80.0	80.7	81.4	82.1	82.7	83.2	83.8	84.2	84.7	85.1	85.6	85.9	86.3	86.7	87.0	2.60
2.70	73.0	74.3	75.5	76.5	77.5	78.4	79.2	80.0	80.7	81.4	82.0	82.6	83.1	83.6	84.1	84.6	85.0	85.4	85.8	86.2	86.5	2.70
2.80	72.0	73.3	74.5	75.5	76.7	77.6	78.5	79.3	80.0	80.7	81.3	81.9	82.5	83.0	83.5	84.0	84.4	84.9	85.3	85.6	86.0	2.80
2.90	71.0	72.4	73.6	74.8	75.8	76.8	77.7	78.5	79.3	80.0	80.7	81.3	81.9	82.4	82.9	83.4	83.9	84.3	84.7	85.1	85.5	2.90
3.00	70.0	71.4	72.7	73.9	75.0	76.0	76.9	77.8	78.6	79.3	80.0	80.6	81.3	81.8	82.4	82.9	83.3	83.8	84.2	84.6	85.0	3.00
3.10	69.0	70.5	71.8	73.0	74.2	75.2	76.2	77.0	77.9	78.6	79.3	80.0	80.6	81.2	81.8	82.3	82.8	83.2	83.7	84.1	84.5	3.10
3.20	68.0	69.5	70.9	72.2	73.3	74.4	75.4	76.3	77.1	77.9	78.7	79.4	80.0	80.6	81.2	81.7	82.2	82.7	83.2	83.6	84.0	3.20
3.30	67.0	68.6	70.0	71.3	72.5	73.6	74.6	75.6	76.4	77.2	78.0	78.7	79.4	80.0	80.6	81.1	81.7	82.2	82.6	83.1	83.5	3.30
3.40	66.0	67.6	69.1	70.4	71.7	72.8	73.8	74.8	75.7	76.6	77.3	78.1	78.8	79.4	80.0	80.6	81.1	81.6	82.1	82.6	83.0	3.40
3.50	65.0	66.7	68.2	69.6	70.8	72.0	73.1	74.1	75.0	75.9	76.7	77.4	78.1	78.8	79.4	80.0	80.6	81.1	81.6	82.1	82.5	3.50
3.60	64.0	65.7	67.3	68.7	70.0	71.2	72.3	73.3	74.3	75.2	76.0	76.8	77.5	78.2	78.8	79.4	80.0	80.5	81.1	81.5	82.0	3.60
3.70	63.0	64.8	66.4	67.8	69.2	70.4	71.5	72.6	73.6	74.5	75.3	76.1	76.9	77.6	78.2	78.9	79.4	80.0	80.5	81.0	81.5	3.70
3.80	62.0	63.8	65.5	67.0	68.3	69.6	70.8	71.9	72.9	73.8	74.7	75.5	76.3	77.0	77.6	78.3	78.9	79.5	80.0	80.5	81.0	3.80
3.90	61.0	62.9	64.5	66.1	67.5	68.8	70.0	71.1	72.1	73.1	74.0	74.8	75.6	76.4	77.1	77.7	78.3	78.9	79.5	80.0	80.5	3.90
4.00	60.0	61.9	63.6	65.2	66.7	68.0	69.2	70.4	71.4	72.4	73.3	74.2	75.0	75.8	76.5	77.1	77.8	78.4	78.9	79.5	80.0	4.00
4.25	57.5	59.5	61.4	63.0	64.6	66.0	67.3	68.5	69.6	70.7	71.7	72.6	73.4	74.2	75.0	75.7	76.4	77.0	77.6	78.2	78.8	4.25
4.50	55.0	57.1	59.1	60.9	62.5	64.0	65.4	66.7	67.9	69.0	70.0	71.0	71.9	72.7	73.5	74.3	75.0	75.7	76.3	76.9	77.5	4.50
4.75	52.5	54.8	56.8	58.7	60.4	62.0	63.5	64.8	66.1	67.2	68.3	69.4	70.3	71.2	72.1	72.9	73.6	74.3	75.0	75.6	76.3	4.75
5.00	50.0	52.4	54.5	56.5	58.3	60.0	61.5	63.0	64.3	65.5	66.7	67.7	68.8	69.7	70.6	71.4	72.2	73.0	73.7	74.4	75.0	5.00
5.25	47.5	50.0	52.3	54.3	56.3	58.0	59.6	61.1	62.5	63.8	65.0	66.1	67.2	68.2	69.1	70.0	70.8	71.6	72.4	73.1	73.8	5.25
5.50	45.0	47.6	50.0	52.2	54.2	56.0	57.7	59.3	60.7	62.1	63.3	64.5	65.6	66.7	67.6	68.6	69.4	70.3	71.1	71.8	72.5	5.50
5.75	42.5	45.2	47.7	50.0	52.1	54.0	55.8	57.4	58.9	60.3	61.7	62.9	64.1	65.2	66.2	67.1	68.1	68.9	69.7	70.5	71.3	5.75
6.00	40.0	42.9	45.5	47.8	50.0	52.0	53.8	55.6	57.1	58.6	60.0	61.3	62.5	63.6	64.7	65.7	66.7	67.6	68.4	69.2	70.0	6.00
6.25	37.5	40.5	43.2	45.7	47.9	50.0	51.9	53.7	55.4	56.9	58.3	59.7	60.9	62.1	63.2	64.3	65.3	66.2	67.1	67.9	68.8	6.25
6.50	35.0	38.1	40.9	43.5	45.8	48.0	50.0	51.9	53.6	55.2	56.7	58.1	59.4	60.6	61.8	62.9	63.9	64.9	65.8	66.7	67.5	6.50
6.75	32.5	35.7	38.6	41.3	43.8	46.0	48.1	50.0	51.8	53.4	55.0	56.5	57.8	59.1	60.3	61.4	62.5	63.5	64.5	65.4	66.3	6.75
7.00	30.0	33.3	36.4	39.1	41.7	44.0	46.2	48.1	50.0	51.7	53.3	54.8	56.3	57.6	58.8	60.0	61.1	62.2	63.2	64.1	65.0	7.00
7.25	27.5	31.0	34.1	37.0	39.6	42.0	44.2	46.3	48.2	50.0	51.7	53.2	54.7	56.1	57.4	58.6	59.7	60.8	61.8	62.8	63.8	7.25
7.50	25.0	28.6	31.8	34.8	37.5	40.0	42.3	44.4	46.4	48.3	50.0	51.6	53.1	54.5	55.9	57.1	58.3	59.5	60.5	61.5	62.5	7.50
7.75	22.5	26.2	29.5	32.6	35.4	38.0	40.4	42.6	44.6	46.6	48.3	50.0	51.6	53.0	54.4	55.7	56.9	58.1	59.2	60.3	61.3	7.75
8.00	20.0	23.8	27.3	30.4	33.3	36.0	38.5	40.7	42.9	44.8	46.7	48.4	50.0	51.5	52.9	54.3	55.6	56.8	57.9	59.0	60.0	8.00
8.50	15.0	19.0	22.7	26.1	29.2	32.0	34.6	37.0	39.3	41.4	43.3	45.2	46.9	48.5	50.0	51.4	52.8	54.1	55.3	56.4	57.5	8.50
9.00	10.0	14.3	18.2	21.7	25.0	28.0	30.8	33.3	35.7	37.9	40.0	41.9	43.8	45.5	47.1	48.6	50.0	51.4	52.6	53.8	55.0	9.00
9.50	5.0	9.5	13.6	17.4	20.8	24.0	26.9	29.6	32.1	34.5	36.7	38.7	40.6	42.4	44.1	45.7	47.2	48.6	50.0	51.3	52.5	9.50
10.00	0.0	4.8	9.1	13.0	16.7	20.0	23.1	25.9	28.6	31.0	33.3	35.5	37.5	39.4	41.2	42.9	44.4	45.9	47.4	48.7	50.0	10.00
10.50	-	0.0	4.5	8.7	12.5	16.0	19.2	22.2	25.0	27.6	30.0	32.3	34.4	36.4	38.2	40.0	41.7	43.2	44.7	46.2	47.5	10.50
11.00	-	-	0.0	4.3	8.3	12.0	15.4	18.5	21.4	24.1	26.7	29.0	31.3	33.3	35.3	37.1	38.9	40.5	42.1	43.6	45.0	11.00
11.50	-	-	-	0.0	4.2	8.0	11.5	14.8	17.9	20.7	23.3	25.8	28.1	30.3	32.4	34.3	36.1	37.8	39.5	41.0	42.5	11.50
12.00	-	-	-	-	0.0	4.0	7.7	11.1	14.3	17.2	20.0	22.6	25.0	27.3	29.4	31.4	33.3	35.1	36.8	38.5	40.0	12.00
12.50	-	-	-	-	-	0.0	3.8	7.4	10.7	13.8	16.7	19.4	21.9	24.2	26.5	28.6	30.6	32.4	34.2	35.9	37.5	12.50
13.00	-	-	-	-	-	0.0	3.7	7.1	10.3	13.3	16.1	18.8	21.2	23.5	25.7	27.8	29.7	31.6	33.3	35.0	13.00	
13.50	-	-	-	-	-	-	0.0	3.6	6.9	10.0	12											

Real Attenuation

		original extract (%)																																																																				
		10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5			20.0																																														
		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90			3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50	14.00	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00
		73.7	74.1	74.5	74.8	75.1	75.4	75.6	75.9	76.1	76.3	76.5	76.6	76.8	77.0	77.1	77.2	77.4	77.5	77.6	77.7	77.8	1.00																																															
		72.9	73.3	73.7	74.1	74.4	74.7	75.0	75.2	75.5	75.7	75.9	76.1	76.3	76.5	76.6	76.8	76.9	77.0	77.2	77.3	77.4	1.10																																															
		72.1	72.6	73.0	73.4	73.7	74.1	74.4	74.6	74.9	75.1	75.4	75.6	75.8	76.0	76.1	76.3	76.5	76.6	76.7	76.9	77.0	1.20																																															
		71.3	71.8	72.2	72.7	73.0	73.4	73.7	74.0	74.3	74.6	74.8	75.0	75.3	75.5	75.7	75.8	76.0	76.2	76.3	76.5	76.6	1.30																																															
		70.5	71.0	71.5	71.9	72.4	72.7	73.1	73.4	73.7	74.0	74.3	74.5	74.8	75.0	75.2	75.4	75.5	75.7	75.9	76.0	76.2	1.40																																															
		69.6	70.2	70.7	71.2	71.7	72.1	72.5	72.8	73.1	73.4	73.7	74.0	74.2	74.5	74.7	74.9	75.1	75.3	75.5	75.6	75.8	1.50																																															
		68.8	69.4	70.0	70.5	71.0	71.4	71.8	72.2	72.6	72.9	73.2	73.5	73.7	74.0	74.2	74.4	74.6	74.8	75.0	75.2	75.4	1.60																																															
		68.0	68.7	69.3	69.8	70.3	70.8	71.2	71.6	72.0	72.3	72.6	72.9	73.2	73.5	73.7	74.0	74.2	74.4	74.6	74.8	75.0	1.70																																															
		67.2	67.9	68.5	69.1	69.6	70.1	70.6	71.0	71.4	71.8	72.1	72.4	72.7	73.0	73.2	73.5	73.7	73.9	74.2	74.4	74.5	1.80																																															
		66.4	67.1	67.8	68.4	68.9	69.5	69.9	70.4	70.8	71.2	71.5	71.9	72.2	72.5	72.8	73.0	73.3	73.5	73.7	73.9	74.1	1.90																																															
		65.5	66.3	67.0	67.7	68.3	68.8	69.3	69.8	70.2	70.6	71.0	71.3	71.7	72.0	72.3	72.6	72.8	73.1	73.3	73.5	73.7	2.00																																															
		64.7	65.5	66.3	67.0	67.6	68.2	68.7	69.2	69.6	70.1	70.5	70.8	71.2	71.5	71.8	72.1	72.4	72.6	72.9	73.1	73.3	2.10																																															
		63.9	64.8	65.5	66.2	66.9	67.5	68.1	68.6	69.0	69.5	69.9	70.3	70.7	71.0	71.3	71.6	71.9	72.2	72.4	72.7	72.9	2.20																																															
		63.1	64.0	64.8	65.5	66.2	66.8	67.4	68.0	68.5	68.9	69.4	69.8	70.1	70.5	70.8	71.2	71.5	71.7	72.0	72.3	72.5	2.30																																															
		62.3	63.2	64.0	64.8	65.5	66.2	66.8	67.4	67.9	68.4	68.8	69.2	69.6	70.0	70.4	70.7	71.0	71.3	71.6	71.8	72.1	2.40																																															
		61.4	62.4	63.3	64.1	64.9	65.5	66.2	66.7	67.3	67.8	68.3	68.7	69.1	69.5	69.9	70.2	70.5	70.8	71.1	71.4	71.7	2.50																																															
		60.6	61.6	62.6	63.4	64.2	64.9	65.5	66.1	66.7	67.2	67.7	68.2	68.6	69.0	69.4	69.7	70.1	70.4	70.7	71.0	71.3	2.60																																															
		59.8	60.9	61.8	62.7	63.5	64.2	64.9	65.5	66.1	66.7	67.2	67.7	68.1	68.5	68.9	69.3	69.6	70.0	70.3	70.6	70.9	2.70																																															
		59.0	60.1	61.1	62.0	62.8	63.6	64.3	64.9	65.5	66.1	66.6	67.1	67.6	68.0	68.4	68.8	69.2	69.5	69.8	70.2	70.5	2.80																																															
		58.2	59.3	60.3	61.3	62.1	62.9	63.6	64.3	65.0	65.5	66.1	66.6	67.1	67.5	67.9	68.3	68.7	69.1	69.4	69.7	70.0	2.90																																															
		57.3	58.5	59.6	60.5	61.4	62.3	63.0	63.7	64.4	65.0	65.5	66.1	66.6	67.0	67.5	67.9	68.3	68.6	69.0	69.3	69.6	3.00																																															
		56.5	57.7	58.8	59.8	60.8	61.6	62.4	63.1	63.8	64.4	65.0	65.5	66.0	66.5	67.0	67.4	67.8	68.2	68.6	68.9	69.2	3.10																																															
		55.7	57.0	58.1	59.1	60.1	60.9	61.8	62.5	63.2	63.8	64.4	65.0	65.5	66.0	66.5	66.9	67.4	67.8	68.1	68.5	68.8	3.20																																															
		54.9	56.2	57.3	58.4	59.4	60.3	61.1	61.9	62.6	63.3	63.9	64.5	65.0	65.5	66.0	66.5	66.9	67.3	67.7	68.1	68.4	3.30																																															
		54.1	55.4	56.6	57.7	58.7	59.6	60.5	61.3	62.0	62.7	63.4	64.0	64.5	65.0	65.5	66.0	66.4	66.9	67.3	67.6	68.0	3.40																																															
		53.2	54.6	55.9	57.0	58.0	59.0	59.9	60.7	61.4	62.1	62.8	63.4	64.0	64.5	65.1	65.5	66.0	66.4	66.8	67.2	67.6	3.50																																															
		52.4	53.8	55.1	56.3	57.3	58.3	59.2	60.1	60.9	61.6	62.3	62.9	63.5	64.0	64.6	65.1	65.5	66.0	66.4	66.8	67.2	3.60																																															
		51.6	53.1	54.4	55.6	56.7	57.7	58.6	59.5	60.3	61.0	61.7	62.4	63.0	63.6	64.1	64.6	65.1	65.5	66.0	66.4	66.8	3.70																																															
		50.8	52.3	53.6	54.9	56.0	57.0	58.0	58.9	59.7	60.5	61.2	61.8	62.5	63.1	63.6	64.1	64.6	65.1	65.5	66.0	66.4	3.80																																															
		50.0	51.5	52.9	54.1	55.3	56.4	57.3	58.3	59.1	59.9	60.6	61.3	62.0	62.6	63.1	63.7	64.2	64.7	65.1	65.5	65.9	3.90																																															
		49.2	50.7	52.1	53.4	54.6	55.7	56.7	57.6	58.5	59.3	60.1	60.8	61.4	62.1	62.6	63.2	63.7	64.2	64.7	65.1	65.5	4.00																																															
		47.1	48.8	50.3	51.6	52.9	54.1	55.1	56.1	57.1	57.9	58.7	59.5	60.2	60.8	61.4	62.0	62.6	63.1	63.6	64.1	64.5	4.25																																															
		45.1	46.8	48.4	49.9	51.2	52.4	53.6	54.6	55.6	56.5	57.3	58.1	58.9	59.6	60.2	60.9	61.4	62.0	62.5	63.0	63.5	4.50																																															
		43.0	44.9	46.5	48.1	49.5	50.8	52.0	53.1	54.1	55.1	56.0	56.8	57.6	58.3	59.0	59.7	60.3	60.9	61.4	62.0	62.5	4.75																																															
		41.0	42.9	44.7	46.3	47.8	49.2	50.4	51.6	52.7	53.7	54.6	55.5	56.3	57.1	57.8	58.5	59.2	59.8	60.4	60.9	61.4	5.00																																															
		38.9	41.0	42.8	44.5	46.1	47.5	48.8	50.1	51.2	52.3	53.2	54.2	55.0	55.9	56.6	57.3	58.0	58.7	59.3	59.9	60.4	5.25																																															
		36.9	39.0	41.0	42.7	44.4	45.9	47.3	48.5	49.7	50.8	51.9	52.9	53.8	54.6	55.4	56.2	56.9	57.6	58.2	58.8	59.4	5.50																																															
		34.8	37.1	39.1	41.0	42.7	44.2	45.7	47.0	48.3	49.4	50.5	51.5	52.5	53.4	54.2	55.0	55.8	56.5	57.1	57.8	58.4	5.75																																															
		32.8	35.1	37.2	39.2	41.0	42.6	44.1	45.5	46.8	48.0	49.2	50.2	51.2	52.1	53.0	53.8	54.6	55.4	56.1	56.7	57.3	6.00																																															
		30.7	33.2	35.4	37.4	39.3	41.0	42.5	44.0	45.3	46.6	47.8	48.9	49.9	50.9	51.8	52.7	53.5	54.2	55.0	55.7	56.3	6.25																																															
		28.7	31.2	33.5	35.6	37.5	39.3	41.0	42.5	43.9	45.2	46.4	47.6	48.6	49.6	50.6	51.5	52.3	53.1	53.9	54.6	55.3	6.50																																															
		26.6	29.3	31.7	33.8	35.8	37.7	39.4	41.0	42.4	43.8	45.1	46.2	47.4	48.4	49.4	50.3	51.2	52.0	52.8	53.6	54.3	6.75																																															
		24.6	27.3	29.8	32.1	34.1	36.0	37.8	39.4	41.0	42.4	43.7	44.9	46.1	47.2	48.2	49.2	50.1	50.9	51.7	52.5	53.2	7.00																																															
		22.5	25.4	27.9	30.3	32.4	34.4	36.2	37.9	39.5	41.0	42.3	43.6	44.8	45.9	47.0	48.0	48.9	49.8	50.7	51.5	52.2	7.25																																															
		20.5	23.4	26.1	28.5	30.7	32.8	34.7	36.4	38.0	39.5	41.0	42.3	43.5	44.7	45.8	46.8	47.8	48.7	49.6	50.4	51.2	7.50																																															
		18.4	21.5	24.2	26.7	29.0	31.1	33.1	34.9	36.6	38.1	39.6	41.0	42.2	43.4	44.6	45.6	46.6	47.6	48.5	49.4	50.2	7.75																																															
		16.4	19.5	22.3	24.9	27.3	29.5	31.5	33.4	35.1	36.7	38.2	39.6	41.0	42.2	43.4	44.5	45.5	46.5	47.4	48.3	49.2	8.00																																															
		12.3	15.6	18.6	21.4	23.9	26.2	28.4	30.3	32.2	33.9	35.5	37.0	38.4	39.7	41.0	42.1	43.2	44.3	45.3	46.2	47.1	8.50																																															
		8.2	11.7	14.9	17.8	20.5	22.9	25.2	27.3	29.3	31.1	32.8	34.4	35.8	37.2	38.6	39.8	41.0	42.1	43.1	44.1	45.1	9.00																																															
		4.1	7.8	11.2	14.2	17.1	19.7	22.1	24.3	26.3	28.2	30.0	31.7	33.3	34.8	36.1	37.4	38.7	39.9	41.0	42.0	43.0	9.50																																															
		0.0	3.9	7.4	10.7	13.7	16.4	18.9	21.2	23.4	25.4	27.3	29.1	30.7	32.3	33.7	35.1	36.4	37.6	38.8	39.9	41.0	10.00																																															
		-	0.0	3.7	7.1	10.2	13.1	15.8	18.2	20.5	22.6	24.6	26.4	28.2	29.8	31.3	32.8	34.1	35.4	36.6	37.8	38.9	10.50																																															
		-	-	0.0	3.6	6.8	9.8	12.6	15.2	17.6	19.8	21.8	23.8	25.6	27.3	28.9	30.4	31.9	33.2	34.5	35.7	36.9	11.00																																															
		-	-	-	0.0	3.4	6.6	9.5	12.1	14.6	16.9	19.1	21.1	23.0	24.8	26.5	28.1	29.6	31.0	32.3	33.6	34.8	11.50																																															

Alcohol Content (wt %)

		original extract (%)																					
		10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	
apparent extract (%)	1.00	3.8	4.0	4.2	4.4	4.6	4.9	5.1	5.3	5.6	5.8	6.0	6.2	6.5	6.7	7.0	7.2	7.4	7.7	7.9	8.2	8.4	1.00
	1.10	3.7	3.9	4.2	4.4	4.6	4.8	5.1	5.3	5.5	5.7	6.0	6.2	6.4	6.7	6.9	7.1	7.4	7.6	7.9	8.1	8.4	1.10
	1.20	3.7	3.9	4.1	4.3	4.6	4.8	5.0	5.2	5.5	5.7	5.9	6.2	6.4	6.6	6.9	7.1	7.3	7.6	7.8	8.1	8.3	1.20
	1.30	3.6	3.9	4.1	4.3	4.5	4.7	5.0	5.2	5.4	5.7	5.9	6.1	6.4	6.6	6.8	7.1	7.3	7.5	7.8	8.0	8.3	1.30
	1.40	3.6	3.8	4.0	4.3	4.5	4.7	4.9	5.2	5.4	5.6	5.8	6.1	6.3	6.5	6.8	7.0	7.3	7.5	7.7	8.0	8.2	1.40
	1.50	3.6	3.8	4.0	4.2	4.4	4.7	4.9	5.1	5.3	5.6	5.8	6.0	6.3	6.5	6.7	7.0	7.2	7.5	7.7	7.9	8.2	1.50
	1.60	3.5	3.7	4.0	4.2	4.4	4.6	4.8	5.1	5.3	5.5	5.8	6.0	6.2	6.5	6.7	6.9	7.2	7.4	7.6	7.9	8.1	1.60
	1.70	3.5	3.7	3.9	4.1	4.4	4.6	4.8	5.0	5.3	5.5	5.7	5.9	6.2	6.4	6.6	6.9	7.1	7.4	7.6	7.8	8.1	1.70
	1.80	3.4	3.6	3.9	4.1	4.3	4.5	4.8	5.0	5.2	5.4	5.7	5.9	6.1	6.4	6.6	6.8	7.1	7.3	7.6	7.8	8.0	1.80
	1.90	3.4	3.6	3.8	4.0	4.3	4.5	4.7	4.9	5.2	5.4	5.6	5.9	6.1	6.3	6.6	6.8	7.0	7.3	7.5	7.8	8.0	1.90
	2.00	3.3	3.6	3.8	4.0	4.2	4.4	4.7	4.9	5.1	5.4	5.6	5.8	6.0	6.3	6.5	6.8	7.0	7.2	7.5	7.7	8.0	2.00
	2.10	3.3	3.5	3.7	4.0	4.2	4.4	4.6	4.9	5.1	5.3	5.5	5.8	6.0	6.2	6.5	6.7	6.9	7.2	7.4	7.7	7.9	2.10
	2.20	3.3	3.5	3.7	3.9	4.1	4.4	4.6	4.8	5.0	5.3	5.5	5.7	6.0	6.2	6.4	6.7	6.9	7.1	7.4	7.6	7.9	2.20
	2.30	3.2	3.4	3.7	3.9	4.1	4.3	4.5	4.8	5.0	5.2	5.5	5.7	5.9	6.2	6.4	6.6	6.9	7.1	7.3	7.6	7.8	2.30
	2.40	3.2	3.4	3.6	3.8	4.1	4.3	4.5	4.7	5.0	5.2	5.4	5.6	5.9	6.1	6.3	6.6	6.8	7.1	7.3	7.5	7.8	2.40
	2.50	3.1	3.4	3.6	3.8	4.0	4.2	4.5	4.7	4.9	5.1	5.4	5.6	5.8	6.1	6.3	6.5	6.8	7.0	7.3	7.5	7.7	2.50
	2.60	3.1	3.3	3.5	3.8	4.0	4.2	4.4	4.6	4.9	5.1	5.3	5.6	5.8	6.0	6.3	6.5	6.7	7.0	7.2	7.4	7.7	2.60
	2.70	3.1	3.3	3.5	3.7	3.9	4.2	4.4	4.6	4.8	5.1	5.3	5.5	5.7	6.0	6.2	6.4	6.7	6.9	7.2	7.4	7.6	2.70
	2.80	3.0	3.2	3.4	3.7	3.9	4.1	4.3	4.6	4.8	5.0	5.2	5.5	5.7	5.9	6.2	6.4	6.6	6.9	7.1	7.4	7.6	2.80
	2.90	3.0	3.2	3.4	3.6	3.8	4.1	4.3	4.5	4.7	5.0	5.2	5.4	5.7	5.9	6.1	6.4	6.6	6.8	7.1	7.3	7.6	2.90
3.00	2.9	3.1	3.4	3.6	3.8	4.0	4.2	4.5	4.7	4.9	5.2	5.4	5.6	5.8	6.1	6.3	6.6	6.8	7.0	7.3	7.5	3.00	
3.10	2.9	3.1	3.3	3.5	3.8	4.0	4.2	4.4	4.7	4.9	5.1	5.3	5.6	5.8	6.0	6.3	6.5	6.7	7.0	7.2	7.5	3.10	
3.20	2.8	3.1	3.3	3.5	3.7	3.9	4.2	4.4	4.6	4.8	5.1	5.3	5.5	5.8	6.0	6.2	6.5	6.7	6.9	7.2	7.4	3.20	
3.30	2.8	3.0	3.2	3.5	3.7	3.9	4.1	4.3	4.6	4.8	5.0	5.3	5.5	5.7	6.0	6.2	6.4	6.7	6.9	7.1	7.4	3.30	
3.40	2.8	3.0	3.2	3.4	3.6	3.9	4.1	4.3	4.5	4.8	5.0	5.2	5.4	5.7	5.9	6.1	6.4	6.6	6.9	7.1	7.3	3.40	
3.50	2.7	2.9	3.2	3.4	3.6	3.8	4.0	4.3	4.5	4.7	4.9	5.2	5.4	5.6	5.9	6.1	6.3	6.6	6.8	7.1	7.3	3.50	
3.60	2.7	2.9	3.1	3.3	3.5	3.8	4.0	4.2	4.4	4.7	4.9	5.1	5.4	5.6	5.8	6.1	6.3	6.5	6.8	7.0	7.2	3.60	
3.70	2.6	2.9	3.1	3.3	3.5	3.7	4.0	4.2	4.4	4.6	4.9	5.1	5.3	5.5	5.8	6.0	6.2	6.5	6.7	7.0	7.2	3.70	
3.80	2.6	2.8	3.0	3.2	3.5	3.7	3.9	4.1	4.4	4.6	4.8	5.0	5.3	5.5	5.7	6.0	6.2	6.4	6.7	6.9	7.2	3.80	
3.90	2.5	2.8	3.0	3.2	3.4	3.6	3.9	4.1	4.3	4.5	4.8	5.0	5.2	5.5	5.7	5.9	6.2	6.4	6.6	6.9	7.1	3.90	
4.00	2.5	2.7	2.9	3.2	3.4	3.6	3.8	4.0	4.3	4.5	4.7	5.0	5.2	5.4	5.6	5.9	6.1	6.4	6.6	6.8	7.1	4.00	
4.25	2.4	2.6	2.8	3.1	3.3	3.5	3.7	3.9	4.2	4.4	4.6	4.8	5.1	5.3	5.5	5.8	6.0	6.2	6.5	6.7	7.0	4.25	
4.50	2.3	2.5	2.7	3.0	3.2	3.4	3.6	3.8	4.1	4.3	4.5	4.7	5.0	5.2	5.4	5.7	5.9	6.1	6.4	6.6	6.9	4.50	
4.75	2.2	2.4	2.6	2.8	3.1	3.3	3.5	3.7	4.0	4.2	4.4	4.6	4.9	5.1	5.3	5.6	5.8	6.0	6.3	6.5	6.7	4.75	
5.00	2.1	2.3	2.5	2.7	3.0	3.2	3.4	3.6	3.8	4.1	4.3	4.5	4.8	5.0	5.2	5.4	5.7	5.9	6.2	6.4	6.6	5.00	
5.25	2.0	2.2	2.4	2.6	2.9	3.1	3.3	3.5	3.7	4.0	4.2	4.4	4.6	4.9	5.1	5.3	5.6	5.8	6.0	6.3	6.5	5.25	
5.50	1.9	2.1	2.3	2.5	2.7	3.0	3.2	3.4	3.6	3.9	4.1	4.3	4.5	4.8	5.0	5.2	5.5	5.7	5.9	6.2	6.4	5.50	
5.75	1.8	2.0	2.2	2.4	2.6	2.9	3.1	3.3	3.5	3.7	4.0	4.2	4.4	4.7	4.9	5.1	5.4	5.6	5.8	6.1	6.3	5.75	
6.00	1.7	1.9	2.1	2.3	2.5	2.8	3.0	3.2	3.4	3.6	3.9	4.1	4.3	4.5	4.8	5.0	5.2	5.5	5.7	6.0	6.2	6.00	
6.25	1.6	1.8	2.0	2.2	2.4	2.6	2.9	3.1	3.3	3.5	3.8	4.0	4.2	4.4	4.7	4.9	5.1	5.4	5.6	5.8	6.1	6.25	
6.50	1.5	1.7	1.9	2.1	2.3	2.5	2.8	3.0	3.2	3.4	3.7	3.9	4.1	4.3	4.6	4.8	5.0	5.3	5.5	5.7	6.0	6.50	
6.75	1.4	1.6	1.8	2.0	2.2	2.4	2.7	2.9	3.1	3.3	3.5	3.8	4.0	4.2	4.5	4.7	4.9	5.1	5.4	5.6	5.9	6.75	
7.00	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.8	3.0	3.2	3.4	3.7	3.9	4.1	4.3	4.6	4.8	5.0	5.3	5.5	5.7	7.00	
7.25	1.1	1.4	1.6	1.8	2.0	2.2	2.4	2.7	2.9	3.1	3.3	3.6	3.8	4.0	4.2	4.5	4.7	4.9	5.2	5.4	5.6	7.25	
7.50	1.0	1.3	1.5	1.7	1.9	2.1	2.3	2.6	2.8	3.0	3.2	3.4	3.7	3.9	4.1	4.4	4.6	4.8	5.1	5.3	5.5	7.50	
7.75	0.9	1.2	1.4	1.6	1.8	2.0	2.2	2.5	2.7	2.9	3.1	3.3	3.6	3.8	4.0	4.2	4.5	4.7	4.9	5.2	5.4	7.75	
8.00	0.8	1.0	1.3	1.5	1.7	1.9	2.1	2.3	2.6	2.8	3.0	3.2	3.5	3.7	3.9	4.1	4.4	4.6	4.8	5.1	5.3	8.00	
8.50	0.6	0.8	1.1	1.3	1.5	1.7	1.9	2.1	2.4	2.6	2.8	3.0	3.2	3.5	3.7	3.9	4.2	4.4	4.6	4.8	5.1	8.50	
9.00	0.4	0.6	0.8	1.1	1.3	1.5	1.7	1.9	2.1	2.4	2.6	2.8	3.0	3.2	3.5	3.7	3.9	4.2	4.4	4.6	4.9	9.00	
9.50	0.2	0.4	0.6	0.8	1.1	1.3	1.5	1.7	1.9	2.1	2.4	2.6	2.8	3.0	3.3	3.5	3.7	3.9	4.2	4.4	4.6	9.50	
10.00	0.0	0.2	0.4	0.6	0.8	1.1	1.3	1.5	1.7	1.9	2.1	2.4	2.6	2.8	3.0	3.3	3.5	3.7	4.0	4.2	4.4	10.00	
10.50	-	0.0	0.2	0.4	0.6	0.8	1.1	1.3	1.5	1.7	1.9	2.2	2.4	2.6	2.8	3.1	3.3	3.5	3.7	4.0	4.2	10.50	
11.00	-	-	0.0	0.2	0.4	0.6	0.8	1.1	1.3	1.5	1.7	1.9	2.2	2.4	2.6	2.8	3.1	3.3	3.5	3.7	4.0	11.00	
11.50	-	-	-	0.0	0.2	0.4	0.6	0.9	1.1	1.3	1.5	1.7	1.9	2.2	2.4	2.6	2.8	3.1	3.3	3.5	3.8	11.50	
12.00	-	-	-	-	0.0	0.2	0.4	0.6	0.9	1.1	1.3	1.5	1.7	1.9	2.2	2.4	2.6	2.8	3.1	3.3	3.5	12.00	
12.50	-	-	-	-	-	0.0	0.2	0.4	0.6	0.9	1.1	1.3	1.5	1.7	2.0	2.2	2.4	2.6	2.9	3.1	3.3	12.50	
13.00	-	-	-	-	-	-	0.0	0.2	0.4	0.6	0.9	1.1	1.3	1.5	1.7	2.0	2.2	2.4	2.6	2.9	3.1	13.00	
13.50	-	-	-	-	-	-	-	0.0	0.2	0.4	0.6	0.9	1.1	1.3	1.5	1.7	2.0	2.2	2.4	2.6	2.9	13.50	
14.00	-	-	-	-	-	-	-	-	0.0	0.2	0.4	0.6	0.9	1.1	1.3	1.5	1.7	2.0	2.2	2.4	2.7	14.00	
14.50	-	-	-	-	-	-	-	-	-	0.0	0.2	0.4	0.6	0.9	1.1	1.3	1.5	1.8	2.0	2.2	2.4	14.50	
15.00	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.4	0.6	0.9	1.1	1.3	1.5	1.8	2.0	2.2	15.00	
15.50	-	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.5	1.8	2.0	15.50	
16.00	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.5	1.8	16.00	
16.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.5	16.50
17.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.2	0.4	0.7	0.9	1.1	1.3