Crops, Environment and Land-Use Programme

**Oak Park** 

# CROPS COSTS AND RETURNS 2020

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Agriculture and Food Development Authority

### **Crop Margins**

The Teagasc Crops Costs & Returns are intended as an indicative guide to crop margins; however land suitability, rotation, risk avoidance and husbandry skills must also be considered. As well as completing crop margins, all growers are strongly advised to complete a full financial appraisal of their business using the Teagasc Profit Monitor and Teagasc Machinery Costs Calculator.

There are some difference in margins between feed cereals, however, non-cereal break crops offer benefits in terms of rotation, workload and risk-spreading but the sale of inter-farm produce needs careful planning to ensure profitable crops. In the case of malting barley, food-grade oats and milling wheat, the availability of contracts and fulfillment of specific contract requirements such as specified varieties, quality parameters and input purchases need to be appraised in conjunction with the guideline margins here.

Under the Basic Payment Scheme, payments are decoupled from the crop being grown. Crop changes as a result of Crop Diversification (2 or 3-Crop Rule) need to be considered over at least a 5-year time frame, to avoid future rotational issues such as pest, weed or disease build-up. The land, on which you claim entitlements, must be maintained in "good agricultural and environmental condition" as heretofore.

**Leasing entitlements;** where a farmer doesn't have enough land to claim their entitlements, these surplus entitlements can be leased out without land to a farmer who has surplus land.

Note: The margins shown here do not include the Basic or Greening payments. For protein crops such as Beans/Peas the Protein Crop subsidy ( $\in$ 3 million over 12,000 ha =  $\in$ 250/ha) is included. However this payment will be reduced if the national threshold of 12,000ha is breached.

For more information see https://www.teagasc.ie/crops/crops/greening/

#### **Conacre appraisal**

The following table will provide a guide for growers and land owners as to the value of conacre.

1	Entitlement Value (€/ha)	
2	Gross Margin achievable (€/ha)	
3	Land issues* e.g. fertility, pH, P, K, trace elements, grass-weeds, other additional costs (€/ha)	
4	Total available for rent + contribute to fixed costs + profit (€/ha) (1+2) - 3	

\* Growers also need to evaluate potential costs due to Greening when considering land rental.

### **Material Costs**

Level of yield has a major influence on profitability. Decisions on input strategies must be tailored for individual fields and farms. The prices of grain (+ other crop output) and fertilisers may vary considerably from those predicted. The fertiliser strategies contained within are guidelines only, hence growers are advised to complete a nutrient management plan and utilise organic manures where feasible. Timeliness and attention to detail in carrying out all operations are vital to maintaining profitability in crop production. All material costs should be optimised, consistent with good husbandry practices.

#### **Machinery Costs**

Investments in machinery require a thorough financial appraisal before any purchasing decision is taken. The average machinery cost (incl. repayments, depreciation, fuel and repairs) recorded in the eProfit monitor from 2016 to 2018 is €349/ha on average, this figure does not include labour. The cost of machinery is the largest single cost on tillage farms, typically about 30% of total growing costs and along with fertiliser and land rental account for approximately 70% of the total cost of growing crops. The total machinery costs on 14% of the farms surveyed in 2016 were higher than the estimated contractor costs, even before labour costs are taken into account. The machinery costs on these farms were analysed using the Teagasc Machinery Cost Calculator which is available from your local Teagasc Tillage Advisor.

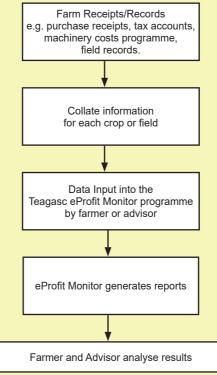
### **Fixed Costs**

Fixed costs such as repairs and maintainance, insurance, car ESB & phone etc. (not incl. interest, machinery or land rental) are unique to each farm. The average fixed costs recorded in the 2016 and 2018 Teagasc eProfit Monitor results is approximately €195/ha. However the data from the both years results also show that there can be a large variation in fixed costs (€147 - 230/ha) depending on each individual situation. Therefore, since fixed costs are largely unique to each individual farm, all farmers should calculate their own costs rather than using standard industry figures. The eProfit Monitor can be used calculate these figures for farmers.

#### e-Profit Monitor

The Teagasc eProfit Monitor (ePM) is an online financial analysis tool that farmers can use to record the income and expenditure on farm for each specific enterprise and or crop in any given year. The ePM records both variable and fixed costs on the farm. The tool can help farmers to calculate both the gross and net margins of each individual crop on their own farm. The information is specific to the farmers own farm and the analysis simply shows what the farm made in terms of income from each crop and where your money was spent. The ePM records can then be used by the farmer to compare the performance of different crops on their own farm, these can also be compared against other farmers results with your advisor or in a discussion group format, they can also be compared against the national results which can be found here https://www.teagasc.ie/crops/crops/reports--publications/crops-margins--ecrops/. Farmers can then bechmark their own performance against their peers and then investigate areas in which they may improve. The results can also be compared over different years and in this way farmers can see trends in crop performance. For further details contact your local Teagasc office.

Four simple steps to farm completing EPM;



### **EXPLANATORY NOTES**

#### **Fixed or Overhead Costs per Hectare**

Grassweed control (cultural/glyphosate) €18, Lime €20, Land maintainance, Car, ESB, Phone, regular hired labour & professional/agronomist fees etc. (Approx. €195/ha, Source 2016-2018 ePM) VAT is excluded from input costs and outputs

### A. INPUT COSTS: CEREAL CROP

€/ha

### Seed: €530/t Blue Label (Extra dressings/ton: Latitude: €210 W. Barley, €310 W. Wheat)

Rate: W. Wheat - 150 kg/ha; W. Barley - 170 kg/ha

W + S Oats - 160 kg/ha; S. Barley & S. Wheat - 170 kg/ha

Fertiliser:	Total I	Fertiliser (k	(g/ha)	Fertiliser Bags (No. of 50kg bags/ha)					
	N	Р	К	CAN + S	Cmpnd*	50% K	€/ha		
W. Wheat	250	37	110	15.8	7.4	1.4	€359		
W. Barley	210	37	100	12.8	7.4	1.0	€315		
W. Oats	150	37	130	8.4	7.4	2.2	€283		
S. Wheat	190	29	110	9.3	9.8	0.5	€302		
S. Barley	165	29	100	7.5	9.8	-	€271		
Malt Barley	145	29	100	6.0	9.8	-	€252		
S. Oats	131	29	111	5.0	9.8	0.5	€249		
CAN + S @ €2	245/t; * <b>S.</b> Cei	reals 13-6-2	20 @ €365/t;	*W. Cereals	10-10-20 @	€375/t; 50%	K @ €375/t		

N = Index 1 + yield bonus; P & K = Index 3 + yield bonus. Based on SI No. 31 of 2014. P & K Build Up – At soil Index 1 & 2 additional P & K will cost €55 & 35/ha respectively.

Herbicides: W. Wheat €81/ha; W. Barley €96/ha; S Wheat & S Barley €75/ha; Oats €35/ha

Tierbieldeel		cooma	
Fungicides:			€/ha
	Winter Wheat:   €11     T0: Chlorothalonil (CTL) (Before 20/5/2020) +/- Morph   €11     T1: Eyespot + B.S. + multisite @ 3rd last leaf fully emerged   €61     T2: Broad Spectrum (B.S.) + multisite @ G.S. 39   €71     T3: B.S. (incl. triazole) @ G.S. 55-60   €50     Spring Wheat:   €50	$\bigcirc$	€193
	T1: 1/2 rate (B.S. + Morph. + multisite) @ G.S. 30-32 €31   T2: B.S. + multisite @ G.S. 37-39 €56   T3: B.S. (incl. triazole) @ G.S. 55-60 €40   S. Barley: 2 Fungicides (Triazole/SDHI/Strob) G.S. 30, GS 37-49   Winter Barley: 3 Fungicides (Triazole/SDHI/Strob) G.S. 30/31, 32-37,   W. Qats: Triazole + morph at T1+T2, Triazole + Strob at T3   S. Oats: Reduced Rates W. Oats	49	€127 €91 €136 €105 €80
Insecticides:	Winter wheat: Red. Slug Pellets (€13/ha) + Aphicide (€5/ha) Winter barley: Aphicide €5/ha x 1 Other Cereals: Aphicide (€5/ha)		€18 €5 €5
Growth Regulators:	W. Wheat, W & S Oats Spring Wheat Winter Barley	= = =	€15 €10 €30
Hire Machinery:	Plough (€80/ha), Till, Sow & Roll (€105/ha) (+ €19/ha press spring crops Spraying (@ €23/ha): W. Wheat: Weeds + Aphids, PGR, Fungicide x 3 S. Wheat: Weeds + Aphids, PGR/Fungicide x 3 W. Barley: Weeds + Aphids, PGR/Fungicide x 3 S. Barley: Weeds + Aphids, Fungicide x 2 W. Oats: Weeds + Aphids, PGR/Fungicide x 3 Fertiliser Spreading (@ €18/ha) Harvesting		€185 €117 €94 €94 €70 €94 €33-50 €117
Interest 6%:	Seed + Fertiliser + 0.5 Agchem; Winter - 10 months; Spring - 6 months	3	

### **2020 CEREAL CROP MARGINS**

Variable Costs excl. VAT (€/ha)

	WH	EAT	FEED E	BARLEY	MALTING	FEED	OATS
	Winter	Spring	Winter	Spring	BARLEY	Winter	Spring
MATERIALS	<u>744</u>	<u>609</u>	<u>668</u>	<u>530</u>	<u>518</u>	<u>527</u>	<u>469</u>
Seed Fertilisers Sprays:	78 359	90 302	87 315	88 271	90 252	84 283	85 249
Herbicides Fungicides Insecticides Growth Regulators	81 193 18 15	75 127 5 10	96 136 5 30	75 91 5 0	75 96 5 0	35 105 5 15	35 80 5 15
HIRE MACHINERY	<u>469</u>	<u>465</u>	<u>446</u>	<u>425</u>	<u>425</u>	<u>429</u>	<u>448</u>
Plough, One-pass & Roll Spray Fertiliser Spreading Harvesting	185 117 50 117	204 94 50 117	185 94 50 117	204 70 33 117	204 70 33 117	185 94 33 117	204 94 33 117
MISCELLANEOUS	<u>96</u>	<u>69</u>	<u>87</u>	<u>61</u>	<u>58</u>	<u>76</u>	<u>57</u>
Interest (6%) Transport (€ 6/Tonne)	30 66	15 54	27 60	13 48	13 45	22 54	12 45
TOTAL VARIABLE COSTS	<u>1309</u>	<u>1142</u>	<u>1201</u>	<u>1016</u>	<u>1001</u>	<u>1033</u>	<u>974</u>
Break-even yield (grain only)	8.7	7.6	8.6	7.3	5.6	7.7	7.2
Cost per tonne @ target yields*	119	127	120	127	133	115	130
<b>Net Price (€/Tonne)</b> AID (BPS) = NOT included Straw (€/ha)	150 0 243	150 0 198	140 0 300	140 0 250	180 0 250	135 0 248	135 0 216

## Gross Margins (€//hectare)

(Incl. Straw)

	FEET WHEAT		FEED BARLEY		MALTING	FEED OATS	
Tonnes/hectare	Winter	Spring	Winter	Spring	BARLEY	Winter	Spring
6.5	-91	31	9	144	419	93	119
7.5	59	181	149	284	599	228	254
8.0	134	256	219	354	689	295	322
9.0	284	406	359	494	869	430	457
10.0	434	556	499	634	1049	565	
11.0	584		639				
12.0	734		779				

\*Crop margins are underlined for the various crop target yields.

Totals may not agree due to rounding

An online version of this calculator is available at www.teagasc.ie/crops

B. INPUT	COSTS: NON CERE	AL CROPS		€/ha
		Fertilisers/ha		
Beet:	1,000 kg Beet cmpnd @	€340/t	=	€340
	400 kg CAN + S @	€245/t	=	€98
Maize:	620 kg 0-7-30 @	€380/t	=	€236
	670 kg CAN + S	€245/t	=	€164
Potatoes:	1235 kg 7.6.17 + S	€410/t	=	€506
	250 kg CAN	€245/t	=	€61
<b>Beans/Peas:</b>	370 kg 0-7-30	€380/t		€141 €141
Winter OSR:	370 kg 10-10-20 @	€375/t	=	€139
	250 kg Urea @	€345/t	=	€86
	280 kg ASN @	€280/t	=	€78 €303
Spring OSR:	370 kg 13-6-20 @	€365/t	=	€135
	330 kg CAN+S @	€245/t	=	€81

Interest 6%: Beet, Maize, WOSR & Potatoes = 7 Months; Beans = 6 Months; SOSR & Peas = 5 Months

#### **Forward selling**

The selling price of the grain is the principal driver of profitability on tillage farms however often prices at harvest are at their lowest. Most companies now offer farmers the opportunity to sell grain at different times of the year in order to reduce the risk of selling below cost. In order to forward sell growers need to know the cost of producing the grain on the farm. The tables below are based on the variable costs in this booklet and show the cost per tonne of producing grain at different yields excluding straw. This does not include fixed costs or land rental.

Estimated cereal costs/tonne excl. straw										
	FEED \	WHEAT	FEED E	BARLEY		FEED OAT				
T/ha	Winter	Constants	Winter	Curing	MALTING BARLEY	Winter	Carina			
	winter	Spring	winter	Spring	DARLE I	winter	Spring			
6.5	201	176	185	156	154	159	150			
7.5	174	152	160	135	133	138	130			
8	164	143	150	127	125	129	122			
9	145	127	133	113	111	115	108			
10	131	114	120	102	100	103	97			
11	119	109								
12	109									

Costs per tonne excl. straw or protein payments									
T/ha	ha Peas Beans Winter Spring								
2.0	466	476	604	435					
2.5	373	381	483	348					
3.0	311	317	402	290					
4.0	233	238	302	217					
4.5	207	211	268	193					
5.0	187	190	241	174					
5.5	170	173	219	158					
6.0	155	159	201	145					

Note; Farmers should calculate the costs per tonne over the three most recent harvests before making any decision to forward sell. This will give a more realistic figure to base the calculations on. The calculation is based on the total variable costs, including machinery costs, divided by the average yield.

Note; Figures above based on total variable costs

### **2020 NON-CEREAL CROP MARGINS**

Variable Costs excl. VAT (€ /hectare)

	FODDER	Potatoes	MAIZE	PEAS	BEANS	OILSEE	D RAPE
	Beet	Main Crop	Covered	Feed		Winter	Spring
MATERIALS	<u>866</u>	<u>2672</u>	<u>688</u>	<u>451</u>	<u>478</u>	<u>625</u>	<u>344</u>
Seed Fertilisers	173 438	1375 568	188 400	153 141	170 141	80 303	90 216
Sprays: Herbicides Fungicides Insecticides	205 30 20	106 503 120	100 0 0	80 70 7	80 80 7	121 91 30	30 0 8
HIRE MACHINERY	<u>677</u>	<u>2488</u>	<u>670</u>	<u>429</u>	<u>426</u>	<u>527</u>	<u>499</u>
Plough, Till and Sow Roll Spray Fertiliser Spreading Swathing/Dessication Harvesting (grading into store)	250 0 94 33 0 300	775 0 421 33 84 1175	337 0 33 0 300	204 18 70 17 0 120	204 18 70 17 0 117	185 18 117 50 40 117	204 18 70 50 40 117
MISCELLANEOUS	<u>480</u>	<u>4174</u>	<u>284</u>	<u>53</u>	<u>47</u>	<u>55</u>	<u>27</u>
Interest (6%) Transport (€6/Tonne)** Bird Control Plastic Film/Potato storage***	30 450 0 0	94 240 0 3840	24 0 0 260	11 30 12 0	14 33 0 0	22 27 6 0	9 18 0 0
TOTAL VARIABLE COSTS	<u>2023</u>	<u>9333</u>	<u>1642</u>	<u>933</u>	<u>951</u>	<u>1207</u>	<u>870</u>
Break-even yield (excl. BPS) <b>Net Price (€ /Tonne)</b> (Protein Crops Scheme)	57.8 35 0	37.3 250 0	32.8 50 0	4.2 220 250	4.6 205 250	3.4 350 0	2.5 350 0

### Gross Margins (€ /ha)\*

	Tonnes/ha	BEET	Potatoes	MAIZE	PEAS	BEANS	OILSEE	D RAPE
Tonnes/hectare	Pulses/OSR		Main Crop				Winter	Spring
(Maize, beet & potatoes) 30 35 40 55 65 70 75 80	2.0 2.5 3.0 4.0 4.5 5.0 5.5 6.0	-623 -273 -98 252 427 602 777	-1833 -583 667 3167	-142 108 358 858 <u>1108</u> 1608	197 307 <u>417</u> 527 637	-86 119 221 324 426 529	-157 193 <u>368</u> 543	-170 5 <u>180</u> 530 705

Totals may not agree due to rounding

\* Gross margin does not include storage costs for beet or maize. \*\* Transport cost of €6/tonne at target yields. Maize harvesting cost includes transport to pit (4-5 trailers). \*\*\*Potato storage cost @ €16/t per month for 6 months at target yields **Note:** Irrigation costs of approximately €175 /ha per application can be added to machinery costs when needed.

### **2020 CEREAL CROP MARGINS**

Variable Costs excl. VAT (€/ac)

	FEED	WHEAT	FEED E	BARLEY	MALTING	FEED	OATS
	Winter	Spring	Winter	Spring	BARLEY	Winter	Spring
MATERIALS	<u>301</u>	<u>246</u>	<u>270</u>	<u>215</u>	<u>210</u>	<u>213</u>	<u>190</u>
Seed Fertilisers	32 145	36 122	35 127	36 110	36 102	34 115	34 101
Sprays: Herbicides Fungicides Insecticides Growth Regulators	33 78 7 6	30 51 2 4	39 55 2 12	30 37 2 0	30 39 2 0	14 42 2 6	14 32 2 6
HIRE MACHINERY	<u>190</u>	<u>188</u>	<u>180</u>	<u>172</u>	<u>172</u>	<u>174</u>	<u>181</u>
Plough, One-pass & Roll Spray Fertiliser Spreading Harvesting	75 47 20 47	83 38 20 47	75 38 20 47	83 28 13 47	83 28 13 47	75 38 13 47	83 38 13 47
MISCELLANEOUS	<u>39</u>	<u>28</u>	<u>35</u>	<u>25</u>	<u>23</u>	<u>31</u>	<u>23</u>
Interest (6%) Transport (€ 6/Tonne)	12 27	6 22	11 24	5 19	5 18	9 22	5 18
TOTAL VARIABLE COSTS	<u>530</u>	<u>462</u>	<u>486</u>	<u>411</u>	<u>405</u>	<u>418</u>	<u>394</u>
Break-even yield (grain only)	3.5	3.1	3.5	2.9	2.3	3.1	2.9
Cost per tonne @ target yields*	120	128	121	129	135	116	131
<b>Net Price (€/Tonne)</b> AID (SFP)=NOT included Straw (€/ac)	150 0 98	150 0 80	140 0 121	140 0 101	180 0 101	135 0 100	135 0 87

### Gross Margins (€/acre) (Incl. Straw)

	FEET WHEAT		FEED BARLEY		MALTING	FEED	OATS
Tonnes/acre	Winter	Spring	Winter	Spring	BARLEY	Winter	Spring
2.6	-41	8	-1	54	164	33	44
3.0	19	68	55	110	236	87	98
3.2	49	98	83	138	272	114	125
3.6	109	158	139	194	344	168	179
4.0	169	218	195	250	416	222	
4.4	229		251				
4.9	304						

\*Crop margins are underlined for the various crop target yields.

Totals may not agree due to rounding

An online version of this calculator is available at www.teagasc.ie/crops/crops\_margins

### **2020 NON-CEREAL CROP MARGINS**

Variable Costs excl. VAT (€ /ac)

	FODDER	Potatoes		PEAS	BEANS	OILSEED RAPE	
	Beet	Main Crop	Covered	Feed		Winter	Spring
MATERIALS	<u>350</u>	<u>1081</u>	<u>278</u>	<u>182</u>	<u>193</u>	<u>253</u>	<u>139</u>
Seed Fertilisers	70 177	556 230	76 162	62 57	69 57	32 123	36 87
Sprays: Herbicides Fungicides Insecticides	83 12 8	43 204 49	40 0 0	32 28 3	32 32 3	49 37 12	12 0 3
HIRE MACHINERY	<u>274</u>	<u>1007</u>	<u>271</u>	<u>174</u>	<u>172</u>	<u>213</u>	<u>202</u>
Plough, Till and Sow Roll Spray/Irrigation Fertiliser Spreading Swathing/Dessication Harvesting (grading into store)	101 0 38 13 0 121	314 0 170 13 34 476	136 0 13 0 121	83 7 28 7 0 49	83 7 28 7 0 47	75 7 47 20 16 47	83 7 28 20 16 47
MISCELLANEOUS	<u>194</u>	<u>1689</u>	<u>115</u>	<u>22</u>	<u>19</u>	<u>22</u>	<u>11</u>
Interest (6%) Transport (€6/Tonne)** Bird Control Plastic Film/Potato Storage***	12 182 0 0	38 97 0 1554	10 0 0 105	5 12 5 0	6 13 0 0	9 11 3 0	3 7 0 0
TOTAL VARIABLE COSTS	<u>819</u>	<u>3777</u>	<u>664</u>	<u>378</u>	<u>385</u>	<u>489</u>	<u>352</u>
Break-even yield (excl. BPS) Net Price (€ /Tonne) (Protein Crop Subsidy)	23.4 35 0	15.1 250 0	13.3 50 0	1.7 220 101	1.9 205 101	1.4 350 0	1.0 350 0

### Gross Margins (€/ac)\*

	BEET	Potatoes	MAIZE	PEAS	BEANS	OILSEED RAPE	
	Tonnes/ac Ilses/OSR	Main Crop				Winter	Spring
(Maize, beet & potatoes) 12 14 16 20 22 26 28 30 32	1.0 1.0 1.2 1.4 2.0 2.2 -119 2.4 -49 2.6 91 161 231 301	-777 -277 223 1223	-64 36 136 336 <u>436</u> 636	32 164 208 252 296	3 126 167 <u>208</u> 249	-69 1 <u>211</u> 281	-2 68 138 348

Totals may not agree due to rounding \* Gross margin does not include storage costs for beet, potatoes or maize \*\* Transport cost of €6/tonne at target yields. \*\*\*Potato storage cost @ €16/t per month for 6 months at target yields Note: Irrigation costs of approximately €70 /ac per application can be added to machinery costs when needed.

### **CROP BUDGETS & SHARE- FARMING**

Variable Costs excl. VAT (€/Acre)

		WINTER WHEAT		SPRING BARLEY		SHARE FARMING	
		Your	Teagasc	Your	Teagasc	Landowner Share	
		Figures	Figures	Figures	Figures	WHEAT	BARLEY
MATERIALS							
$(\mathbf{A} = \mathbf{B} + \mathbf{C} + \mathbf{D} + \mathbf{E} + \mathbf{F} + \mathbf{G})$	Α		<u>301</u>		<u>215</u>		
Seed	в		32		36		
Fertilisers	С		145		110		
Sprays:							
Herbicides	D		33		30		
Fungicides	Е		78		37		
Insecticides	F		7		2		
Growth Regulators	G		6		0		
HIRE MACHINERY							
<b>(H</b> = I+J+K+L)	н		<u>190</u>		<u>172</u>		
Plough, Till and Sow	I.		75		83		
Spray	J		47		28		
Fertiliser Spreading	к		20		13		
Harvesting	L		47		47		
MISCELLANEOUS							
( <b>M</b> =N+O)	М		<u>39</u>		<u>25</u>		
Interest (6%)	N		12		5		
Transport (€6/Tonne)	0		27		19		
TOTAL VARIABLE							
COSTS (P = A+H+M)	Ρ		<u>530</u>		<u>411</u>		
Tonnes to cover variable							
costs ( <b>Q</b> = P/R)	Q		3.5		2.9		
Net Price (€/Tonne)	R		150		140		
AID (€/Acre)	S		0		0		+
Straw (€/Acre)	T		98		101		
Projected yield	Ū		4.4		3.2		<u> </u>
Gross Margins							
(€/Acre)							1
(V = (R*U)+S+T-P)	v		229		<u>138</u>		1
( , , , , , , , , , , , , , , , , , , ,	-					1	

An excel version of this calculator is available (free) from www.teagasc.ie/crops Totals may not agree due to rounding

### **2020 FORAGE CROP MARGINS**

Variable Costs excl. VAT (€/hectare)

Crops for use on farm	F. BEET	W'CROP WINTER WHEAT	KALE	RAPE	STUBBLE TURNIPS	MAIZE
MATERIALS	<u>866</u>	<u>744</u>	<u>440</u>	<u>267</u>	<u>146</u>	<u>948</u>
Seed Fertilisers Plastic Film Sprays: Herbicides Fungicides Insecticides Growth regulator	173 438 0 205 30 20	78 359 0 81 193 18 15	78 302 0 60 0 0	20 247 0 0 0 0	28 118 0 0 0 0	188 400 260 100 0 0
HIRE MACHINERY	<u>1007</u>	<u>637</u>	<u>225</u>	<u>202</u>	<u>97</u>	<u>670</u>
Seedbed Prep + sow Spray Fertiliser Spreading Harvesting +Covering Washing and chopping	250 94 33 300 330	185 117 50 285 0	185 23 17 0 0	185 0 17 0 0	80 0 17 0 0	337 0 33 300 0
MISCELLANEOUS	<u>30</u>	<u>30</u>	<u>22</u>	<u>13</u>	<u>7</u>	<u>24</u>
Interest 6%	30	30	22	13	7	24
TOTAL VARIABLE COSTS	<u>1903</u>	<u>1410</u>	<u>687</u>	<u>482</u>	<u>250</u>	<u>1642</u>
GREEN YIELD (Tonnes/hectare) Leaves(+roots) Fresh wt. DRY MATTER	124	30	37	42	25	55
(Tonnes/hectare)	13.0	12.5	6.0	3.5	2.5	15.0
COST (€/Tonne utilised DM)	146	113	115	138	100	109
UFL Value (Kg DM)	1.12	0.8	1.05	1.1	1.2	0.8

Forage crops should be also evaluated on net energy, protein content and feeding system etc. to discern a more complete value.

Totals may not agree due to rounding. The table above is based on all crops being utilised on the farm on which they are grown therefore no transport charges apply.

### **Comment on Forage Crop Costs**

The convenience of growing, storing, feeding and animal performance, are important considerations when deciding which fodder crop to grow. As well as costs per ton of dry matter, forage crops should also be evaluated on net energy (UFL), protein content and feeding system to discern a more complete value. One UFL equals the energy content of 1kg of dried barley.

The opportunity cost of land should be taken into account when making comparisons of fodder and bought in feed. Thus a rental charge of €400/ha may be applied for a full year in the case of grazed grass, maize and whole crop cereals but proportionally less in the case of grass silage and brassicas.

### **Share farming**

Share Farming is an agreement between two individuals (or two businesses) to jointly manage a farming operation. This legal agreement allows both the grower and the landowner to farm as separate legal entities but share in the risks and rewards of growing crops. As both individuals remain separate business entities, they can continue to claim the EU/DAFM payments etc. in their own name as normal.

#### Key points:

- Share Farming is fully compliant with EU/DAFM schemes
- The agreement is **not** land rental or a Partnership agreement
- The output generated from the land are to reward the
  - Landowner for the land, labour and inputs supplied
  - Share farmer for labour, expertise and inputs supplied
- Both parties are separate business entities and must not open or operate joint accounts to run the farming operation
- Share farming is compatible with the Basic Payment Scheme and Greening, subject to conditions.

A template of a Share Farm Agreement is available on (**www.teagasc.ie**) which also displays example agreements. Contact your local advisor for more details.

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