

### Ambient Air Quality Characteristics (Year 2022) Garhwal Region

City	Dehradun												Rishikesh												Haridwar							
Locations	Clock Tower				Raipur Road				Himalayan Drug, ISBT				Nagar Nigam				SPS Hospital				Natraj Hotel				SIDCUL				Rishikul			
Zone	Commercial				Commercial/ Residential				Commercial/ Industrial				Commercial				Commercial				Commercial				Industrial				Industrial			
Month	P.M. 10	PM2.5	SO2	NO2	P.M. 10	PM2.5	SO2	NO2	P.M.10	PM2.5	SO2	NO2	P.M.10	PM2.5	SO2	NO2	P.M. 10	PM2.5	SO2	NO2	P.M.10	PM2.5	SO2	NO2	P.M. 10	PM2.5	SO2	NO2	P.M. 10	P.M2.5	SO2	NO2
January	140.21	84.23	19.94	25.65	147.38	79.25	18.37	23.22	156.65	83.66	22.00	25.28	108.95	62.60	21.57	26.50	107	59.76	21.60	26.89	110.36	56.56	22.33	26.76	110.64	91.49	16.17	26.02	123.64	92.08	19.01	25.83
February	158	85.66	20.21	25.24	150	82.12	18.12	23.14	159.31	84.22	22.06	25.28	111.82	70.98	21.94	26.37	113.06	73.35	21.14	26.46	112.36	76.35	19.48	26.09	122.76	101.77	16.31	26.7	126.95	107.05	20.37	26.98
March	165.07	IF	20.51	24.48	156.7	84.88	19.34	24.23	164.22	89.52	22.66	25.80	125.44	75.49	19.94	25.74	121.37	74.27	20.56	26.54	126.14	77.93	20.09	26.51	128.86	94.11	16.63	27.02	135.01	101.83	21.65	28.40
April	176.2	IF	21.06	25.96	167.24	88.4	19.47	24.39	172.87	93.47	22.51	25.74	152.09	78.3	20.37	26.19	159.8	84.88	20.61	26.19	159.33	94.01	20.78	26.05	129.97	97.78	18.67	27.06	138.39	107.15	21.91	28.57
May	176.82	IF	22	27.11	165.01	90.25	20.31	25.70	171.57	93.06	22.80	26.34	189.07	81.69	20.20	26.32	187.61	82.53	20.24	25.54	191.73	91.22	20.22	26.07	126.95	97.90	19.09	26.68	133.3	110.11	21.48	28.28
June	195.16	93.67	21.68	27.87	169.69	89.49	20.41	26.05	193.08	93.49	22.30	25.87	179.58	75.96	17.80	23.33	179.34	72.89	18.30	23.6	174.43	77.79	19.51	23.37	126.59	95.61	19.48	27.82	134.10	115.96	20.85	27.60
July	130.75	85.72	19.27	26.03	115.81	78.80	18.12	24.57	134.64	82.34	21.2	25.43	121.84	58.01	20.14	22.77	124.44	52.33	18.39	23.16	121.27	59.86	17.89	22.69	122.69	110.83	19.81	27.40	124.86	117.09	21.14	27.16
August	103.64	RF	15.69	23.18	96.17	RF	16.09	24.86	106.91	RF	20.12	25.66	116.20	RF	18.88	23.29	111.79	RF	18.65	22.93	122.02	RF	18.42	23.71	126.29	112.61	19.29	26.99	130.60	108.25	21.47	27.82
September	115.55	80.1	17.55	23.86	111.48	74.33	14.45	23.17	94.40	IF	18.52	23.94	IF	62.93	IF	IF	136.47	74.53	15.8	24.3	134.38	65.3	15.88	23.08	127.59	87.67	18.54	27.08	132.91	88.87	19.14	25.7
October	131.52	78.45	IF	IF	IF	IF	121.11	IF	137.1	84.84	IF	IF	141.96	69.29	IF	IF	124.38	63.54	IF	IF	135.73	76.48	IF	IF	128.86	72.26	20.84	27.94	133.03	52.51	14.46	25.04
November	146.36	84.65	15.92	20.64	128.64	77.71	14.37	19.15	150.08	87.8	17.73	21.15	125.84	64.96	13.94	21.63	126.56	66.73	14.58	20.74	132.94	72.33	15.80	21.42	129.68	74.89	20.56	27.09	135.50	78.31	21.09	27.86
December	170.64	87.21	15.67	20.32	158.39	82.85	15.15	20.1	173.26	88.75	18.84	22.26	126.08	73.39	13.94	21.63	123.65	77.06	13.93	19.19	134.36	78.38	14.88	19.18	142.48	70.04	11.21	21.15	140.48	49.87	11.96	17.93
<b>Average</b>	<b>150.83</b>	<b>84.96</b>	<b>19.05</b>	<b>24.59</b>	<b>142.41</b>	<b>82.81</b>	<b>26.28</b>	<b>23.51</b>	<b>151.17</b>	<b>88.12</b>	<b>20.97</b>	<b>24.80</b>	<b>136.26</b>	<b>70.33</b>	<b>18.87</b>	<b>24.38</b>	<b>134.62</b>	<b>71.08</b>	<b>18.53</b>	<b>24.14</b>	<b>137.92</b>	<b>75.11</b>	<b>18.66</b>	<b>24.08</b>	<b>126.95</b>	<b>92.25</b>	<b>18.05</b>	<b>26.58</b>	<b>132.39</b>	<b>94.09</b>	<b>19.54</b>	<b>26.43</b>
<b>Standards :</b>																																
<b>Annual</b>	<b>60</b>		<b>20</b>	<b>30</b>	<b>60</b>		<b>20</b>	<b>30</b>	<b>60</b>		<b>20</b>	<b>30</b>	<b>60</b>		<b>50</b>	<b>40</b>									<b>60</b>				<b>60</b>			
<b>24 hours</b>	<b>100</b>		<b>80</b>	<b>80</b>	<b>100</b>		<b>80</b>	<b>80</b>	<b>100</b>		<b>80</b>	<b>80</b>	<b>100</b>		<b>80</b>	<b>80</b>									<b>100</b>				<b>100</b>			

**\*Note:- All values are in (µg/ m3)**

<b>Ambient Air Quality Characteristics (Year 2022) Kumaun Region</b>																
<b>City</b>	<b>Haldwani</b>					<b>Kashipur</b>				<b>Kashipur</b>		<b>Kashipur</b>		<b>Rudrapur</b>		
<b>Locations</b>	<b>Jal Sansthan Haldwani</b>					<b>Govt. Hospital</b>				<b>Anaj Mandi</b>		<b>Ganna Ayukt</b>		<b>Govt. Hospital</b>		
<b>Zone</b>	<b>Commercial</b>					<b>Sensitive</b>								<b>Sensitive</b>		
<b>Month</b>	<b>P.M.10</b>	<b>S.P.M.</b>	<b>SO2</b>	<b>NO2</b>	<b>P.M. 2.5</b>	<b>P.M.10</b>	<b>P.M. 2.5</b>	<b>SO2</b>	<b>NO2</b>	<b>P.M.10</b>	<b>P.M. 2.5</b>	<b>P.M.10</b>	<b>P.M. 2.5</b>	<b>P.M.10</b>	<b>SO2</b>	<b>NO2</b>
<b>Januray</b>	111.82	178.01	7.23	24.68	30.47	128.55	55.98	14.68	17.85	152.44	73.37	145.28	64.12	127.63	17.23	20.58
<b>February</b>	115.79	181.62	7.38	24.88	33.23	121.98	62.05	13.85	17.52	135.15	64.39	142.99	70.69	128.59	16.11	19.81
<b>March</b>	116.35	182.78	7.87	26.34	33.9	125.94	58.52	14.09	17.95	154.2	76	136.58	68.48	130.92	16.04	19.65
<b>April</b>	115.55	181.64	7.88	25.65	32.02	125.56	58.41	14.85	18.54	-	-	-	-	127.29	15.23	19.18
<b>May</b>	113.51	179.84	7.43	25.23	32.44	124.48	56.34	16.08	19.90	-	-	-	-	124.35	16.57	20.62
<b>June</b>	114.72	181.1	7.96	26.28	31.32	125.61	57.66	16.34	20.38	-	-	-	-	125.97	16.79	20.78
<b>July</b>	104.83	171.31	7.09	24.21	25.2	119.21	61.28	16.66	20.82	-	-	-	-	118.65	16.47	20.20
<b>August</b>	105.20	153.42	7.1	24.91	24.22	117.18	51.68	16.52	20.66	-	-	-	-	120.23	16.46	20.47
<b>September</b>	110.03	160.26	7.55	25.07	25.53	117.87	65.87	16.98	20.81	-	-	-	-	120.86	16.42	20.43
<b>October</b>	123.3	170.15	8.66	27.29	42.82	122.58	62.49	17.01	20.79	-	-	-	-	122.05	16.55	20.62
<b>November</b>	113.81	168.06	7.95	24.42	31.16	122.90	62.38	16.78	20.84	-	-	-	-	124.37	16.58	20.68
<b>December</b>	113.7	166.02	7.67	25.47	32.07	116.77	62.21	16.83	20.91	-	-	-	-	120.47	16.65	20.7
<b>Average</b>	<b>113.22</b>	<b>172.85</b>	<b>7.65</b>	<b>25.37</b>	<b>31.20</b>	<b>122.39</b>	<b>59.57</b>	<b>15.89</b>	<b>19.75</b>	<b>147.26</b>	<b>71.25</b>	<b>141.62</b>	<b>67.76</b>	<b>124.28</b>	<b>16.43</b>	<b>20.31</b>
<b>Standards :</b>																
<b>Annual</b>	<b>60</b>		<b>50</b>	<b>40</b>	<b>60</b>					<b>60</b>						
<b>24 hours</b>	<b>100</b>		<b>80</b>	<b>80</b>	<b>100</b>					<b>100</b>						

\*Note:- All values are in (µg/ m3)

**New Stations 2022**

PCNNR , NN, Roorkee				CMO Office, Uttarkashi		NPP Pauri		NPP Gopeshwar		NPP New Tehri		NPP Nainital		Vikas Bhawan Almora			NPP Bageshwar			
Month	RSPM	PM 2.5	SO2	NO2	PM 10	PM 2.5	PM 10	PM 2.5	PM 10	PM 2.5	PM 10	PM 2.5	RSPM	SPM	RSPM	SPM	PM 2.5	RSPM	SPM	PM 2.5
<b>October</b>	150.72	135.88	16.48	25.14	32.51	52.97	29.32	29.24	40.44	30.62	32.88	29.26	61.58	97.65	33.91	55.96	-	32.23	56.64	31.68
<b>November</b>	116.40		11.11	18.58	25.80	24.65	33.47	30.11	39.52	42.94	45.52	37.25	52.63	94.17	34.98	62.13	20.8	32.8	59.52	23.63
<b>December</b>	125.71	123.52	9.33	17.4	19.14	16.80	55.94	32.10	23.70	22.53	37.55	29.05	56.25	96.66	36.45	63.79	21.71	35.5	62	20.23
<b>Average</b>	<b>121.44</b>	<b>129.70</b>	<b>12.31</b>	<b>20.37</b>	<b>25.82</b>	<b>31.47</b>	<b>39.58</b>	<b>30.48</b>	<b>34.55</b>	<b>32.03</b>	<b>38.65</b>	<b>31.85</b>	<b>56.82</b>	<b>96.16</b>	<b>35.11</b>	<b>60.63</b>	<b>21.26</b>	<b>33.51</b>	<b>59.39</b>	<b>25.18</b>