Table 15b: Total Landbase[1] Required For The Livestock Operation In Hectares – Solid Manure

STEP 1:	Determine the total number of animals produced by the livestock operation (i.e. pig places or barn capacity).	
STEP 2:	Determine the total annual weight of manure generated by the operation.	
STEP 3:	Determine the total landbase required for the operation based on nitrogen (N).	
OR STEP 4:	Determine the total landbase required for the operation based on 2X phosphorus (P_2O_5) removal by the crop.	
OR STEP 5:	Determine the total landbase required for the operation based on 1X phosphorus (P_2O_5) removal by the crop.	
STEP 1:	Number of livestock places	_____ (A)
STEP 2:	Weight of manure in kg/day (Table 3b)	_____ (B)
	Number of days per year animals are at the operation	_____ (C)
	Weight of manure per year for the operation (A x B x C)	_____ (D)
STEP3:	Total nitrogen **(N)** content of the manure in kg/tonne (Table 5)	_____ (E)
	Amount of N per year from the operation (D x E ÷ 1000) in kg	_____ (F)
	Nitrogen requirement (based on soil test) or removal in kg/ha	_____ (G)
	Hectares Required for Nitrogen (F ÷ G)	_____ **(ha)**
STEP4:	Total phosphorus **(P_2O_5)** content of the manure in kg/tonne (Table 5)	_____ (H)
	Amount of P_2O_5 per year from the operation (D x H ÷ 1000) in kg	_____ (I)
	1X crop P_2O_5 removal (calculate using Table 6) in kg/ha	_____ (J)
	2X crop P_2O_5 removal (J x 2) in kg/ha	_____ (K)
	Hectares Required for 2X crop P_2O_5 removal [I ÷ K]	_____ **(ha)**
STEP 5:	**Hectares Required for 1X crop P_2O_5 removal [I÷ J]**	_____ **(ha)**

[1] The landbase calculation is an estimate of the total landbase required for the disposition of all of the manure generated by the operation in a year. It is for planning purposes only. Actual manure application rates are determined through manure management planning.