



**Results of the 28th Annual
“Questionnaire on Environmental Problems and the Survival of
Humankind”**

Data

September 2019

THE ASAHI GLASS FOUNDATION

IV. Data

Number of Counties Surveyed

Region	Country	Total	
Africa	ALGERIA	7	
	ANGOLA	1	
	BENIN	4	
	BOTSWANA	4	
	BURKINA FASO	4	
	BURUNDI	1	
	CAMEROON	9	
	CAPE VERDE	3	
	COTE D'IVOIRE	2	
	DEMOCRATIC REPUBLIC OF THE CONGO	5	
	EGYPT	2	
	ETHIOPIA	3	
	GABON	1	
	GHANA	2	
	GUINEA-BISSAU	1	
	KENYA	16	
	LIBERIA	1	
	LIBYA	1	
	MADAGASCAR	5	
	MALAWI	1	
	MAURITIUS	1	
	MOROCCO	7	
	NAMIBIA	1	
	NIGER	1	
	NIGERIA	7	
	REPUBLIC OF THE CONGO	1	
	REUNION	1	
	RWANDA	1	
	SENEGAL	1	
	SEYCHELLES	1	
	SIERRA LEONE	1	
	SOUTH AFRICA	19	
	SUDAN	1	
	TANZANIA	5	
	TUNISIA	4	
	UGANDA	5	
	ZAMBIA	1	
	Africa Total	131	
	Asia	BANGLADESH	7
		BHUTAN	6
BRUNEI		2	
CAMBODIA		1	
CHINA		465	
HONG KONG		3	
INDIA		62	
INDONESIA		11	
JAPAN		381	
KOREA		36	
LAOS		4	
MALAYSIA		14	
MONGOLIA		2	
MYANMAR		2	
NEPAL		9	
PAKISTAN		12	
PHILIPPINES		20	
SINGAPORE		4	
SRI LANKA		5	
TAIWAN		90	
THAILAND	13		
VIETNAM	7		
Asia Total	1156		

Region	Country	Total	
Oceania	AUSTRALIA	52	
	COOK ISLANDS	1	
	FIJI	2	
	NEW ZEALAND	10	
	PALAU	4	
	SOLOMON	1	
	VANUATU	1	
	Oceania Total	71	
	Western Europe	AUSTRIA	5
		BELGIUM	3
DENMARK		4	
FINLAND		2	
FRANCE		15	
GERMANY		22	
GIBRALTAR		1	
GREECE		2	
ICELAND		1	
IRELAND		2	
ITALY		16	
MALTA		1	
NORWAY		3	
PORTUGAL		15	
SPAIN		33	
SWEDEN		8	
SWITZERLAND		29	
THE NETHERLANDS	14		
UK	48		
Western Europe Total	224		
Eastern Europe & Former Soviet Union	ALBANIA	2	
	AZERBAIJAN	1	
	BULGARIA	2	
	CROATIA	2	
	ESTONIA	1	
	GEORGIA	2	
	HUNGARY	2	
	KYRGYZ	2	
	MONTENEGRO	2	
	NORTH MACEDONIA	4	
	POLAND	3	
ROMANIA	3		
RUSSIA	6		
SERBIA	1		
SLOVAKIA	4		
UKRAINE	1		
UZBEKISTAN	1		
Eastern Europe & Former Soviet Union Total	39		

Region	Country	Total
Middle East	CYPRUS	3
	IRAN	9
	IRAQ	1
	ISRAEL	5
	JORDAN	6
	KUWAIT	1
	LEBANON	2
	OMAN	1
	PALESTINE	5
	SAUDI ARABIA	1
SYRIA	2	
TURKEY	3	
UNITED ARAB EMIRATES	1	
Middle East Total	40	
USA & Canada	CANADA	50
	USA	182
USA & Canada Total	232	
Central America, Caribbean countries	CAYMAN	1
	COSTA RICA	10
	CUBA	2
	DOMINICAN REPUBLIC	5
	EL SALVADOR	4
	GUATEMALA	4
	HAITI	1
	JAMAICA	1
	MEXICO	29
	NICARAGUA	3
	PANAMA	1
PUERTO RICO	1	
SINT EUSTATIUS	1	
TRINIDAD AND TOBAGO	1	
Central America, Caribbean countries Total	64	
South America	ARGENTINA	22
	BOLIVIA	8
	BRAZIL	30
	CHILE	10
	COLOMBIA	14
	ECUADOR	4
	FALKLAND (MALVINAS)	1
	PARAGUAY	2
	PERU	12
	SURINAME	1
URUGUAY	6	
VENEZUELA	5	
South America Total	115	

1-1. AWARENESS OF THE CRISIS FACING HUMAN SURVIVAL - ENVIRONMENTAL DOOMSDAY CLOCK

In Table 1, "Environmental issues to be taken into account" are shown. Keeping in mind the problems that the environment faces at a global level, please select the three most pressing issues for the country or the region where you reside. Then, please rank them in the order of importance. Lastly, for each item, select a time using hours and minutes between 0:10 to 12:00, to indicate the level of crisis for that issue. For the purposes of calculating results, please select your times in units of 10 minutes.

Rank 1 Category

	Global [2072]	Oceania			USA & Canada			Central America, Caribbean countries [64]	South America [115]	Western Europe			Africa [131]	Middle East [40]	Eastern Europe & former Soviet Union [39]	Asia (All)						Unit: %
		Oceania (Except Australia) [71]	Australia [19]	Australia [52]	USA & Canada [232]	Canada [50]	USA [182]			Western Europe (except UK) [224]	UK [48]	Western Europe (except UK) [176]				Asian Region* [381]	India [62]	China [465]	Taiwan [90]	Korea [36]	Japan [122]	
1. Climate Change	46	49	53	48	65	74	63	34	27	46	54	44	37	30	21	47	68	47	31	54	72	36
2. Biosphere Integrity (Biodiversity)	12	18	5	23	11	14	10	22	18	23	29	21	16	18	21	7	9	13	4	0	8	16
3. Land-System Change (Land Use)	5	10	11	10	2	2	2	8	22	4	2	5	8	3	13	3	1	8	1	1	3	11
4. Biochemical flows (Pollution/Contamination)	6	0	0	0	2	0	2	2	5	4	2	5	2	3	18	9	4	5	12	24	3	5
5. Water Resources	7	0	0	0	2	0	2	14	4	2	0	2	11	33	3	8	1	10	15	6	0	10
6. Population	7	6	11	4	9	6	9	3	3	4	2	5	8	3	3	9	4	13	14	4	3	4
7. Food	3	0	0	0	1	0	1	0	3	0	0	1	4	3	3	4	1	0	9	1	0	1
8. Lifestyles (Consumption Habits)	4	7	11	6	4	4	4	2	3	7	4	7	1	5	8	4	2	0	5	0	11	6
9. Society, Economy and Environment, Policies, Measures	8	7	11	6	4	0	5	11	13	8	2	10	12	3	13	8	8	3	9	9	0	11
No Response	1	3	0	4	1	0	1	5	0	1	4	0	2	3	0	1	1	2	0	0	0	1
Number of Responses	[2053]	[69]	[19]	[50]	[230]	[50]	[180]	[61]	[115]	[222]	[46]	[176]	[129]	[39]	[39]	[1149]	[378]	[61]	[463]	[90]	[36]	[121]
Time for Rank 1 Category	10:15	10:43	10:21	10:51	10:53	10:53	10:53	9:59	10:10	10:31	10:51	10:26	9:27	10:16	9:40	10:11	10:08	9:20	10:38	9:35	10:16	9:25

*With the exception of India, China, Taiwan, Korea, and Japan

Rank 2 Category

	Global [2072]	Oceania			USA & Canada			Central America, Caribbean countries [64]	South America [115]	Western Europe			Africa [131]	Middle East [40]	Eastern Europe & former Soviet Union [39]	Asia (All)						Unit: %
		Oceania (Except Australia) [71]	Australia [19]	Australia [52]	USA & Canada [230]	Canada [50]	USA [180]			Western Europe (except UK) [222]	UK [46]	Western Europe (except UK) [176]				Asian Region* [381]	India [62]	China [465]	Taiwan [90]	Korea [36]	Japan [122]	
1. Climate Change	16	25	16	29	17	18	16	20	15	21	19	21	15	15	13	14	12	11	15	16	17	18
2. Biosphere Integrity (Biodiversity)	19	35	32	37	30	40	27	13	23	27	29	27	15	18	21	14	20	13	7	11	14	22
3. Land-System Change (Land Use)	8	3	0	4	6	12	4	11	15	10	6	11	18	20	18	6	6	13	4	7	3	13
4. Biochemical flows (Pollution/Contamination)	11	3	11	0	5	4	5	9	5	7	8	7	4	5	18	14	16	5	11	34	19	9
5. Water Resources	14	6	11	4	14	10	15	17	17	8	4	9	15	20	13	15	7	32	20	10	3	14
6. Population	8	10	11	10	8	2	9	6	4	5	6	5	9	8	0	9	8	10	11	2	6	7
7. Food	4	1	5	0	0	0	0	2	2	1	4	1	3	0	0	6	6	2	10	1	3	2
8. Lifestyles (Consumption Habits)	9	3	5	2	9	8	10	6	8	11	15	10	7	0	10	9	8	3	11	8	25	5
9. Society, Economy and Environment, Policies, Measures	11	11	11	12	10	6	11	9	10	8	4	10	9	13	8	12	15	10	10	11	11	9
No Response	1	3	0	4	1	0	1	6	1	1	4	0	4	3	0	1	1	2	1	0	0	1
Number of Responses	[2045]	[69]	[19]	[50]	[230]	[50]	[180]	[60]	[114]	[222]	[46]	[176]	[126]	[39]	[39]	[1146]	[376]	[61]	[462]	[90]	[36]	[121]
Time for Rank 2 Category	9:31	10:29	10:17	10:33	10:17	10:18	10:16	9:19	9:20	9:54	10:21	9:47	8:54	9:25	9:03	9:21	9:20	9:09	9:41	8:32	9:22	8:47

*With the exception of India, China, Taiwan, Korea, and Japan

Rank 3 Category

	Global [2072]	Oceania			USA & Canada			Central America, Caribbean countries [64]	South America [115]	Western Europe			Africa [131]	Middle East [40]	Eastern Europe & former Soviet Union [39]	Asia (All)						Unit: %
		Oceania (Except Australia) [71]	Australia [19]	Australia [52]	USA & Canada [230]	Canada [50]	USA [180]			Western Europe (except UK) [222]	UK [46]	Western Europe (except UK) [176]				Asian Region* [381]	India [62]	China [465]	Taiwan [90]	Korea [36]	Japan [122]	
1. Climate Change	10	10	5	12	6	2	7	14	18	8	6	8	14	28	13	9	6	8	11	19	0	12
2. Biosphere Integrity (Biodiversity)	11	17	26	13	14	10	15	13	12	13	17	12	11	8	13	10	10	13	7	10	14	16
3. Land-System Change (Land Use)	9	14	21	12	11	10	12	5	10	13	8	15	18	5	15	6	8	13	3	6	3	13
4. Biochemical flows (Pollution/Contamination)	11	6	5	6	7	8	7	3	5	13	10	13	7	8	0	14	15	11	14	20	8	4
5. Water Resources	11	17	16	17	10	10	10	16	11	4	0	6	7	15	15	12	9	16	14	16	11	12
6. Population	8	13	0	17	9	6	10	11	7	7	8	7	8	10	3	8	7	8	10	3	8	7
7. Food	8	0	0	0	3	2	3	11	2	4	6	3	6	3	3	11	13	3	15	3	3	5
8. Lifestyles (Consumption Habits)	12	10	5	12	14	26	10	3	15	18	21	18	3	8	13	11	12	10	11	9	33	8
9. Society, Economy and Environment, Policies, Measures	18	11	21	8	25	26	24	19	19	19	19	19	22	15	26	17	20	16	13	14	19	21
No Response	2	3	0	4	1	0	1	6	1	1	4	0	5	3	0	2	2	2	2	0	0	1
Number of Responses	[2035]	[69]	[19]	[50]	[230]	[50]	[180]	[60]	[114]	[222]	[46]	[176]	[125]	[39]	[39]	[1137]	[375]	[61]	[454]	[90]	[36]	[121]
Time for Rank 3 Category	8:56	10:03	10:03	10:03	9:51	9:53	9:51	9:07	8:47	9:20	10:01	9:10	7:59	8:59	8:23	8:44	8:52	8:20	9:03	7:41	9:00	8:07

*With the exception of India, China, Taiwan, Korea, and Japan

2. DO YOU SEE ANY SIGNS OF IMPROVEMENT IN THE APPROACH TO GLOBAL ENVIRONMENTAL ISSUES. PLEASE ANSWER THESE QUESTIONS FROM THE FOLLOWING THREE VIEWPOINTS IN COMPARISON WITH BEFORE 2015 WHEN THE PARIS AGREEMENT AND SDGS WERE ADOPTED:

2-1 Do you think the society has been heading to decarbonized?

1. Public awareness ※Effective answer bass

	Global	Oceania			USA & Canada			Central America, Caribbean countries	South America	Western Europe			Africa	Middle East	Eastern Europe & former Soviet Union	Asia (All)					Unit: %	
	[2063]	[70]	Oceania (Except Australia) [19]	Australia [51]	USA [231]	Canada [50]	USA [181]	[64]	[113]	Europe [223]	UK [48]	Western Europe (except UK) [175]	[129]	[40]	[39]	[1154]	Asian Region* [379]	India [62]	China [465]	Taiwan [90]	Korea [36]	Japan [122]
1. It definitely has	14	24	37	20	18	12	20	8	9	26	29	25	12	5	26	12	5	21	13	9	3	25
2. It somewhat has	51	59	42	65	59	62	58	45	52	55	56	55	45	45	49	50	39	63	58	47	22	57
3. Cannot say either way	11	1	0	2	3	2	3	6	6	2	2	2	8	13	3	17	25	5	14	11	28	7
4. It hasn't really	19	10	16	8	17	22	15	33	26	13	10	14	26	35	21	18	25	11	13	29	39	9
5. It definitely has not	4	6	5	6	3	2	4	8	7	4	2	4	9	3	3	4	6	0	2	4	8	2
average	0.5	0.5	0.1	0.9	0.7	0.3	-0.3	0.9	0.9	0.9	0.8	0.7	0.6	0.7	0.1	0.3	0.9	1.0	0.8	0.3	0.2	0.7
standard deviation	1.082	1.032	1.043	0.847	0.913	1.110	1.003	0.951	1.081	1.243	1.027	1.057	1.030	1.065	1.189	1.156	1.060	0.968	1.083	1.222	1.051	1.141

*With the exception of India, China, Taiwan, Korea, and Japan

2. Policies, legal system ※Effective answer bass

	[2062]	[70]	[19]	[51]	[231]	[50]	[181]	[64]	[113]	[223]	[48]	[175]	[129]	[40]	[39]	[1153]	[378]	[62]	[465]	[90]	[36]	[122]
1. It definitely has	14	1	0	2	3	2	3	5	4	4	4	5	8	5	13	22	2	19	44	7	3	16
2. It somewhat has	38	41	58	35	35	46	32	28	42	40	44	39	36	33	38	39	34	45	36	59	19	52
3. Cannot say either way	16	7	0	10	11	8	12	23	13	13	21	11	16	25	10	18	26	19	13	9	31	10
4. It hasn't really	24	34	26	37	35	34	36	33	28	32	23	35	33	28	33	17	28	13	6	19	39	20
5. It definitely has not	8	16	16	16	16	10	18	11	12	9	8	10	7	10	5	5	10	3	1	7	8	2
average	0.3	0.6	-0.1	0.6	1.2	0.4	-0.3	0.6	-0.2	0.0	-0.3	-0.3	0.0	-0.3	-0.2	0.0	0.0	0.1	-0.1	0.1	-0.1	0.2
standard deviation	1.198	1.154	1.051	1.042	0.944	1.079	0.980	1.058	1.190	1.247	1.171	1.176	1.142	1.180	1.106	1.165	1.135	1.084	1.148	1.134	1.108	1.196

*With the exception of India, China, Taiwan, Korea, and Japan

3. Funds, human resources, technologies and facilities ※Effective answer bass

	[2062]	[70]	[19]	[51]	[231]	[50]	[181]	[64]	[113]	[223]	[48]	[175]	[129]	[40]	[39]	[1153]	[378]	[62]	[465]	[90]	[36]	[122]
1. It definitely has	12	7	5	8	6	8	6	5	5	7	6	7	5	5	10	16	6	13	28	2	0	16
2. It somewhat has	42	54	58	53	42	44	41	27	39	48	56	45	39	50	38	42	35	47	47	51	11	41
3. Cannot say either way	19	7	11	6	16	10	17	22	18	19	15	21	20	10	18	21	28	18	18	18	25	14
4. It hasn't really	21	23	21	24	27	26	27	38	32	21	19	21	26	28	21	17	26	21	5	23	44	24
5. It definitely has not	6	9	5	10	9	12	8	9	6	6	4	6	10	8	13	4	5	2	2	6	19	6
average	0.3	0.5	0.1	0.5	0.9	0.2	-0.7	0.4	-0.3	0.4	-0.3	0.1	0.1	0.1	-0.2	0.1	0.3	0.4	0.3	0.0	0.2	0.1
standard deviation	1.109	1.079	1.025	1.020	0.914	1.011	0.914	1.173	1.156	1.065	1.197	1.143	1.233	1.121	1.086	1.084	1.052	1.007	1.064	1.128	1.130	1.239

*With the exception of India, China, Taiwan, Korea, and Japan

2-2 Where do you see signs of improvement? Please choose one category from the Table 1 that shows a list of "Environmental issues to be taken into account".

※ Effective answer bass

	Global	Oceania			USA & Canada			Central America, Caribbean countries	South America	Western Europe			Africa	Middle East	Eastern Europe & former Soviet Union	Asia (All)					Unit: %	
	[2072]	[1156]	[381]	[62]	[465]	[90]	[36]	[122]	[71]	[19]	[52]	[232]	[50]	[182]	[64]	[115]	[224]	[48]	[176]	[131]	[40]	[39]
1. Climate Change	25	18	18	32	13	8	39	33	44	47	42	40	46	38	23	19	39	35	40	31	23	18
2. Biosphere Integrity (Biodiversity)	7	8	6	13	6	4	6	19	4	5	4	3	6	2	9	10	5	10	4	8	10	23
3. Land-System Change (Land Use)	4	3	1	3	4	4	0	6	6	5	6	2	0	2	5	9	3	4	3	6	8	8
4. Biochemical flows (Pollution/Contamination)	8	11	12	8	14	6	6	7	3	0	4	4	4	4	0	3	9	10	9	1	3	8
5. Water Resources	5	5	1	6	9	3	3	4	4	5	4	3	2	3	2	4	3	2	3	5	18	8
6. Population	3	4	2	11	5	2	3	2	1	0	2	3	2	4	2	3	2	4	2	2	3	3
7. Food	2	1	1	2	2	1	3	2	0	0	0	3	2	4	0	5	3	2	3	2	3	0
8. Lifestyles (Consumption Habits)	13	14	19	5	13	13	28	7	8	5	10	13	14	12	14	11	9	10	9	8	10	10
9. Society, Economy and Environment, Policies, Measures	17	21	19	13	26	34	3	11	14	21	12	11	10	12	6	11	11	4	13	12	10	10
No sign of improvement at all	17	14	23	6	8	23	11	8	15	11	17	18	14	19	39	24	14	17	14	25	15	13

*With the exception of India, China, Taiwan, Korea, and Japan

1. Public awareness

[Climate Change] ※ Effective answer bass

	Global	Oceania	Oceania (Except Australia)	Australia	USA & Canada	Canada	USA	Central America, Caribbean countries	South America	Western Europe	UK	Western Europe (except UK)	Africa	Middle East	Eastern Europe & former Soviet Union	Asia (All)	Asian Region*	India	China	Taiwan	Korea	Japan
	[512]	[208]	[69]	[20]	[58]	[7]	[14]	[40]	[31]	[9]	[22]	[93]	[23]	[70]	[15]	[21]	[87]	[17]	[70]	[41]	[9]	[7]
1. It definitely has	43	23	10	35	21	14	14	48	68	67	68	56	57	56	40	38	67	59	69	46	44	86
2. It somewhat has	43	52	61	45	53	71	29	45	29	33	27	39	43	37	47	57	30	41	27	39	44	14
3. Cannot say either way	7	14	23	5	12	0	29	3	0	0	0	0	0	0	0	5	1	0	1	5	11	0
4. It hasn't really	6	10	3	15	14	14	29	5	3	0	5	4	0	6	7	0	1	0	1	10	0	0
5. It definitely has not	1	1	3	0	0	0	0	0	0	0	0	1	0	1	7	0	1	0	1	0	0	0
average	1.2	0.9	0.7	1.0	0.8	0.9	0.3	1.4	1.6	1.7	1.6	1.4	1.6	1.4	1.1	1.3	1.6	1.6	1.6	1.2	1.3	1.9
standard deviation	0.886	0.910	0.802	1.026	0.926	0.900	1.069	0.770	0.667	0.500	0.734	0.800	0.507	0.875	1.163	0.577	0.690	0.507	0.730	0.936	0.707	0.378

*With the exception of India, China, Taiwan, Korea, and Japan

[Society, Economy and Environment, Policies, Measures] ※ Effective answer bass

	[348]	[247]	[73]	[8]	[120]	[31]	[1]	[14]	[10]	[4]	[6]	[26]	[5]	[21]	[4]	[13]	[24]	[2]	[22]	[16]	[4]	[4]
1. It definitely has	25	16	7	50	18	6	0	43	80	100	67	42	20	48	50	31	46	0	50	50	25	75
2. It somewhat has	58	64	56	38	67	84	0	57	20	0	33	50	60	48	25	62	46	100	41	31	75	25
3. Cannot say either way	9	11	23	0	8	0	100	0	0	0	0	0	0	0	25	8	0	0	0	13	0	0
4. It hasn't really	6	7	10	0	6	10	0	0	0	0	0	8	20	5	0	0	8	0	9	6	0	0
5. It definitely has not	1	2	4	13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
average	1.0	0.8	0.5	1.1	1.0	0.9	0.0	1.4	1.8	2.0	1.7	1.3	0.8	1.4	1.3	1.2	1.3	1.0	1.3	1.3	1.3	1.8
standard deviation	0.852	0.841	0.915	1.356	0.760	0.670	-	0.514	0.422	-	0.516	0.827	1.095	0.740	0.957	0.599	0.859	-	0.894	0.931	0.500	0.500

2. Policies, legal system

[Climate Change] ※ Effective answer bass

	[511]	[207]	[69]	[19]	[58]	[7]	[14]	[40]	[31]	[9]	[22]	[93]	[23]	[70]	[15]	[21]	[87]	[17]	[70]	[41]	[9]	[7]
1. It definitely has	19	20	4	21	36	0	0	35	19	11	23	19	26	17	20	24	15	12	16	17	0	29
2. It somewhat has	50	47	51	42	41	86	36	48	35	56	27	46	61	41	67	57	61	71	59	49	78	57
3. Cannot say either way	11	18	23	21	17	0	29	10	6	11	5	5	4	6	7	0	5	6	4	17	0	14
4. It hasn't really	16	12	17	16	3	14	29	8	29	22	32	22	9	26	7	19	17	12	19	15	11	0
5. It definitely has not	4	2	4	0	2	0	7	0	10	0	14	8	0	10	0	0	2	0	3	2	11	0
average	0.6	0.7	0.3	0.7	1.1	0.7	-0.1	1.1	0.3	0.6	0.1	0.5	1.0	0.3	1.0	0.9	0.7	0.8	0.7	0.6	0.4	1.1
standard deviation	1.071	1.002	0.965	1.003	0.915	0.756	0.997	0.871	1.341	1.014	1.457	1.239	0.825	1.301	0.756	1.014	1.004	0.809	1.048	1.019	1.130	0.690

[Society, Economy and Environment, Policies, Measures] ※ Effective answer bass

	[347]	[247]	[73]	[8]	[120]	[31]	[1]	[14]	[10]	[4]	[6]	[26]	[5]	[21]	[4]	[13]	[23]	[2]	[21]	[16]	[4]	[4]
1. It definitely has	29	33	7	50	52	23	0	21	30	25	33	8	0	10	0	15	26	0	29	25	50	0
2. It somewhat has	48	45	47	13	39	61	0	64	60	50	67	62	60	62	100	62	52	50	52	44	25	100
3. Cannot say either way	11	13	27	25	7	3	0	7	0	0	0	8	0	10	0	8	4	50	0	13	0	0
4. It hasn't really	9	7	15	0	2	10	100	0	10	25	0	19	40	14	0	8	13	0	14	19	25	0
5. It definitely has not	3	3	4	13	1	3	0	7	0	0	0	4	0	5	0	8	4	0	5	0	0	0
average	0.9	1.0	0.4	0.9	1.4	0.9	-1.0	0.9	1.1	0.8	1.3	0.5	0.2	0.6	1.0	0.7	0.8	0.5	0.9	0.8	1.0	1.0
standard deviation	1.005	0.996	0.965	1.458	0.759	0.978	-	0.997	0.876	1.258	0.516	1.030	1.095	1.028	-	1.109	1.114	0.707	1.153	1.065	1.414	-

3. Funds, human resources, technologies and facilities

[Climate Change] ※ Effective answer bass

Unit: %

	Global	Oceania		Australia	USA & Canada		USA	Central America, Caribbean countries	South America	Western Europe		Africa	Middle East	Eastern Europe & former Soviet Union	Asia (All)					Japan		
	[511]	[207]	[69]	[19]	[58]	[7]	[14]	[40]	[31]	[9]	[22]	[93]	[23]	[70]	[15]	[87]	[17]	[70]	[41]	[9]	[7]	
1. It definitely has	20	18	9	26	29	0	0	25	23	11	27	22	30	19	13	5	22	18	23	22	11	43
2. It somewhat has	44	44	45	47	47	43	14	50	35	33	36	42	39	43	40	43	53	71	49	37	44	14
3. Cannot say either way	19	20	28	11	16	29	36	13	19	33	14	18	26	16	20	33	13	6	14	17	33	29
4. It hasn't really	14	13	14	11	5	29	43	8	16	22	14	15	4	19	13	14	11	6	13	22	0	14
5. It definitely has not	4	4	4	5	3	0	7	5	6	0	9	3	0	4	13	5	1	0	1	2	11	0
average	0.6	0.6	0.4	0.8	0.9	0.1	-0.4	0.8	0.5	0.3	0.6	0.6	1.0	0.5	0.3	0.3	0.8	1.0	0.8	0.5	0.4	0.9
standard deviation	1.068	1.061	0.988	1.134	0.989	0.900	0.852	1.059	1.208	1.000	1.297	1.081	0.878	1.126	1.280	0.956	0.943	0.707	0.991	1.142	1.130	1.215

[Society, Economy and Environment, Policies, Measures] ※ Effective answer bass

	[347]	[247]	[73]	[8]	[120]	[31]	[1]	[14]	[10]	[4]	[6]	[26]	[5]	[21]	[4]	[13]	[23]	[2]	[21]	[16]	[4]	[4]
	1. It definitely has	22	23	8	38	38	6	0	7	10	0	17	19	20	19	0	31	22	0	24	6	25
2. It somewhat has	52	52	59	25	44	71	0	64	70	75	67	62	60	62	25	31	48	0	52	56	25	50
3. Cannot say either way	17	19	25	38	15	13	0	21	0	0	0	4	0	5	50	8	22	50	19	25	25	0
4. It hasn't really	7	4	8	0	2	6	100	0	20	25	17	15	20	14	25	31	4	50	0	6	25	0
5. It definitely has not	1	1	0	0	1	3	0	7	0	0	0	0	0	0	0	0	4	0	5	6	0	0
average	0.9	0.9	0.7	1.0	1.2	0.7	-1.0	0.6	0.7	0.5	0.8	0.8	0.8	0.9	0.0	0.6	0.8	-0.5	0.9	0.5	0.5	1.5
standard deviation	0.892	0.840	0.746	0.926	0.806	0.824	-	0.929	0.949	1.000	0.983	0.925	1.095	0.910	0.816	1.261	0.998	0.707	0.944	0.966	1.291	0.577

Respondent Affiliation

Employment

Unit: %

	Global	Oceania		Australia	USA & Canada		USA	Central America, Caribbean countries	South America	Western Europe		Africa	Middle East	Eastern Europe & former Soviet Union	Asia (All)					Japan		
	[2072]	[71]	[19]	[52]	[232]	[50]	[182]	[64]	[115]	[224]	[48]	[176]	[131]	[40]	[39]	[1156]	[381]	[62]	[465]	[90]	[36]	[122]
1. Central government	7	8	16	6	8	12	7	17	11	8	4	9	9	5	13	4	2	10	1	17	0	15
2. Local government	5	4	0	6	2	4	2	3	3	5	0	6	2	5	0	7	7	5	6	22	0	2
3. University/research institution	33	38	42	37	32	36	31	38	43	35	27	37	32	33	36	31	44	27	25	19	14	28
4. NGO/NPO	21	14	26	10	26	24	26	27	31	22	23	22	37	40	38	16	12	42	4	18	81	41
5. Corporation	19	8	0	12	2	6	1	2	3	6	8	6	5	5	0	30	11	3	62	19	6	3
6. Mass Media	2	3	5	2	12	4	14	0	0	2	4	2	1	0	0	1	3	0	0	0	0	0
7. Other	13	24	11	29	17	14	18	14	8	21	31	18	15	13	13	10	20	13	3	3	0	11
No response	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	2	0	0

*With the exception of India, China, Taiwan, Korea, and Japan

Gender

Unit: %

	Global	Oceania		Australia	USA & Canada		USA	Central America, Caribbean countries	South America	Western Europe		Africa	Middle East	Eastern Europe & former Soviet Union	Asia (All)					Japan		
	[2072]	[71]	[19]	[52]	[232]	[50]	[182]	[64]	[115]	[224]	[48]	[176]	[131]	[40]	[39]	[1156]	[381]	[62]	[465]	[90]	[36]	[122]
Male	66	72	74	71	59	68	57	66	69	79	77	80	76	70	49	64	91	74	41	62	33	72
Female	33	27	26	27	40	32	42	34	30	21	23	20	23	30	51	36	9	26	59	34	67	28
Other	0	1	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
No response	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	2	0	0

*With the exception of India, China, Taiwan, Korea, and Japan

Age

Unit: %

	Global	Oceania		Australia	USA & Canada		USA	Central America, Caribbean countries	South America	Western Europe		Africa	Middle East	Eastern Europe & former Soviet Union	Asia (All)					Japan		
	[2072]	[71]	[19]	[52]	[232]	[50]	[182]	[64]	[115]	[224]	[48]	[176]	[131]	[40]	[39]	[1156]	[381]	[62]	[465]	[90]	[36]	[122]
20s	14	0	0	0	4	6	4	5	3	3	2	3	7	8	3	22	1	16	46	17	22	7
30s	22	18	26	15	12	8	13	25	20	9	2	11	27	18	28	27	4	24	43	37	39	25
40s	18	14	21	12	13	12	13	22	30	25	31	24	33	38	26	14	12	21	9	21	19	31
50s	17	20	16	21	20	32	17	28	23	28	27	28	18	23	23	13	22	13	1	19	11	23
60s	17	30	16	35	26	18	28	16	17	23	21	24	8	8	13	14	35	18	0	4	6	9
Over 70	11	18	21	17	24	24	24	5	7	11	17	10	6	8	8	10	26	8	0	0	3	4
No response	0	0	0	0	1	0	2	0	0	0	0	0	1	0	0	0	0	0	0	2	0	1

*With the exception of India, China, Taiwan, Korea, and Japan

About "Number of responses" and "no response"

Number of responses counted the number of valid responses, which consisted of either single answers or when the question asked for multiple responses, selections made under the requested number of choices. When there were more responses than the number requested, the response was invalidated.

No response: Respondent did not provide a selection.

V. Questionnaire as Distributed to Respondents

1. Awareness of the Crisis Facing Human Survival - Environmental Doomsday Clock

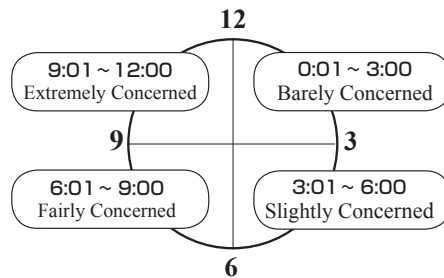
In Table 1, “Environmental issues to be taken into account” are shown. Keeping in mind the problems that the environment faces at a global level, please select the three most pressing issues for the country or the region where you reside. Then, please rank them in the order of importance. Lastly, for each item, select a time using hours and minutes between 0:10 to 12:00, to indicate the level of crisis for that issue. For the purposes of calculating results, please select your times in units of 10 minutes.

-About the calculation of the time on the Environmental Doomsday Clock

The time on the Environmental Doomsday Clock will be determined by taking the weighted average of the data. The issue ranked in first place will be weighted at 50%, second place at 30%, and third place at 20%. In the example shown, the time comes to 8:43.

----- Example -----

Category Number	TIME
First (1)	<input type="text" value="9"/> : <input type="text" value="30"/>
(of the first magnitude)	
Second (5)	<input type="text" value="7"/> : <input type="text" value="40"/>
(of the second magnitude)	
Third (3)	<input type="text" value="8"/> : <input type="text" value="20"/>
(of the third magnitude)	



----- Answer -----

Category Number	TIME
First ()	<input type="text"/> : <input type="text"/>
(of the first magnitude)	
Second ()	<input type="text"/> : <input type="text"/>
(of the second magnitude)	
Third ()	<input type="text"/> : <input type="text"/>
(of the third magnitude)	

Table 1. Environmental issues to be taken into account

No.	Category	Examples of Observable Changes in the Country or the Region in which You Reside	Planetary Boundaries (PB)
1.	Climate Change	Global warming; CO ₂ %, ocean acidification; climatic aberrations (droughts, torrential rains and flooding, severe storms, heavy snow, abnormal temperatures, desertification, etc.)	Climate Change, Ocean Acidification, Atmospheric aerosol loading, Stratospheric ozone depletion
2.	Biosphere Integrity (Biodiversity)	Acceleration of species extinction rate; effects of contamination, climate change, land use	Genetic diversity, Functional diversity
3.	Land-System Change (Land Use)	Change in the amount of forest cover remaining at the tropical, temperate and boreal biomes. Change in the amount of cropland	Land-system change
4.	Biochemical flows (Pollution/ Contamination)	Increase in river, ocean and soil pollution: eutrophication caused by excessive nitrogen and phosphorus and contamination by microplastics and chemical substances; atmospheric pollution: particulates suspended in the atmosphere, soot and chemical substances	Chemical Pollution, Nitrogen & Phosphorous Cycles
5.	Water Resources	Diminution of usable fresh water resources (depletion, contamination) Control and degeneration of Green water quality (water contained in soil and used by plants)	Freshwater Use
6.	Population	Population growth beyond what the Earth can support; aging of the population	Related with almost all the PB
7.	Food	Diminution of food supply from land and oceans	Related with almost all the PB
8.	Lifestyles (Consumption Habits)	Transformation of lifestyles away from excessive consumption of resources like energy	Related with almost all the PB
9.	Society, Economy and Environment, Policies, Measures	Establishing a Green Economy with environmental economics and accounting Environmental awareness at the individual and societal levels, progress of environmental education, Legal system, social foundation; poverty, governance; the status of women	Related with almost all the PB

2. Do you see any signs of improvement in the approach to global environmental issues. Please answer these questions from the following three viewpoints in comparison with before 2015 when the Paris Agreement and SDGs were adopted:

2-1 Do you think the society has been heading to decarbonized?

	It definitely has	It somewhat has	Cannot say either way	It hasn't really	It definitely has not
1. Public awareness	A	B	C	D	E
2. Policies, legal system	A	B	C	D	E
3. Funds, human resources, technologies and facilities	A	B	C	D	E

2-2 Where do you see signs of improvement? Please choose one category from the Table 1 that shows a list of “Environmental issues to be taken into account”.

Number of the category that shows signs of improvement: _____ No sign of improvement at all




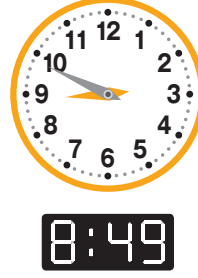

	There are improvements	There are perhaps some improvements	Cannot say either way	There aren't really any improvements	There are no improvements at all
1. Public awareness	A	B	C	D	E
2. Policies, legal system	A	B	C	D	E
3. Funds, human resources, technologies and facilities	A	B	C	D	E


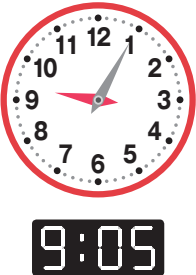
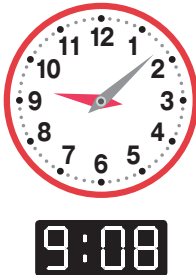

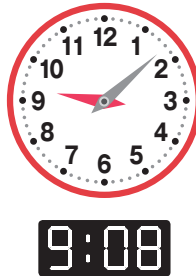
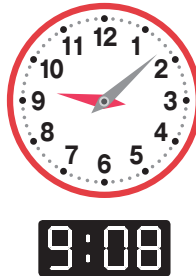
Category by SDGs # (Sustainable Development Goals: SDGs)


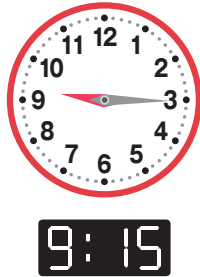
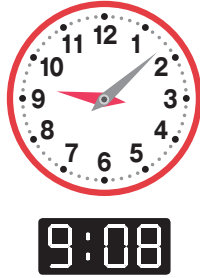
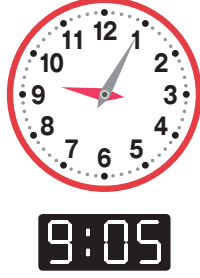

Terms in blue are categories listed in Planetary boundaries:




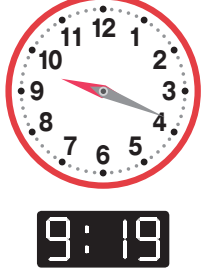

Reference: Changes in the Environmental Doomsday Clock

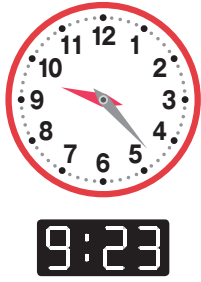
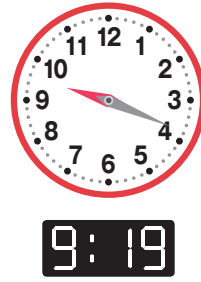
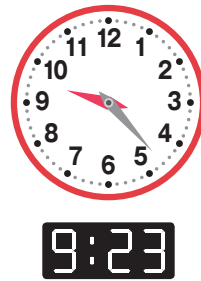
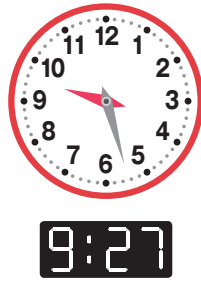


Asian Region* (except India, China, Taiwan, Korea, Japan)

1992		USA & Canada	8:35	India	-
		Latin America (Central, Caribbean, South)	8:57	China	-
		Western Europe	8:54	Taiwan	-
		Eastern Europe & Former Soviet Union	9:27	Korea	-
		Africa	8:10	Japan	7:38
		Middle East	8:10	Asian Region*	9:58
1993		USA & Canada	8:58	India	-
		Latin America (Central, Caribbean, South)	8:37	China	-
		Western Europe	9:02	Taiwan	-
		Eastern Europe & Former Soviet Union	7:02	Korea	-
		Africa	8:43	Japan	7:33
		Middle East	8:12	Asian Region*	23
1994		USA & Canada	9:07	India	-
		Latin America (Central, Caribbean, South)	9:37	China	-
		Western Europe	9:35	Taiwan	-
		Eastern Europe & Former Soviet Union	8:10	Korea	-
		Africa	9:14	Japan	8:01
		Middle East	-	Asian Region*	8:53
1995		USA & Canada	8:52	India	-
		Latin America (Central, Caribbean, South)	9:23	China	-
		Western Europe	9:02	Taiwan	-
		Eastern Europe & Former Soviet Union	9:29	Korea	-
		Africa	9:33	Japan	8:08
		Middle East	9:09	Asian Region*	9:44
1996		USA & Canada	9:30	India	-
		Latin America (Central, Caribbean, South)	9:28	China	-
		Western Europe	9:46	Taiwan	-
		Eastern Europe & Former Soviet Union	9:12	Korea	-
		Africa	9:25	Japan	8:51
		Middle East	8:30	Asian Region*	9:43

1997		USA & Canada	9:09	India	-
		Latin America (Central, Caribbean, South)	9:26	China	-
		Western Europe	9:53	Taiwan	-
		Eastern Europe & Former Soviet Union	9:37	Korea	-
		Africa	9:37	Japan	7:38
		Middle East	9:15	Asian Region*	-
1998		USA & Canada	8:40	India	-
		Latin America (Central, Caribbean, South)	9:04	China	-
		Western Europe	9:37	Taiwan	-
		Eastern Europe & Former Soviet Union	9:37	Korea	-
		Africa	9:44	Japan	9:01
		Middle East	9:08	Asian Region*	-
1999		USA & Canada	8:47	Oceania	9:34
		Latin America (Central, Caribbean, South)	9:03	India	-
		Western Europe	9:14	China	-
		Eastern Europe & Former Soviet Union	9:14	Taiwan	-
		Africa	8:46	Korea	-
		Middle East	9:21	Japan	9:07
2000		USA & Canada	9:13	Asian Region*	-
		Latin America (Central, Caribbean, South)	9:32	Oceania	8:52
		Western Europe	8:49	India	-
		Eastern Europe & Former Soviet Union	8:52	China	-
		Africa	8:52	Taiwan	-
		Middle East	8:46	Korea	-
2001		USA & Canada	8:21	Japan	8:56
		Latin America (Central, Caribbean, South)	9:17	Asian Region*	-
		Western Europe	9:38	Oceania	8:31
		Eastern Europe & Former Soviet Union	9:54	India	-
		Africa	9:00	China	-
		Middle East	9:00	Taiwan	-
2001		Western Europe	8:58	Korea	-
		Eastern Europe & Former Soviet Union	8:17	Japan	9:04
		Africa	9:37	Asian Region*	-
		Middle East	9:01	Oceania	8:58

2002		USA & Canada	8:23	India	-
		Latin America (Central, Caribbean, South)	9:22	China	-
		Western Europe	8:44	Taiwan	-
		Eastern Europe & Former Soviet Union	9:28	Korea	-
		Africa	9:29	Japan	9:18
		Middle East	8:02	Asian Region*	-
				Oceania	9:22
2003		USA & Canada	9:03	India	-
		Latin America (Central, Caribbean, South)	9:19	China	-
		Western Europe	8:52	Taiwan	-
		Eastern Europe & Former Soviet Union	9:02	Korea	-
		Africa	9:22	Japan	9:20
		Middle East	8:52	Asian Region*	-
				Oceania	9:37
2004		USA & Canada	9:14	India	-
		Latin America (Central, Caribbean, South)	9:12	China	-
		Western Europe	8:56	Taiwan	-
		Eastern Europe & Former Soviet Union	8:30	Korea	-
		Africa	9:04	Japan	9:06
		Middle East	8:41	Asian Region*	-
				Oceania	9:08
2005		USA & Canada	8:54	India	-
		Latin America (Central, Caribbean, South)	9:08	China	-
		Western Europe	8:43	Taiwan	-
		Eastern Europe & Former Soviet Union	8:26	Korea	-
		Africa	9:03	Japan	9:07
		Middle East	9:18	Asian Region*	-
				Oceania	9:18
2006		USA & Canada	9:18	India	-
		Latin America (Central, Caribbean, South)	9:31	China	-
		Western Europe	9:08	Taiwan	-
		Eastern Europe & Former Soviet Union	9:07	Korea	-
		Africa	9:32	Japan	9:15
		Middle East	10:05	Asian Region*	-
				Oceania	9:18

2007		USA & Canada	9:40	India	-
		Latin America (Central, Caribbean, South)	9:38	China	-
		Western Europe	9:23	Taiwan	-
		Eastern Europe & Former Soviet Union	9:20	Korea	-
		Africa	10:02	Japan	9:34
		Middle East	9:41	Asian Region*	10:27
2008		USA & Canada	10:13	India	10:05
		Latin America (Central, Caribbean, South)	9:49	China	8:03
		Western Europe	9:44	Taiwan	8:03
		Eastern Europe & Former Soviet Union	9:37	Korea	8:51
		Africa	10:31	Japan	9:42
		Middle East	9:24	Asian Region*	10:02
2009		USA & Canada	10:01	India	9:45
		Latin America (Central, Caribbean, South)	9:28	China	8:26
		Western Europe	9:55	Taiwan	8:38
		Eastern Europe & Former Soviet Union	10:00	Korea	9:53
		Africa	10:15	Japan	9:08
		Middle East	9:42	Asian Region*	9:29
2010		USA & Canada	10:13	India	9:42
		Latin America (Central, Caribbean, South)	9:48	China	8:04
		Western Europe	9:45	Taiwan	9:18
		Eastern Europe & Former Soviet Union	9:47	Korea	9:35
		Africa	10:24	Japan	9:09
		Middle East	10:47	Asian Region*	9:40
2011		USA & Canada	9:35	India	9:31
		Latin America (Central, Caribbean, South)	9:18	China	7:57
		Western Europe	9:28	Taiwan	8:42
		Eastern Europe & Former Soviet Union	9:13	Korea	9:59
		Africa	9:09	Japan	8:46
		Middle East	10:24	Asian Region*	9:03
				Oceania	10:06

2012		USA & Canada	9:54	India	9:10
		Latin America (Central, Caribbean, South)	10:00	China	8:49
		Western Europe	9:55	Taiwan	8:57
		Eastern Europe & Former Soviet Union	9:12	Korea	9:33
		Africa	10:04	Japan	9:14
		Middle East	9:38	Asian Region*	9:39
				Oceania	10:14
2013		USA & Canada	10:16	India	9:27
		Latin America (Central, Caribbean, South)	9:46	China	9:16
		Western Europe	9:40	Taiwan	8:39
		Eastern Europe & Former Soviet Union	9:48	Korea	9:31
		Africa	9:42	Japan	9:05
		Middle East	9:08	Asian Region*	9:29
				Oceania	10:01
2014		Oceania	10:08	Africa	9:09
		USA & Canada	9:55	Eastern Europe & Former Soviet Union	8:51
		Central, Caribbean America	9:12	Middle East	9:21
		South America	9:23	Asia	9:15
		Western Europe	9:33		
2015		Oceania	10:06	Africa	9:00
		USA & Canada	10:01	Eastern Europe & Former Soviet Union	8:59
		Central, Caribbean America	9:47	Middle East	9:10
		South America	9:47	Asia	9:15
		Western Europe	9:42		
2016		Oceania	10:01	Africa	9:09
		USA & Canada	9:58	Eastern Europe & Former Soviet Union	8:51
		Central, Caribbean America	9:38	Middle East	10:06
		South America	9:48	Asia	9:18
		Western Europe	9:47		
2017		Oceania	10:13	Africa	9:12
		USA & Canada	10:08	Eastern Europe & Former Soviet Union	8:47
		Central, Caribbean America	9:19	Middle East	9:05
		South America	9:32	Asia	9:25
		Western Europe	9:45		

2018		Oceania	10:03	Africa	9:28
		USA & Canada	10:11	Eastern Europe & Former Soviet Union	8:42
		Central, Caribbean America	9:10		
		South America	9:24	Middle East	9:30
		Western Europe	10:04	Asia	9:48
2019		Oceania	10:31	Africa	8:59
		USA & Canada	10:30	Eastern Europe & Former Soviet Union	9:13
		Central, Caribbean America	9:36		
		South America	9:38	Middle East	9:45
		Western Europe	10:06	Asia	9:38

The Environmental Doomsday Clock 2019



Gring

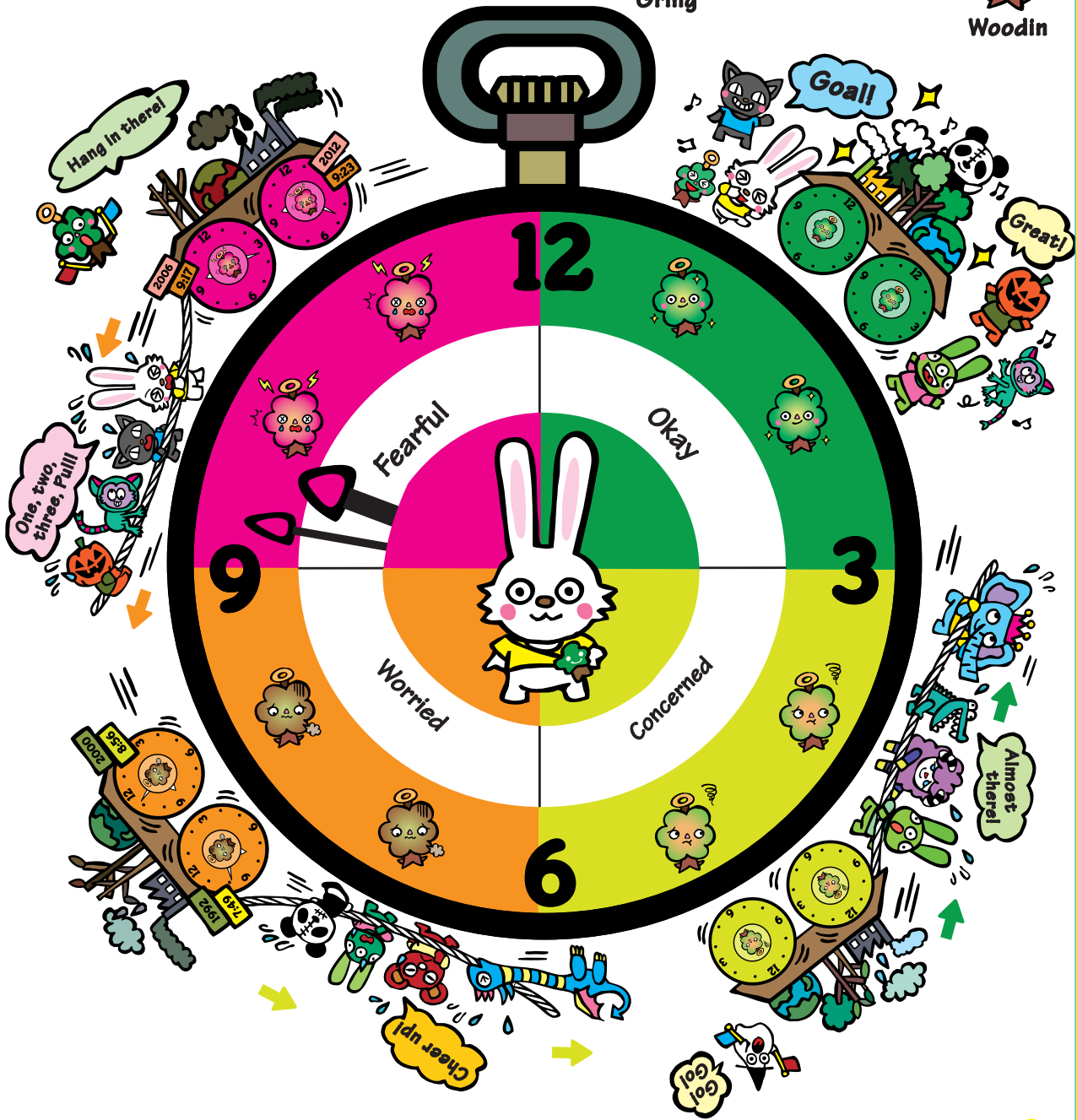
The time of
2019 is

9:46

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REPORT

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