

## Grazing Fertiliser Programmes for 2020 – Soil P Build-Up

Aim to utilise additional phosphorus (P) during the growing season to build soil fertility levels plus increasing grass production. At this stage 50% of farm P allowance should be applied. Aim to apply remaining 50% in 2 or 3 (mid-season) applications. The examples below are for dairy farms with adjustments for P in concentrates, no adjustments for cattle slurry so where slurry applied make adjustment to fertiliser programme rates and products.

<b>Dairy</b>		Table 1:- Outlines recommended rates of N, P & K (kg/ha) & fertiliser products (kg/ha). Farm stocked at 130kg Org N/ha or 1.5 LU/ha. Soil P Index 2 and K Index 1 (assumed). Feeding 1.5t/ha Conc. Feed – P adjustment (- 3kg P/ha)						
Advice		Feb	March	April	May	June / July	Sept	Total kg/ha
<b>Product</b> (kg/ha)			155 kg/ha 18-6-12+ S	155 kg/ha 23-10-0	140 kg/ha 18-6-12+ S	120 kg/ha 18-6-12+ S	60kg/ha MOP-50%K	
<b>N</b>	<b>111</b>		28	36	25	22		<b>111</b>
<b>P</b>	<b>40</b>		9	16	8	7		<b>40</b>
<b>K</b>	<b>85</b>		19		17	14	30	<b>50</b>
<b>S</b>	<b>20</b>		5		4	4		<b>13</b>
<b>Cost €/ha</b>			<b>57</b>	<b>51</b>	<b>52</b>	<b>44</b>	<b>23</b>	<b>€227/ha</b>
<i>23-10-0 - €330, 18-6-12+ 3% S - €370, MOP (50% K) - €380/t To convert units/ac to kg/ha multiply by 1.25</i>								

<b>Dairy</b>		Table 2:- Outlines recommended rates of N, P & K (kg/ha) & fertiliser products (kg/ha). Farm stocked at 170kg Org N/ha or 2.0 LU/ha. Soil P Index 1 and K Index 2 (assumed). Feeding 2t/ha Conc. Feed – P adjustment (- 6kg P/ha)						
Advice		Feb	March	April	May	June / July	Sept	Total kg/ha
<b>Product</b> (kg/ha)		45 kg/ha ProUrea	225 kg/ha 23-10-0	225 kg/ha 18-6-12+ S	190 kg/ha 18-6-12+S	165 kg/ha 18-6-12+S	55kg/ha Pro Urea	
<b>N</b>	<b>202</b>	21	52	40	34	30	25	<b>201</b>
<b>P</b>	<b>57</b>		22	14	11	10		<b>57</b>
<b>K</b>	<b>60</b>			27	23	20		<b>70</b>
<b>S</b>	<b>20</b>			7	6	5		<b>18</b>
<b>Cost €/ha</b>		<b>17</b>	<b>74</b>	<b>83</b>	<b>70</b>	<b>61</b>	<b>21</b>	<b>€326/ha</b>
<i>ProUrea = Urea 46% + NBPT, Cost/tonne = €380/t, 23-10-0 - €330, 18-6-12+ 3% S - €370. To convert units/ac to kg/ha multiply by 1.25.</i>								

**Note :-Complete a farm fertiliser plan to determine max. N & P allowances as per nutrient legislation for your farm. Consult with your advisor on grass silage fertiliser programmes.**

<b>Dairy</b>		Table 3:- Outlines recommended rates of N, P & K (kg/ha) & fertiliser products (kg/ha). Farm stocked at 210kg Org N/ha or 2.5 LU/ha. Soil P Index 2 and K Index 2 (assumed). Feeding 2.5 t/ha Conc. Feed – P adjustment (- 9kg P/ha)						
<b>Advice</b>		<b>Feb</b>	<b>March</b>	<b>April</b>	<b>May</b>	<b>June / July</b>	<b>Sept</b>	<b>Total kg/ha</b>
<b>Product (kg/ha)</b>		55 kg/ha ProUrea	300 kg/ha 18-6-12+S	120 kg/ha Pro Urea	300kg/ha 18-6-12+S	60 kg/ha Pro Urea	60 kg/ha ProUrea	
<b>N</b>	<b>250</b>	25	54	55	54	28	28	<b>244</b>
<b>P</b>	<b>37</b>		18		18			<b>36</b>
<b>K</b>	<b>65</b>		36		36			<b>72</b>
<b>S</b>	<b>20</b>		9		9			<b>18</b>
<b>Cost €/ha</b>		<b>21</b>	<b>111</b>	<b>46</b>	<b>111</b>	<b>23</b>	<b>23</b>	<b>€335/ha</b>
<i>ProUrea = Urea 46% + NBPT, Cost/tonne = €380/t, 23-10-0 - €330, 18-6-12+ 3% S - €370. To convert units/ac to kg/ha multiply by 1.25.</i>								

<b>Dairy</b>		Table 4:- Outlines recommended rates of N, P & K (kg/ha) & fertiliser products (kg/ha). Farm stocked at 250kg Org N/ha or 2.9 LU/ha. Soil P Index 1 and K Index 2 (assumed). Feeding 2.5 t/ha Conc. Feed – P adjustment (- 9kg P/ha)						
<b>Advice</b>		<b>Feb</b>	<b>March</b>	<b>April</b>	<b>May</b>	<b>June / July</b>	<b>Sept</b>	<b>Total kg/ha</b>
<b>Product (kg/ha)</b>		55 kg/ha ProUrea	300 kg/ha 18-6-12+S	235kg/ha 23-10-0	300kg/ha 18-6-12+S	60 kg/ha Pro Urea	60 kg/ha ProUrea	
<b>N</b>	<b>250</b>	25	54	54	54	28	28	<b>243</b>
<b>P</b>	<b>60</b>		18	24	18			<b>60</b>
<b>K</b>	<b>70</b>		36		36			<b>72</b>
<b>S</b>	<b>20</b>		9		9			<b>18</b>
<b>Cost €/ha</b>		<b>21</b>	<b>111</b>	<b>78</b>	<b>111</b>	<b>23</b>	<b>23</b>	<b>€367/ha</b>
<i>ProUrea = Urea 46% + NBPT, Cost/tonne = €380/t, 23-10-0 - €330, 18-6-12+ 3% S - €370. To convert units/ac to kg/ha multiply by 1.25.</i>								

**Note :-Complete a farm fertiliser plan to determine max. N & P allowances as per nutrient legislation for your farm. Consult with your advisor on grass silage fertiliser programmes.**