



**Results of the 27th Annual  
“Questionnaire on Environmental Problems and the Survival of  
Humankind”**

Data

September 2018

**THE ASAHI GLASS FOUNDATION**



## IV. Data

### Number of Counties Surveyed

Region	Country	Total
Africa	ALGERIA	5
	BENIN	2
	BOTSWANA	1
	BURKINA FASO	3
	CAMEROON	4
	COMOROS	1
	COTE D'IVOIRE	1
	DEMOCRATIC REPUBLIC OF THE CONGO	2
	EGYPT	1
	GABON	3
	GHANA	2
	KENYA	10
	MADAGASCAR	9
	MALI	1
	MAURITIUS	3
	MOROCCO	3
	MOZAMBIQUE	1
	NIGER	1
	NIGERIA	2
	REPUBLIC OF THE CONGO	1
	SAO TOME AND PRINCIPE	1
	SENEGAL	2
	SIERRA LEONE	2
	SOUTH AFRICA	4
	SWAZILAND	1
	TANZANIA	2
	TUNISIA	3
	UGANDA	2
	ZAMBIA	1
	ZIMBABWE	4
<b>Africa Total</b>	<b>78</b>	
Asia	AFGHANISTAN	1
	BANGLADESH	5
	BHUTAN	4
	BRUNEI	1
	CAMBODIA	1
	CHINA	443
	HONG KONG	5
	INDIA	51
	INDONESIA	12
	JAPAN	389
	KOREA	64
	LAOS	1
	MALAYSIA	10
	MONGOLIA	1
	MYANMAR	1
	NEPAL	9
	PAKISTAN	7
	PHILIPPINES	11
	SINGAPORE	4
	SRI LANKA	4
	TAIWAN	93
	THAILAND	13
	VIETNAM	8
UNKNOWN	1	
<b>Asia Total</b>	<b>1139</b>	

Region	Country	Total	
Oceania	AUSTRALIA	43	
	FIJI	2	
	NEW CALEDONIA	2	
	NEW ZEALAND	10	
	PALAU	1	
	SAMOA	1	
	SOLOMON ISLANDS	2	
	UNKNOWN	1	
	<b>Oceania Total</b>	<b>62</b>	
	Western Europe	AUSTRIA	8
		BELGIUM	8
DENMARK		2	
FINLAND		6	
FRANCE		10	
GERMANY		11	
GREECE		7	
IRELAND		1	
ITALY		15	
LUXEMBOURG		1	
NORWAY		2	
PORTUGAL		8	
SPAIN		17	
SWEDEN		3	
SWITZERLAND		23	
THE NETHERLANDS		10	
UK		39	
UNKNOWN	4		
<b>Western Europe Total</b>	<b>175</b>		
Eastern Europe & Former Soviet Union	ALBANIA	3	
	AZERBAIJAN	2	
	BELARUS	1	
	BULGARIA	3	
	CROATIA	3	
	CZECH	1	
	ESTONIA	1	
	GEORGIA	1	
	HUNGARY	5	
	KAZAKHSTAN	1	
	LITHUANIA	1	
	MACEDONIA	4	
	MOLDOVA	1	
	MONTENEGRO	1	
POLAND	3		
ROMANIA	2		
RUSSIA	17		
SERBIA	2		
SLOVAKIA	2		
SLOVENIA	1		
TAJIKISTAN	1		
UKRAINE	2		
UZBEKISTAN	1		
UNKNOWN	1		
<b>Eastern Europe &amp; Former Soviet Union Total</b>	<b>60</b>		

Region	Country	Total
Middle East	BAHRAIN	3
	CYPRUS	3
	IRAN	8
	IRAQ	1
	ISRAEL	2
	JORDAN	4
	KUWAIT	1
	LEBANON	2
	OMAN	2
	PALESTINE	4
	SAUDI ARABIA	3
	TURKEY	3
	UNITED ARAB EMIRATES	2
<b>Middle East Total</b>	<b>38</b>	
United States & Canada	CANADA	37
	USA	147
	UNKNOWN	15
<b>United States &amp; Canada Total</b>	<b>199</b>	
Central America, Caribbean countries	CAYMAN	1
	COSTA RICA	9
	CUBA	2
	GUATEMALA	1
	HAITI	1
	JAMAICA	1
	MEXICO	14
	NICARAGUA	1
	PANAMA	3
	PUERTO RICO	1
	TRINIDAD AND TOBAGO	2
	TURKS AND CAICOS ISLANDS, W.I.	1
	UNITED STATES VIRGIN ISLANDS	1
<b>Central America, Caribbean countries Total</b>	<b>38</b>	
South America	ARGENTINA	12
	ARGENTINA	1
	BOLIVIA	6
	BRAZIL	24
	CHILE	3
	COLOMBIA	8
	ECUADOR	6
	FALKLAND (MALVINAS)	1
	PARAGUAY	3
	PERU	12
SURINAME	1	
<b>South America Total</b>	<b>77</b>	

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

“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	Oceania			USA & Canada			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
	[1866]	[61]	[18]	[43]	[184]	[37]	[147]	[38]	[77]	[171]	[39]	[132]	[78]	[38]	[60]	[1138]	[98]	[51]	[443]	[93]	[64]	[389]
1. Climate Change	42	52	44	56	52	57	51	34	27	38	41	37	50	34	17	43	40	24	25	53	61	63
2. Biosphere Integrity (Biodiversity)	9	16	22	14	11	22	9	18	14	22	23	22	12	8	12	5	7	16	4	2	6	6
3. Land-System Change (Land Use)	6	7	11	5	5	5	5	11	26	11	8	11	10	5	15	4	16	10	2	8	0	2
4. Biochemical flows (Pollution/Contamination)	7	3	11	0	2	0	2	0	3	2	3	2	1	0	13	9	3	6	13	20	13	4
5. Water Resources	9	3	6	2	4	3	5	11	13	4	0	5	9	50	12	9	9	10	15	8	0	3
6. Population	9	13	0	19	13	5	14	3	6	9	10	9	5	0	2	9	10	27	12	0	5	6
7. Food	5	0	0	0	0	0	0	0	1	1	0	1	4	0	0	9	1	0	19	3	0	2
8. Lifestyles (Consumption Habits)	4	2	0	2	7	8	6	3	1	8	10	7	1	0	10	4	2	2	5	0	11	3
9. Society, Economy and Environment	8	3	6	2	7	0	8	13	6	6	5	6	8	3	20	8	10	6	5	6	5	11
No Response	0	0	0	0	0	0	0	8	1	0	0	0	0	0	0	0	1	0	0	0	0	1
Number of Responses	[1858]	[61]	[18]	[43]	[184]	[37]	[147]	[35]	[76]	[171]	[39]	[132]	[78]	[38]	[60]	[1135]	[97]	[51]	[443]	[93]	[64]	[387]
Time for Rank 1 Category	10:14	10:37	9:26	11:08	10:30	10:31	10:29	9:43	9:52	10:29	10:32	10:27	9:53	9:58	9:13	10:16	9:40	9:20	11:01	9:10	10:04	9:59

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

### Rank 2 Category

	Global	Oceania			USA & Canada			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
	[1866]	[61]	[18]	[43]	[184]	[37]	[147]	[38]	[77]	[171]	[39]	[132]	[78]	[38]	[60]	[1138]	[98]	[51]	[443]	[93]	[64]	[389]
1. Climate Change	14	8	6	9	22	24	22	13	9	20	21	20	13	16	27	12	13	6	13	9	17	11
2. Biosphere Integrity (Biodiversity)	17	36	33	37	23	22	24	16	22	26	21	27	17	21	13	14	18	14	6	10	25	22
3. Land-System Change (Land Use)	9	25	39	19	7	5	7	11	22	6	5	6	19	13	8	7	12	16	6	10	0	6
4. Biochemical flows (Pollution/Contamination)	10	2	0	2	4	3	5	8	5	9	13	8	4	8	12	13	12	8	13	29	11	10
5. Water Resources	14	3	11	0	11	3	13	18	16	8	5	9	21	21	8	16	19	27	20	18	5	10
6. Population	9	10	6	12	8	3	10	8	5	10	10	10	9	11	7	9	2	12	11	4	8	9
7. Food	6	0	0	0	2	0	2	0	0	2	5	1	3	5	0	10	5	4	15	4	0	8
8. Lifestyles (Consumption Habits)	9	7	6	7	13	27	10	11	9	14	15	14	4	3	13	8	5	4	8	5	22	9
9. Society, Economy and Environment	10	10	0	14	10	14	9	8	10	5	5	5	9	3	12	12	11	10	9	11	13	15
No Response	1	0	0	0	0	0	0	8	1	0	0	0	3	0	0	0	1	0	0	0	0	1
Number of Responses	[1854]	[61]	[18]	[43]	[184]	[37]	[147]	[35]	[76]	[171]	[39]	[132]	[76]	[38]	[60]	[1133]	[97]	[51]	[441]	[93]	[64]	[387]
Time for Rank 2 Category	9:35	9:43	8:30	10:15	10:02	10:16	9:59	8:50	9:09	9:53	9:57	9:52	9:14	9:07	8:25	9:36	9:00	8:42	10:24	8:31	9:19	9:18

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

## Rank 3 Category

	Unit: %																					
	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
	[1866]	[61]	[18]	[43]	[184]	[37]	[147]	[38]	[77]	[171]	[39]	[132]	[78]	[38]	[60]	[1138]	[98]	[51]	[443]	[93]	[64]	[389]
1. Climate Change	12	11	11	12	10	11	10	18	10	8	5	8	14	13	17	12	13	12	14	15	11	9
2. Biosphere Integrity (Biodiversity)	11	13	22	9	14	16	14	24	13	13	21	11	13	8	17	9	18	16	5	10	17	10
3. Land-System Change (Land Use)	8	11	11	12	10	11	10	13	14	11	13	11	13	16	15	6	6	14	6	9	0	6
4. Biochemical flows (Pollution/Contamination)	10	8	22	2	12	14	12	0	9	11	5	12	4	5	10	11	11	6	10	15	8	12
5. Water Resources	11	7	0	9	12	5	14	11	12	13	5	15	10	13	7	11	8	14	13	18	3	9
6. Population	10	13	11	14	8	5	8	0	3	8	10	8	14	8	5	11	10	20	12	2	13	10
7. Food	7	0	0	0	2	5	1	0	4	1	0	1	10	5	0	10	7	2	13	4	6	11
8. Lifestyles (Consumption Habits)	13	26	17	30	13	8	14	11	16	19	26	17	1	11	10	12	9	8	9	10	25	14
9. Society, Economy and Environment	16	10	6	12	19	22	18	16	18	17	15	17	18	21	20	16	15	10	14	16	17	18
No Response	2	0	0	0	1	3	1	8	1	0	0	0	3	0	0	2	1	0	5	1	0	1
Number of Responses	[1832]	[61]	[18]	[43]	[182]	[36]	[146]	[35]	[76]	[171]	[39]	[132]	[76]	[38]	[60]	[1113]	[97]	[51]	[422]	[92]	[64]	[387]
Time for Rank 3 Category	9:00	9:07	7:48	9:41	9:40	9:49	9:38	8:20	8:34	9:17	9:32	9:13	8:45	8:57	7:52	8:58	8:22	8:07	9:45	7:39	8:48	8:44

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

Category	Examples of Observable Changes in the Country or the Region in which You Reside	Planetary Boundaries (PB)
1. Climate Change	Global warming; CO <sub>2</sub> %, 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)	River and ocean pollution; eutrophication caused by excessive nitrogen and phosphorus and contamination by 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)	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	Establishing a Green Economy with environmental economics and accounting Environmental awareness at the individual and societal levels, progress of environmental education; poverty, governance; the status of women	Related with almost all the PB

## 2. YOUR OPINIONS ON ENVIRONMENTAL PROBLEMS - FREE TEXT

Feel free to write comments on any topic of environmental problems. If there are any items that relate to your opinion in the list of "Environmental issues to be taken into account" below, please tick the box of identical item. You may select multiple items. If you select "10. Others," please write the details in the Opinions column.

	Unit: %																					
	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
	[1866]	[61]	[18]	[43]	[184]	[37]	[147]	[38]	[77]	[171]	[39]	[132]	[78]	[38]	[60]	[1138]	[98]	[51]	[443]	[93]	[64]	[389]
1. Climate Change	58	61	61	60	51	62	48	61	43	49	33	54	77	79	58	61	61	59	82	15	17	54
2. Biosphere Integrity (Biodiversity)	40	49	61	44	33	43	31	53	49	52	46	54	59	50	53	36	46	67	51	6	13	24
3. Land-System Change (Land Use)	30	38	50	33	21	30	19	37	38	29	28	30	60	45	47	28	37	51	47	1	0	13
4. Biochemical flows (Pollution/Contamination)	27	30	50	21	18	19	18	13	22	24	23	24	29	32	38	29	30	35	49	8	3	15
5. Water Resources	36	31	56	21	20	19	20	37	38	28	21	30	53	63	33	39	39	47	74	5	5	13
6. Population	31	33	28	35	28	27	29	24	25	29	28	30	35	45	12	33	32	47	56	5	9	16
7. Food	22	13	17	12	8	14	7	21	14	15	10	17	36	26	17	26	20	12	45	0	3	16
8. Lifestyles (Consumption Habits)	30	31	44	26	28	41	25	42	31	31	26	33	19	37	32	30	31	27	44	8	16	21
9. Society, Economy and Environment	37	34	50	28	30	35	29	47	36	35	41	33	51	42	40	38	35	47	51	6	11	35
10. Others	4	8	6	9	8	5	8	3	3	2	3	2	1	8	3	3	5	8	1	0	3	6
No Response	19	20	11	23	29	27	29	16	19	25	36	22	8	13	12	17	12	4	0	82	69	16

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

## Respondent Affiliation Employment

	Global	Oceania			USA & Canada			Central America, Caribbean countries	South America	Western Europe			Africa	Middle East	Eastern Europe & former Soviet Union	Asia (All)						
	[1866]	[61]	Oceania (Except Australia) [18]	Australia [43]	[184]	Canada [37]	USA [147]	[38]	[77]	[171]	UK [39]	Western Europe (except UK) [132]	[78]	[38]	[60]	[1138]	Asian Region* [98]	India [51]	China [443]	Taiwan [93]	Korea [64]	Japan [389]
1. Central government	6	10	11	9	8	11	7	11	13	9	5	11	8	13	10	4	11	6	1	20	11	1
2. Local government	6	5	6	5	4	3	4	5	1	4	0	5	3	3	0	9	3	2	10	19	8	6
3. University/research institution	31	34	33	35	37	35	37	24	35	32	15	36	28	34	42	29	23	41	15	24	16	49
4. NGO/NPO	20	23	22	23	21	14	23	45	36	25	33	23	42	37	28	15	47	29	7	14	42	11
5. Corporation	21	7	0	9	5	11	3	5	3	6	8	5	1	5	2	31	0	2	65	19	6	12
6. Mass Media	2	2	0	2	4	0	5	0	0	1	3	1	0	3	0	1	0	4	0	0	2	3
7. Other	13	20	28	16	21	27	19	11	12	23	36	19	18	5	18	10	15	16	2	3	14	18
No response	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1

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

## Gender

	Global	Oceania			USA & Canada			Central America, Caribbean countries	South America	Western Europe			Africa	Middle East	Eastern Europe & former Soviet Union	Asia (All)						
	[1866]	[61]	Oceania (Except Australia) [18]	Australia [43]	[184]	Canada [37]	USA [147]	[38]	[77]	[171]	UK [39]	Western Europe (except UK) [132]	[78]	[38]	[60]	[1138]	Asian Region* [98]	India [51]	China [443]	Taiwan [93]	Korea [64]	Japan [389]
Male	66	72	61	77	66	76	64	66	68	73	74	72	77	68	52	65	67	82	45	57	42	92
Female	33	26	33	23	34	24	36	34	31	26	26	27	21	32	48	34	33	18	54	43	55	7
Other	0	2	6	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	2	1
No response	0	0	0	0	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0	2	0

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

## Age

	Global	Oceania			USA & Canada			Central America, Caribbean countries	South America	Western Europe			Africa	Middle East	Eastern Europe & former Soviet Union	Asia (All)						
	[1866]	[61]	Oceania (Except Australia) [18]	Australia [43]	[184]	Canada [37]	USA [147]	[38]	[77]	[171]	UK [39]	Western Europe (except UK) [132]	[78]	[38]	[60]	[1138]	Asian Region* [98]	India [51]	China [443]	Taiwan [93]	Korea [64]	Japan [389]
20s	12	5	11	2	5	0	6	3	3	4	0	5	5	3	7	17	4	6	33	25	28	2
30s	24	11	11	12	10	14	9	11	12	11	10	11	24	21	27	30	22	35	51	33	38	4
40s	19	15	22	12	13	5	14	26	31	26	33	24	31	47	27	15	32	27	11	26	14	13
50s	18	18	22	16	21	30	18	34	32	29	26	30	23	18	25	14	27	10	4	10	8	26
60s	17	31	6	42	30	35	29	16	14	21	21	21	9	8	12	15	10	16	1	2	11	35
Over 70	10	20	28	16	22	16	24	11	8	9	10	9	8	3	3	8	5	6	0	3	2	21
No response	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	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 Table1, “**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.

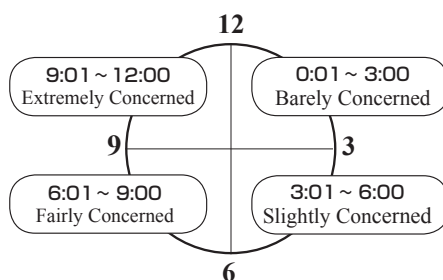
#### ----- Example -----

Category Number      TIME

**First ( 1 )**     :   
(of the first magnitude)

**Second ( 5 )**     :   
(of the second magnitude)

**Third ( 3 )**     :   
(of the third magnitude)



#### ----- Answer -----

Category Number      TIME

**First ( )**     :   
(of the first magnitude)

**Second ( )**     :   
(of the second magnitude)

**Third ( )**     :   
(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.	<b>Climate Change</b>	Global warming; <b>CO<sub>2</sub></b> %, <b>ocean acidification</b> ; 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 ( <b>Biodiversity</b> )	Acceleration of species <b>extinction rate</b> ; effects of contamination, climate change, land use	Genetic diversity Functional diversity
3.	Land-System Change ( <b>Land Use</b> )	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)	River and ocean pollution: eutrophication caused by excessive <b>nitrogen</b> and <b>phosphorus</b> and contamination by chemical substances; <b>atmospheric pollution</b> : particulates suspended in the atmosphere, soot and <b>chemical substances</b>	Chemical Pollution Nitrogen & Phosphorous Cycles
5.	Water Resources	Diminution of usable fresh water resources (depletion, contamination)	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	Establishing a Green Economy with environmental economics and accounting Environmental awareness at the individual and societal levels, progress of environmental education; poverty, governance; the status of women	Related with almost all the PB

## 2. Your Opinions on Environmental Problems - Free text

Feel free to write comments on any topic of environmental problems. If there are any items that relate to your opinion in the list of “Environmental issues to be taken into account” below, please tick the box of identical item. You may select multiple items. If you select “10. Others,” please write the details in the Opinions column.

### Environmental issues to be taken into account

1. Climate Change	2. Biosphere Integrity	3. Land-System Change	4. Biochemical flows	5. Water Resources
6. Population	7. Food	8. Lifestyles	9. Society, Economy and Environment	10. Others

Opinions :

---



---



---



---

### Category by SDGs # (Sustainable Development Goals: SDGs)


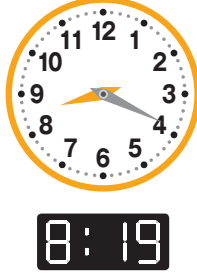


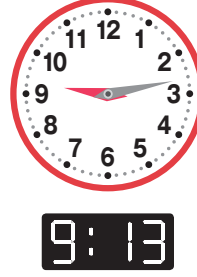



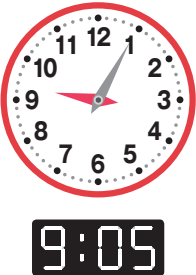
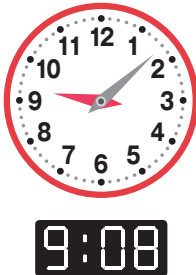

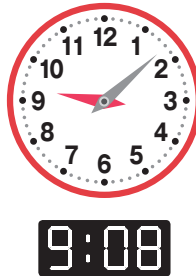
Terms in blue are categories listed in Planetary boundaries:


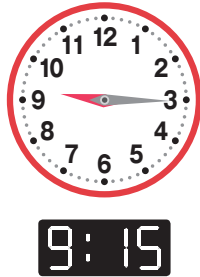
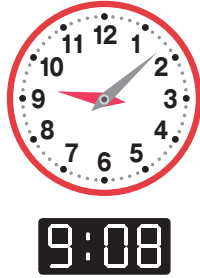
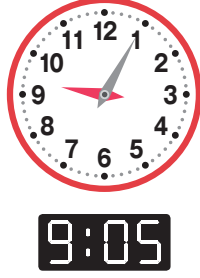






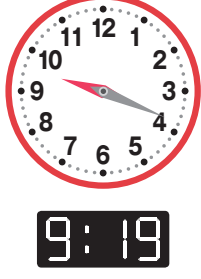

## Reference: Changes in the Environmental Doomsday Clock

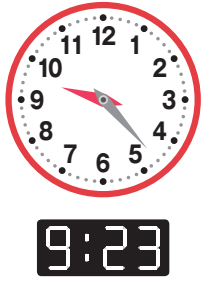
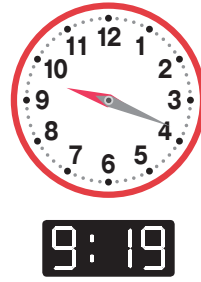
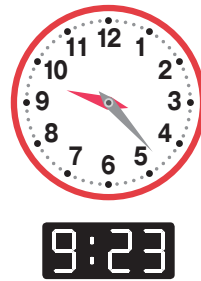
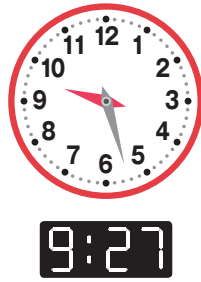


Asian Region\* (except India, China, Taiwan, Korea, Japan)

1992		United States & 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		United States & 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		United States & 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		United States & 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		United States & 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		United States & Canada	9:09	India	-
		Latin America (Central, Caribbean, South)	9:26	China	-
				Taiwan	-
		Western Europe	9:53	Korea	-
		Eastern Europe & Former Soviet Union	9:37	Japan	7:38
		Africa	9:15	Asian Region*	-
Middle East	9:33	Oceania	9:58		
1998		United States & Canada	8:40	India	-
		Latin America (Central, Caribbean, South)	9:04	China	-
				Taiwan	-
		Western Europe	9:37	Korea	-
		Eastern Europe & Former Soviet Union	9:44	Japan	9:01
		Africa	9:08	Asian Region*	-
Middle East	8:47	Oceania	9:34		
1999		United States & Canada	9:03	India	-
		Latin America (Central, Caribbean, South)	9:14	China	-
				Taiwan	-
		Western Europe	8:46	Korea	-
		Eastern Europe & Former Soviet Union	9:21	Japan	9:07
		Africa	9:13	Asian Region*	-
Middle East	9:32	Oceania	8:52		
2000		United States & Canada	8:49	India	-
		Latin America (Central, Caribbean, South)	8:52	China	-
				Taiwan	-
		Western Europe	8:46	Korea	-
		Eastern Europe & Former Soviet Union	8:21	Japan	8:56
		Africa	9:17	Asian Region*	-
Middle East	9:38	Oceania	8:31		
2001		United States & Canada	9:54	India	-
		Latin America (Central, Caribbean, South)	9:00	China	-
				Taiwan	-
		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		United States & Canada	8:23	India	-
		Latin America (Central, Caribbean, South)	9:22	China	-
				Taiwan	-
		Western Europe	8:44	Korea	-
		Eastern Europe & Former Soviet Union	9:28	Japan	9:18
		Africa	9:29	Asian Region*	-
Middle East	8:02	Oceania	9:22		
2003		United States & Canada	9:03	India	-
		Latin America (Central, Caribbean, South)	9:19	China	-
				Taiwan	-
		Western Europe	8:52	Korea	-
		Eastern Europe & Former Soviet Union	9:02	Japan	9:20
		Africa	9:22	Asian Region*	-
Middle East	8:52	Oceania	9:37		
2004		United States & Canada	9:14	India	-
		Latin America (Central, Caribbean, South)	9:12	China	-
				Taiwan	-
		Western Europe	8:56	Korea	-
		Eastern Europe & Former Soviet Union	8:30	Japan	9:06
		Africa	9:04	Asian Region*	-
Middle East	8:41	Oceania	9:08		
2005		United States & Canada	8:54	India	-
		Latin America (Central, Caribbean, South)	9:08	China	-
				Taiwan	-
		Western Europe	8:43	Korea	-
		Eastern Europe & Former Soviet Union	8:26	Japan	9:07
		Africa	9:03	Asian Region*	-
Middle East	9:18	Oceania	9:18		
2006		United States & Canada	9:18	India	-
		Latin America (Central, Caribbean, South)	9:31	China	-
				Taiwan	-
		Western Europe	9:08	Korea	-
		Eastern Europe & Former Soviet Union	9:07	Japan	9:15
		Africa	9:32	Asian Region*	-
Middle East	10:05	Oceania	9:18		

2007		United States & 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		United States & 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		United States & 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		United States & 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		United States & 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		United States & Canada	9:54	India	9:10
		Latin America (Central, Caribbean, South)	10:00	China	8:49
				Taiwan	8:57
		Western Europe	9:55	Korea	9:33
		Eastern Europe & Former Soviet Union	9:12	Japan	9:14
		Africa	10:04	Asian Region*	9:39
Middle East	9:38	Oceania	10:14		
2013		United States & Canada	10:16	India	9:27
		Latin America (Central, Caribbean, South)	9:46	China	9:16
				Taiwan	8:39
		Western Europe	9:40	Korea	9:31
		Eastern Europe & Former Soviet Union	9:48	Japan	9:05
		Africa	9:42	Asian Region*	9:29
Middle East	9:08	Oceania	10:01		
2014		Oceania	10:08	Africa	9:09
		United States & Canada	9:55	Eastern Europe & Former Soviet Union	8:51
		Central, Caribbean America	9:12		
		South America	9:23	Middle East	9:21
		Western Europe	9:33	Asia	9:15
2015		Oceania	10:06	Africa	9:00
		United States & Canada	10:01	Eastern Europe & Former Soviet Union	8:59
		Central, Caribbean America	9:47		
		South America	9:47	Middle East	9:10
		Western Europe	9:42	Asia	9:15
2016		Oceania	10:01	Africa	9:09
		United States & Canada	9:58	Eastern Europe & Former Soviet Union	8:51
		Central, Caribbean America	9:38		
		South America	9:48	Middle East	10:06
		Western Europe	9:47	Asia	9:18
2017		Oceania	10:13	Africa	9:12
		United States & Canada	10:08	Eastern Europe & Former Soviet Union	8:47
		Central, Caribbean America	9:19		
		South America	9:32	Middle East	9:05
		Western Europe	9:45	Asia	9:25

2018		Oceania	10:03	Africa	9:28
		United States & 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







# The Environmental Doomsday Clock 2018



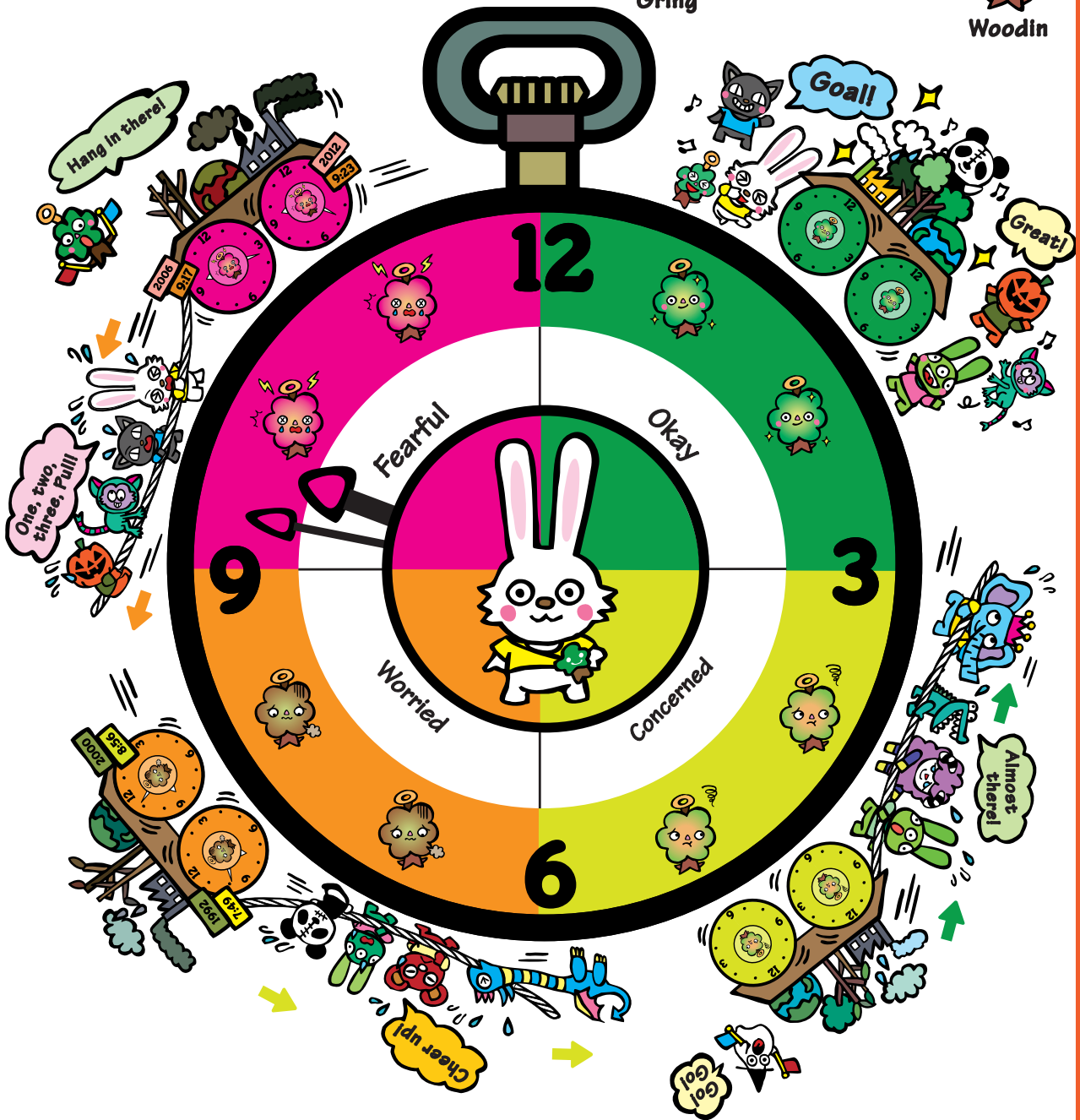
The time of  
2018 is

## 9:47

Fearful



Woodin



[www.af-info.or.jp](http://www.af-info.or.jp)

af THE ASAHI GLASS FOUNDATION

Designed by  
**Entrex inc.**  
[www.entrex.co.jp](http://www.entrex.co.jp)  
[inas-atelier.com](http://inas-atelier.com)





**Results of the 27th Annual  
“Questionnaire on Environmental Problems and the Survival of Humankind”**

**REPORT**

---

September 2018  
Published by the Asahi Glass Foundation  
2nd Floor, Science Plaza, 5-3, Yonbancho  
Chiyoda-ku, Tokyo 102-0081, Japan  
Phone +813 5275 0620  
Fax +813 5275 0871

---

**If you have inquiries regarding this questionnaire,  
please contact Junichi Shimizu at the Asahi Glass Foundation.**



**af** **THE ASAHI GLASS FOUNDATION**  
2nd Floor, Science Plaza, 5-3, Yonbancho  
Chiyoda-ku, Tokyo 102-0081, Japan  
Tel.: +81 3 5275 0620 Fax: +81 3 5275 0871  
E-Mail: [post@af-info.or.jp](mailto:post@af-info.or.jp)  
URL: <http://www.af-info.or.jp>