

Table 5. Estimated energy outputs in harvested winter wheat, energy inputs for cultivation and drying of grain, and net yield of energy

Fertilizer rate, kg N	0	80	120	160	200	240	280
Energy for production of fertilizer	0	2 960	4 440	5 920	7 400	8 880	10 360
Yield, kg per ha 15% moisture (seed excluded)	3 440	6 887	7 969	8 655	8 890	9023	9 181
Energy in harvested grain, MJ, 15% moisture (seed excluded)	49 536	99 173	114 754	124 632	128 016	129 931	132 206
Net energy, MJ, after management and drying	45 103	90 811	104 608	112 814	114 652	115 050	115 801
Net energy, MJ excluding basic harvest ^a	0	45 708	59 505	67 711	69 549	69 947	70 698
Energy gain, MJ, per kg N, counted stepwise	0	571	496	423	348	291	252
Energy gain divided by energy used for fertilizer production	0	15	13	11	9	8	7

^aYield at zero N fertilization.