







## Subpart OO - Suppliers of Industrial Greenhouse Gas

### Worksheet Instructions:

Please report the facilities in your organization that destroy imported f-

### Version:

R.05

### External Links:

Subpart OO Resources Page: <http://www2.epa.gov/ghgrepc>

Reporting Form Help Content: <http://www.ccdsupport.com/c>

Optional Calculation Spreadsheet: <http://www.ccdsupport.com/c>

### Workbook Navigation:

[Part 1- Importer Information](#)

[Part 2 - GHG Import Information](#)

[Part 3 - Import Destruction Information](#)

### Part 3 - Import Destruction Information

**Instructions: Provide the following information for each facility.**  
*These may be facilities owned or operated by the importer.*

Enter facility information for the first row of each facility.

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	Facility Name [98.416(c)(10)]	Facility Street Address [98.416(c)(10)]
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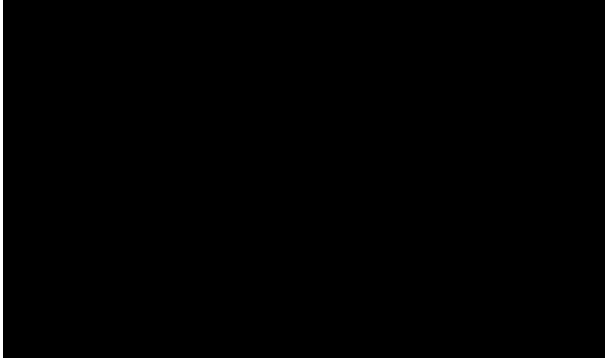






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into all applicable rows.

8.b	8.c
<b>r transferred to another destruction facility</b> activate column '8.b' for a comprehensive list of information required in columns 9, 10, and 11 (8), and (c)(10]	<b>CASRN</b> <b>[98.416(c)(2)]</b>
	















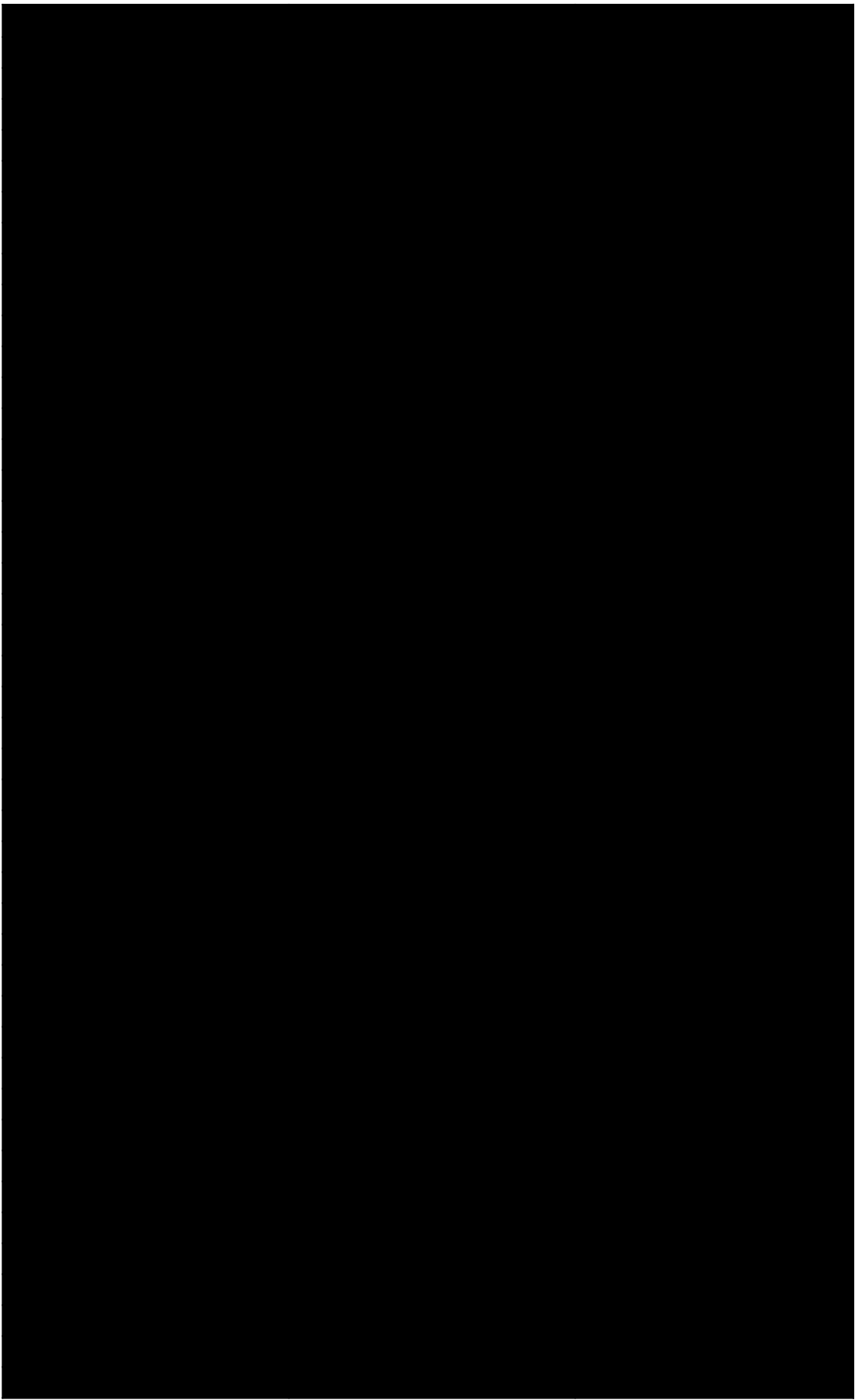


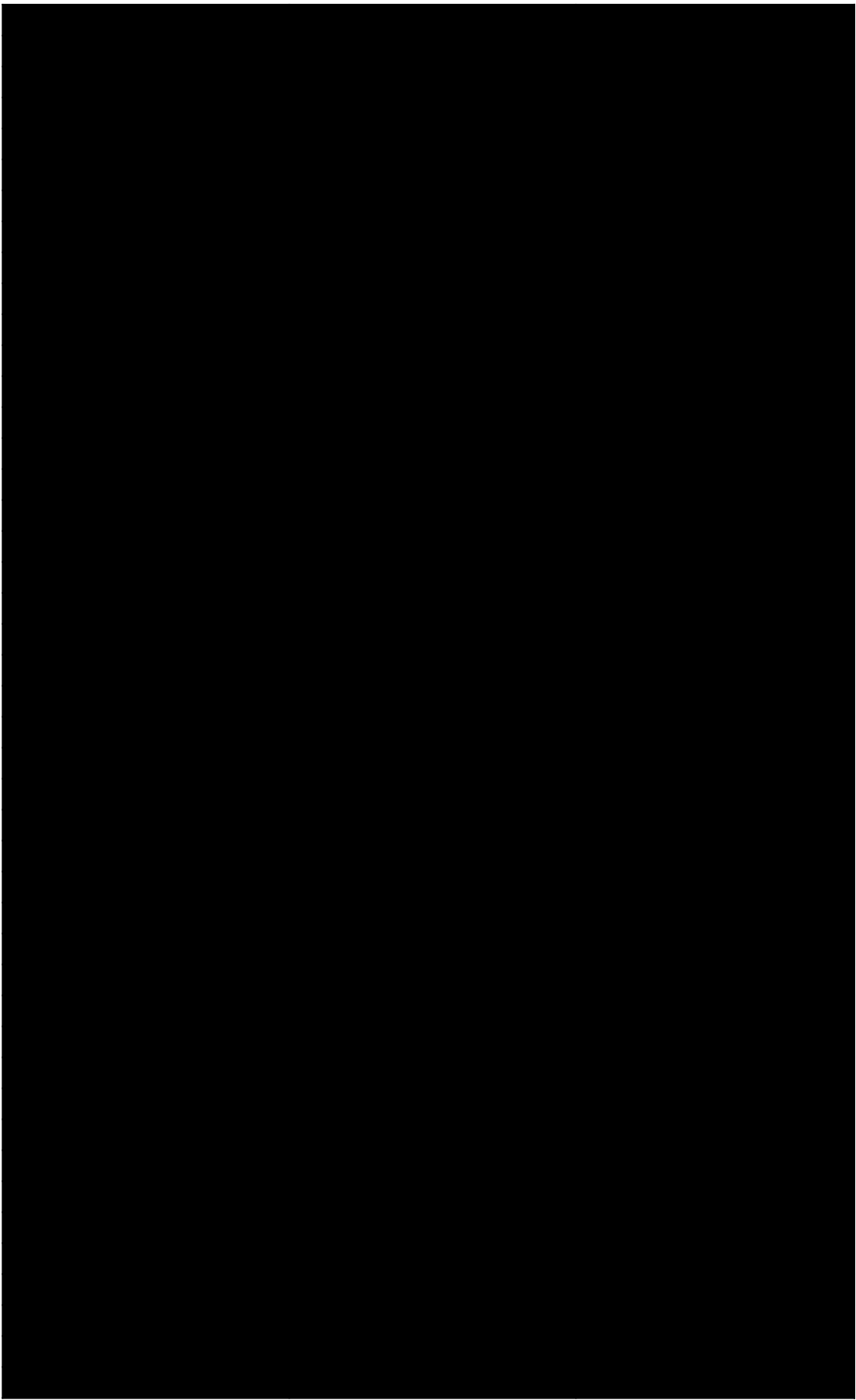


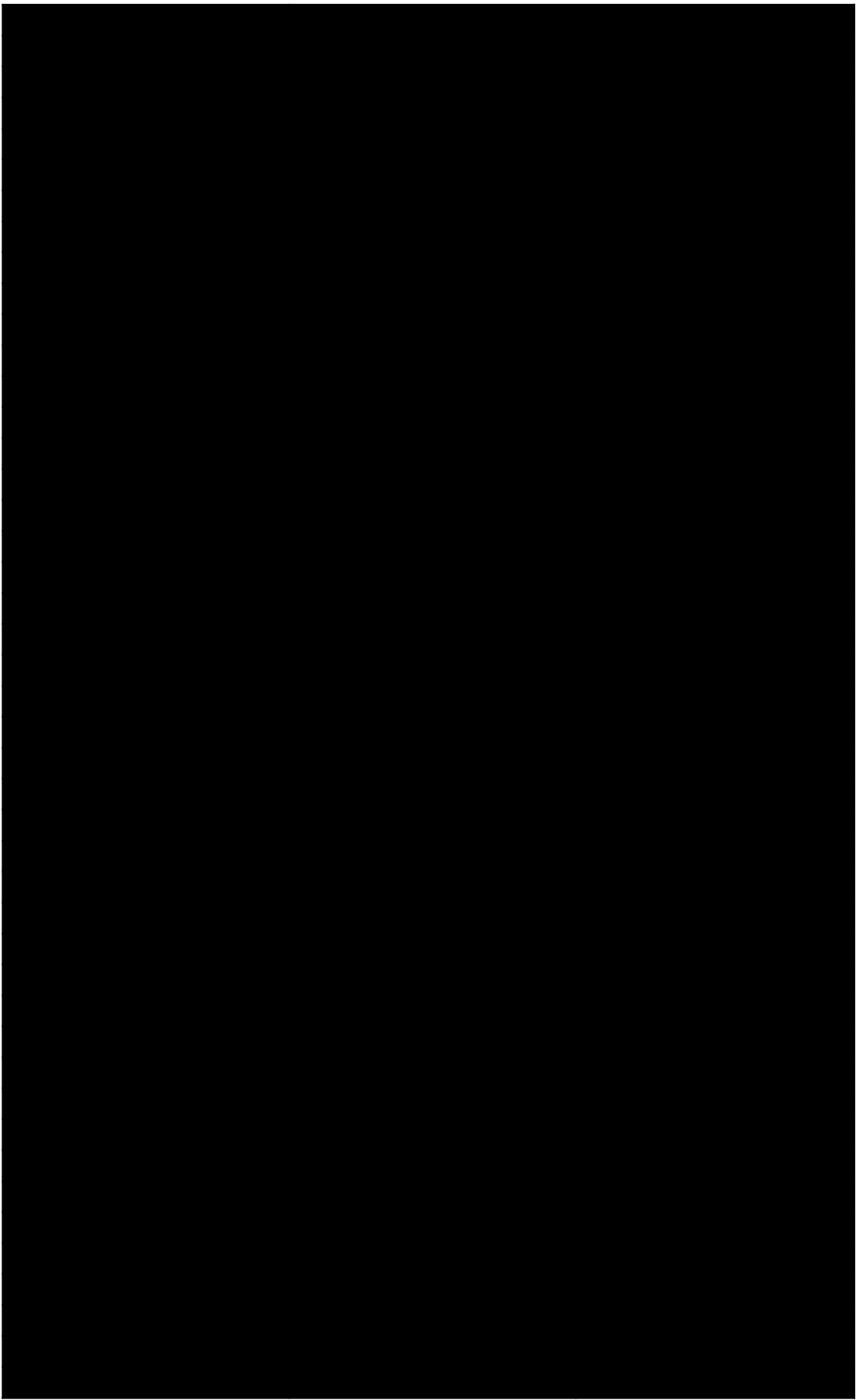


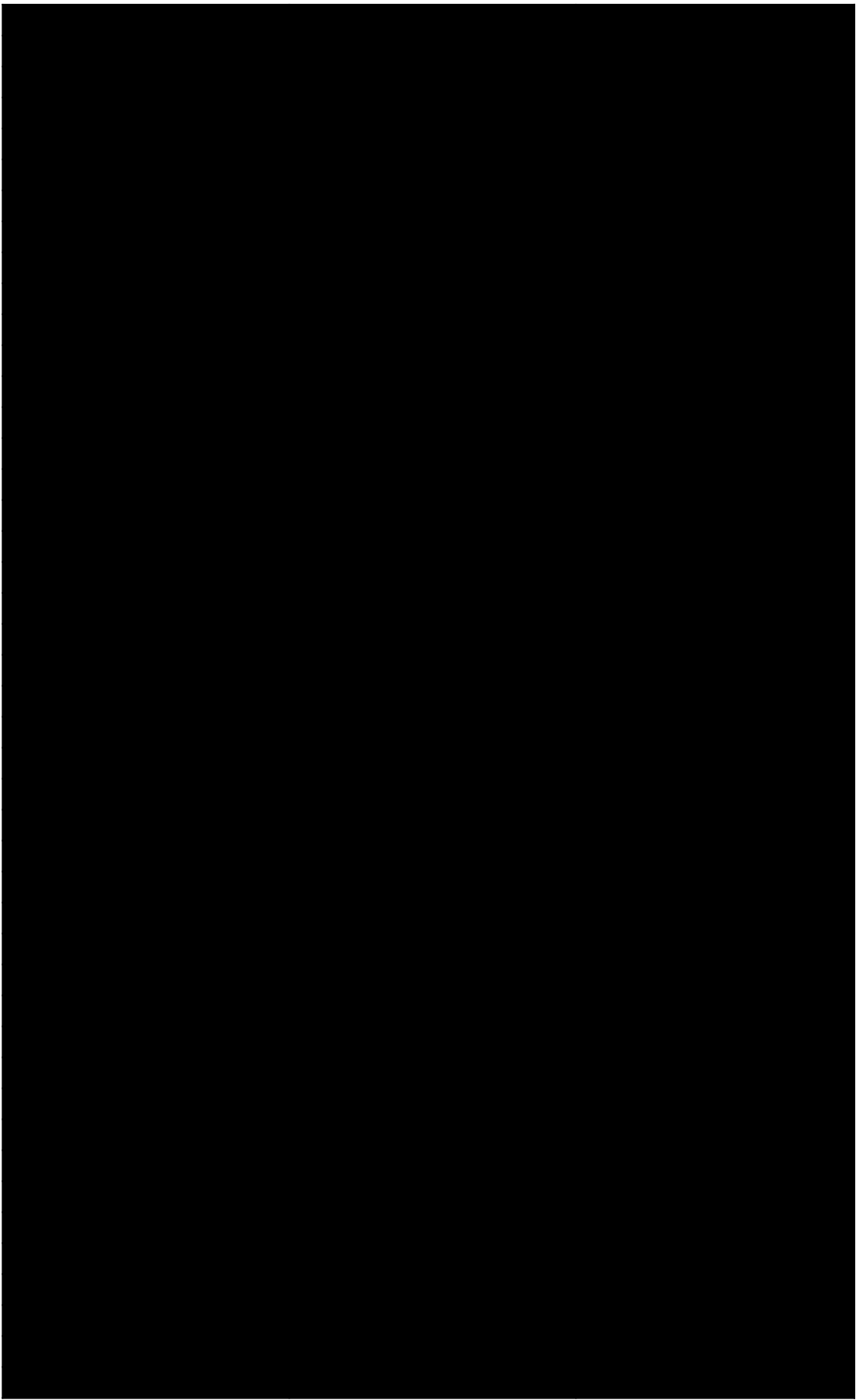
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F-GHG Information		
9	10	11
<b>Other F-GHG:</b>	<b>CASRN:</b>	<b>Chemical Formula:</b>
<p>If an F-GHG is not listed, enter its name, Chemical Abstract System Registry Number (CASRN) and Chemical Formula. Chemical names and CASRNs can often be found in EPA's Substance Registry Services (SRS)</p> <p><b>[98.416(c)(2), (c)(8), and (c)(10)]</b></p>		

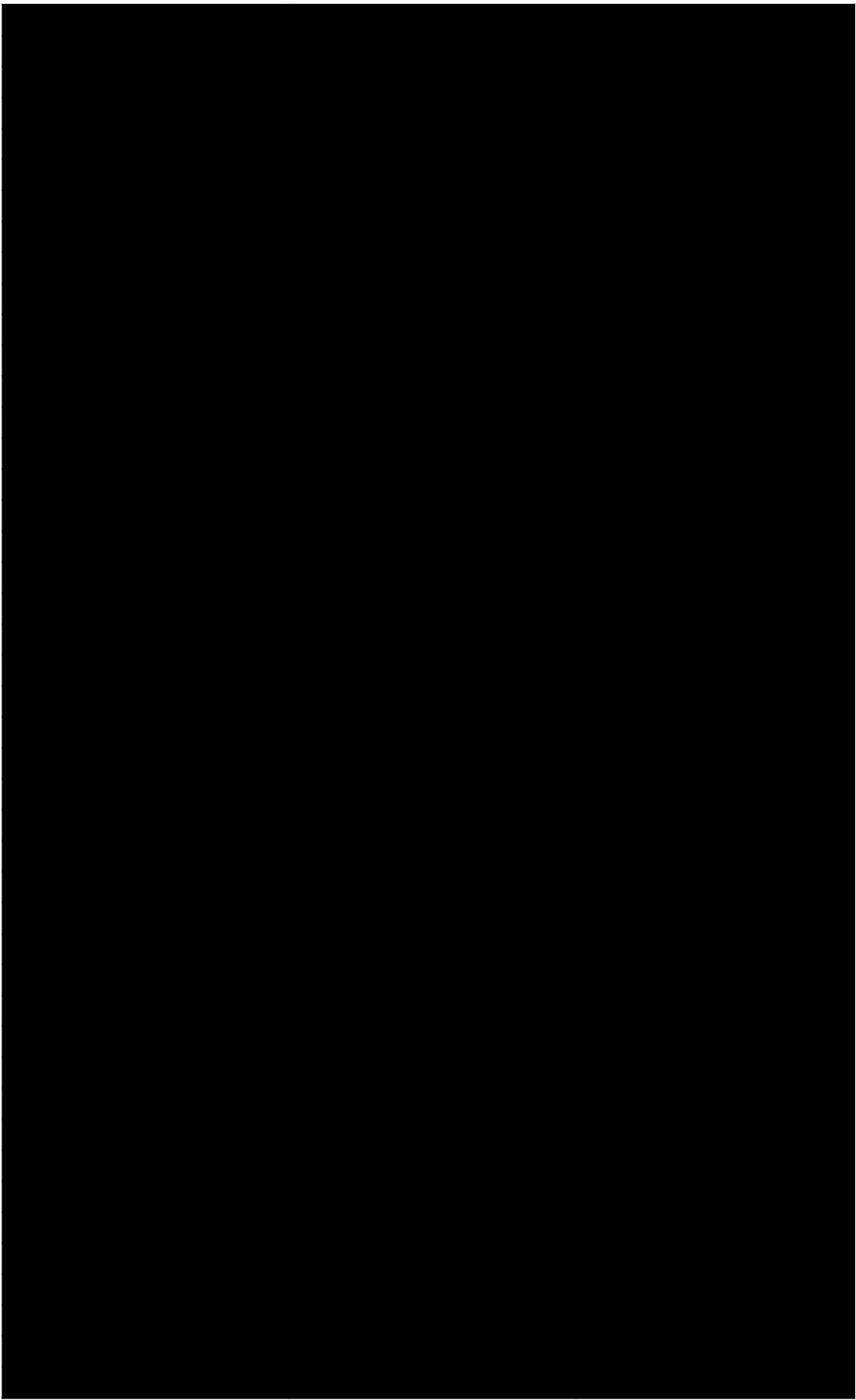


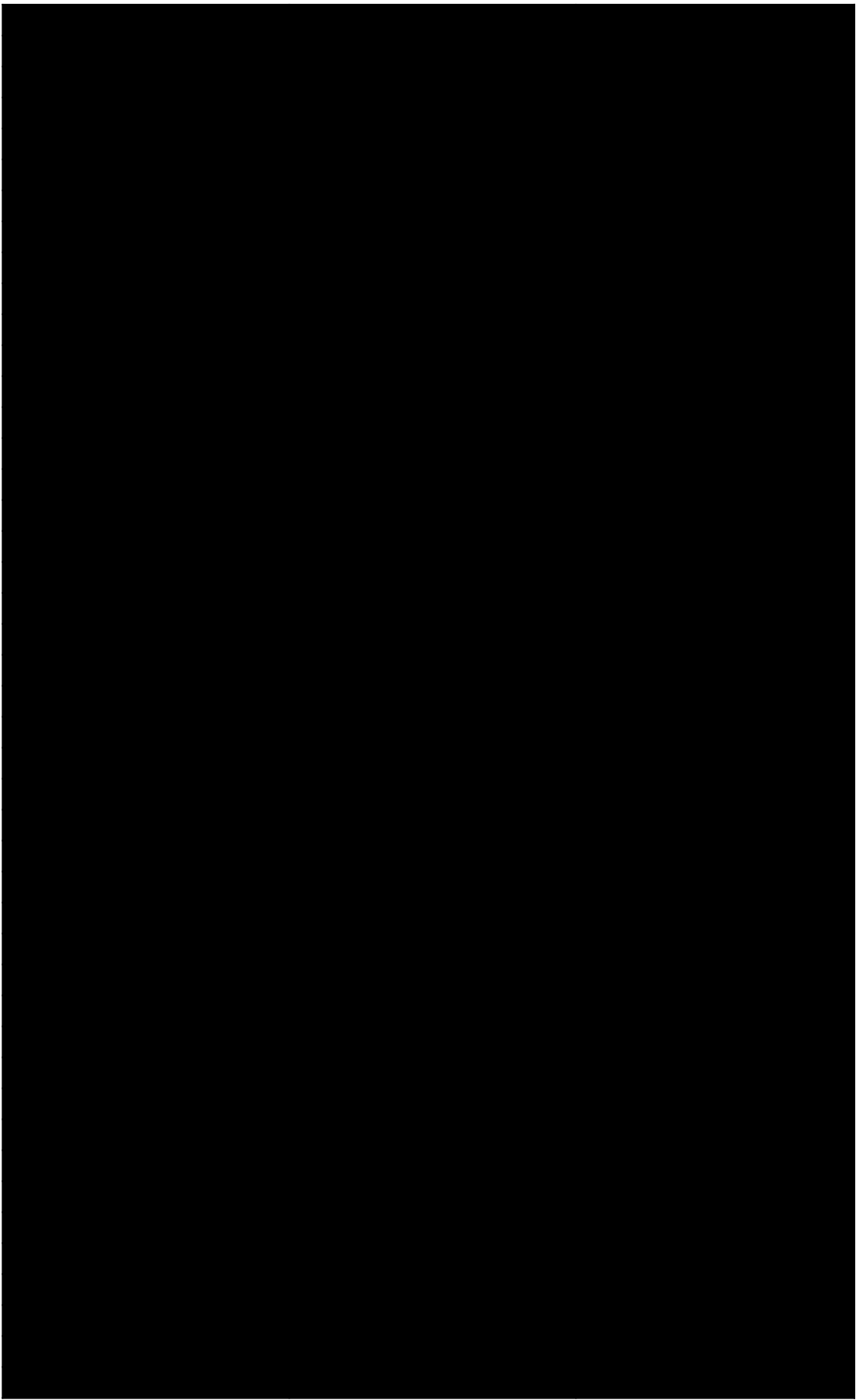


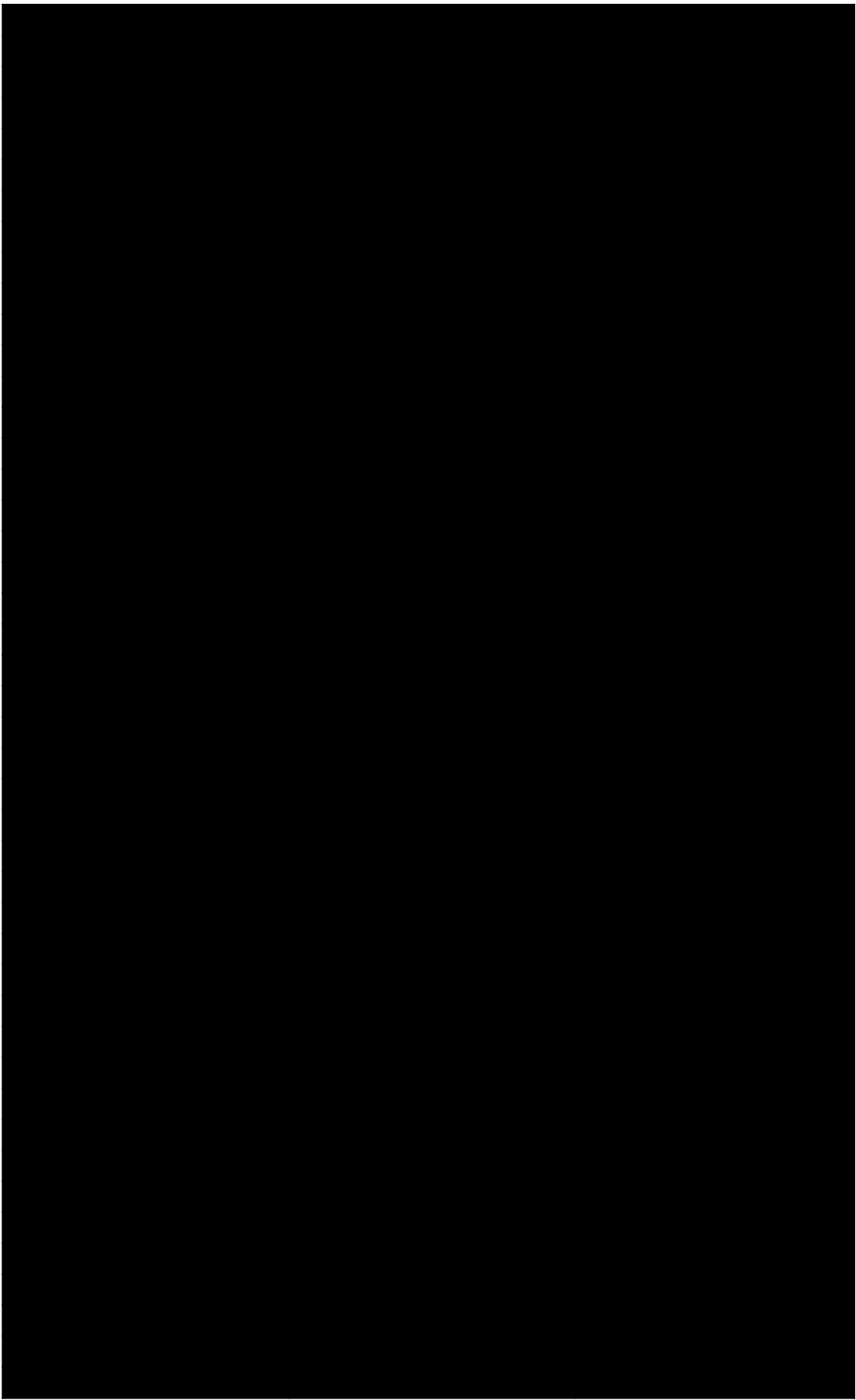


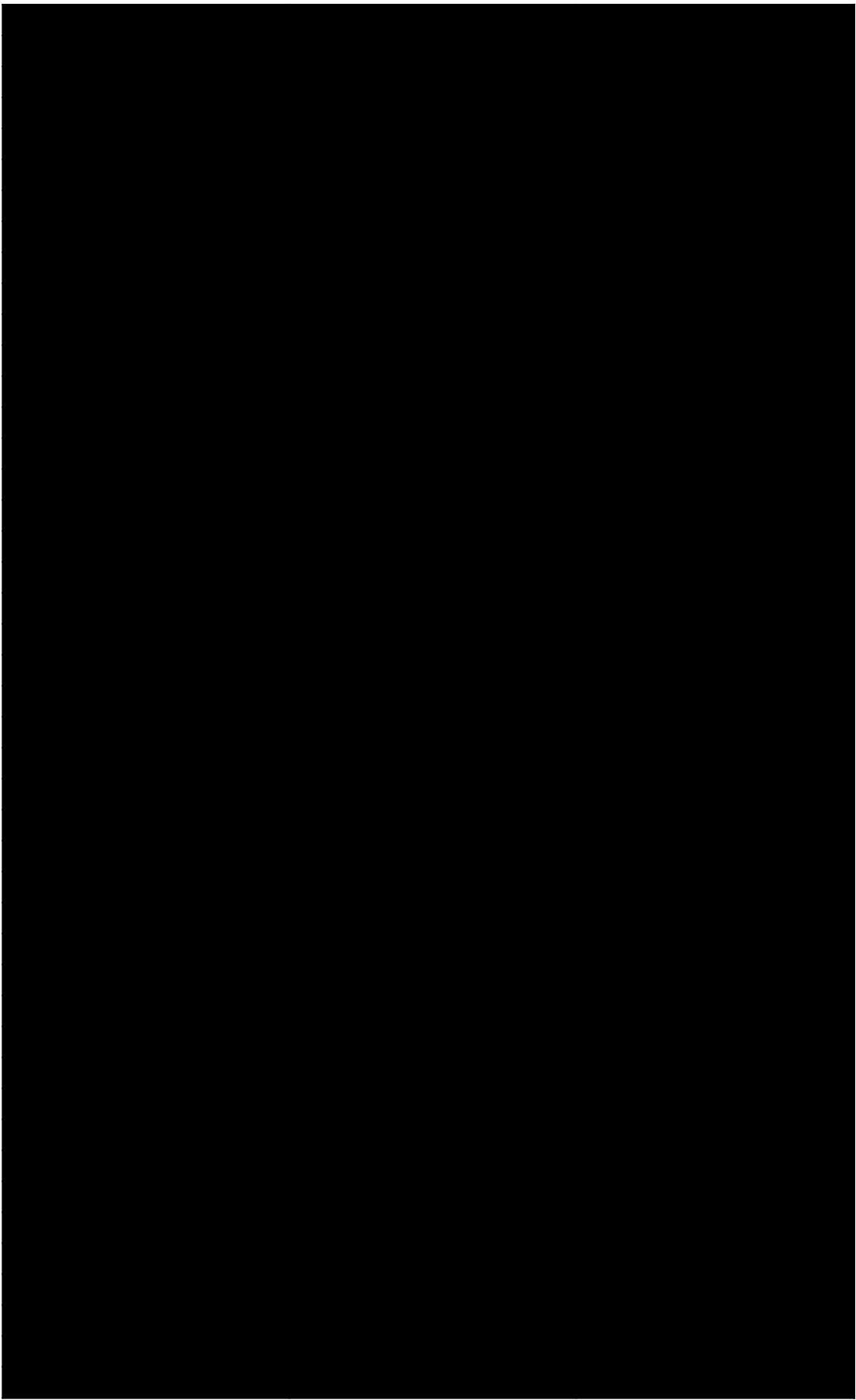


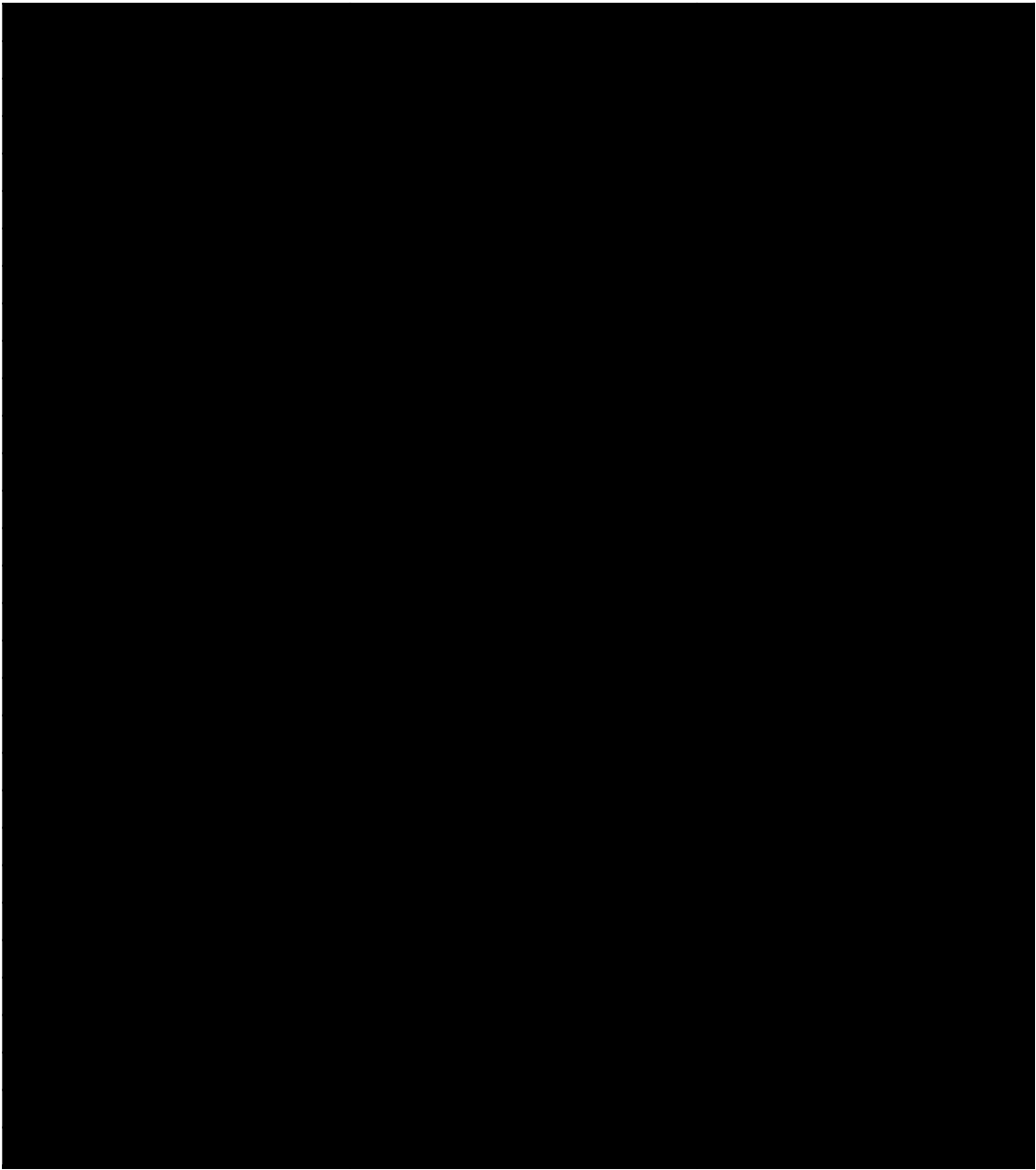












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12	13
<p>Specify f-GHG Category for Purposes of Estimating GWP (if necessary)</p> <p>[98.3(c)(5)(ii)]</p>	<p>Mass Destroyed (metric tons)</p> <p>[98.416(c)(2), (c)(8), and (c)(10)]</p>
[REDACTED]	



























# Subpart OO - Suppliers of Industrial Greenhouse Gases, For Bulk Impo

## Worksheet Instructions:

Please report the facilities in your organization that transform imported f-GHGs or N2O below.

## Version:

R.05

## External Links:

Subpart OO Resources Page: <http://www2.epa.gov/ghgreporting/subpart-oo-suppliers-inc>

Reporting Form Help Content: <http://www.ccdsupport.com/confluence/display/help/Report>

Optional Calculation Spreadsheet: <http://www.ccdsupport.com/confluence/display/help/Optional>

## Workbook Navigation:

[Part 1- Importer Information](#)

[Part 4 - Import Transformation](#)

[Part 2 - GHG Import Information](#)

[Part 5 - Exporter Information](#)

[Part 3 - Import Destruction Information](#)

[Part 6 - GHG Export Information](#)

## Part 4 - Import Transformation Information

Instructions: Provide the following information for each facility to which  
Enter facility information for the first row of each facility, then enter any o

### Facility Information [98.416(c)(9)]

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	Facility Name	Facility Street Address	Facility City
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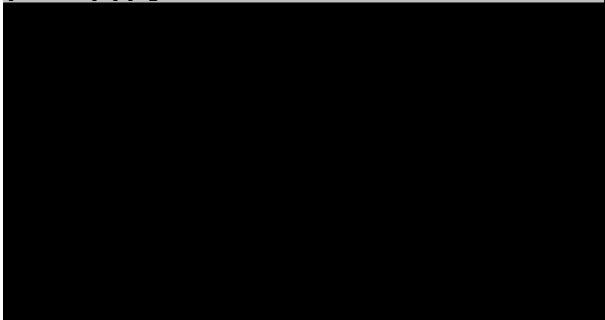








Report all significant figures (including fractions of a metric ton, if applicable) for any transformation facility, copy the information from columns 1-5

6.b	6.c
<p><b>Sold or transferred to another facility for information</b></p> <p>Activate column '8.b' for a comprehensive list of information required in columns 7, 8, and 9)</p> <p>(c) and (c)(9]</p>	<p><b>CASRN</b></p> <p><b>[98.416(c)(2)]</b></p>
	





















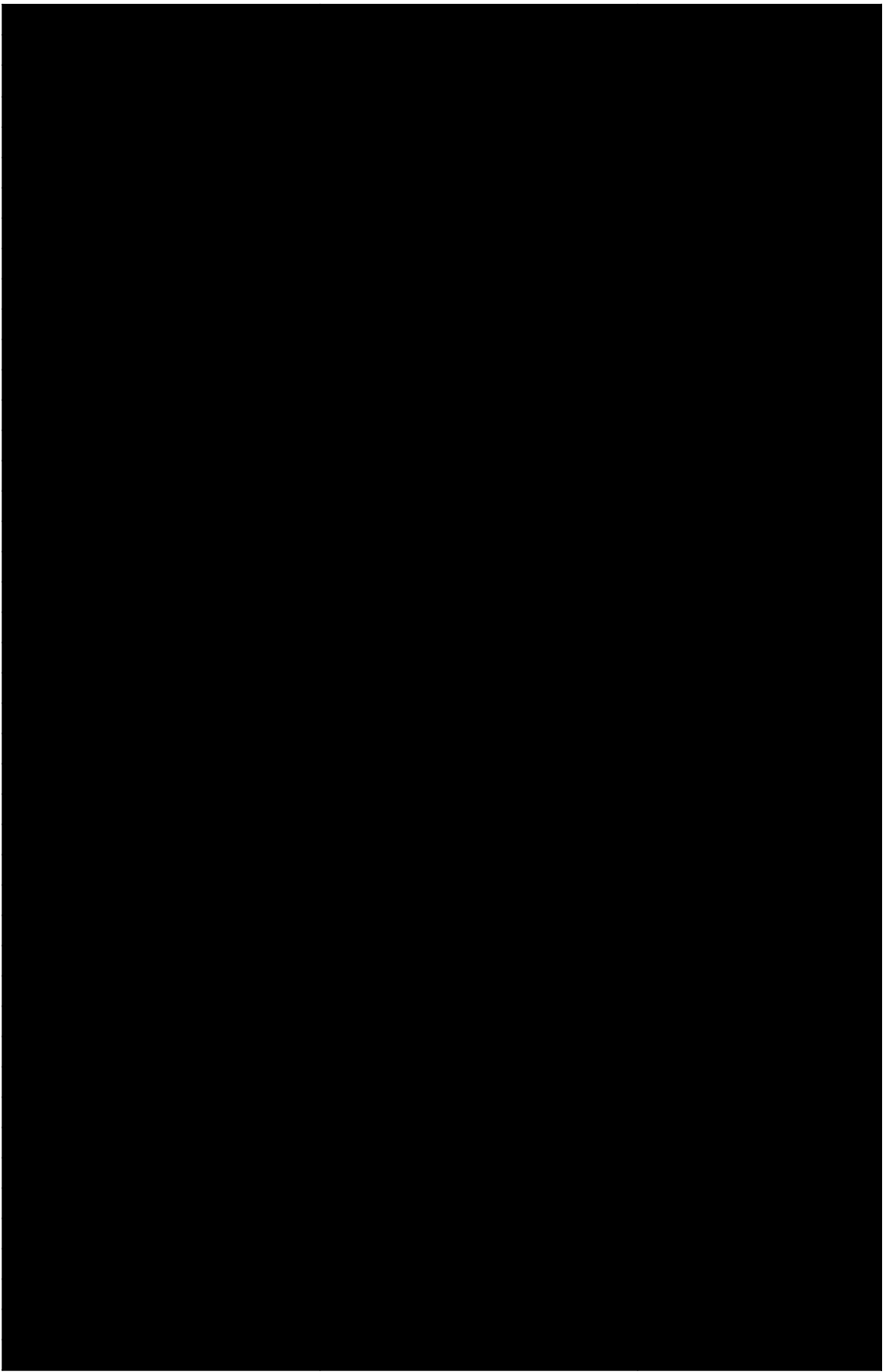
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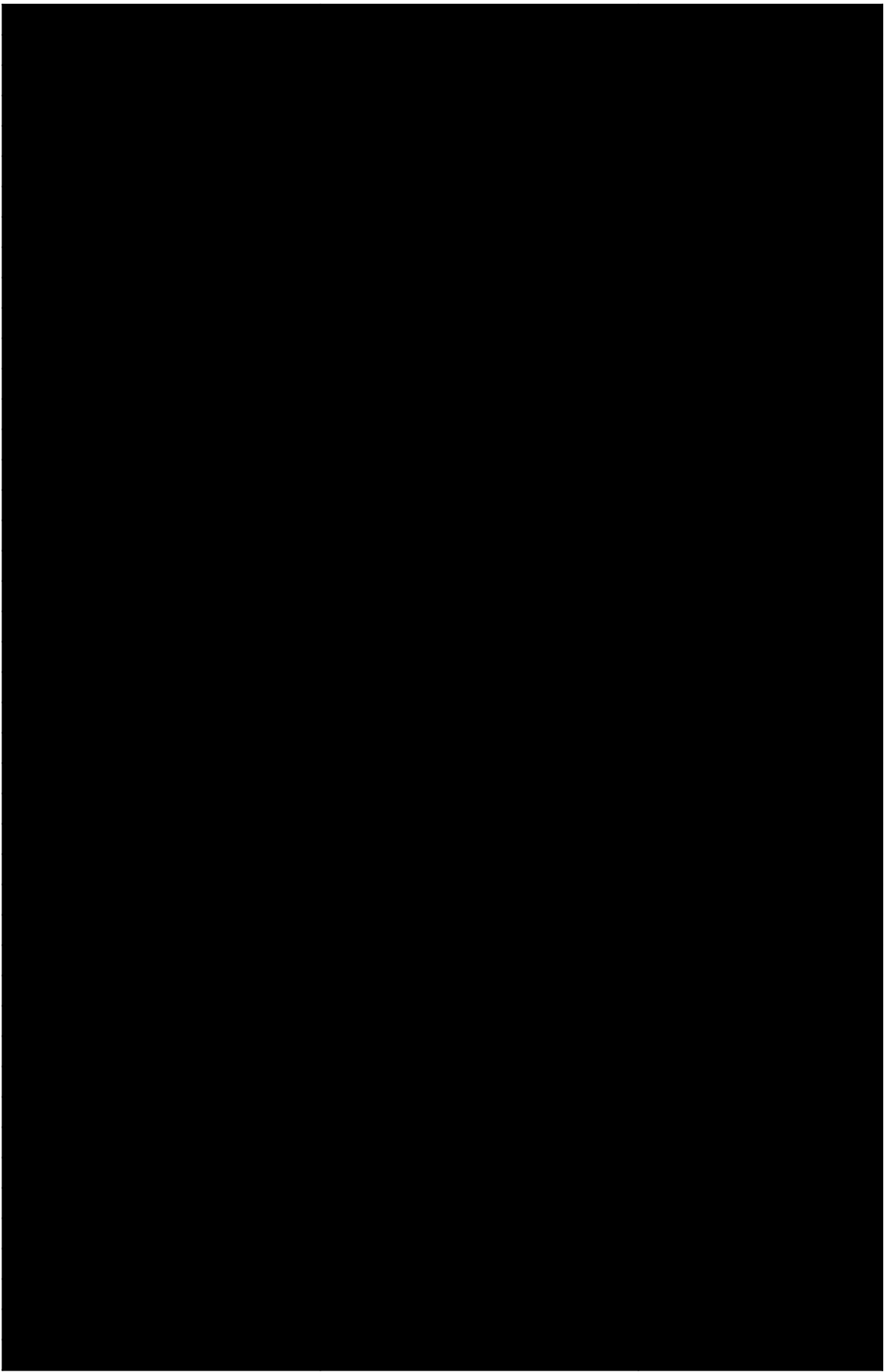
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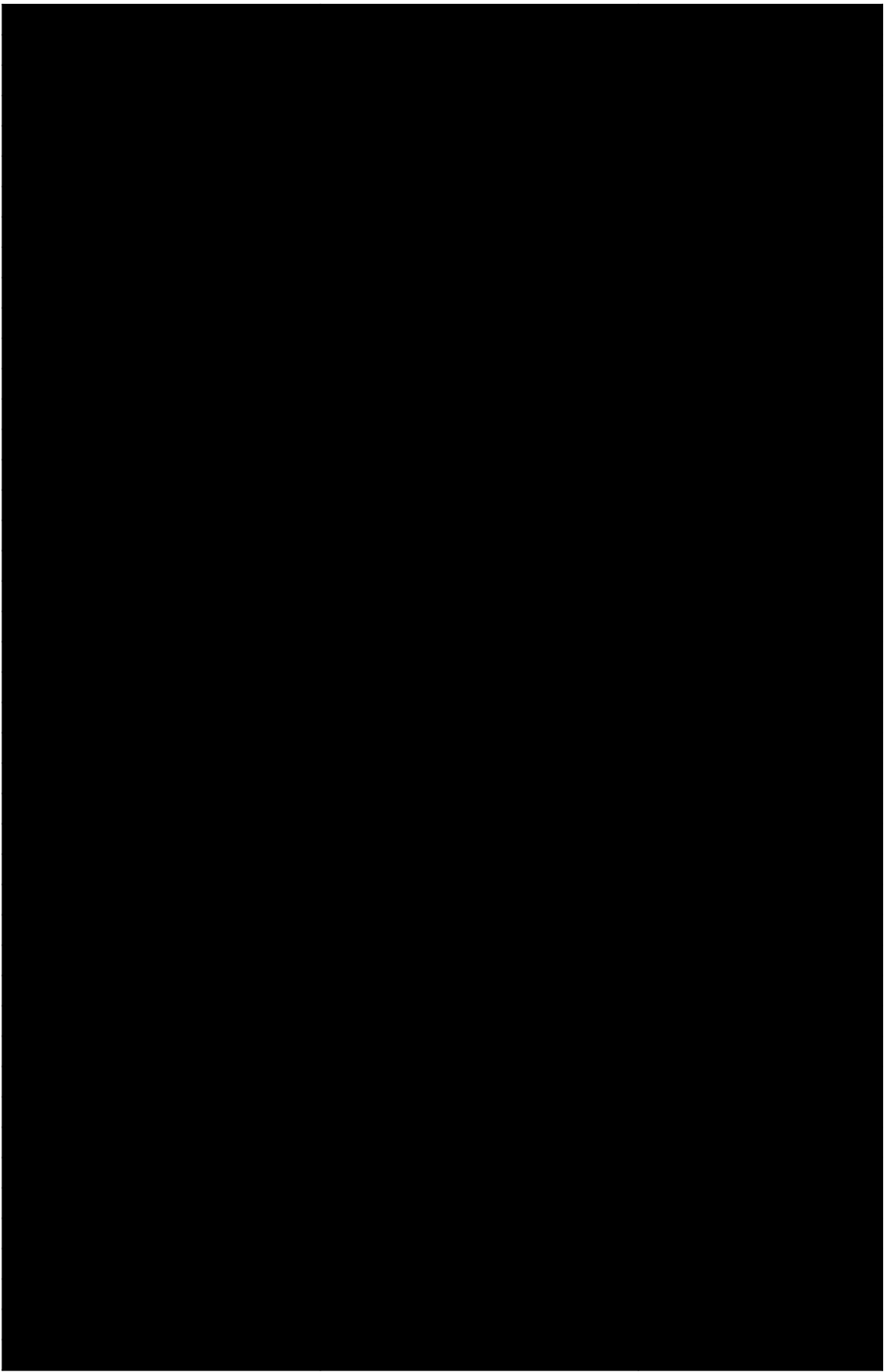
into all applicable rows.

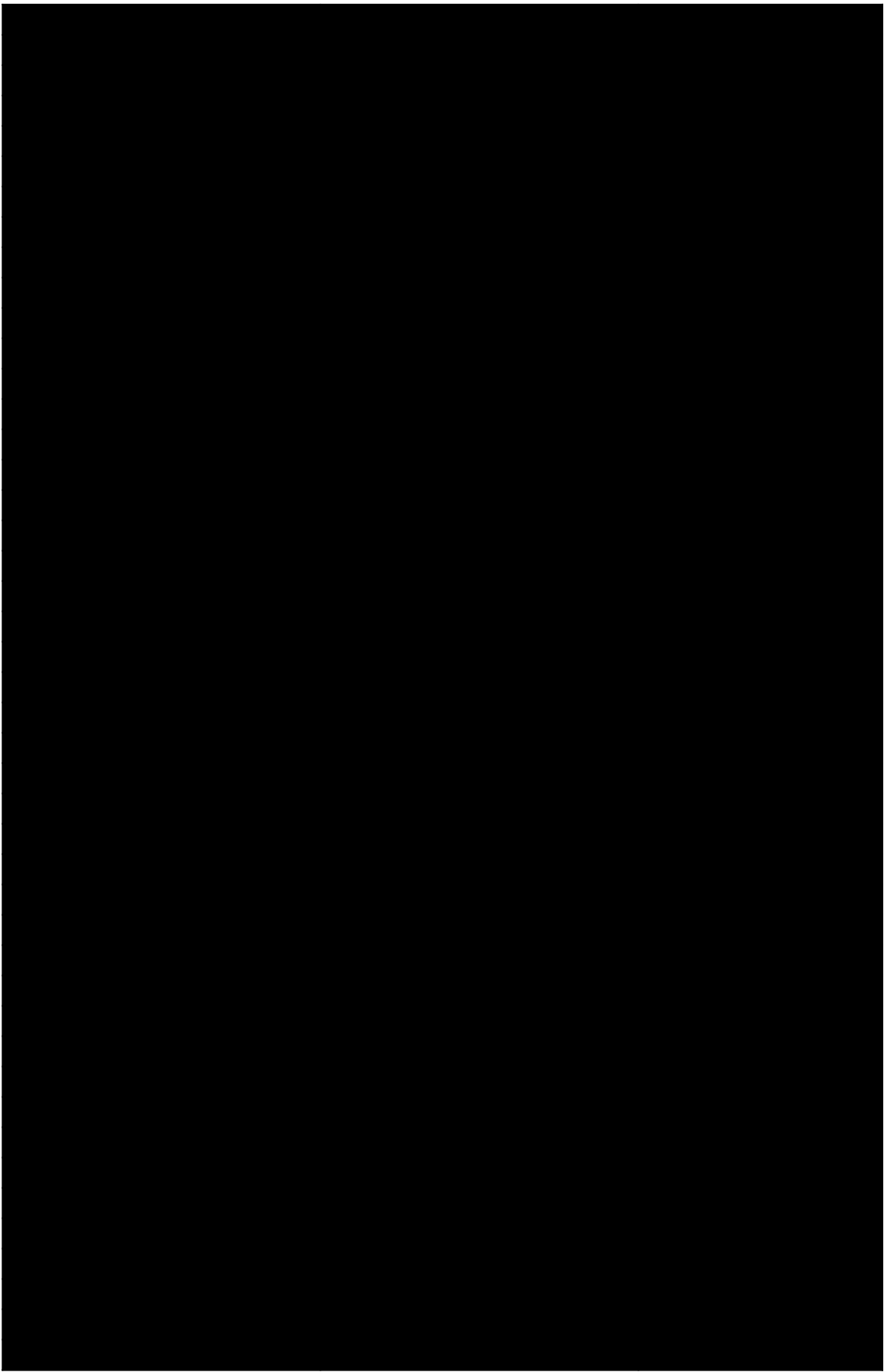
F-GHG and N <sub>2</sub> O Information		
7	8	9
<b>Other F-GHG:</b>	<b>CASRN:</b>	<b>Chemical Formula:</b>
<p>If an F-GHG is not listed, enter its name, Chemical Abstract System Registry Number (CASRN) and Chemical Formula. Chemical names and CASRNs can often be found in EPA's Substance Registry Services (SRS)</p> <p><b>[98.416(c)(2) and (c)(9)]</b></p>		

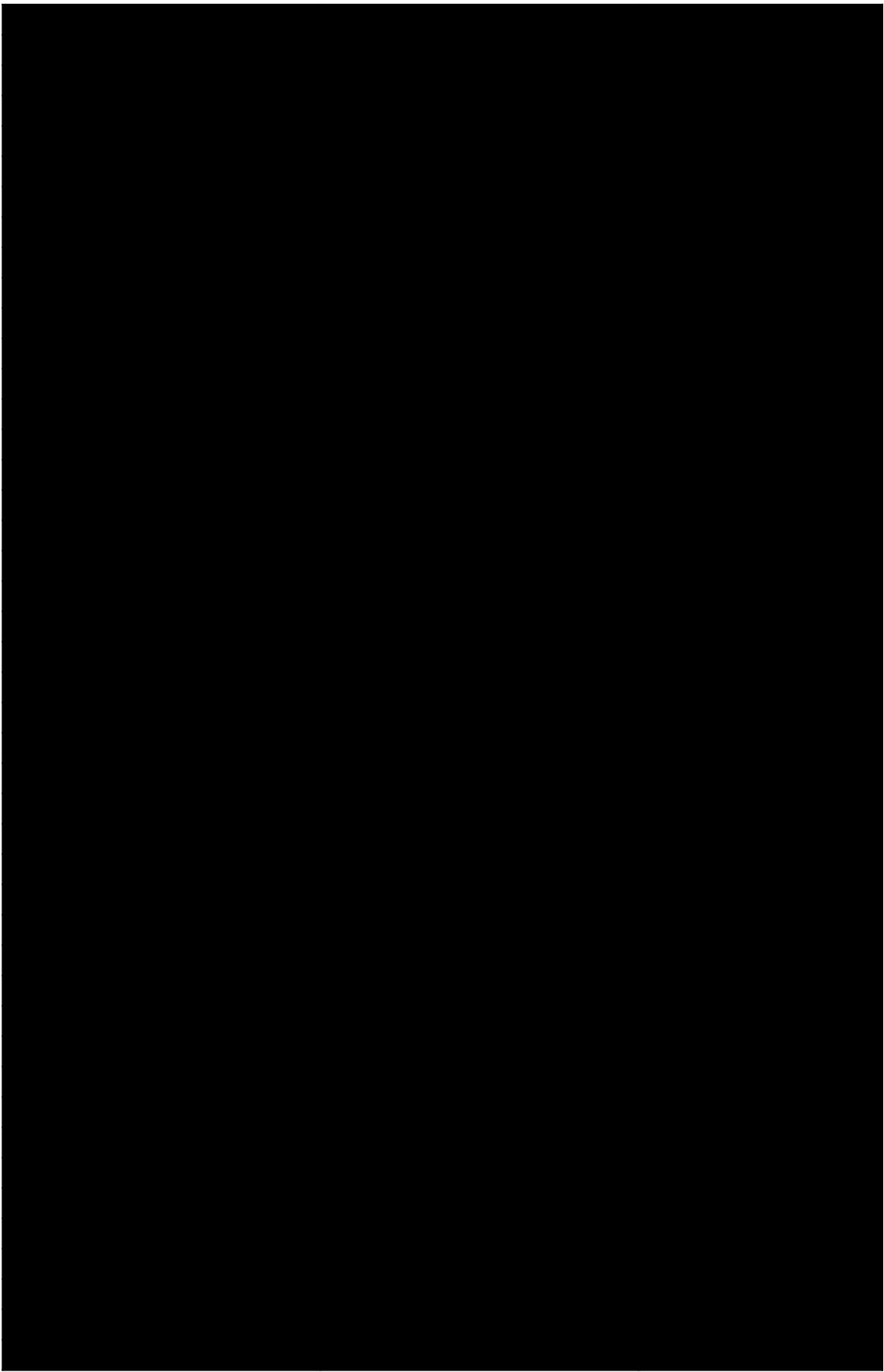


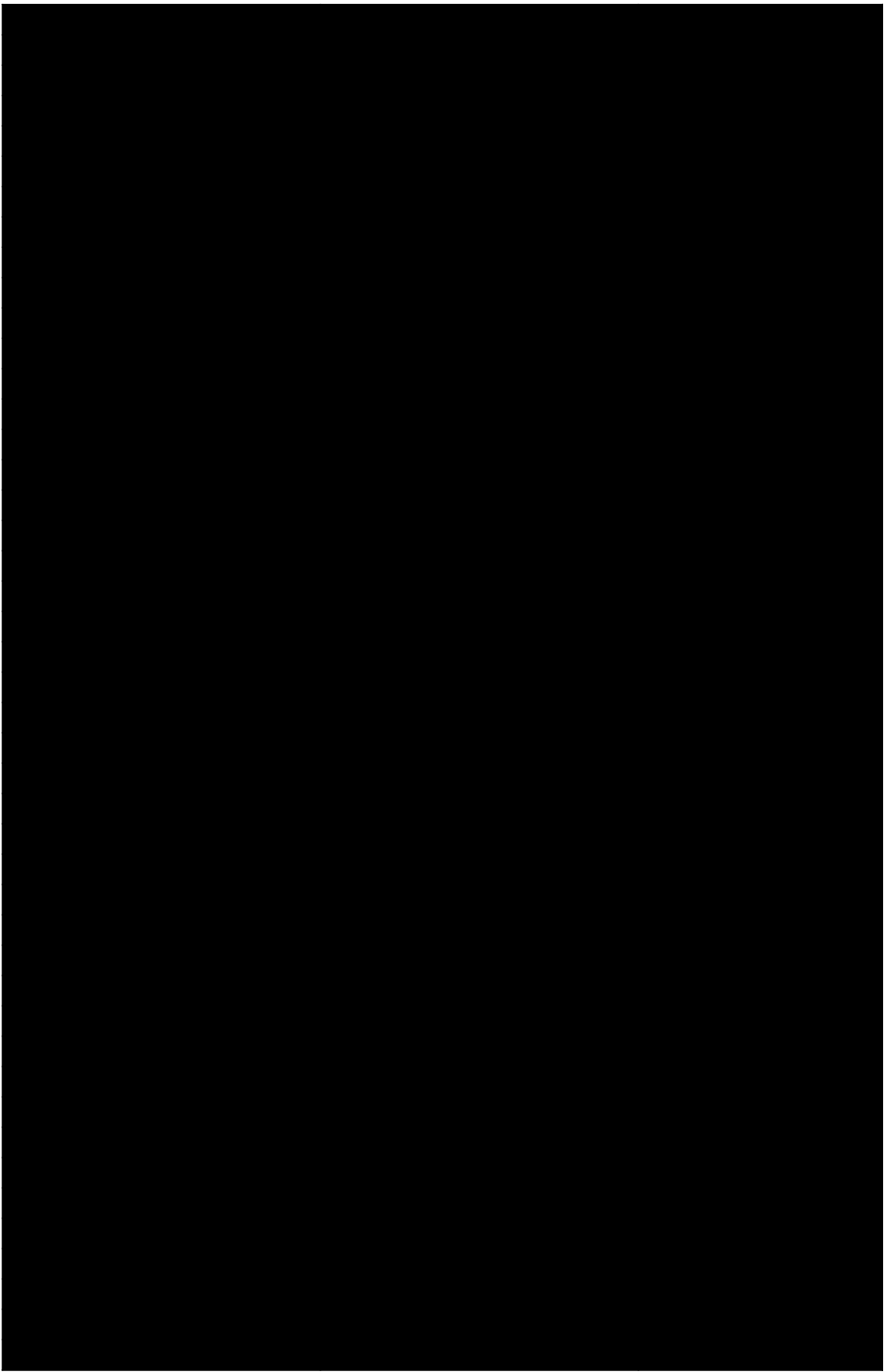


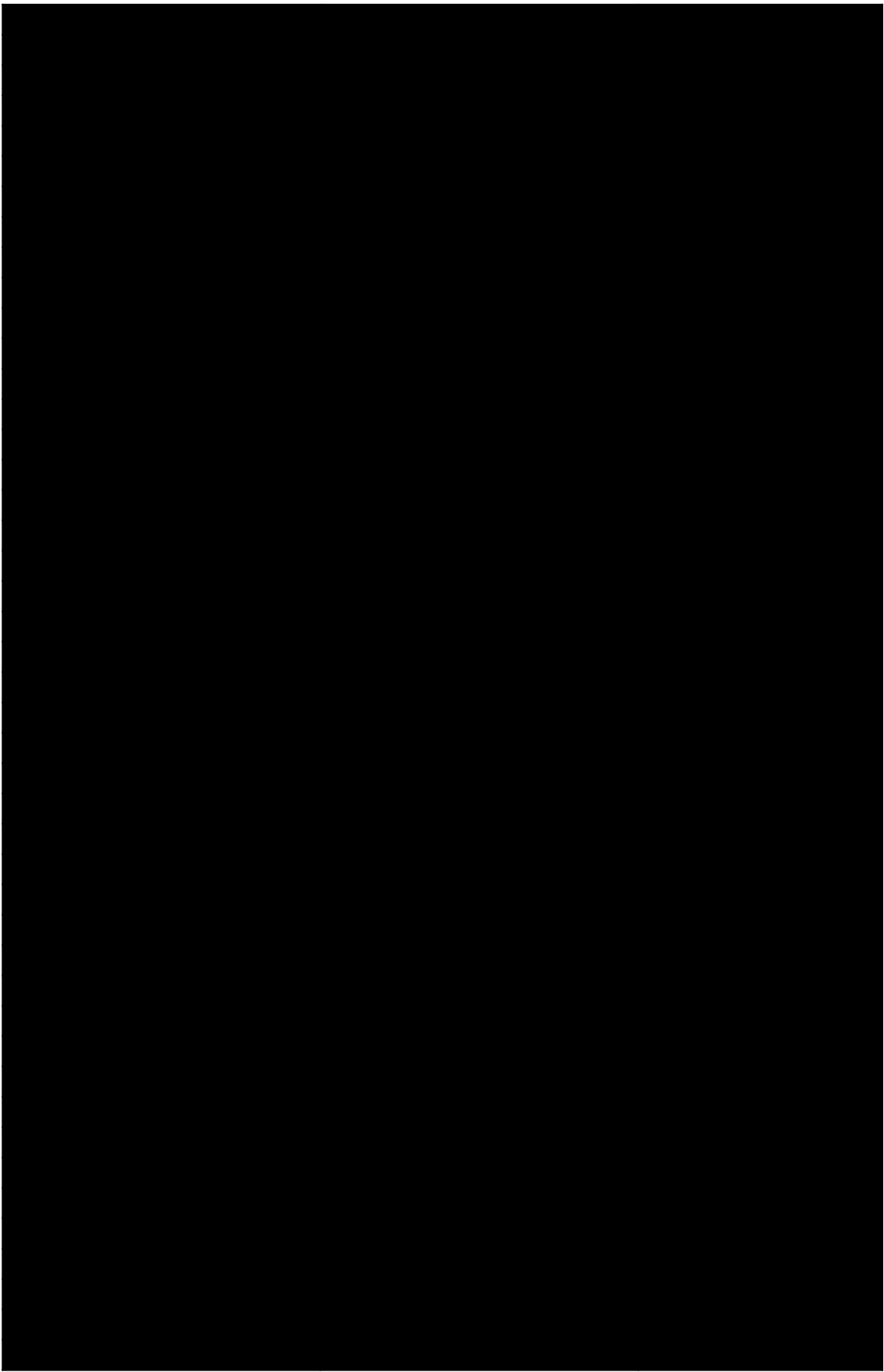


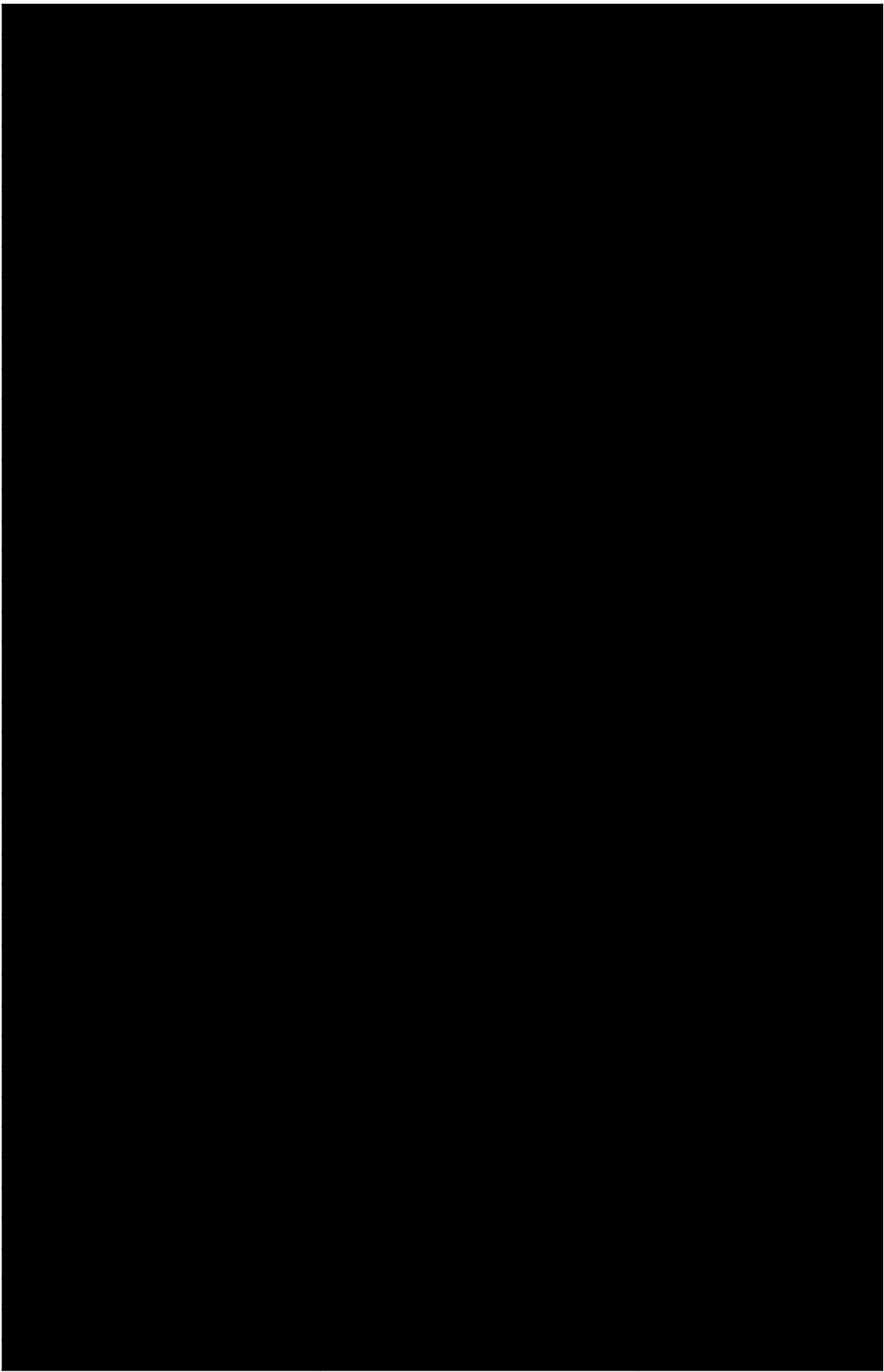




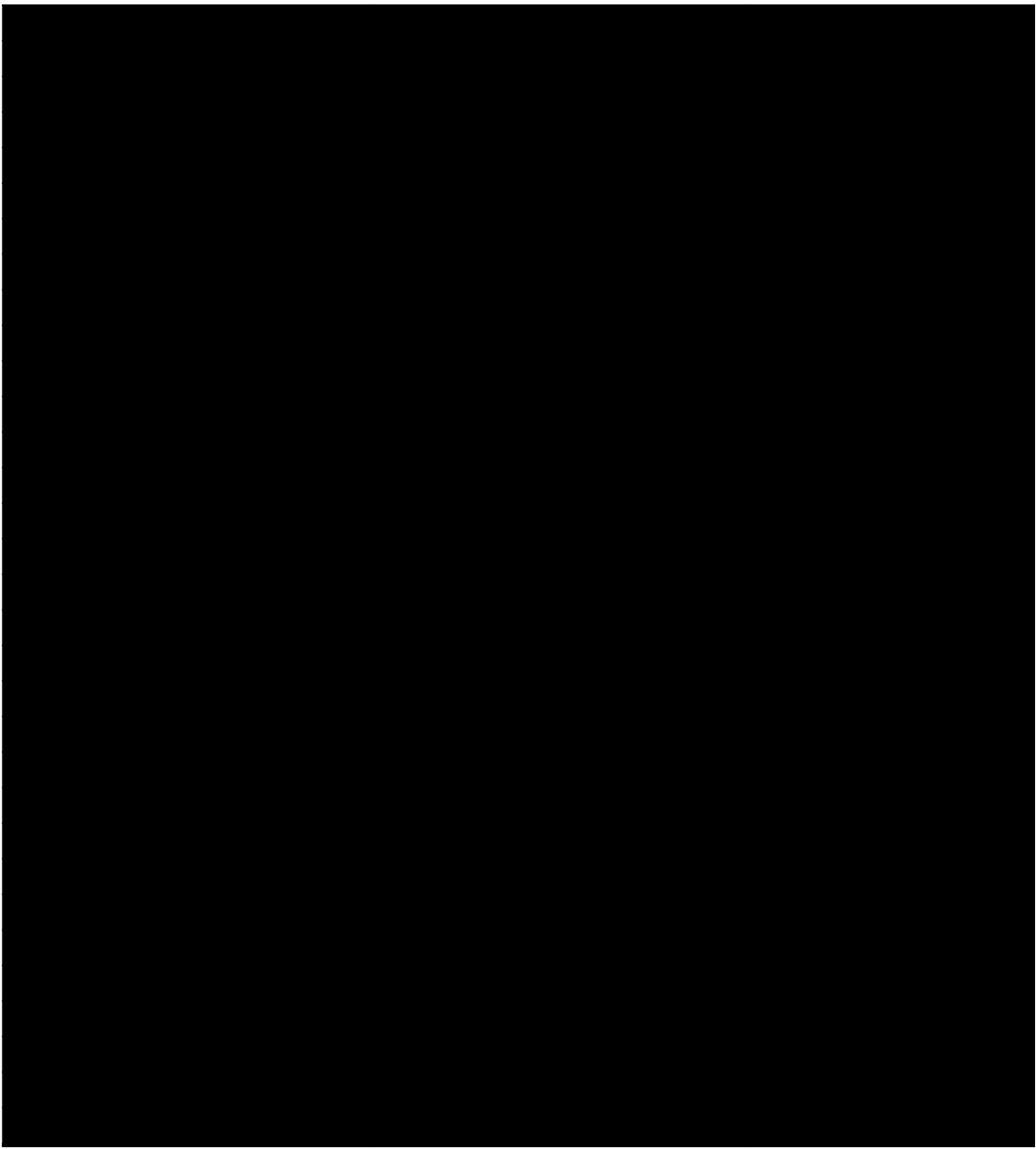






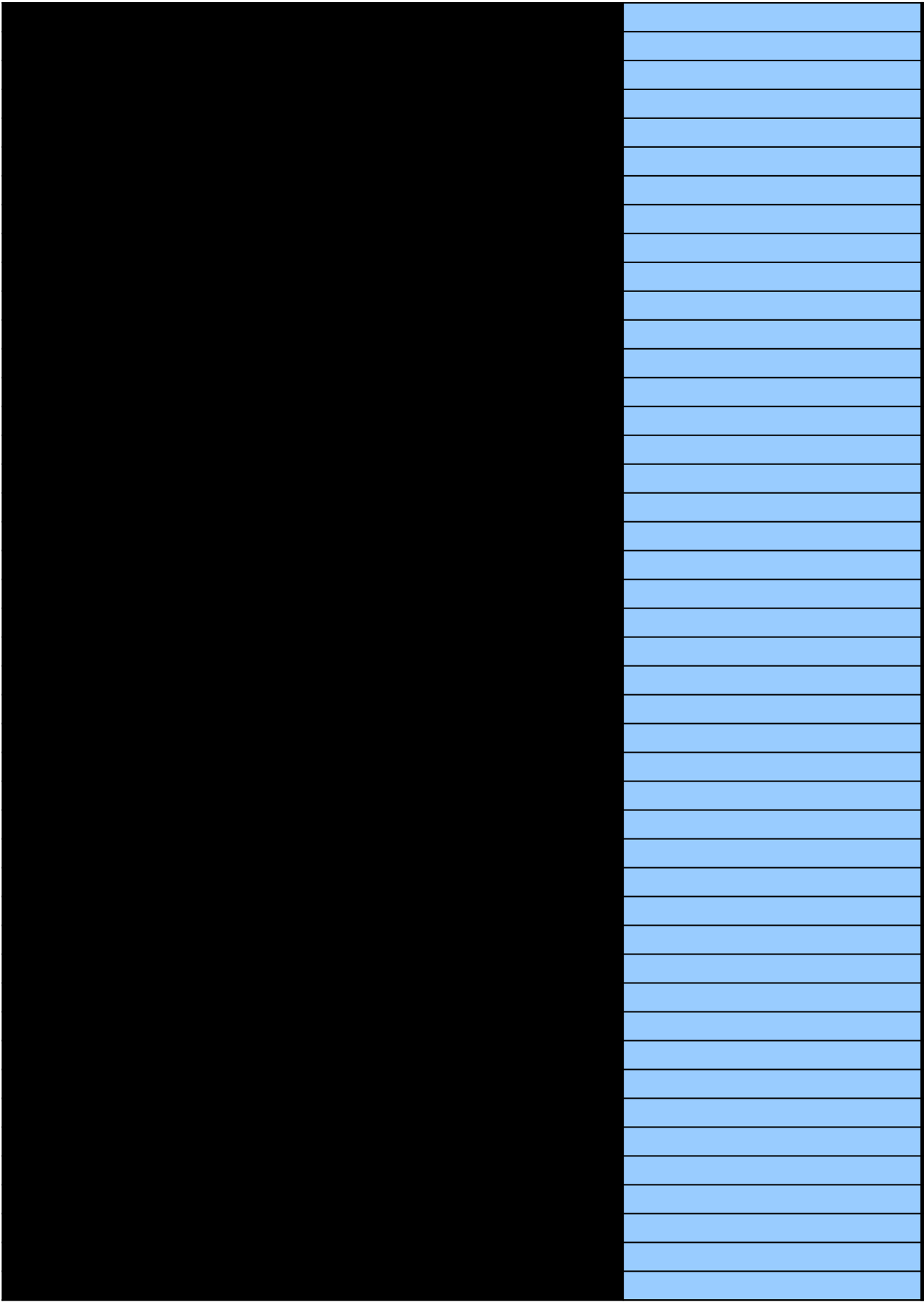


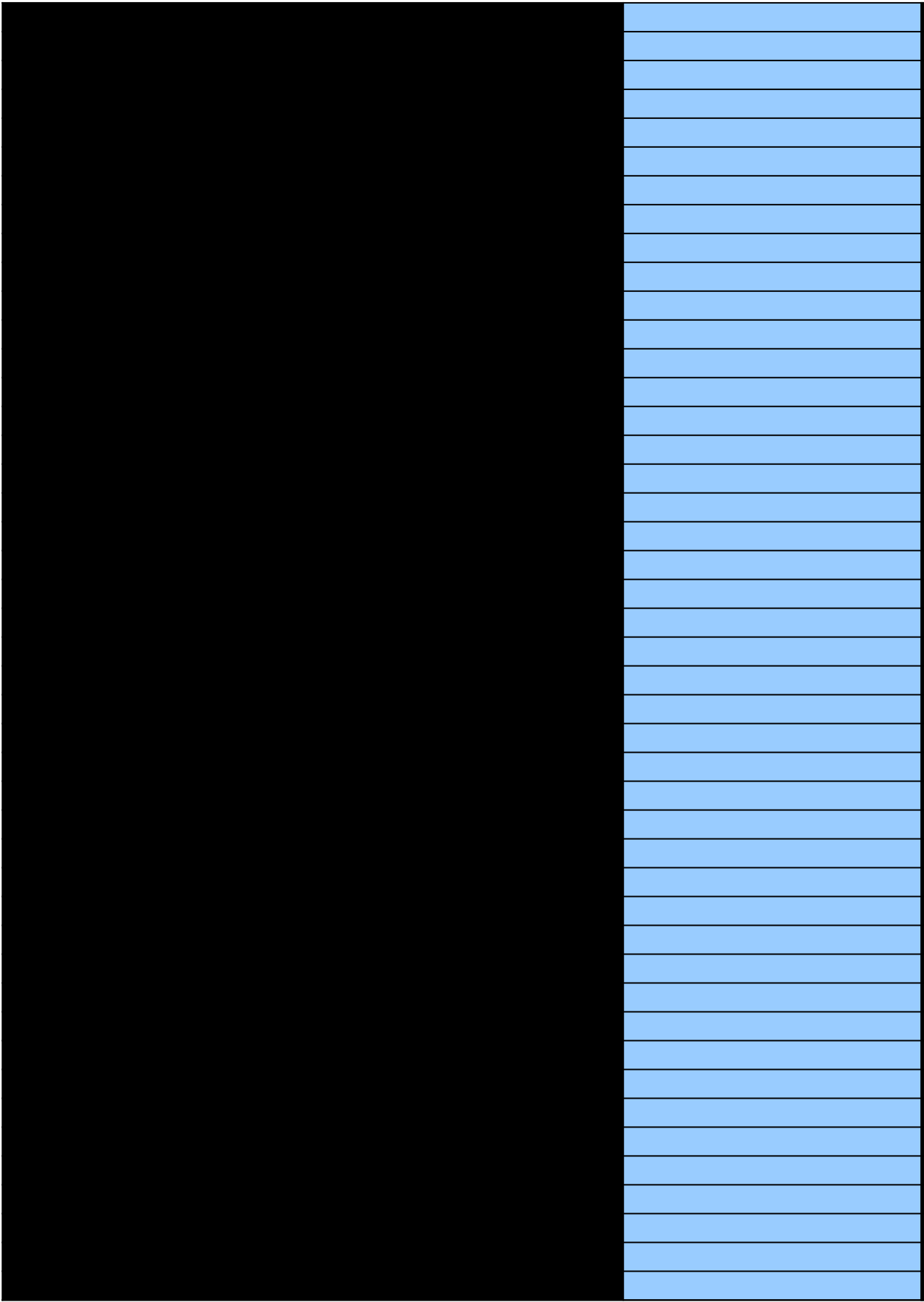


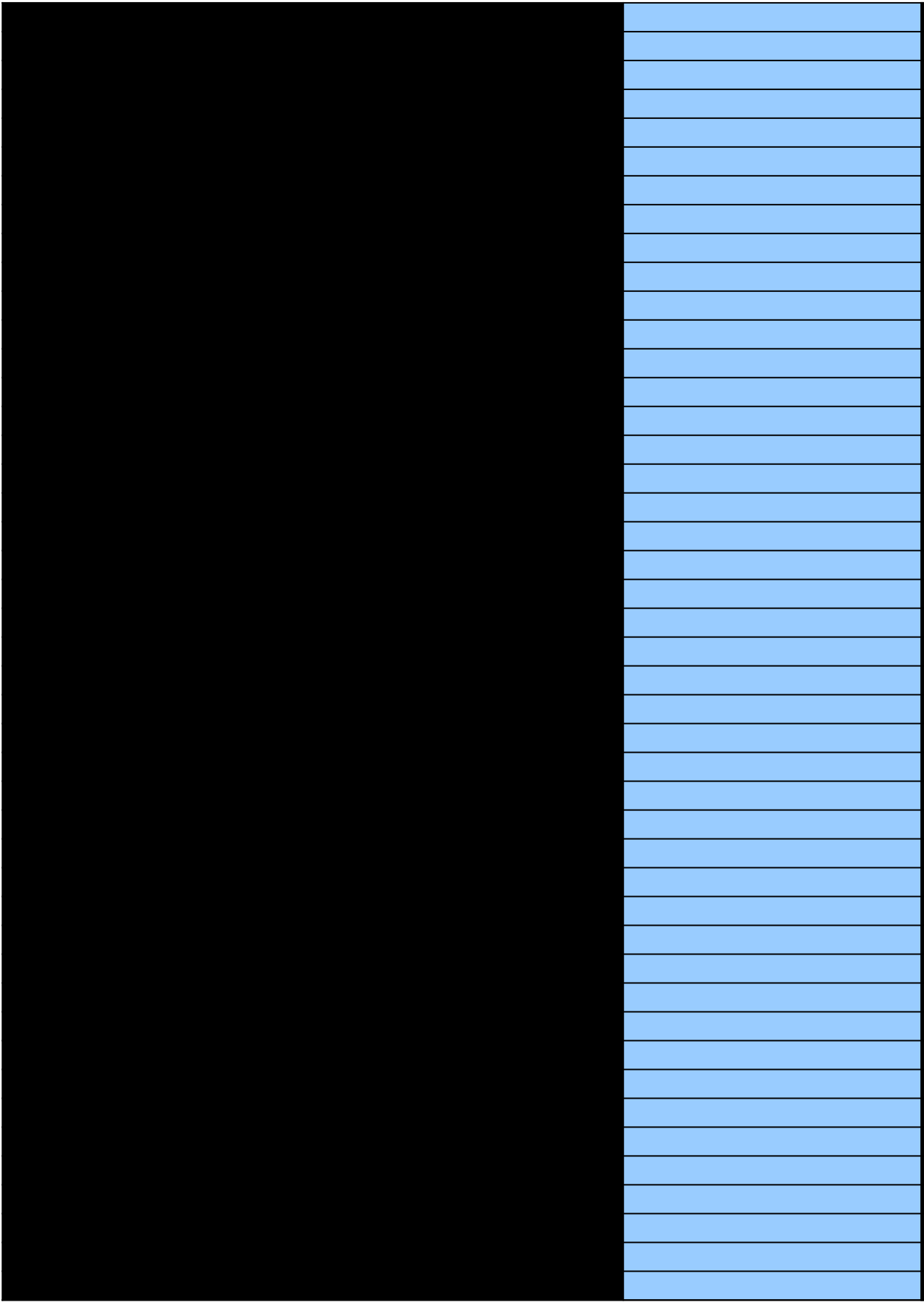


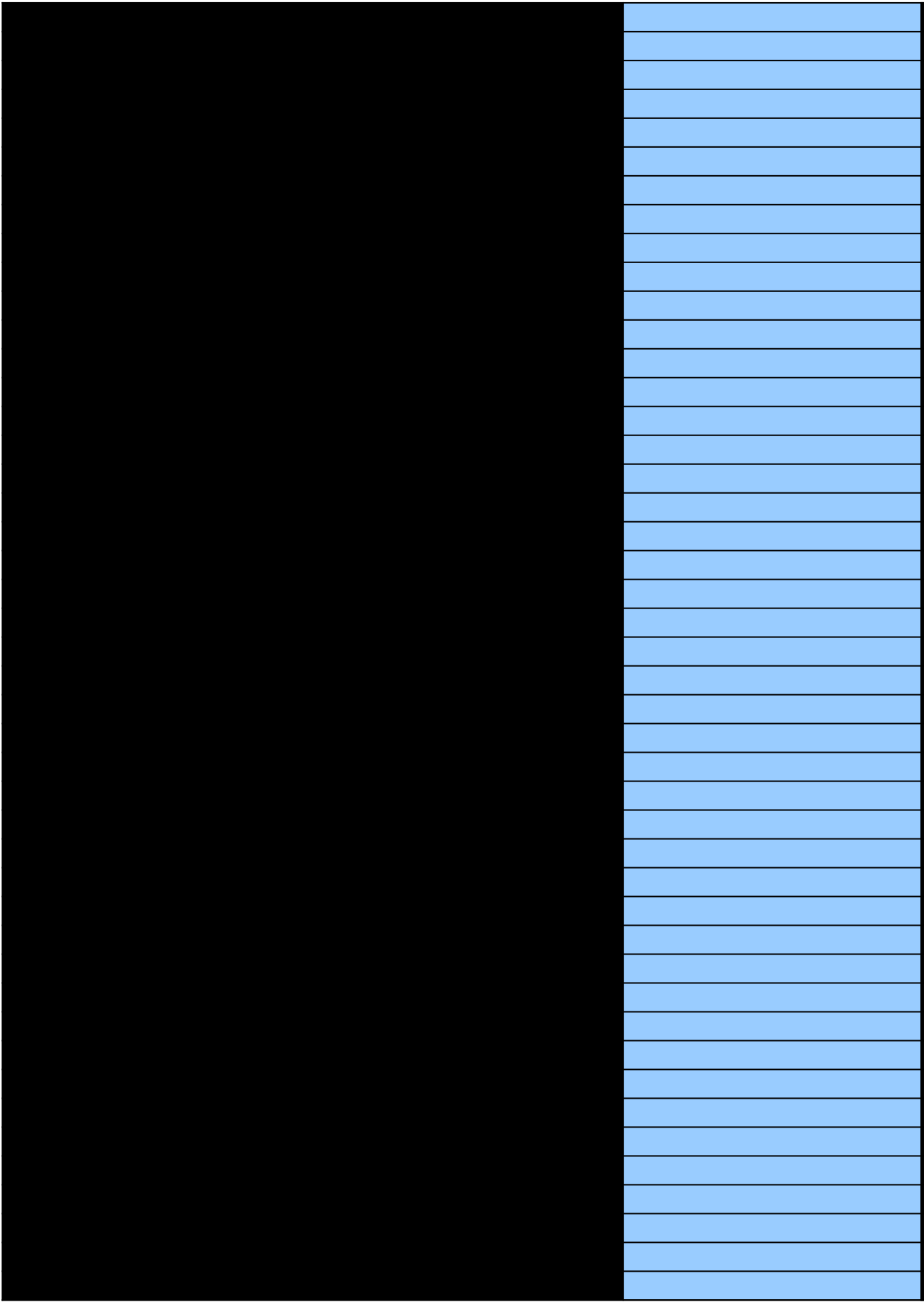
10	11
<p><b>Specify f-GHG Category for Purposes of Estimating GWP (if necessary)</b></p> <p>[98.3(c)(5)(ii)]</p>	<p><b>Mass sold or transferred to the facility for transformation (metric tons)</b></p> <p>[98.416(c)(2) and (c)(9)]</p>

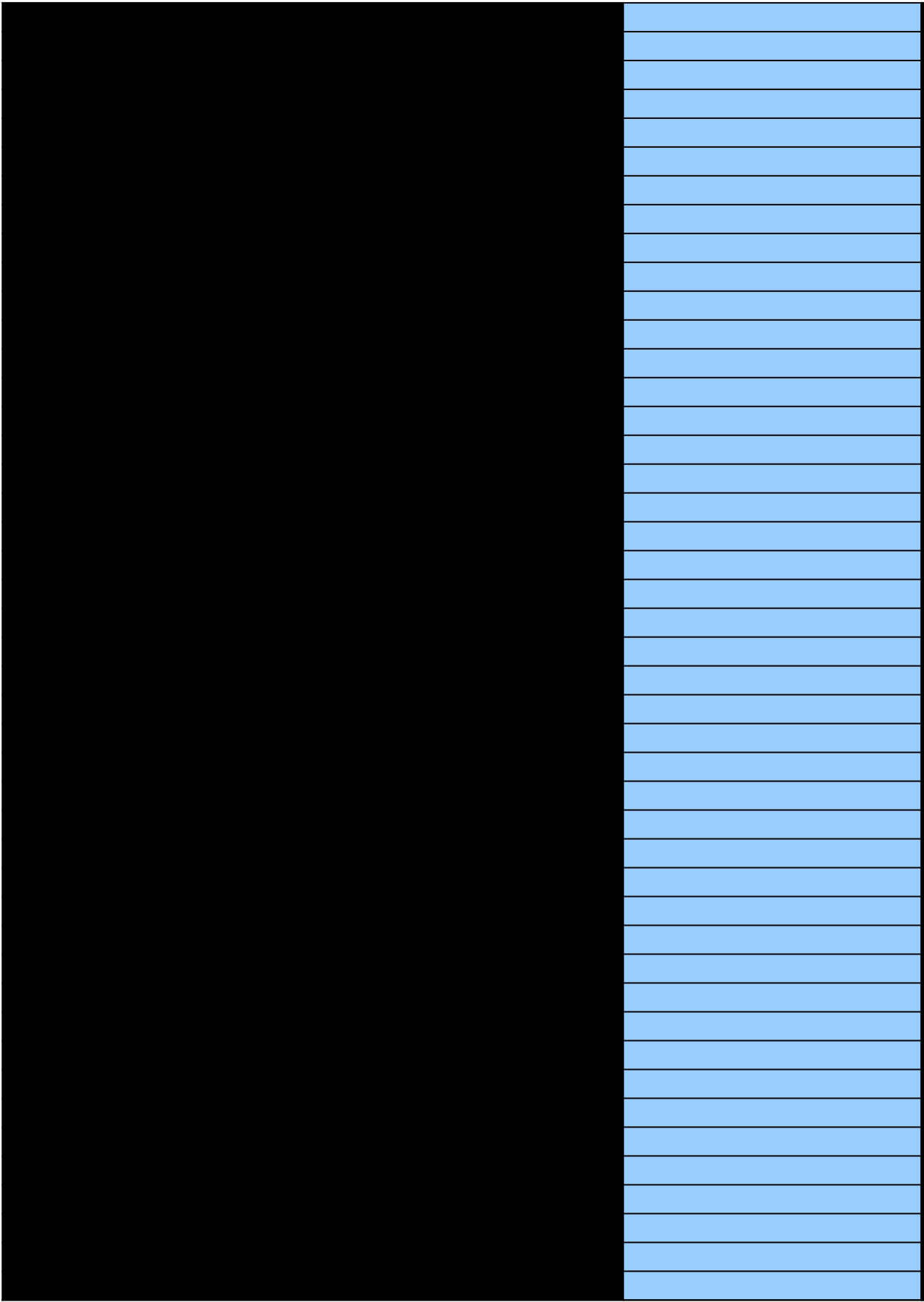




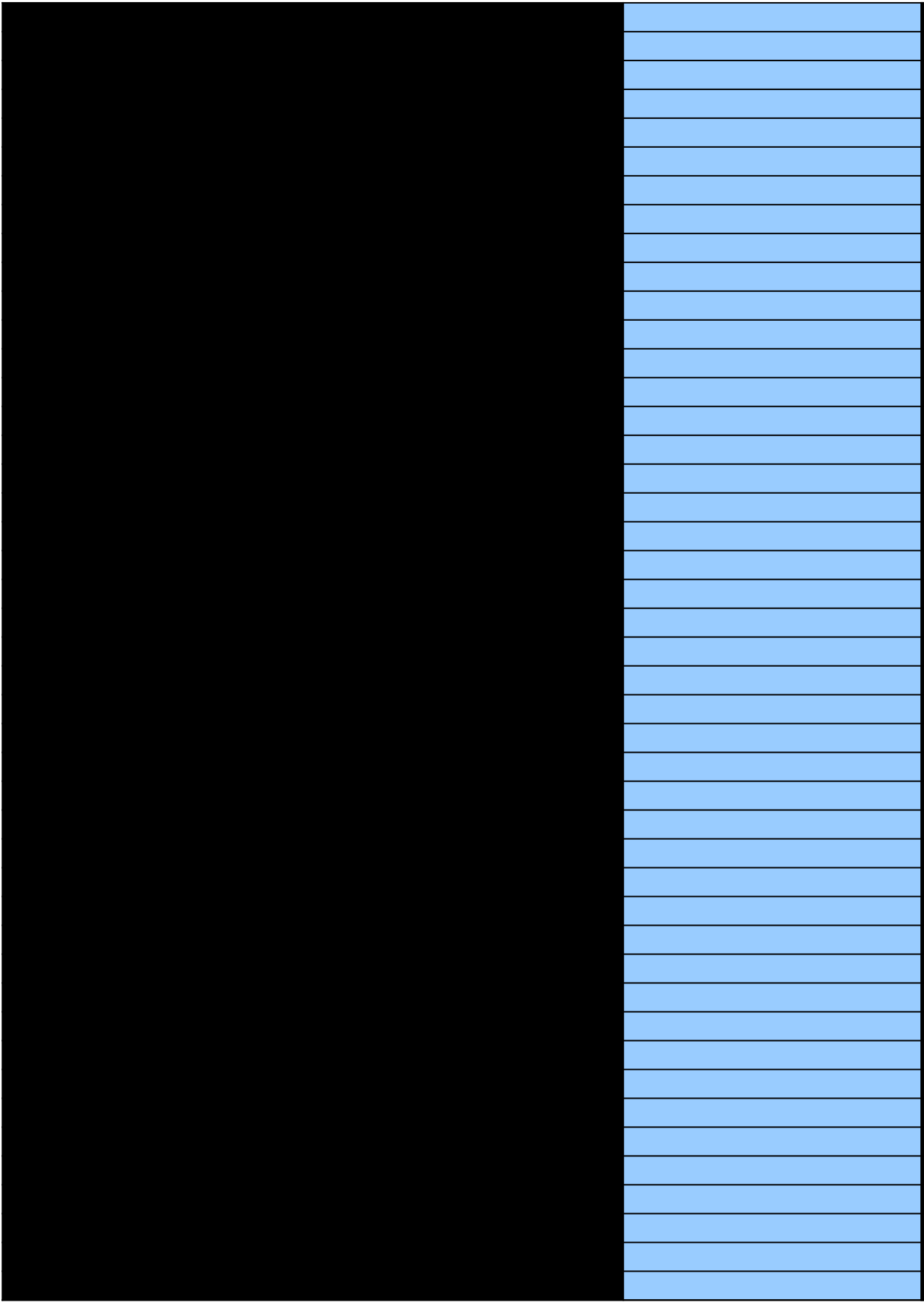


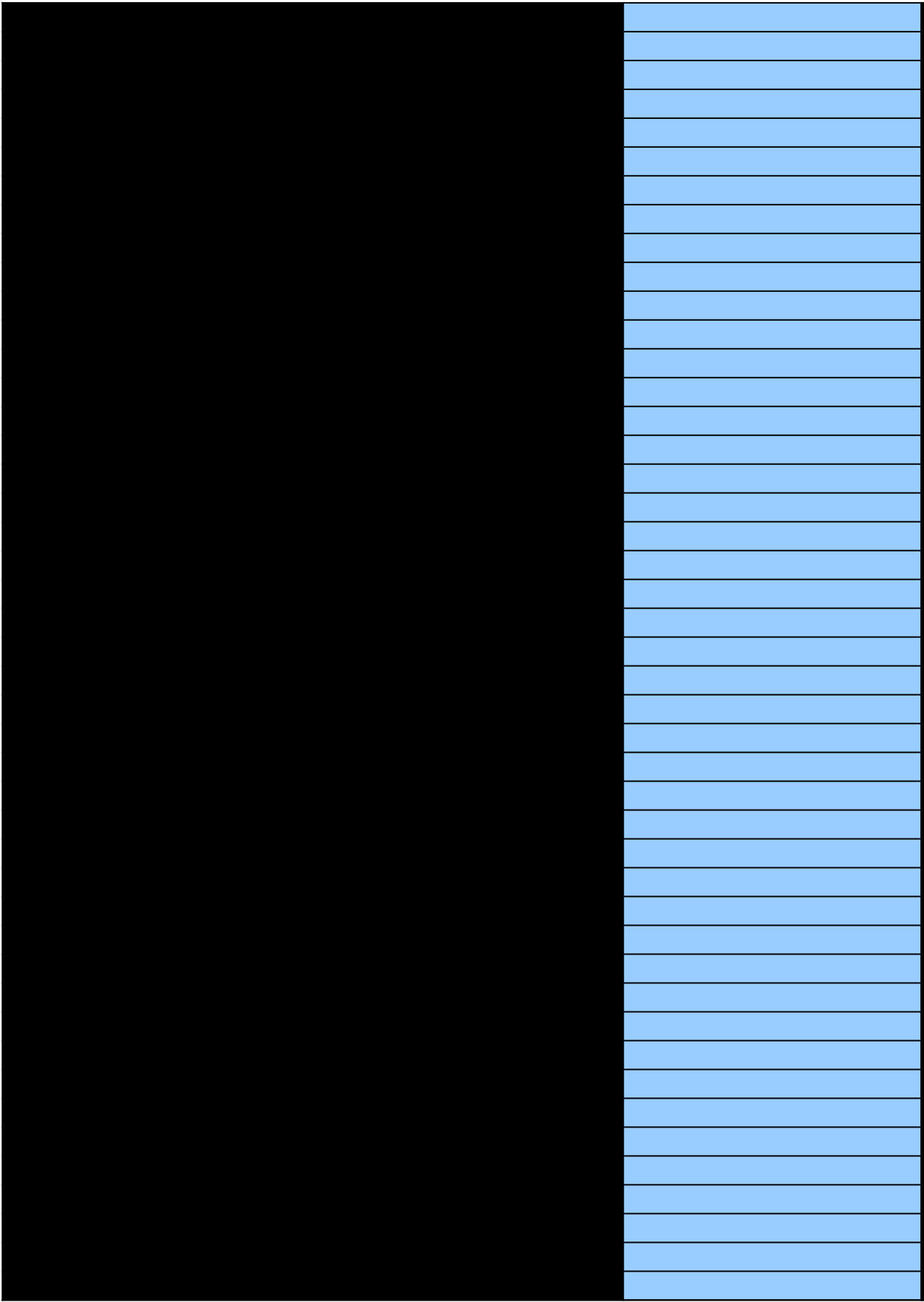


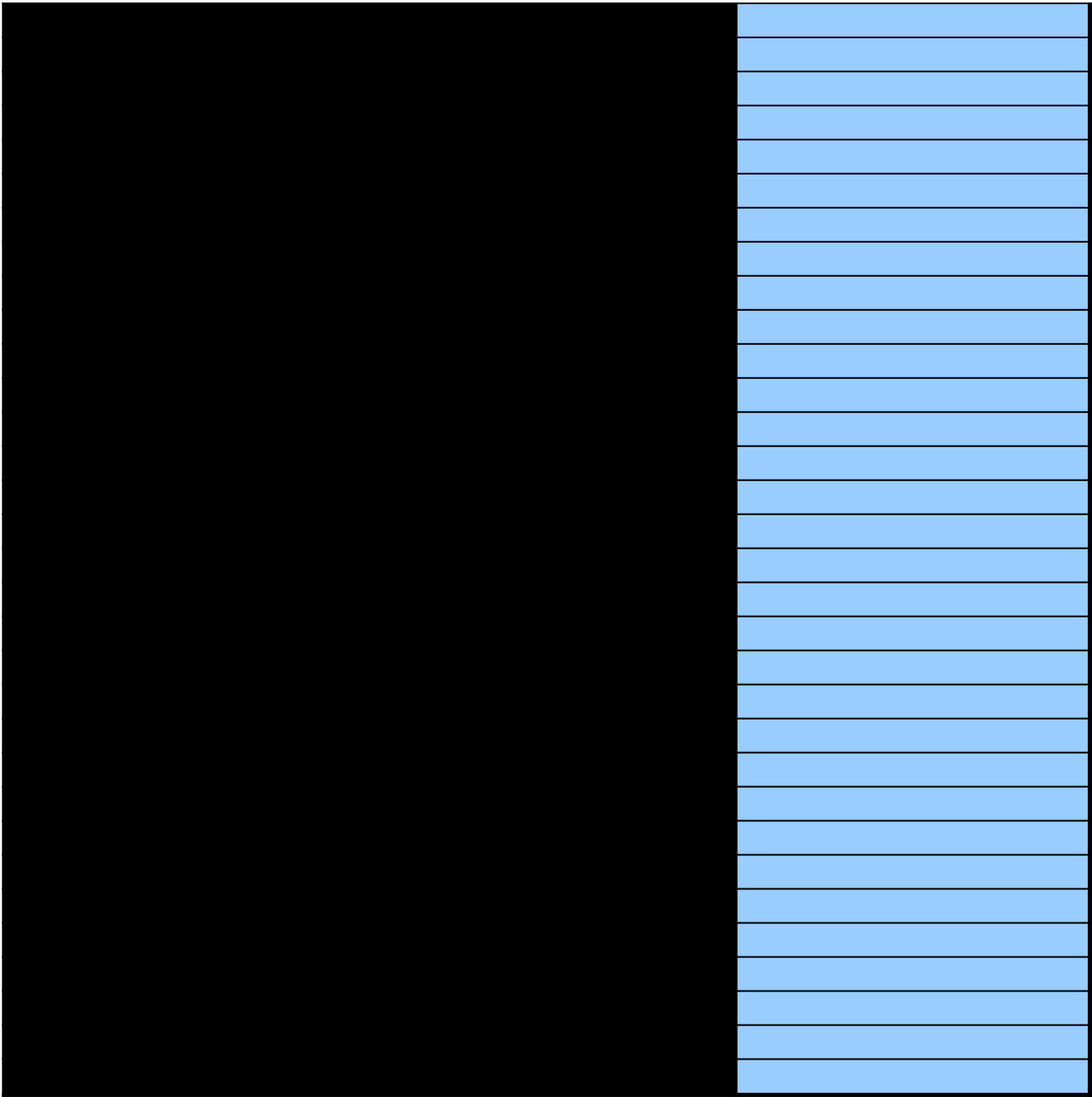












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Exporter Name:  
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Exporter Name:  
GHGRP ID:

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Exporter Name:  
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Exporter Name:

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Exporter Name:

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## F-GHG Blend Breakout Table

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Blend 400		
Blend 401A		
Blend 401B		
Blend 401C		
Blend 402A		
Blend 402B		
Blend 403A		
Blend 403B		
Blend 404A		
Blend 405A		
Blend 406A		
Blend 407A		
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Blend 407C		
Blend 407D		
Blend 407E		
Blend 407F		
Blend 407G		
Blend 408A		
Blend 409A		
Blend 409B		
Blend 410A		
Blend 410B		
Blend 411A		
Blend 411B		
Blend 412A		
Blend 413A		
Blend 414A		
Blend 414B		
Blend 415A		
Blend 415B		
Blend 416A		
Blend 417A		
Blend 417B		
Blend 417C		
Blend 418A		
Blend 419A		
Blend 419B		
Blend 420A		
Blend 421A		
Blend 421B		
Blend 422A		
Blend 422B		
Blend 422C		



<b>Blend 422D</b>		
<b>Blend 422E</b>		
<b>Blend 423A</b>		
<b>Blend 424A</b>		
<b>Blend 425A</b>		
<b>Blend 426A</b>		
<b>Blend 427A</b>		
<b>Blend 428A</b>		
<b>Blend 429A</b>		
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<b>Blend 433C</b>		
<b>Blend 434A</b>		
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<b>Blend 449C</b>		
<b>Blend 450A</b>		
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<b>Blend 452A</b>		
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<b>Blend 452C</b>		
<b>Blend 453A</b>		
<b>Blend 454A</b>		
<b>Blend 454B</b>		
<b>Blend 454C</b>		
<b>Blend 455A</b>		
<b>Blend 456A</b>		

Blend 457A		
Blend 458A		
Blend 459A		
Blend 459B		
Blend 460A		
Blend 460B		
Blend 500		
Blend 501		
Blend 502		
Blend 503		0.401
Blend 504		
Blend 505		
Blend 506		
Blend 507		
Blend 507A		
Blend 508A		0.39
Blend 508B		0.46
Blend 509A		
Blend 510A		
Blend 511A		
Blend 512A		
Blend 513A		
Blend 513B		
Blend 514A		
Blend 515A		

### Imports (metric tons)

	Mass imported	HFC-23
Blend 400	0	0
Blend 401A	0	0
Blend 401B	0	0
Blend 401C	0	0
Blend 402A	0	0
Blend 402B	0	0
Blend 403A	0	0
Blend 403B	0	0
Blend 404A	0	0
Blend 405A	0	0
Blend 406A	0	0
Blend 407A	0	0
Blend 407B	0	0
Blend 407C	0	0
Blend 407D	0	0
Blend 407E	0	0
Blend 407F	0	0
Blend 407G	0	0
Blend 408A	0	0
Blend 409A	0	0

Blend 409B	0	0
Blend 410A	0	0
Blend 410B	0	0
Blend 411A	0	0
Blend 411B	0	0
Blend 412A	0	0
Blend 413A	0	0
Blend 414A	0	0
Blend 414B	0	0
Blend 415A	0	0
Blend 415B	0	0
Blend 416A	0	0
Blend 417A	0	0
Blend 417B	0	0
Blend 417C	0	0
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Blend 419A	0	0
Blend 419B	0	0
Blend 420A	0	0
Blend 421A	0	0
Blend 421B	0	0
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Blend 422B	0	0
Blend 422C	0	0
Blend 422D	0	0
Blend 422E	0	0
Blend 423A	0	0
Blend 424A	0	0
Blend 425A	0	0
Blend 426A	0	0
Blend 427A	0	0
Blend 428A	0	0
Blend 429A	0	0
Blend 430A	0	0
Blend 431A	0	0
Blend 432A	0	0
Blend 433A	0	0
Blend 433B	0	0
Blend 433C	0	0
Blend 434A	0	0
Blend 435A	0	0
Blend 436A	0	0
Blend 436B	0	0
Blend 437A	0	0
Blend 438A	0	0
Blend 439A	0	0
Blend 440A	0	0
Blend 441A	0	0

Blend 442A	0	0
Blend 443A	0	0
Blend 444A	0	0
Blend 444B	0	0
Blend 445A	0	0
Blend 446A	0	0
Blend 447A	0	0
Blend 447B	0	0
Blend 448A	0	0
Blend 449A	0	0
Blend 449B	0	0
Blend 449C	0	0
Blend 450A	0	0
Blend 451A	0	0
Blend 451B	0	0
Blend 452A	0	0
Blend 452B	0	0
Blend 452C	0	0
Blend 453A	0	0
Blend 454A	0	0
Blend 454B	0	0
Blend 454C	0	0
Blend 455A	0	0
Blend 456A	0	0
Blend 457A	0	0
Blend 458A	0	0
Blend 459A	0	0
Blend 459B	0	0
Blend 460A	0	0
Blend 460B	0	0
Blend 500	0	0
Blend 501	0	0
Blend 502	0	0
Blend 503	0	0
Blend 504	0	0
Blend 505	0	0
Blend 506	0	0
Blend 507	0	0
Blend 507A	0	0
Blend 508A	0	0
Blend 508B	0	0
Blend 509A	0	0
Blend 510A	0	0
Blend 511A	0	0
Blend 512A	0	0
Blend 513A	0	0
Blend 513B	0	0
Blend 514A	0	0

Blend 515A	0	0
------------	---	---

**Exports (metric tons)**

	Mass exported	HFC-23
Blend 400	0	0
Blend 401A	0	0
Blend 401B	0	0
Blend 401C	0	0
Blend 402A	0	0
Blend 402B	0	0
Blend 403A	0	0
Blend 403B	0	0
Blend 404A	0	0
Blend 405A	0	0
Blend 406A	0	0
Blend 407A	0	0
Blend 407B	0	0
Blend 407C	0	0
Blend 407D	0	0
Blend 407E	0	0
Blend 407F	0	0
Blend 407G	0	0
Blend 408A	0	0
Blend 409A	0	0
Blend 409B	0	0
Blend 410A	0	0
Blend 410B	0	0
Blend 411A	0	0
Blend 411B	0	0
Blend 412A	0	0
Blend 413A	0	0
Blend 414A	0	0
Blend 414B	0	0
Blend 415A	0	0
Blend 415B	0	0
Blend 416A	0	0
Blend 417A	0	0
Blend 417B	0	0
Blend 417C	0	0
Blend 418A	0	0
Blend 419A	0	0
Blend 419B	0	0
Blend 420A	0	0
Blend 421A	0	0
Blend 421B	0	0
Blend 422A	0	0
Blend 422B	0	0

Blend 422C	0	0
Blend 422D	0	0
Blend 422E	0	0
Blend 423A	0	0
Blend 424A	0	0
Blend 425A	0	0
Blend 426A	0	0
Blend 427A	0	0
Blend 428A	0	0
Blend 429A	0	0
Blend 430A	0	0
Blend 431A	0	0
Blend 432A	0	0
Blend 433A	0	0
Blend 433B	0	0
Blend 433C	0	0
Blend 434A	0	0
Blend 435A	0	0
Blend 436A	0	0
Blend 436B	0	0
Blend 437A	0	0
Blend 438A	0	0
Blend 439A	0	0
Blend 440A	0	0
Blend 441A	0	0
Blend 442A	0	0
Blend 443A	0	0
Blend 444A	0	0
Blend 444B	0	0
Blend 445A	0	0
Blend 446A	0	0
Blend 447A	0	0
Blend 447B	0	0
Blend 448A	0	0
Blend 449A	0	0
Blend 449B	0	0
Blend 449C	0	0
Blend 450A	0	0
Blend 451A	0	0
Blend 451B	0	0
Blend 452A	0	0
Blend 452B	0	0
Blend 452C	0	0
Blend 453A	0	0
Blend 454A	0	0
Blend 454B	0	0
Blend 454C	0	0
Blend 455A	0	0

Blend 456A	0	0
Blend 457A	0	0
Blend 458A	0	0
Blend 459A	0	0
Blend 459B	0	0
Blend 460A	0	0
Blend 460B	0	0
Blend 500	0	0
Blend 501	0	0
Blend 502	0	0
Blend 503	0	0
Blend 504	0	0
Blend 505	0	0
Blend 506	0	0
Blend 507	0	0
Blend 507A	0	0
Blend 508A	0	0
Blend 508B	0	0
Blend 509A	0	0
Blend 510A	0	0
Blend 511A	0	0
Blend 512A	0	0
Blend 513A	0	0
Blend 513B	0	0
Blend 514A	0	0
Blend 515A	0	0

### Summary (metric tons)

	Imports	Exports
HFC-23	0	0
HFC-32	0	0
HFC-125	0	0
HFC-134a	0	0
HFC-143a	0	0
HFC-152a	0	0
HFC-227ea	0	0
HFC-236fa	0	0
PFC-116	0	0
PFC-218	0	0
PFC-6318	0	0
HFC-1234yf	0	0
HFC-1234ze(E)	0	0
(Z)-HFC-1336	0	0

## Imports Destroyed by Importer (metric tons)

	Mass Destroyed by Importer (if not reported by production facility)	HFC-23
Blend 400	0	0
Blend 401A	0	0
Blend 401B	0	0
Blend 401C	0	0
Blend 402A	0	0
Blend 402B	0	0
Blend 403A	0	0
Blend 403B	0	0
Blend 404A	0	0
Blend 405A	0	0
Blend 406A	0	0
Blend 407A	0	0
Blend 407B	0	0
Blend 407C	0	0
Blend 407D	0	0
Blend 407E	0	0
Blend 407F	0	0
Blend 407G	0	0
Blend 408A	0	0
Blend 409A	0	0
Blend 409B	0	0
Blend 410A	0	0
Blend 410B	0	0
Blend 411A	0	0
Blend 411B	0	0
Blend 412A	0	0
Blend 413A	0	0
Blend 414A	0	0
Blend 414B	0	0
Blend 415A	0	0
Blend 415B	0	0
Blend 416A	0	0
Blend 417A	0	0
Blend 417B	0	0
Blend 417C	0	0
Blend 418A	0	0
Blend 419A	0	0
Blend 419B	0	0
Blend 420A	0	0
Blend 421A	0	0
Blend 421B	0	0
Blend 422A	0	0
Blend 422B	0	0



Blend 422C	0	0
Blend 422D	0	0
Blend 422E	0	0
Blend 423A	0	0
Blend 424A	0	0
Blend 425A	0	0
Blend 426A	0	0
Blend 427A	0	0
Blend 428A	0	0
Blend 429A	0	0
Blend 430A	0	0
Blend 431A	0	0
Blend 432A	0	0
Blend 433A	0	0
Blend 433B	0	0
Blend 433C	0	0
Blend 434A	0	0
Blend 435A	0	0
Blend 436A	0	0
Blend 436B	0	0
Blend 437A	0	0
Blend 438A	0	0
Blend 439A	0	0
Blend 440A	0	0
Blend 441A	0	0
Blend 442A	0	0
Blend 443A	0	0
Blend 444A	0	0
Blend 444B	0	0
Blend 445A	0	0
Blend 446A	0	0
Blend 447A	0	0
Blend 447B	0	0
Blend 448A	0	0
Blend 449A	0	0
Blend 449B	0	0
Blend 449C	0	0
Blend 450A	0	0
Blend 451A	0	0
Blend 451B	0	0
Blend 452A	0	0
Blend 452B	0	0
Blend 452C	0	0
Blend 453A	0	0
Blend 454A	0	0
Blend 454B	0	0
Blend 454C	0	0
Blend 455A	0	0

Blend 456A	0	0
Blend 457A	0	0
Blend 458A	0	0
Blend 459A	0	0
Blend 459B	0	0
Blend 460A	0	0
Blend 460B	0	0
Blend 500	0	0
Blend 501	0	0
Blend 502	0	0
Blend 503	0	0
Blend 504	0	0
Blend 505	0	0
Blend 506	0	0
Blend 507	0	0
Blend 507A	0	0
Blend 508A	0	0
Blend 508B	0	0
Blend 509A	0	0
Blend 510A	0	0
Blend 511A	0	0
Blend 512A	0	0
Blend 513A	0	0
Blend 513B	0	0
Blend 514A	0	0
Blend 515A	0	0

**Summary, Imports Destroyed by Importer (metric tons)**

	Mass Destroyed by Importer (not reported by producer)
HFC-23	0
HFC-32	0
HFC-125	0
HFC-134a	0
HFC-143a	0
HFC-152a	0
HFC-227ea	0
HFC-236fa	0
PFC-116	0
PFC-218	0
PFC-631g	0
HFC-1234yf	0
HFC-1234ze(E)	0
(Z)-HFC-1336	0

HFC-32	HFC-125	HFC-134a	HFC-143a	HFC-152a	HFC-227ea
				0.13	
				0.11	
				0.15	
	0.6				
	0.38				
	0.44	0.04	0.52		
				0.07	
0.2	0.4	0.4			
0.1	0.7	0.2			
0.23	0.25	0.52			
0.15	0.15	0.7			
0.25	0.15	0.6			
0.3	0.3	0.4			
0.025	0.025	0.95			
	0.07		0.46		
0.5	0.5				
0.45	0.55				
				0.11	
				0.03	
		0.88			
				0.18	
				0.75	
		0.59			
	0.466	0.5			
	0.79	0.183			
	0.195	0.788			
				0.025	
	0.77	0.19			
	0.485	0.48			
		0.88			
	0.58	0.42			
	0.85	0.15			
	0.851	0.115			
	0.55	0.42			
	0.82	0.15			

	0.651	0.315			
	0.58	0.393			
		0.525			0.475
	0.505	0.47			
0.185		0.695			0.12
	0.051	0.93			
0.15	0.25	0.5	0.1		
	0.775		0.2		
				0.1	
				0.76	
				0.29	
	0.632	0.16	0.18		
				0.2	
	0.195	0.785			
0.085	0.45	0.442			
0.5	0.47				
		0.016		0.978	
0.31	0.31	0.3		0.03	0.05
0.12				0.05	
0.415				0.1	
		0.09			
0.68					
0.68	0.035				
0.68	0.08				
0.26	0.26	0.21			
0.243	0.247	0.257			
0.252	0.243	0.273			
0.2	0.2	0.29			
		0.42			
		0.102			
		0.112			
0.11	0.59				
0.67	0.07				
0.125	0.61				
0.2	0.2	0.538			0.05
0.35					
0.689					
0.215					
0.215					
0.06		0.45			







































































## Listing of f-GHG for Use in Subpart OO Importers and Exporters Form

The following f-GHG are listed only by name in the f-GHG pick lists on the preceding tabs. The f-GHG below are presented in the same order as in the pick lists. **Use Ctrl+F to search this list by name or CASRN.** Once you have identified the f-GHG please note the f-GHG name used in this Inputs Form and its location within the pick list so that you can more easily locate it in the pick lists.

Chemical Name
---------------

Nitrous Oxide
Sulfur hexafluoride
Trifluoromethyl sulphur pentafluoride
Nitrogen trifluoride
PFC-14 (Perfluoromethane)
PFC-116 (Perfluoroethane)
PFC-218 (Perfluoropropane)
Perfluorocyclopropane
PFC-3-1-10 (Perfluorobutane)
Perfluorocyclobutane
PFC-4-1-12 (Perfluoropentane)
PFC-5-1-14 (Perfluorohexane, FC 72)
PFC-6-1-12
PFC-7-1-18
PFC-9-1-18
PFPME (HT-70)
Perfluorodecalin (cis)
Perfluorodecalin (trans)
Octafluorotetrahydrofuran
FC-3283/FC-8270 (Perfluorotripropylamine)
FC-3284 (Perfluoromethylmorpholine)
FC-40/FC-43 (Perfluorotributylamine (PTBA))
FC-770 (Perfluoroisopropylmorpholine)
FC-77 (Blend - Perfluoro-2-butyltetrahydrofuran + C8F18)
FC-5311 (Perfluoroperhydrophenanthrene)
HT-55
HT-90
HT-110
HT-135
HFC-23
HFC-32
HFC-41
HFC-125
HFC-134
HFC-134a
HFC-143
HFC-143a
HFC-152
HFC-152a
HFC-161

HFC-227ca  
HFC-227ea  
HFC-236cb  
HFC-236ea  
HFC-236fa  
HFC-245ca  
HFC-245cb  
HFC-245ea  
HFC-245eb  
HFC-245fa  
HFC-263fb  
HFC-272ca  
HFC-329p  
HFC-365mfc  
HFC-43-10mee  
1,1,1,2,2,3,3-Heptafluoro-3-(1,2,2,2-tetrafluoroethoxy)-propane  
1,1,2,2-Tetrafluoro-1-(fluoromethoxy)ethane  
1,1,2,2-Tetrafluoro-3-methoxy-propane; Methyl 2,2,3,3-tetrafluoropropyl ether  
1,1,2-Trifluoro-2-(trifluoromethoxy)-ethane  
1,1,3,3,4,4,6,6,7,7,9,9,10,10,12,12,13,13,15,15-eicosafluoro-2,5,8,11,14-Pentaoxapentadecan  
1-Ethoxy-1,1,2,2,3,3,3-heptafluoropropane  
1-Ethoxy-1,1,2,3,3,3-hexafluoropropane  
2-Chloro-1,1,2-trifluoro-1-methoxyethane  
2-Ethoxy-3,3,4,4,5-pentafluorotetrahydro-2,5-bis[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]  
Difluoro(fluoromethoxy)methane  
Difluoro(methoxy)methane  
Fluoro(fluoromethoxy)methane  
Fluoro(methoxy)methane  
HCFE-235ca2 (Enflurane)  
Isoflurane (HCFE-235da2)  
HFE-125  
HFE-134  
HFE-143a  
HFE-227ea  
HFE-236ca  
HFE-236ca12 (HG-10)  
Desflurane (HFE-236ea2)  
HFE-236fa  
HFE-245cb2  
HFE-245fa1  
HFE-245fa2  
HFE-254cb2  
HFE-263fb2  
HFE-263m1; R-E-143a  
HFE-329mcc2  
HFE-329me3  
HFE-338mcf2  
HFE-338mmz1

HFE-338pcc13 (HG-01)  
HFE-347mcc3  
HFE-347mcf2  
HFE-347mmy1  
Sevoflurane  
HFE-347pcf2  
HFE-356mec3  
HFE-356mff2  
HFE-356mmz1  
HFE-356pcc3  
HFE-356pcf2  
HFE-356pcf3  
HFE-365mcf2  
HFE-365mcf3  
HFE-374pc2  
HFE-43-10pccc (H-Galden 1040x)  
HFE-449sl, (HFE-7100) Isomer blend  
HFE-569sf2, (HFE-7200) Isomer blend  
HFE-72DA (1,2-Trans-dichloroethylene + Ethyl nonafluorobutyl ether + Ethyl nonafluoroisobutyl ether)  
HFE-71DA  
HFE-71DE  
HFE-72DA  
HFE-71IPA  
HFE-72DE  
HFE-72FL  
HG'-01  
HG'-02  
HG-02  
HG'-03  
HG-03  
HG-20  
HG-21  
HG-30  
Trifluoro(fluoromethoxy)methane  
HFE-7300 (1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4-trifluoromethyl-pentane)  
HFE-7500 (3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-trifluoromethyl-hexane)  
Trifluoromethyl formate  
Perfluoroethyl formate  
1,2,2,2-Tetrafluoroethyl formate  
Perfluorobutyl formate  
Perfluoropropyl formate  
1,1,1,3,3,3-Hexafluoropropan-2-yl formate  
2,2,2-Trifluoroethyl formate  
3,3,3-Trifluoropropyl formate  
Methyl 2,2,2-trifluoroacetate  
1,1-Difluoroethyl 2,2,2-trifluoroacetate  
Difluoromethyl 2,2,2-trifluoroacetate  
2,2,2-Trifluoroethyl 2,2,2-trifluoroacetate

Methyl 2,2-difluoroacetate  
Perfluoroethyl acetate  
Trifluoromethyl acetate  
Perfluoropropyl acetate  
Perfluorobutyl acetate  
Ethyl 2,2,2-trifluoroacetate  
Methyl carbonofluoridate  
1,1-Difluoroethyl carbonofluoridate  
Bis(trifluoromethyl)-methanol  
(Octafluorotetramethy-lene)hydroxymethyl group  
Blend 400  
Blend 401A  
Blend 401B  
Blend 401C  
Blend 402A  
Blend 402B  
Blend 403A  
Blend 403B  
Blend 404A  
Blend 405A  
Blend 406A  
Blend 407A  
Blend 407B  
Blend 407C  
Blend 407D  
Blend 407E  
Blend 407F  
Blend 407G  
Blend 408A  
Blend 409A  
Blend 409B  
Blend 410A  
Blend 410B  
Blend 411A  
Blend 411B  
Blend 412A  
Blend 413A  
Blend 414A  
Blend 414B  
Blend 415A  
Blend 415B  
Blend 416A  
Blend 417A  
Blend 417B  
Blend 417C  
Blend 418A  
Blend 419A  
Blend 419B

Blend 420A  
Blend 421A  
Blend 421B  
Blend 422A  
Blend 422B  
Blend 422C  
Blend 422D  
Blend 422E  
Blend 423A  
Blend 424A  
Blend 425A  
Blend 426A  
Blend 427A  
Blend 428A  
Blend 429A  
Blend 430A  
Blend 431A  
Blend 432A  
Blend 433A  
Blend 433B  
Blend 433C  
Blend 434A  
Blend 435A  
Blend 436A  
Blend 436B  
Blend 437A  
Blend 438A  
Blend 439A  
Blend 440A  
Blend 441A  
Blend 442A  
Blend 443A  
Blend 444A  
Blend 444B  
Blend 445A  
Blend 446A  
Blend 447A  
Blend 447B  
Blend 448A  
Blend 449A  
Blend 449B  
Blend 449C  
Blend 450A  
Blend 451A  
Blend 451B  
Blend 452A  
Blend 452B  
Blend 452C



Blend 453A  
Blend 454A  
Blend 454B  
Blend 454C  
Blend 455A  
Blend 456A  
Blend 457A  
Blend 458A  
Blend 459A  
Blend 459B  
Blend 460A  
Blend 460B  
Blend 500  
Blend 501  
Blend 502  
Blend 503  
Blend 504  
Blend 505  
Blend 506  
Blend 507  
Blend 507A  
Blend 508A  
Blend 508B  
Blend 509A  
Blend 510A  
Blend 511A  
Blend 512A  
Blend 513A  
Blend 513B  
Blend 514A  
Blend 515A  
2,2,3,3,3-pentafluoropropanol  
2,2,3,3,4,4,4-Heptafluorobutan-1-ol  
2,2,2-Trifluoroethanol  
2,2,3,4,4,4-Hexafluoro-1-butanol  
2,2,3,3-Tetrafluoro-1-propanol  
2,2-Difluoroethanol  
2-Fluoroethanol  
4,4,4-Trifluorobutan-1-ol  
PFC-1114; TFE  
PFC-1216; Dyneon HFP  
PFC C-1418  
Perfluorobut-2-ene  
Perfluorobut-1-ene  
Perfluorobuta-1,3-diene  
HFC-1132a; VF2  
HFC-1141; VF  
(E)-HFC-1225ye

(Z)-HFC-1225ye  
HCFC-1233zd(E)  
HFC-1234yf; HFO-1234yf  
HFC-1234ze(E)  
HFC-1234ze(Z)  
HFC-1243zf; TFP  
(Z)-HFC-1336  
HFC-1345zfc  
Capstone 42-U  
Capstone 62-U  
Capstone 82-U  
PMVE; HFE-216  
Fluoroxene  
3,3,3-Trifluoro-propanal  
Novec 649/1230, FK 5-1-12, perfluoro(2-methyl-3-pentanone)  
3,3,4,4,5,5,6,6,7,7,7-Undecafluoroheptan-1-ol  
3,3,3-Trifluoropropan-1-ol  
3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-Pentadecafluorononan-1-ol  
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-Nonadecafluoroundecan-1-ol  
Trifluoroiodomethane  
Dibromodifluoromethane (Halon 1202)  
2-Bromo-2-chloro-1,1,1-trifluoroethane (Halon-2311 / Halothane)  
Perfluoroethyl vinyl ether  
Galden ZT-85  
Galden ZT-130  
Galden ZT-150  
Perfluorosolv PFS-2  
DET  
HT-80  
D05  
Perfluoropropyl vinyl ether  
2H-perfluoro(5-methyl-3,6-dioxanonane)  
Trifluoromethanesulfonyl fluoride  
Carbonic difluoride  
Trifluoroacetyl fluoride  
Perfluorodiethyl ether  
Perfluorobutanesulfonyl fluoride  
Perfluoropropionyl fluoride  
Perfluorobutyl iodide  
Hexafluorooxetane  
Hexafluoropropylene oxide  
Propanoic Acid, 3-[1-[Difluoro [ (Trifluoroethenyl oxy) Methyl]-1,2,2,2-Tetrafluoroethoxy] -2,2,  
Pentafluoro(trifluoromethoxy)-ethane  
1,1,1,3,3,5,5,7,7,9,9,11,11-tridecafluoro-2,4,6,8,10-pentaoxadodecan-12-oyl fluoride  
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoyl fluoride  
C5F13N  
Perfluorocyclohexane  
HEPTAFLUOROPROPYL TRIFLUOROMETHYL ETHER

Perfluoro-2-(2-Fluorosulfonylethoxy) Propyl Vinyl Ether  
Perfluoro(methylcyclopropane)  
Other F-GHG chemical not listed

CASRN	Extended List
10024-97-2	1 of 331
2551-62-4	2 of 331
373-80-8	3 of 331
7783-54-2	4 of 331
75-73-0	5 of 331
76-16-4	6 of 331
76-19-7	7 of 331
931-91-9	8 of 331
355-25-9	9 of 331
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