

Model Review Form	
Soil Enrichment Protocol V1.1	
Model Name & Version	DayCent-CR v1.1.0
Model Developer	IndigoAg
SEP Model Requirements and Guidance Version	Version 1.1a
Model Reviewer(s)	Dr. Ankur Desai, University of Wisconsin-Madison
Project-Specific (Type 1) or Generalized Validation (Type 2)?	Project-specific (Type 1)
Model Review Report Submittal Date	13-Mar-2024

Validated Parameters by Emission Source

SOC									
LRR (list all as applicable)	PC (list individually)	C4A	C3A	C3AN	C3AS	C3AF	C3P	C3PN	C4P
A, B, C, D, E F, G, H, I, J, K, L, M, N, O, P, R, S, T, U	Crop	✓	✓	✓	✓			✓	
A, B, C, D, E F, G, H, I, J, K, L, M, N, O, P, R, S, T, U	TR	✓	✓	✓	✓				
A, B, C, D, E F, G, H, I, J, K, L, M, N, O, P, R, S, T, U	InN	✓	✓	✓				✓	
A, B, C, D, E F, G, H, I, J, K, L, M, N, O, P, R, S, T, U	OrN	✓	✓	✓	✓				
Valid soil texture classes:		S, LS, SL, L, SiL, Si, SCL, CL, SiCL, SC, SiC, C							

N2O									
LRR (list all as applicable)	PC (list individually)	C4A	C3A	C3AN	C3AS	C3AF	C3P	C3PN	C4P
A, B, C, D, E F, G, H, I, J, K, L, M, N, O, P, R, S, T, U	Crop	✓	✓	✓				✓	
A, B, C, D, E F, G, H, I, J, K, L, M, N, O, P, R, S, T, U	TR	✓	✓	✓					
A, B, C, D, E F, G, H, I, J, K, L, M, N, O, P, R, S, T, U	InN	✓	✓	✓					
A, B, C, D, E F, G, H, I, J, K, L, M, N, O, P, R, S, T, U	OrN	✓	✓						
Valid soil texture classes:		S, LS, SL, L, SiL, Si, SCL, CL, SiCL, SC, SiC, C							

CH4									
LRR (list all as applicable)	PC (list individually)	C4A	C3A	C3AN	C3AS	C3AF	C3P	C3PN	C4P
Valid soil texture classes:									

- NOT valid LRR x PC x CFG
- Valid LRR x PC x CFG, no stipulations
- Valid LRR x PC x CFG, some stipulations

Land Resource Region (LRR)	
Abv	Description
A	Northwestern Forest, Forage, and Specialty Crop Region
B	Northwestern Wheat and Range Region
C	California Subtropical Fruit, Truck, and Specialty Crop Region
D	Western Range and Irrigated Region
E	Rocky Mountain Range and Forest Region
F	Northern Great Plains Spring Wheat Region
G	Western Great Plains Range and Irrigated Region
H	Central Great Plains Winter Wheat and Range Region
I	Southwest Plateaus and Plains Range and Cotton Region
J	Southwestern Prairies Cotton and Forage Region
K	Northern Lake States Forest and Forage Region
L	Lake State Fruit, Truck Crop, and Dairy Region
M	Central Feed Grains and Livestock Region
N	East and Central Farming and Forest Region
O	Mississippi Delta Cotton and Feed Grains Region
P	South Atlantic and Gulf Slope Cash Crops, Forest, and Livestock Region
R	Northeastern Forage and Forest Region
S	Northern Atlantic Slope Diversified Farming Region
T	Atlantic and Gulf Coast Lowland Forest and Crop Region
U	Florida Subtropical Fruit, Truck Crop, and Range Region

Practice Category (PC)	
Abv	Description
TR	Soil disturbance and/or residue management
Crop	Cropping practices, planting and harvesting
InN	Inorganic nitrogen fertilizer application
OrN	Organic amendments application

Crop Functional Group (CFG)	
Abv	Description
C4A	C4 Annuals
C3A	C3 Annual herbaceous
C3AN	C3 Annual N-fixing herbaceous
C3AS	C3 Annual shrub
C3AF	C3 Annual herbaceous flooded
C3P	C3 Perennial
C3PN	C3 Perennial N-fixing
C4P	C4 Perennial

Soil Texture Classes			
Abv	Description	Abv	Description
S	Sand	SCL	Sandy Clay Loam
LS	Loamy Sand	CL	Clay Loam
SL	Sandy Loam	SiCL	Silty Clay Loam
L	Loam	SC	Sandy Clay
SiL	Silt Loam	SiC	Silty Clay
Si	Silt	C	Clay

LRR x PC x CFG Limitations				
Emission Source	LRR	PC	CFG	Reviewer Comments

Additional Comments on Model Usage	
Topic	Comments