

AquiferTest 12.0

Pumping & Slug Test Analysis, Interpretation, and Visualization Software



AquiferTest is an easy-to-use software package for analyzing, interpreting and visualizing pumping and slug test data. AquiferTest offers all the tools needed to accurately interpret data from all types of aquifers in all types of test conditions.

Built for hydrogeologists by hydrogeologists, AquiferTest offers an easy-to-use graphical interface:

- Analyze test data from pumping tests, slug tests and Lugeon tests via seamless integration with water level instrumentation.
- A comprehensive suite of analysis methods and solutions suitable for all types of aquifers including confined, unconfined, leaky and fractured aquifers.
- Easily account for various well conditions including wellbore storage, horizontal wells, and single well analyses.
- Predictive water table drawdown at planned well locations, and customizable professional-quality analysis reports.
- Print-ready reports of your data and analyses are automatically generated for you!

AquiferTest Pro provides additional features:


- Advanced pre-processing tools for barometric compensation and trend correction.
- Diagnostic plots and derivative analysis for identifying aquifer conditions from test data.
- Simplified contour plots and streamlines of drawdown solutions, and automatic type curve matching.

AquiferTest Improvements

Version 12 of AquiferTest includes the following improvements:

- **Word Reports:** publish print-ready MS-Word reports of your work in AquiferTest using fully customizable templates for:

Water Level Data

 <div>Waterloo HYDROGEOLOGIC 233 Lakeshore Dr. Suite 100 Waterloo, ON N2K 4B8 CANADA 519-746-1346</div>		<div>OBSERVATION DATA</div> <div><div>Project: Tunnel Project No. 1234 Location: New York Client: ABC</div><div>Date: 5/16/2005 Pumping well: T01 Test Duration: (Duration variable, average rate 0.0027 m/s)</div></div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Level</th><th>Drawdown</th><th>Distance</th></tr></thead><tbody><tr><td>171</td><td>0.29</td><td>0.36</td><td></td></tr><tr><td>173</td><td>0.40</td><td>0.47</td><td></td></tr><tr><td>177</td><td>0.50</td><td>0.57</td><td></td></tr><tr><td>181</td><td>0.70</td><td>0.77</td><td></td></tr><tr><td>185</td><td>0.85</td><td>0.92</td><td></td></tr><tr><td>189</td><td>1.05</td><td>1.12</td><td></td></tr><tr><td>193</td><td>1.25</td><td>1.32</td><td></td></tr><tr><td>197</td><td>1.45</td><td>1.52</td><td></td></tr><tr><td>201</td><td>1.65</td><td>1.72</td><td></td></tr><tr><td>205</td><td>1.85</td><td>1.92</td><td></td></tr><tr><td>209</td><td>2.05</td><td>2.12</td><td></td></tr><tr><td>213</td><td>2.25</td><td>2.32</td><td></td></tr><tr><td>217</td><td>2.45</td><td>2.52</td><td></td></tr><tr><td>221</td><td>2.65</td><td>2.72</td><td></td></tr><tr><td>225</td><td>2.85</td><td>2.92</td><td></td></tr><tr><td>229</td><td>3.05</td><td>3.12</td><td></td></tr><tr><td>233</td><td>3.25</td><td>3.32</td><td></td></tr><tr><td>237</td><td>3.45</td><td>3.52</td><td></td></tr><tr><td>241</td><td>3.65</td><td>3.72</td><td></td></tr><tr><td>245</td><td>3.85</td><td>3.92</td><td></td></tr><tr><td>249</td><td>4.05</td><td>4.12</td><td></td></tr><tr><td>253</td><td>4.25</td><td>4.32</td><td></td></tr><tr><td>257</td><td>4.45</td><td>4.52</td><td></td></tr><tr><td>261</td><td>4.65</td><td>4.72</td><td></td></tr><tr><td>265</td><td>4.85</td><td>4.92</td><td></td></tr><tr><td>269</td><td>5.05</td><td>5.12</td><td></td></tr><tr><td>273</td><td>5.25</td><td>5.32</td><td></td></tr><tr><td>277</td><td>5.45</td><td>5.52</td><td></td></tr><tr><td>281</td><td>5.65</td><td>5.72</td><td></td></tr><tr><td>285</td><td>5.85</td><td>5.92</td><td></td></tr><tr><td>289</td><td>6.05</td><td>6.12</td><td></td></tr><tr><td>293</td><td>6.25</td><td>6.32</td><td></td></tr><tr><td>297</td><td>6.45</td><td>6.52</td><td></td></tr><tr><td>301</td><td>6.65</td><td>6.72</td><td></td></tr><tr><td>305</td><td>6.85</td><td>6.92</td><td></td></tr><tr><td>309</td><td>7.05</td><td>7.12</td><td></td></tr><tr><td>313</td><td>7.25</td><td>7.32</td><td></td></tr><tr><td>317</td><td>7.45</td><td>7.52</td><td></td></tr><tr><td>321</td><td>7.65</td><td>7.72</td><td></td></tr><tr><td>325</td><td>7.85</td><td>7.92</td><td></td></tr><tr><td>329</td><td>8.05</td><td>8.12</td><td></td></tr><tr><td>333</td><td>8.25</td><td>8.32</td><td></td></tr><tr><td>337</td><td>8.45</td><td>8.52</td><td></td></tr><tr><td>341</td><td>8.65</td><td>8.72</td><td></td></tr><tr><td>345</td><td>8.85</td><td>8.92</td><td></td></tr><tr><td>349</td><td>9.05</td><td>9.12</td><td></td></tr><tr><td>353</td><td>9.25</td><td>9.32</td><td></td></tr><tr><td>357</td><td>9.45</td><td>9.52</td><td></td></tr><tr><td>361</td><td>9.65</td><td>9.72</td><td></td></tr><tr><td>365</td><td>9.85</td><td>9.92</td><td></td></tr><tr><td>369</td><td>10.05</td><td>10.12</td><td></td></tr><tr><td>373</td><td>10.25</td><td>10.32</td><td></td></tr><tr><td>377</td><td>10.45</td><td>10.52</td><td></td></tr><tr><td>381</td><td>10.65</td><td>10.72</td><td></td></tr><tr><td>385</td><td>10.85</td><td>10.92</td><td></td></tr><tr><td>389</td><td>11.05</td><td>11.12</td><td></td></tr><tr><td>393</td><td>11.25</td><td>11.32</td><td></td></tr><tr><td>397</td><td>11.45</td><td>11.52</td><td></td></tr><tr><td>401</td><td>11.65</td><td>11.72</td><td></td></tr><tr><td>405</td><td>11.85</td><td>11.92</td><td></td></tr><tr><td>409</td><td>12.05</td><td>12.12</td><td></td></tr><tr><td>413</td><td>12.25</td><td>12.32</td><td></td></tr><tr><td>417</td><td>12.45</td><td>12.52</td><td></td></tr><tr><td>421</td><td>12.65</td><td>12.72</td><td></td></tr><tr><td>425</td><td>12.85</td><td>12.92</td><td></td></tr><tr><td>429</td><td>13.05</td><td>13.12</td><td></td></tr><tr><td>433</td><td>13.25</td><td>13.32</td><td></td></tr><tr><td>437</td><td>13.45</td><td>13.52</td><td></td></tr><tr><td>441</td><td>13.65</td><td>13.72</td><td></td></tr><tr><td>445</td><td>13.85</td><td>13.92</td><td></td></tr><tr><td>449</td><td>14.05</td><td>14.12</td><td></td></tr><tr><td>453</td><td>14.25</td><td>14.32</td><td></td></tr><tr><td>457</td><td>14.45</td><td>14.52</td><td></td></tr><tr><td>461</td><td>14.65</td><td>14.72</td><td></td></tr><tr><td>465</td><td>14.85</td><td>14.92</td><td></td></tr><tr><td>469</td><td>15.05</td><td>15.12</td><td></td></tr><tr><td>473</td><td>15.25</td><td>15.32</td><td></td></tr><tr><td>477</td><td>15.45</td><td>15.52</td><td></td></tr><tr><td>481</td><td>15.65</td><td>15.72</td><td></td></tr><tr><td>485</td><td>15.85</td><td>15.92</td><td></td></tr><tr><td>489</td><td>16.05</td><td>16.12</td><td></td></tr><tr><td>493</td><td>16.25</td><td>16.32</td><td></td></tr><tr><td>497</td><td>16.45</td><td>16.52</td><td></td></tr><tr><td>501</td><td>16.65</td><td>16.72</td><td></td></tr><tr><td>505</td><td>16.85</td><td>16.92</td><td></td></tr><tr><td>509</td><td>17.05</td><td>17.12</td><td></td></tr><tr><td>513</td><td>17.25</td><td>17.32</td><td></td></tr><tr><td>517</td><td>17.45</td><td>17.52</td><td></td></tr><tr><td>521</td><td>17.65</td><td>17.72</td><td></td></tr><tr><td>525</td><td>17.85</td><td>17.92</td><td></td></tr><tr><td>529</td><td>18.05</td><td>18.12</td><td></td></tr><tr><td>533</td><td>18.25</td><td>18.32</td><td></td></tr><tr><td>537</td><td>18.45</td><td>18.52</td><td></td></tr><tr><td>541</td><td>18.65</td><td>18.72</td><td></td></tr><tr><td>545</td><td>18.85</td><td>18.92</td><td></td></tr><tr><td>549</td><td>19.05</td><td>19.12</td><td></td></tr><tr><td>553</td><td>19.25</td><td>19.32</td><td></td></tr><tr><td>557</td><td>19.45</td><td>19.52</td><td></td></tr><tr><td>561</td><td>19.65</td><td>19.72</td><td></td></tr><tr><td>565</td><td>19.85</td><td>19.92</td><td></td></tr><tr><td>569</td><td>20.05</td><td>20.12</td><td></td></tr><tr><td>573</td><td>20.25</td><td>20.32</td><td></td></tr><tr><td>577</td><td>20.45</td><td>20.52</td><td></td></tr><tr><td>581</td><td>20.65</td><td>20.72</td><td></td></tr><tr><td>585</td><td>20.85</td><td>20.92</td><td></td></tr><tr><td>589</td><td>21.05</td><td>21.12</td><td></td></tr><tr><td>593</td><td>21.25</td><td>21.32</td><td></td></tr><tr><td>597</td><td>21.45</td><td>21.52</td><td></td></tr><tr><td>601</td><td>21.65</td><td>21.72</td><td></td></tr><tr><td>605</td><td>21.85</td><td>21.92</td><td></td></tr><tr><td>609</td><td>22.05</td><td>22.12</td><td></td></tr><tr><td>613</td><td>22.25</td><td>22.32</td><td></td></tr><tr><td>617</td><td>22.45</td><td>22.52</td><td></td></tr><tr><td>621</td><td>22.65</td><td>22.72</td><td></td></tr><tr><td>625</td><td>22.85</td><td>22.92</td><td></td></tr><tr><td>629</td><td>23.05</td><td>23.12</td><td></td></tr><tr><td>633</td><td>23.25</td><td>23.32</td><td></td></tr><tr><td>637</td><td>23.45</td><td>23.52</td><td></td></tr><tr><td>641</td><td>23.65</td><td>23.72</td><td></td></tr><tr><td>645</td><td>23.85</td><td>23.92</td><td></td></tr><tr><td>649</td><td>24.05</td><td>24.12</td><td></td></tr><tr><td>653</td><td>24.25</td><td>24.32</td><td></td></tr><tr><td>657</td><td>24.45</td><td>24.52</td><td></td></tr><tr><td>661</td><td>24.65</td><td>24.72</td><td></td></tr><tr><td>665</td><td>24.85</td><td>24.92</td><td></td></tr><tr><td>669</td><td>25.05</td><td>25.12</td><td></td></tr><tr><td>673</td><td>25.25</td><td>25.32</td><td></td></tr><tr><td>677</td><td>25.45</td><td>25.52</td><td></td></tr><tr><td>681</td><td>25.65</td><td>25.72</td><td></td></tr><tr><td>685</td><td>25.85</td><td>25.92</td><td></td></tr><tr><td>689</td><td>26.05</td><td>26.12</td><td></td></tr><tr><td>693</td><td>26.25</td><td>26.32</td><td></td></tr><tr><td>697</td><td>26.45</td><td>26.52</td><td></td></tr><tr><td>701</td><td>26.65</td><td>26.72</td><td></td></tr><tr><td>705</td><td>26.85</td><td>26.92</td><td></td></tr><tr><td>709</td><td>27.05</td><td>27.12</td><td></td></tr><tr><td>713</td><td>27.25</td><td>27.32</td><td></td></tr><tr><td>717</td><td>27.45</td><td>27.52</td><td></td></tr><tr><td>721</td><td>27.65</td><td>27.72</td><td></td></tr><tr><td>725</td><td>27.85</td><td>27.92</td><td></td></tr><tr><td>729</td><td>28.05</td><td>28.12</td><td></td></tr><tr><td>733</td><td>28.25</td><td>28.32</td><td></td></tr><tr><td>737</td><td>28.45</td><td>28.52</td><td></td></tr><tr><td>741</td><td>28.65</td><td>28.72</td><td></td></tr><tr><td>745</td><td>28.85</td><td>28.92</td><td></td></tr><tr><td>749</td><td>29.05</td><td>29.12</td><td></td></tr><tr><td>753</td><td>29.25</td><td>29.32</td><td></td></tr><tr><td>757</td><td>29.45</td><td>29.52</td><td></td></tr><tr><td>761</td><td>29.65</td><td>29.72</td><td></td></tr><tr><td>765</td><td>29.85</td><td>29.92</td><td></td></tr><tr><td>769</td><td>30.05</td><td>30.12</td><td></td></tr><tr><td>773</td><td>30.25</td><td>30.32</td><td></td></tr><tr><td>777</td><td>30.45</td><td>30.52</td><td></td></tr><tr><td>781</td><td>30.65</td><td>30.72</td><td></td></tr><tr><td>785</td><td>30.85</td><td>30.92</td><td></td></tr><tr><td>789</td><td>31.05</td><td>31.12</td><td></td></tr><tr><td>793</td><td>31.25</td><td>31.32</td><td></td></tr><tr><td>797</td><td>31.45</td><td>31.52</td><td></td></tr><tr><td>801</td><td>31.65</td><td>31.72</td><td></td></tr><tr><td>805</td><td>31.85</td><td>31.92</td><td></td></tr><tr><td>809</td><td>32.05</td><td>32.12</td><td></td></tr><tr><td>813</td><td>32.25</td><td>32.32</td><td></td></tr><tr><td>817</td><td>32.45</td><td>32.52</td><td></td></tr><tr><td>821</td><td>32.65</td><td>32.72</td><td></td></tr><tr><td>825</td><td>32.85</td><td>32.92</td><td></td></tr><tr><td>829</td><td>33.05</td><td>33.12</td><td></td></tr><tr><td>833</td><td>33.25</td><td>33.32</td><td></td></tr><tr><td>837</td><td>33.45</td><td>33.52</td><td></td></tr><tr><td>841</td><td>33.65</td><td>33.72</td><td></td></tr><tr><td>845</td><td>33.85</td><td>33.92</td><td></td></tr><tr><td>849</td><td>34.05</td><td>34.12</td><td></td></tr><tr><td>853</td><td>34.25</td><td>34.32</td><td></td></tr><tr><td>857</td><td>34.45</td><td>34.52</td><td></td></tr><tr><td>861</td><td>34.65</td><td>34.72</td><td></td></tr><tr><td>865</td><td>34.85</td><td>34.92</td><td></td></tr><tr><td>869</td><td>35.05</td><td>35.12</td><td></td></tr><tr><td>873</td><td>35.25</td><td>35.32</td><td></td></tr><tr><td>877</td><td>35.45</td><td>35.52</td><td></td></tr><tr><td>881</td><td>35.65</td><td>35.72</td><td></td></tr><tr><td>885</td><td>35.85</td><td>35.92</td><td></td></tr><tr><td>889</td><td>36.05</td><td>36.12</td><td></td></tr><tr><td>893</td><td>36.25</td><td>36.32</td><td></td></tr><tr><td>897</td><td>36.45</td><td>36.52</td><td></td></tr><tr><td>901</td><td>36.65</td><td>36.72</td><td></td></tr><tr><td>905</td><td>36.85</td><td>36.92</td><td></td></tr><tr><td>909</td><td>37.05</td><td>37.12</td><td></td></tr><tr><td>913</td><td>37.25</td><td>37.32</td><td></td></tr><tr><td>917</td><td>37.45</td><td>37.52</td><td></td></tr><tr><td>921</td><td>37.65</td><td>37.72</td><td></td></tr><tr><td>925</td><td>37.85</td><td>37.92</td><td></td></tr><tr><td>929</td><td>38.05</td><td>38.12</td><td></td></tr><tr><td>933</td><td>38.25</td><td>38.32</td><td></td></tr><tr><td>937</td><td>38.45</td><td>38.52</td><td></td></tr><tr><td>941</td><td>38.65</td><td>38.72</td><td></td></tr><tr><td>945</td><td>38.85</td><td>38.92</td><td></td></tr><tr><td>949</td><td>39.05</td><td>39.12</td><td></td></tr><tr><td>953</td><td>39.25</td><td>39.32</td><td></td></tr><tr><td>957</td><td>39.45</td><td>39.52</td><td></td></tr><tr><td>961</td><td>39.65</td><td>39.72</td><td></td></tr><tr><td>965</td><td>39.85</td><td>39.92</td><td></td></tr><tr><td>969</td><td>40.05</td><td>40.12</td><td></td></tr><tr><td>973</td><td>40.25</td><td>40.32</td><td></td></tr><tr><td>977</td><td>40.45</td><td>40.52</td><td></td></tr><tr><td>981</td><td>40.65</td><td>40.72</td><td></td></tr><tr><td>985</td><td>40.85</td><td>40.92</td><td></td></tr><tr><td>989</td><td>41.05</td><td>41.12</td><td></td></tr><tr><td>993</td><td>41.25</td><td>41.32</td><td></td></tr><tr><td>997</td><td>41.45</td><td>41.52</td><td></td></tr><tr><td>1001</td><td>41.65</td><td>41.72</td><td></td></tr><tr><td>1005</td><td>41.85</td><td>41.92</td><td></td></tr><tr><td>1009</td><td>42.05</td><td>42.12</td><td></td></tr><tr><td>1013</td><td>42.25</td><td>42.32</td><td></td></tr><tr><td>1017</td><td>42.45</td><td>42.52</td><td></td></tr><tr><td>1021</td><td>42.65</td><td>42.72</td><td></td></tr><tr><td>1025</td><td>42.85</td><td>42.92</td><td></td></tr><tr><td>1029</td><td>43.05</td><td>43.12</td><td></td></tr><tr><td>1033</td><td>43.25</td><td>43.32</td><td></td></tr><tr><td>1037</td><td>43.45</td><td>43.52</td><td></td></tr><tr><td>1041</td><td>43.65</td><td>43.72</td><td></td></tr><tr><td>1045</td><td>43.85</td><td>43.92</td><td></td></tr><tr><td>1049</td><td>44.05</td><td>44.12</td><td></td></tr><tr><td>1053</td><td>44.25</td><td>44.32</td><td></td></tr><tr><td>1057</td><td>44.45</td><td>44.52</td><td></td></tr><tr><td>1061</td><td>44.65</td><td>44.72</td><td></td></tr><tr><td>1065</td><td>44.85</td><td>44.92</td><td></td></tr><tr><td>1069</td><td>45.05</td><td>45.12</td><td></td></tr><tr><td>1073</td><td>45.25</td><td>45.32</td><td></td></tr><tr><td>1077</td><td>45.45</td><td>45.52</td><td></td></tr><tr><td>1081</td><td>45.65</td><td>45.72</td><td></td></tr><tr><td>1085</td><td>45.85</td><td>45.92</td><td></td></tr><tr><td>1089</td><td>46.05</td><td>46.12</td><td></td></tr><tr><td>1093</td><td>46.25</td><td>46.32</td><td></td></tr><tr><td>1097</td><td>46.45</td><td>46.52</td><td></td></tr><tr><td>1101</td><td>46.65</td><td>46.72</td><td></td></tr><tr><td>1105</td><td>46.85</td><td>46.92</td><td></td></tr><tr><td>1109</td><td>47.05</td><td>47.12</td><td></td></tr><tr><td>1113</td><td>47.25</td><td>47.32</td><td></td></tr><tr><td>1117</td><td>47.45</td><td>47.52</td><td></td></tr><tr><td>1121</td><td>47.65</td><td>47.72</td><td></td></tr><tr><td>1125</td><td>47.85</td><td>47.92</td><td></td></tr><tr><td>1129</td><td>48.05</td><td>48.12</td><td></td></tr><tr><td>1133</td><td>48.25</td><td>48.32</td><td></td></tr><tr><td>1137</td><td>48.45</td><td>48.52</td><td></td></tr><tr><td>1141</td><td>48.65</td><td>48.72</td><td></td></tr><tr><td>1145</td><td>48.85</td><td>48.92</td><td></td></tr><tr><td>1149</td><td>49.05</td><td>49.12</td><td></td></tr><tr><td>1153</td><td>49.25</td><td>49.32</td><td></td></tr><tr><td>1157</td><td>49.45</td><td>49.52</td><td></td></tr><tr><td>1161</td><td>49.65</td><td>49.72</td><td></td></tr><tr><td>1165</td><td>49.85</td><td>49.92</td><td></td></tr><tr><td>1169</td><td>50.05</td><td>50.12</td><td></td></tr><tr><td>1173</td><td>50.25</td><td>50.32</td><td></td></tr><tr><td>1177</td><td>50.45</td><td>50.52</td><td></td></tr><tr><td>1181</td><td>50.65</td><td>50.72</td><td></td></tr><tr><td>1185</td><td>50.85</td><td>50.92</td><td></td></tr><tr><td>1189</td><td>51.05</td><td>51.12</td><td></td></tr><tr><td>1193</td><td>51.25</td><td>51.32</td><td></td></tr><tr><td>1197</td><td>51.45</td><td>51.52</td><td></td></tr><tr><td>1201</td><td>5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Level	Drawdown	Distance	171	0.29	0.36		173	0.40	0.47		177	0.50	0.57		181	0.70	0.77		185	0.85	0.92		189	1.05	1.12		193	1.25	1.32		197	1.45	1.52		201	1.65	1.72		205	1.85	1.92		209	2.05	2.12		213	2.25	2.32		217	2.45	2.52		221	2.65	2.72		225	2.85	2.92		229	3.05	3.12		233	3.25	3.32		237	3.45	3.52		241	3.65	3.72		245	3.85	3.92		249	4.05	4.12		253	4.25	4.32		257	4.45	4.52		261	4.65	4.72		265	4.85	4.92		269	5.05	5.12		273	5.25	5.32		277	5.45	5.52		281	5.65	5.72		285	5.85	5.92		289	6.05	6.12		293	6.25	6.32		297	6.45	6.52		301	6.65	6.72		305	6.85	6.92		309	7.05	7.12		313	7.25	7.32		317	7.45	7.52		321	7.65	7.72		325	7.85	7.92		329	8.05	8.12		333	8.25	8.32		337	8.45	8.52		341	8.65	8.72		345	8.85	8.92		349	9.05	9.12		353	9.25	9.32		357	9.45	9.52		361	9.65	9.72		365	9.85	9.92		369	10.05	10.12		373	10.25	10.32		377	10.45	10.52		381	10.65	10.72		385	10.85	10.92		389	11.05	11.12		393	11.25	11.32		397	11.45	11.52		401	11.65	11.72		405	11.85	11.92		409	12.05	12.12		413	12.25	12.32		417	12.45	12.52		421	12.65	12.72		425	12.85	12.92		429	13.05	13.12		433	13.25	13.32		437	13.45	13.52		441	13.65	13.72		445	13.85	13.92		449	14.05	14.12		453	14.25	14.32		457	14.45	14.52		461	14.65	14.72		465	14.85	14.92		469	15.05	15.12		473	15.25	15.32		477	15.45	15.52		481	15.65	15.72		485	15.85	15.92		489	16.05	16.12		493	16.25	16.32		497	16.45	16.52		501	16.65	16.72		505	16.85	16.92		509	17.05	17.12		513	17.25	17.32		517	17.45	17.52		521	17.65	17.72		525	17.85	17.92		529	18.05	18.12		533	18.25	18.32		537	18.45	18.52		541	18.65	18.72		545	18.85	18.92		549	19.05	19.12		553	19.25	19.32		557	19.45	19.52		561	19.65	19.72		565	19.85	19.92		569	20.05	20.12		573	20.25	20.32		577	20.45	20.52		581	20.65	20.72		585	20.85	20.92		589	21.05	21.12		593	21.25	21.32		597	21.45	21.52		601	21.65	21.72		605	21.85	21.92		609	22.05	22.12		613	22.25	22.32		617	22.45	22.52		621	22.65	22.72		625	22.85	22.92		629	23.05	23.12		633	23.25	23.32		637	23.45	23.52		641	23.65	23.72		645	23.85	23.92		649	24.05	24.12		653	24.25	24.32		657	24.45	24.52		661	24.65	24.72		665	24.85	24.92		669	25.05	25.12		673	25.25	25.32		677	25.45	25.52		681	25.65	25.72		685	25.85	25.92		689	26.05	26.12		693	26.25	26.32		697	26.45	26.52		701	26.65	26.72		705	26.85	26.92		709	27.05	27.12		713	27.25	27.32		717	27.45	27.52		721	27.65	27.72		725	27.85	27.92		729	28.05	28.12		733	28.25	28.32		737	28.45	28.52		741	28.65	28.72		745	28.85	28.92		749	29.05	29.12		753	29.25	29.32		757	29.45	29.52		761	29.65	29.72		765	29.85	29.92		769	30.05	30.12		773	30.25	30.32		777	30.45	30.52		781	30.65	30.72		785	30.85	30.92		789	31.05	31.12		793	31.25	31.32		797	31.45	31.52		801	31.65	31.72		805	31.85	31.92		809	32.05	32.12		813	32.25	32.32		817	32.45	32.52		821	32.65	32.72		825	32.85	32.92		829	33.05	33.12		833	33.25	33.32		837	33.45	33.52		841	33.65	33.72		845	33.85	33.92		849	34.05	34.12		853	34.25	34.32		857	34.45	34.52		861	34.65	34.72		865	34.85	34.92		869	35.05	35.12		873	35.25	35.32		877	35.45	35.52		881	35.65	35.72		885	35.85	35.92		889	36.05	36.12		893	36.25	36.32		897	36.45	36.52		901	36.65	36.72		905	36.85	36.92		909	37.05	37.12		913	37.25	37.32		917	37.45	37.52		921	37.65	37.72		925	37.85	37.92		929	38.05	38.12		933	38.25	38.32		937	38.45	38.52		941	38.65	38.72		945	38.85	38.92		949	39.05	39.12		953	39.25	39.32		957	39.45	39.52		961	39.65	39.72		965	39.85	39.92		969	40.05	40.12		973	40.25	40.32		977	40.45	40.52		981	40.65	40.72		985	40.85	40.92		989	41.05	41.12		993	41.25	41.32		997	41.45	41.52		1001	41.65	41.72		1005	41.85	41.92		1009	42.05	42.12		1013	42.25	42.32		1017	42.45	42.52		1021	42.65	42.72		1025	42.85	42.92		1029	43.05	43.12		1033	43.25	43.32		1037	43.45	43.52		1041	43.65	43.72		1045	43.85	43.92		1049	44.05	44.12		1053	44.25	44.32		1057	44.45	44.52		1061	44.65	44.72		1065	44.85	44.92		1069	45.05	45.12		1073	45.25	45.32		1077	45.45	45.52		1081	45.65	45.72		1085	45.85	45.92		1089	46.05	46.12		1093	46.25	46.32		1097	46.45	46.52		1101	46.65	46.72		1105	46.85	46.92		1109	47.05	47.12		1113	47.25	47.32		1117	47.45	47.52		1121	47.65	47.72		1125	47.85	47.92		1129	48.05	48.12		1133	48.25	48.32		1137	48.45	48.52		1141	48.65	48.72		1145	48.85	48.92		1149	49.05	49.12		1153	49.25	49.32		1157	49.45	49.52		1161	49.65	49.72		1165	49.85	49.92		1169	50.05	50.12		1173	50.25	50.32		1177	50.45	50.52		1181	50.65	50.72		1185	50.85	50.92		1189	51.05	51.12		1193	51.25	51.32		1197	51.45	51.52		1201	51.65	51.72		1205	51.85	51.92		1209	52.05	52.12		1213	52.25	52.32		1217	52.45	52.52		1221	52.65	52.72		1225	52.85	52.92		1229	53.05	53.12		1233	53.25	53.32		1237	53.45	53.52		1241	53.65	53.72		1245	53.85	53.92		1249	54.05	54.12		1253	54.25	54.32		1257	54.45	54.52		1261	54.65	54.72		1265	54.85	54.92		1269	55.05	55.12		1273	55.25	55.32		1277	55.45	55.52		1281	55.65	55.72		1285	55.85	55.92		1289	56.05	56.12		1293	56.25	56.32		1297	56.45	56.52		1301	56.65	56.72		1305	56.85	56.92		1309	57.05	57.12		1313	57.25	57.32		1317	57.45	57.52		1321	57.65	57.72		1325	57.85	57.92		1329	58.05	58.12		1333	58.25	58.32		1337	58.45	58.52		1341	58.65	58.72		1345	58.85	58.92		1349	59.05	59.12		1353	59.25	59.32		1357	59.45	
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