Cereal General Nitrogen Recommendation Worksheet

Step 1: Crop N requirement (R)						
Enter base value (in kg N/ha) f	rom Table 1	or from line 1	06 in Table 2			
R in kg N/ha =						(1)
Step 2: Credit manure or compo	st ammoniu	m nitrogen (M	I _{AMM}) in kg N/	ha		
Enter manure or compost appli			11/11/1			
in gallons/acre		(a) and				
OR in m ³ /ha		(a) and				
OR in tons/acreOR in tonnes/ha		(a) and (a) and	l(b) = 443 l(b) = 1,000			
					(c)	
Enter manure ammonium concentration in ppm (line 101 from Table 3)(c) Enter manure ammonium availability coefficient (from Table 4)(d)						
	•					
M_{AMM} in kg N/ha =	_ (a) x	(c) x	(d) ÷ _		(b) =	(2)
Step 3: Credit manure or compo	st organic n	itrogen (M _{ORG}) in kg N/ha			
Enter (a) and (b) from Step 2:		(a)		(b)		
Enter manure organic N concer	ntration in p _l	om (line 104 fi	rom Table 3)_	(c)	
Enter manure organic N availal	bility coeffic	ient (from Tal	ole 5)	(d)		
M _{ORG} in kg N/ha =	(a) x	(c) x	(d) ÷	(1	o) =	(3)
OKU -						
Step 4: Credit crop grown in the	previous ve	ar (C)				
and the second s	Alfalfa		Red Clover	Soybean	Annual	
		(2nd yr)			ryegrass	
Less than 1/3 stand:	0	0	0	0	0	
Between 1/3 and 2/3 stand:	40		10	0	0	
More than 2/3 Stand:	80	40	20	10	-15	
C in kg N/ha = (enter appropria	ate value from	m above) =				(4)
Step 5: Credit soil organic matte	er content (S)				
Soil organic matter greater than or equal to 3.5%						
Soil organic matter between 2.5% and 3.5%						
	5%		-15			
Soil organic matter less than 2.						
-		n above) =				(5)
Soil organic matter less than 2. S in kg N/ha = (enter appropria		m above) =			······································	(5)
S in kg N/ha = (enter appropria	ate value from				······································	(5)
S in kg N/ha = (enter appropria	ate value from	recommendat	ion (F _N) in kg	N/ha		(5)
S in kg N/ha = (enter appropria Step 6: Calculate general fertiliz (Multiply F_N by 0.89 to get fert	zer nitrogen	recommendat en recommend	ion (F_N) in kg ation in units o	N/ha f lb N/ac)		(5)
S in kg N/ha = (enter appropria	zer nitrogen	recommendat en recommend	ion (F_N) in kg ation in units o	N/ha f lb N/ac)		(5)

SMN Calculation Worksheet for Cereals

