




**Innovations in the Field of  
Enhanced Efficiency Fertilizers**

Agrium


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**Innovations in Enhanced Efficiency  
Fertilizers**



- Controlled Release Fertilizers common in specialty markets
- ESN® - the first CRF specifically targeted at commodity crops
- Major breakthrough in technology enables Agrium to take controlled release technology to commodity agriculture
- Production technology allows for continuous versus batch production at a world scale





## The ESN Advantage

(Three Year Corn Yield Average: TSM Research, Illinois)  
Nitrogen Rate 100 lb/acre

	Yield (bu/acre)	N (\$/acre)	Gross Profit less N Cost	ESN Outperforms
<b>ESN</b>	166	47.72	292.58	<b>ESN Advantage</b>
Urea	143	38.04	255.11	<b>\$37.47/A</b>
SD UAN	154	44.39*	271.31	<b>\$21.27/A</b>

Retail cost per ton / lb N per ton of product = cents per lb of N

ESN @ \$420.00/T: 47.72 cents/lb N  
 Urea @ 350.00/T: 38.04 cents/ lb N  
 \*UAN @ \$215/T: 38.39 cents/lb N, plus \$6.00/acre applic.cost  
 Corn @ \$2.05/bushel

