Ingestion rate Calculation using EFH Table 5-33.

Table 5-33. Dust Ingestion Rates at Residential Settings[a] Based on an Activity Pattern Modeling Approach

Age Group	Mean ± SD (95th percentile) Dust Ingestion Rates (m^2/d)		
	100% Hard Surfaces	100% Soft Surfaces	50% Hard/50% Soft Surfaces
Infant (0–6 months)	....[b]	0.025 ± 0.024 (0.088)	0.025 ± 0.024 (0.088)[b]
Toddler (7 months–4 years)	0.10 ± 0.092 (0.34)	0.020 ± 0.018 (0.067)	0.061 ± 0.055 (0.20)
Child (5–11 years)	0.078 ± 0.081 (0.29)	0.016 ± 0.016 (0.059)	0.047 ± 0.048 (0.18)
Teen (12–19 years)	0.0053 ± 0.0042 (0.016)	0.0011 ± 0.00084(0.0032)	0.0032 ± 0.0025 (0.0094)
Adult (20–59 years)	0.0062 ± 0.0050 (0.019)	0.0012 ± 0.00098 (0.0038)	0.0037 ± 0.0029 (0.0093)
Senior (60+ years)	0.0063 ± 0.0051 (0.019)	0.0013 ± 0.0010 (0.0039)	0.0038 ± 0.0030 (0.012)

[a] Based on probabilistic approach (200,000 trials).
[b] Infants were assumed to contact soft surfaces only.

Source: Wilson et al. (2016).

95th percentile agre weighted m2/d (hard surfaces only for direct

Age	hard surface m2/d (95th %)	yrs in age range	yrs in range/ED (26 years)	m2/d-Y/26Y
<1 to 4	0.34	4	0.153846154	0.052307692
5 thru 11	0.29	7	0.269230769	0.078076923
11 thru 19	0.016	8	0.307692308	0.004923077
20 thru 59	0.019	7	0.269230769	0.005115385
Sum		26	1	0.140423077
age weighted	**0.140423077**			

Hard surface Ingestio

Source (m2)	m2/d (95th)
42.68	0.140423077

USDON rate =	8.10E-06
delta factor 95th	1.69E+01
delta factor mean	4.78E+00

Conclusion: USDON rate is a facto

Mean agre weighted m2/d (hard surfaces only for direct

Age	hard surface m2/d (mean)	yrs in age range	yrs in range/ED (26 years)	m2/d-Y/26Y
<1 to 4	0.1	4	0.153846154	0.015384615
5 thru 11	0.078	7	0.269230769	0.021
11 thru 19	0.0053	8	0.307692308	0.001630769
20 thru 59	0.0062	7	0.269230769	0.001669231
Sum		26	1	0.039684615
age weighted	**0.039684615**			

95th percentile agre weighted m2/d (hard and soft surfaces

hard and soft surface Inge

n rate (1/h) Calculation

	1/h	1/h
m2/d (mean)	(95th)	(mean)
0.039684615	**1.37E-04**	3.87E-05

r of 4 to 17 low compared to EFH.

stion rate (1/h) Calculation

Age	hard & soft surface m2/d (95th %)	yrs in age range	yrs in range/ED (26 years)	m2/d-Y/26Y
<1 to 4	0.2	4	0.153846154	0.030769231
5 thru 11	0.18	7	0.269230769	0.048461538
11 thru 19	0.0094	8	0.307692308	0.002892308
20 thru 59	0.0093	7	0.269230769	0.002503846
Sum		26	1	0.084626923
age weighted	**0.084626923**			

Source (m2)	m2/d (95th)
42.68	0.084626923

USDON rate =	8.10E-06
delta factor 95th	1.02E+01

Conclusion: USDON rate is a facto

m2/d (mean)	1/h (95th)	1/h (mean)
NA	**8.26E-05**	NA

r of 10 low compared to EFH.