

Proposed Rule Discussion – Session 1 of 2

RAC Meeting #2 – May 18, 2026

Zoom Webinar

- Only panelists have ability to speak
- We are recording, will be available on AT SAC website
- Closed captioning available
- Chat disabled, Q&A disabled
- Brief Introductions- Name/Title and Affiliation

Introductions

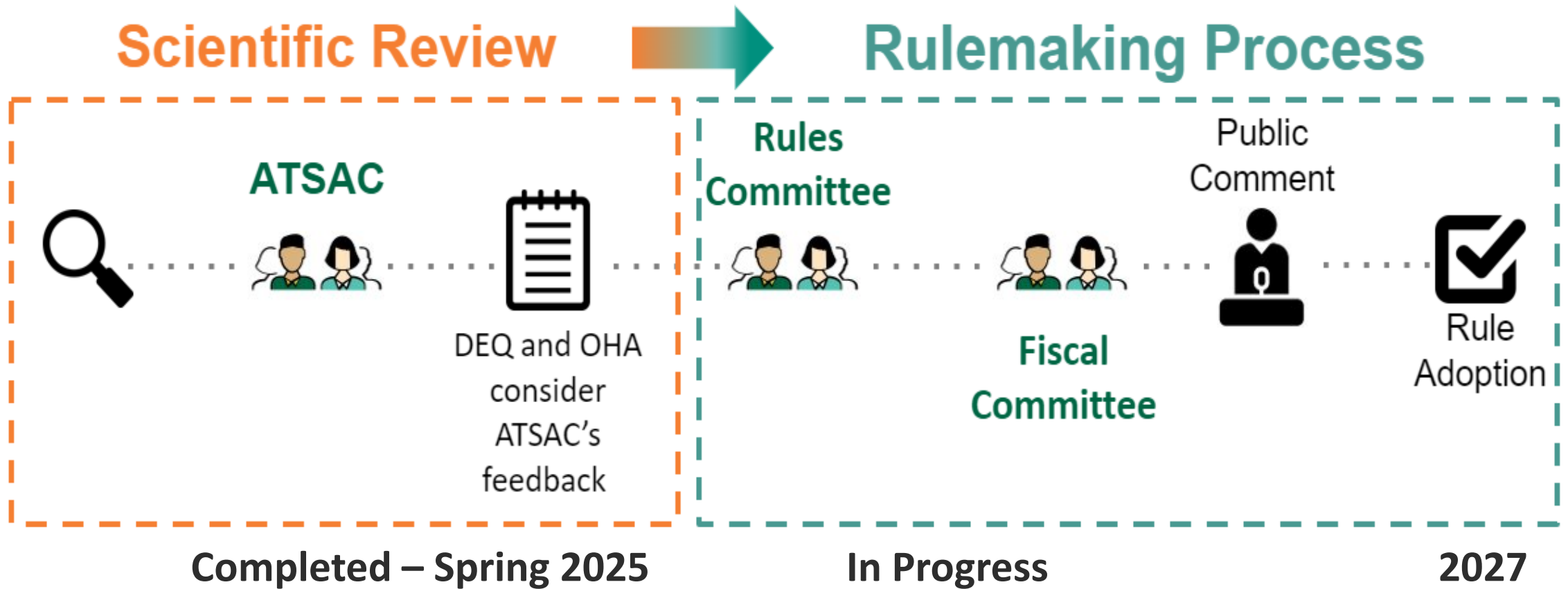


- Facilitators: Kearns & West
- Agency Staff: DEQ & OHA
- Committee Members

Agenda

- Introductions – Name and Affiliation
- Priority List of Chemicals
- Toxicity Reference Values
- Risk Based Concentrations
- Proposed Language Changes
- Roundtable Discussion
- Public Input

TRV Rulemaking Process

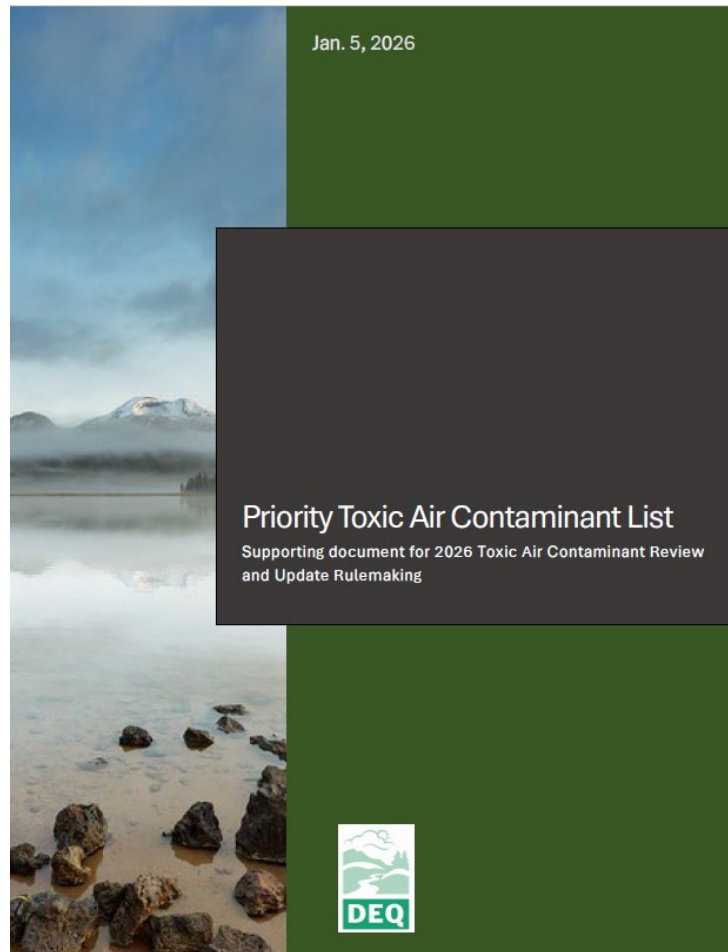


Priority List Updates

Priority List

- Contaminants known or suspected to cause harm when inhaled
- DEQ has four primary sources to inform the Priority List
 - CA, WA, EPA, DEQ
- Used for emissions and air monitoring reporting
 - Expands list beyond Criteria and Hazardous Air Pollutants
- Allows DEQ to track and understand emissions across Oregon
 - Periodic statewide Air Toxics Emissions Inventory (ATEI)

Priority List Supplemental Resources



Appendix to the Priority List of Toxic Air Contaminants

Last updated 11/6/2025

Display Order	DEQ	TRV Status	Display in PL	CAS RN	Chemical Name	Group	RBC Map	MW Correction	Notes	Year added
1	1	Y	Y	75-07-0	Acetaldehyde		1			2018
2	2	Y	Y	60-35-5	Acetamide		2			2018
3	634	Y	Y	67-64-1	Acetone		634			2018
4	3	Y	Y	75-05-8	Acetonitrile		3			2018
5	4	N	Y	98-86-2	Acetophenone					2018
6	5	Y	Y	107-02-8	Acrolein		5			2018
7	6	Y	Y	79-06-1	Acrylamide		6			2018
8	7	Y	Y	79-10-7	Acrylic acid		7			2018
9	8	Y	Y	107-13-1	Acrylonitrile		8			2018
10	9	N	Y	50-76-0	Actinomycin D					2018
11	1000T	Y	Y	111-69-3	Adiponitrile		1000T			2026
12	10	N	Y	1596-84-5	Alar					2018
13	11	Y	Y	309-00-2	Aldrin		11			2018
14	12	Y	Y	107-05-1	Allyl chloride		12			2018
15	13	Y	Y	7429-90-5	Aluminum and compounds		13		4	2018
16	14	o	N	1344-28-1	Aluminum oxide (fibrous forms)	Aluminum	13	0.529	4	2018
17	16	N	Y	97-56-3	ortho-Aminoazotoluene					2018
18	24	N	Y	92-67-1	4-Aminobiphenyl					2018
19	18	N	Y	6109-97-3	3-Amino-9-ethylcarbazole hydrochloride					2018
20	20	N	Y	82-28-0	1-Amino-2-methylantraquinone (disperse orange)					2018
21	19	N	Y	68006-83-7	2-Amino-3-methyl-9H-pyrido[2,3-b]indole					2018
22	21	N	Y	76180-96-6	2-Amino-3-methylimidazo-[4,5-f]quinoline					2018
23	22	N	Y	712-68-5	2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole					2018
24	23	N	Y	26148-68-5	2-Amino-9H-pyrido[2,3-b]indole					2018
25	25	N	Y	61-82-5	Amitrole					2018
26	26	Y	Y	7664-41-7	Ammonia		26			2018
27	27	N	Y	7803-63-6	Ammonium bisulfate					2018

Proposed Updates to Priority List

- Priority list expanded from 606 to 650 TACs
 - Added 92 new contaminants with new TRVs
- Organizational changes for clarity and completeness
 - Consolidated chemical groups
 - Addition of group headers
- Structural and formatting changes
 - Removed groups

Discussion – Priority List

Do you have information the agencies should consider regarding the proposed updates to the Priority List?

Priority List Roundtable

Please submit any further comments in writing to caotr.2026@deq.oregon.gov

Toxicity Reference Value (TRV) Updates

Authoritative Sources

Authoritative sources are listed in Oregon Administrative Rule, OAR 340-247-0030

- U.S. Agency for Toxic Substances and Disease Registry (ATSDR)
- U.S. Environmental Protection Agency (EPA)
- California Environmental Protection Agency (CalEPA)
- Oregon DEQ in consultation with the Air Toxics Science Advisory Committee (ATSAC)



TRV-Related Items Provided

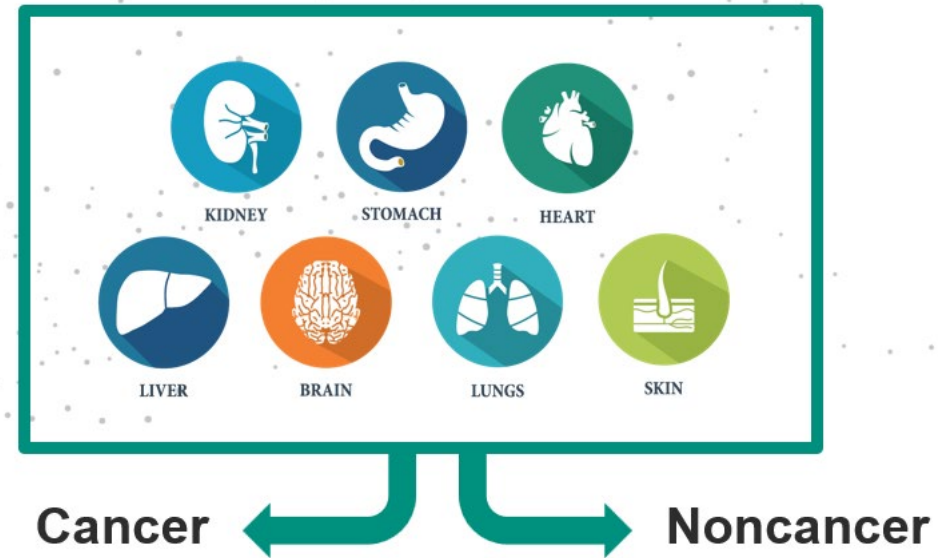
Required RAC Feedback on TRVs

- Review the [TRV proposed rule table](#)

Supplemental Materials for the RAC

- TRV Support Document ([link](#))
- TRV Proposal Excel Workbooks ([1](#) and [2](#))
- [OBI 10-14-2025 letter](#) (and [ToxStrategies technical memo](#))
- OHA response to ToxStrategies technical memo

TRV Discussion



Discussion: ATSDAC

Do you have information the agencies should consider regarding:

- ATSDAC's recommendations to the agencies for setting TRVs?
- How OHA implemented ATSDAC guidance in setting TRVs?



Discussion: ToxStrategies Memo

Do you have information the agencies should consider regarding:

- OHA's response to the ToxStrategies Technical Memo?

Discussion: Proposed TRVs

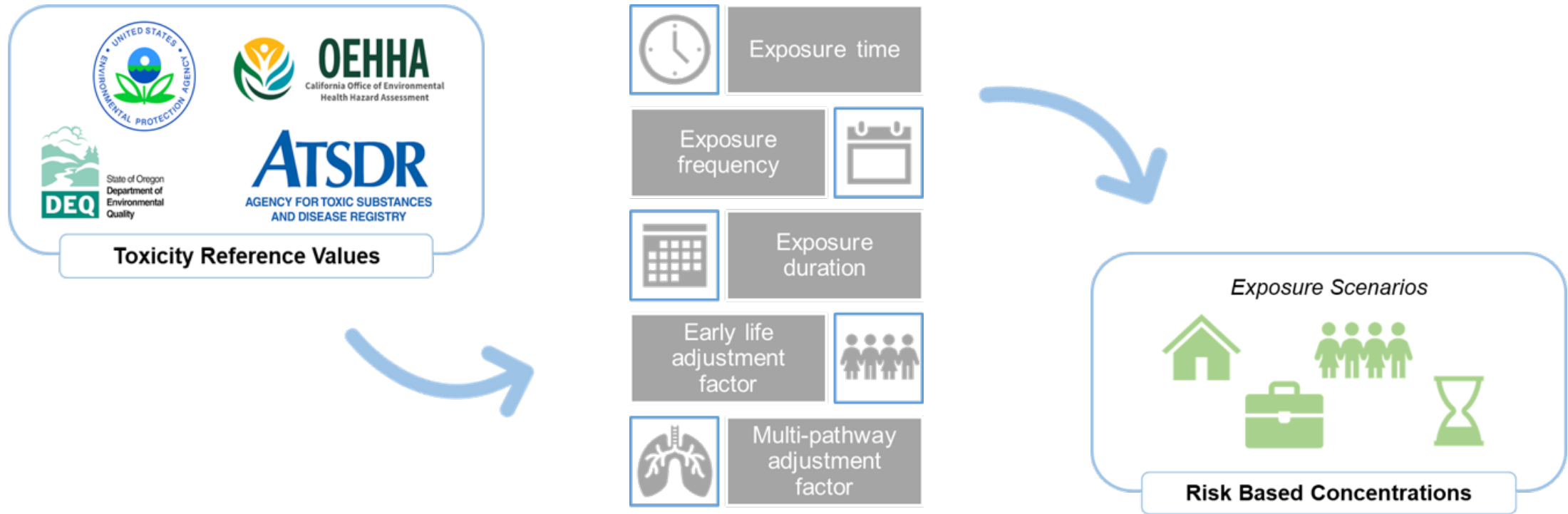
Do you have information the agencies should consider regarding:

- OHA's overall process for updating TRVs?
- TRVs where DEQ, in consultation with ATSAC, is the authoritative source?
- Specific TRVs (1-methylnaphthalene, diesel particulate matter, etc.)?

TRV Roundtable

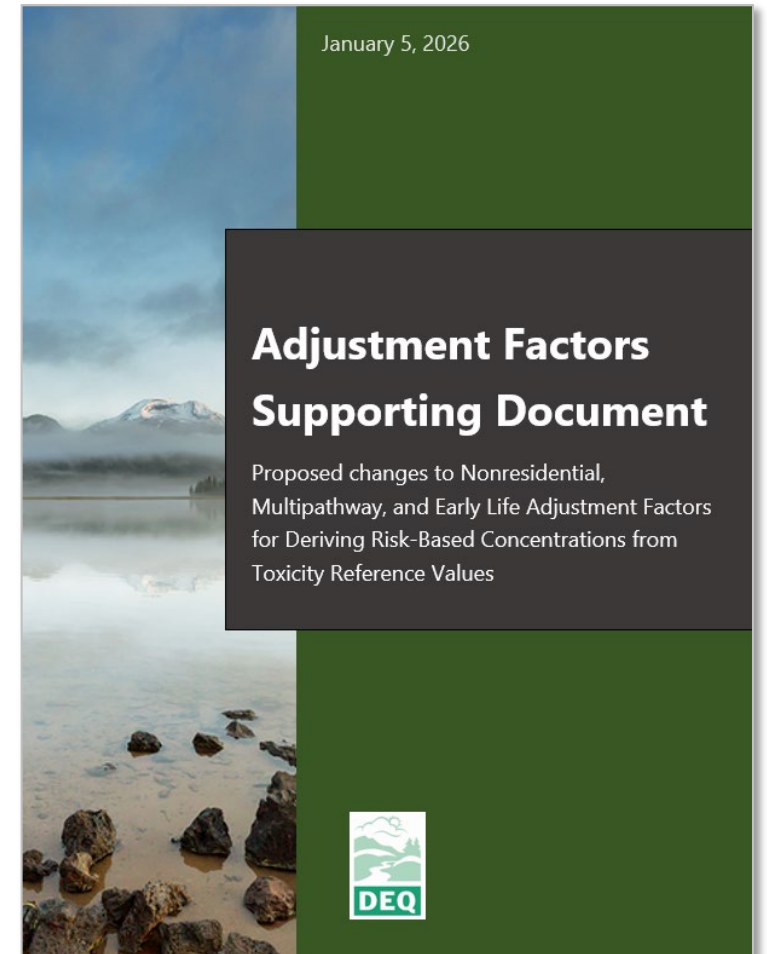
Please submit any further comments in writing to caotr.v.2026@deq.oregon.gov

Risk-Based Concentration (RBC) Updates



RBC Supplemental Resources

- Supporting memo for ELAF/MPAF updates [Adjustment Factors Supporting Document](#)
 - Documents revisions, sources of values
- MPAF spreadsheet tool [MPAF Tool](#)
 - Developed by ERG
 - Used by DEQ to calculate MPAFs
 - Documents equations and parameter values
 - Can be used for site-specific calculations



Discussion

Do you have information the agencies should consider regarding **toxicity modifications**?



LUNGS



STOMACH



SKIN

Discussion

Do you have information the agencies should consider regarding **incidental soil ingestion rates**?



Discussion

Do you have information the agencies should consider regarding **gastrointestinal factors**?



Residential Cancer Calculations: 7440-38-2 | Arsenic

C _{air}				
Parameter	Symbol	Value	Units	Notes
Contaminant air concentration	C _{air}	1	µg/m ³	Unit emission rate used for convenience in calculating MPAs

C _{soil}				
Parameter	Symbol	Value	Units	Notes
Chemical specific soil half life	t _{1/2}	100000000	d	
Soil elimination constant	K _s	6.93147E-09	d ⁻¹	OEHHA (2015) Equation 5.3.2.D: K _s = ln(2) / t _{1/2}
Beginning of soil accumulation evaluation period	T ₀	0	d	Start period of soil exposure
End of soil accumulation evaluation period	T _r	25550	d	End period of soil exposure (70 years default)
Total days of soil exposure	T _t	25550	d	T _t = T _r - T ₀
Integral function for soil accumulation	X	2.262307516	d	OEHHA (2015) Equation 5.3.2.C: X = [(e ^{-K_s × T_t} - e ^{-K_s × T₀}) / K _s] + T _t
Vertical rate of deposition	Dep-rate	0.02	m/sec	SCAQMD default for treated emissions
Deposition on the affected soil area per day	Dep	1728	µg/m ² -d	OEHHA (2015) Equation 5.3.2.B: Dep = C _{air} × Dep-rate × [86400 sec/d]
Soil bulk density	BD	1333	kg/m ³	
Soil mixing depth			m	
Playground setting	SD _{playground}	0.01		
Agricultural setting	SD _{agricultural}	0.15		
Average soil concentration			µg/kg	OEHHA (2015) Equation 5.3.2.A: C_{soil} = Dep × X / (K_s × SD × BD × T_t)
Playground setting	C _{soil (playground)}	1655956.261		
Agricultural setting	C _{soil (agricultural)}	110397.0841		

Discussion

Do you have information the agencies should consider regarding **plant uptake and plant ingestion rates?**



Discussion

Do you have information the agencies should consider regarding **separating child and worker MPAFs?**



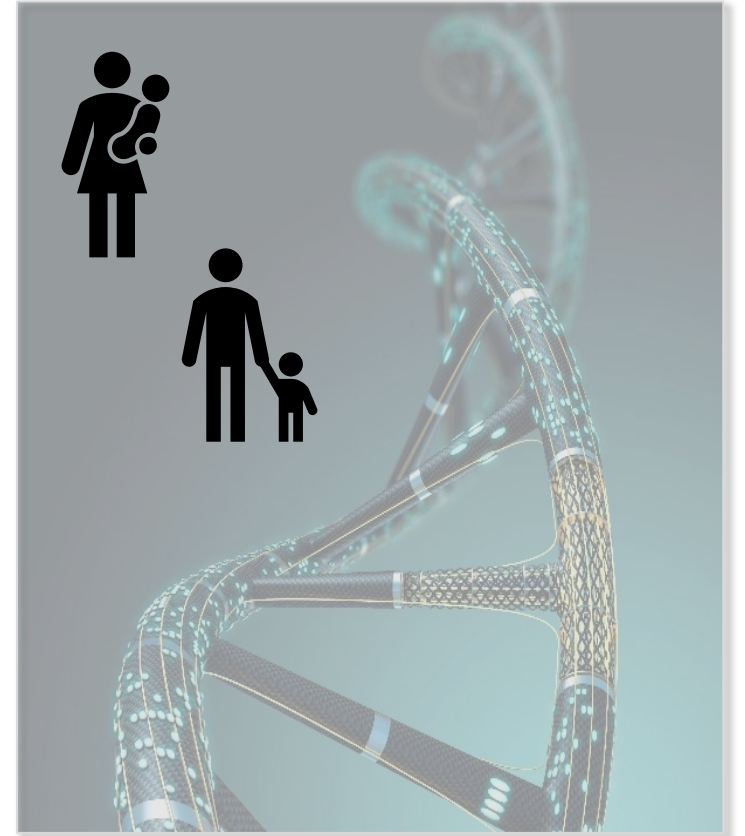
Nonresidential Child



Nonresidential Adult

Discussion

Do you have information the agencies should consider regarding **the use of Early Life Adjustment Factors (ELAFs)**?



Roundtable Discussion on RBCs and Adjustment Factors

Please submit any further comments in writing to caotr.2026@deq.oregon.gov

Rule Language Updates

Update Frequency of Review

The rules providing the schedule for updating both the Priority List and TRVs are in OAR 340-247-0040

- Proposed update from every 3 years to every 5 years
- Additionally include “...or as necessary...” for Priority List to align with the current TRV language

Update Frequency – Priority List

OAR 340-247-0040(2)(b):

(b) Every five ~~three~~ years starting from November 16, 2018*, **or as necessary**, DEQ, in consultation with OHA, will begin review of the four lists in subsection (a) for changes and may propose rule amendments to update the Priority Toxic Air Contaminants List in OAR 340-247-8010 Table 1 to capture changes in any of those four lists since the last review.

*This date will change to the date this rule is adopted

Update Frequency – TRVs

OAR 340-247-0040(3):

(3) OAR 340-247-8020 Table 2, Toxicity Reference Values. Every **five** **three** years starting from November 16, 2018*, or as necessary, DEQ, in consultation with OHA, will begin review of the toxic air contaminants and Toxicity Reference Values published by the authoritative sources listed in OAR 340-247-0030 for changes since the last review. DEQ will propose rule amendments to implement one or more of the following actions, as appropriate:

*This date will change to the date this rule is adopted

MPAF Adjustments and Level 4 Assessments

The rules providing regulations around Level 4 Risk Assessments are in OAR 340-247-0040

- Currently, only way to modify exposure assumptions used in MPAFs is by performing a Level 4 Risk Assessment
- Proposed language would allow updates to MPAF exposure assumptions for specific scenarios without a Level 4 assessment
 - Schools with no day care can adjust soil ingestion age range

MPAF Adjustments and Level 4 Assessments

Proposal to add subsection (g) under OAR 340-245-0210(2)

(g) DEQ may allow modifications to the default soil exposure assumptions at nonresidential child exposure locations to correspond with the actual ages exposed at those locations, without requiring a Level 4 Risk Assessment.

Discussion – Proposed Language Updates

Do you have information the agencies should consider regarding the proposed updates to the rule language?

Final Roundtable Discussion

Please submit any further comments in writing to caotr.2026@deq.oregon.gov

Public Input

Opportunity for the public to offer informal comments.

Next Steps

- RAC/FAC Meeting 3 - continuing this discussion and Implementation
- Describe next meeting

Title VI and alternative formats

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