Crops, Environment and Land-Use Programme

Oak Park

# CROPS COSTS AND RETURNS 2021

Compiled by: Ciaran Collins and Shay Phelan, Tillage Crops Specialists



#### **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 eProfit Monitor and Teagasc Machinery Costs Calculator.

There is little difference in margins between the feed cereals. 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 or the straw incorporation scheme for 2021, (details of which have yet to be announced). For protein crops such as Beans/Peas the Protein Crop subsidy ( $\leqslant$ 3 million over 12,000 ha =  $\leqslant$ 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	

<sup>\*</sup> 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) on 139 tillage farms (15,000 ha) in 2016 was €293/ha, 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.

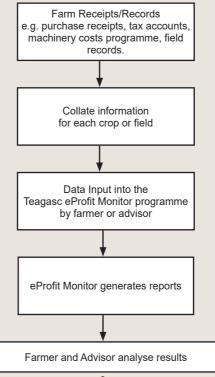
#### **Fixed Costs**

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 profit of each individual crop on the 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 benchmark 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 CROPS

€/ha

Seed: €550/t Blue Label (Extra dressings/tonne: Latitude: €220 barley & wheat. Mn: €70)

Rate: W. Wheat - 170 kg/ha; W. Barley - 190 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	K	CAN+S	Cmpnd*	50% K	€/ha	
W. Wheat	250	37	110	15.8	7.4	1.4	€345	
W. Barley	210	37	100	12.8	7.4	1.0	€303	
W. Oats	150	37	130	8.4	7.4	2.2	€271	
S. Wheat	190	29	110	9.3	9.8	0.5	€391	
S. Barley	165	29	100	7.5	9.8	-	€262	
Malt Barley	145	29	100	6.0	9.8	-	€244	
S. Oats	131	29	111	5.0	9.8	0.5	€241	
CAN + S @ €2	235/t; <b>*S. Cer</b>	eals 13-6-2	20 @ €355/t;	*W. Cereals	10-10-20 @	€365/t; 50%	K @ €340/t	

N = Index 1 + yield bonus; P & K = Index 3 + yield bonus. Based on SI No. 605 of 2017.

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						
Fungicides:	Winter Wheat: Leaf 4: Yellow rust control +/- Leaf 3: Eyespot + Broad Spectrum (B.S.) + multisite Flag leaf: Broad Spectrum (B.S.) + multisite Ear: B.S. (incl. Azole) @ G.S. 51-60 Winter Barley: G.S. 25-30: 1/2 rate (Azole +SDHI) +/- G.S. 31-33: 1/2 rate (Azole +SDHI) +/- G.S. 39-49: B.S. (incl. Azole/SDHI + multisite) S. Barley: 2 Fungicides (Azole/SDHI/Strob/multisite) G.S. 30 & 37-49 S. Wheat: 3 Fungicides (Azole/SDHI/Multisite) G.S. 30/31, 37/39, 51/60 W. Oats: Azole + morph at T1+T2, Triazole + SDHI at T3 S. Oats: Reduced Rates W. Oats		€213 €126 €92 €135 €126 €110			
Insecticides:	Winter wheat: Red. Slug Pellets (€13/ha) + Aphicide (€5/ha) Winter barley: contact €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 (@ €17/ha) Harvesting	= = = = = =	€185 €117 €94 €117 €70 €94 €33-50 €117			
Interest 6%:	Seed + Fertiliser + 0.5 Agchem; Winter - 10 months; Spring - 6 months					

## **2021 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>765</u>	<u>614</u>	<u>660</u>	<u>528</u>	<u>523</u>	<u>539</u>	<u>496</u>
Seed Fertilisers Sprays:	94 345	98 291	101 303	94 262	102 244	86 271	90 241
Herbicides Fungicides Insecticides Growth Regulators	81 213 18 15	75 135 5 10	96 126 5 30	75 92 5 0	75 97 5 0	35 126 5 15	35 110 5 15
HIRE MACHINERY	<u>469</u>	<u>465</u>	<u>469</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	185 117 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>1330</u>	<u>1148</u>	<u>1216</u>	<u>1014</u>	<u>1006</u>	<u>1044</u>	<u>1001</u>
Break-even yield (grain only)	8.1	7.0	7.9	6.6	5.2	7.0	6.7
Cost per tonne @ target yields*	121	128	122	127	134	116	134
Net Price (€/Tonne) AID (BPS) = NOT included Straw (€/ha)	165 0 243	165 0 198	153 0 300	153 0 250	195 0 250	150 0 248	150 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	-15	123	78	231	511	179	190
7.5	150	288	231	384	706	329	340
8.0	233	370	308	460	804	404	415
9.0	398	535	461	613	999	554	565
10.0	563	700	614	766	1194	704	
11.0	728		767				
12.0	893		920				

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

Fertiliser requirements are based on target yields. Totals may not agree due to rounding. An online version of this calculator is available at https://www.teagasc.ie/crops/crops/reports--publications/crops-margins--ecrops/

#### Fertilisers/ha

Beet:	1,000 kg Beet cmpnd @ 400 kg CAN + S @	€330/t €235/t	=	€330 €94	€424
Maize:	620 kg 0-7-30 @ 670 kg CAN + S	€350/t €235/t	= =	€217 €157	€374
Potatoes:	1235 kg 7.6.17 + S 250 kg CAN	€405/t €235/t	= =	€500 €47	€547
Beans/Peas:	370 kg 0-7-30	€350/t		€130	€130
Winter OSR:	370 kg 10-10-20 @ 250 kg Urea @ 280 kg ASN @	€365/t €330/t €270/t	= = =	€135 €83 €76	€293
Spring OSR:	370 kg 13-6-20 @ 330 kg CAN+S @	€355/t €235/t	= =	€131 €78	€209

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. Obviously the higher the yield the lower the cost per tonne will be as generally most crops receive a similar spend on inputs.

	Estimated cereal costs/tonne excl. straw											
	FEED \	WHEAT	FEED E	BARLEY		FEED (	OATS					
T/ha					MALTING							
	Winter	Spring	Winter	Spring	BARLEY	Winter	Spring					
6.5	205	175	189	156	155	161	154					
7.5	177	152	163	135	134	139	134					
8	166	142	153	127	126	131	125					
9	148	127	136	113	112	116	111					
10	133	114	123	101	101	104	100					
11	121		111									
12	111											

Costs per tonne excl. straw or protein payments									
T/ha	Peas	Beans	Oilseed Rape Winter Spring						
2.0	454	461	594	425					
2.5	363	369	475	340					
3.0	303	308	396	284					
4.0	227	231	297	213					
4.5	202	205	264	189					
5.0	182	185	238	170					
5.5	165	168	216	155					
6.0	151	154	198	142					

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

## **2021 NON-CEREAL CROP MARGINS**

Variable Costs excl. VAT (€ /hectare)

	FODDER	Potatoes		PEAS	BEANS	OILSEE	D RAPE
	Beet	Main Crop	Covered	Feed		Winter	Spring
MATERIALS	<u>854</u>	<u>2779</u>	<u>664</u>	<u>427</u>	<u>450</u>	<u>618</u>	<u>337</u>
Seed Fertilisers	175 424	1500 547	190 374	140 130	150 130	80 293	90 209
Sprays: Herbicides Fungicides Insecticides	205 30 20	106 505 120	100 0 0	80 70 7	80 84 7	121 94 30	30 0 8
HIRE MACHINERY	<u>677</u>	<u>2568</u>	<u>670</u>	<u>429</u>	<u>426</u>	<u>515</u>	<u>487</u>
Plough, Till and Sow Roll Spray Fertiliser Spreading Swathing/Dessication Harvesting (grading into store)	250 0 94 33 0 300	775 0 421 33 164 1175	337 0 0 33 0 300	204 18 70 17 0 120	204 18 70 17 0 117	185 18 117 50 28 117	204 18 70 50 28 117
MISCELLANEOUS	<u>480</u>	<u>4177</u>	<u>283</u>	<u>53</u>	<u>47</u>	<u>55</u>	<u>26</u>
Interest (6%) Transport (€6/Tonne)** Bird Control Plastic Film/Potato storage***	30 450 0 0	97 240 0 3840	23 0 0 260	11 30 12 0	14 33 0 0	22 27 6 0	8 18 0 0
TOTAL VARIABLE COSTS	<u>2011</u>	<u>9524</u>	<u>1618</u>	<u>909</u>	<u>923</u>	<u>1188</u>	<u>851</u>
Break-even yield (excl. BPS)  Net Price (€ /Tonne) (Protein Crops Scheme)	57.4 35 0	38.1 250 0	32.4 50 0	4.1 220 250	4.4 210 250	3.1 385 0	2.3 375 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 50 55 65 70 75 80	2.0 2.5 3.0 4.0 4.5 5.0 5.5 6.0	-611 -261 -86 264 439 614 789	-2024 -774 476 2976	-118 132 382 882 1132 1632	221 331 441 551 661	-43 167 272 377 482 587	-33 352 545 737	-101 87 274 649 837

Note; 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.

## **2021 CEREAL CROP MARGINS**

Variable Costs excl. VAT (€/ac)

	FEED \	WHEAT	FEED E	ARLEY	MALTING	FEED	OATS
	Winter	Spring	Winter	Spring	BARLEY	Winter	Spring
MATERIALS	<u>310</u>	<u>248</u>	<u>267</u>	<u>214</u>	212	<u>218</u>	<u>201</u>
Seed Fertilisers	38 140	40 118	41 123	38 106	41 99	35 110	36 98
Sprays: Herbicides Fungicides Insecticides Growth Regulators	33 86 7 6	30 55 2 4	39 51 2 12	30 37 2 0	30 39 2 0	14 51 2 6	14 45 2 6
HIRE MACHINERY	<u>190</u>	<u>188</u>	<u>190</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 47 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>538</u>	<u>464</u>	<u>492</u>	<u>410</u>	<u>407</u>	<u>423</u>	<u>405</u>
Break-even yield (grain only)	3.3	2.8	3.2	2.7	2.1	2.8	2.7
Cost per tonne @ target yields*	122	129	123	128	136	117	135
Net Price (€/Tonne) AID (SFP)=NOT included Straw (€/ac)	165 0 98	165 0 80	153 0 121	153 0 101	195 0 101	150 0 100	150 0 87

# Gross Margins (€/acre)

(Incl. Straw)

	FEET WHEAT FEE		FEED E	BARLEY	MALTING	FEED	OATS
Tonnes/acre	Winter	Spring	Winter	Spring	BARLEY	Winter	Spring
2.6	-11	45	27	89	201	68	72
3.0	55	111	88	150	279	128	132
3.2	88	144	119	181	318	158	162
3.6	154	210	180	242	396	218	222
4.0	220	276	241	303	474	278	
4.4	286		302				
4.9	368						

Note; \*Crop margins are underlined for the various crop target yields. Fertiliser requirements are based on target yields Totals may not agree due to rounding. An online version of this calculator is available at https://www.teagasc.ie/crops/crops/reports--publications/crops-margins--ecrops/

# **2021 NON-CEREAL CROP MARGINS**

Variable Costs excl. VAT (€ /ac)

	FODDER		MAIZE	PEAS	BEANS	OILSEED RAPE	
	Beet	Main Crop	Covered	Feed		Winter	Spring
MATERIALS	<u>346</u>	1124	<u>269</u>	<u>173</u>	<u>182</u>	<u>250</u>	<u>136</u>
Seed Fertilisers	71 172	607 221	77 152	57 52	61 52	32 119	36 85
Sprays: Herbicides Fungicides Insecticides	83 12 8	43 205 49	40 0 0	32 28 3	32 34 3	49 38 12	12 0 3
HIRE MACHINERY	<u>274</u>	<u>1039</u>	<u>271</u>	<u>174</u>	<u>172</u>	<u>208</u>	<u>197</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 66 476	136 0 0 13 0 121	83 7 28 7 0 49	83 7 28 7 0 47	75 7 47 20 11 47	83 7 28 20 11 47
MISCELLANEOUS	<u>194</u>	<u>1690</u>	<u>115</u>	<u>21</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	39 97 0 1554	9 0 0 105	4 12 5 0	5 13 0 0	9 11 3 0	3 7 0
TOTAL VARIABLE COSTS	<u>814</u>	<u>3854</u>	<u>655</u>	<u>368</u>	<u>373</u>	<u>481</u>	<u>344</u>
Break-even yield (excl. BPS)  Net Price (€ /Tonne) (Protein Crop Subsidy)	23.2 35 0	15.4 250 0	13.1 50 0	1.7 220 101	1.8 210 101	1.2 385 0	0.9 375 0

# Gross Margins (€/ac)\*

		BEET	Potatoes	MAIZE	PEAS	BEANS	OILSEED RAPE	
Tonnes/acre	Tonnes/ac Pulses/OSR		Main Crop				Winter	Spring
(Maize, beet & potatoes) 12 14 16 20 22 26 28 30 32	1.0 1.2 1.4 2.0 2.2 2.4 2.6	-254 -114 -44 96 166 236 306	-854 -354 146 1146	-55 45 145 345 445 645	41 173 217 261 305	22 148 190 232 274	-19 58 289 366	31 106 181 406

Note; 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	BARLE
MATERIALS							
$(\mathbf{A} = B + C + D + E + F + G)$	Α		<u>310</u>		<u>214</u>		
Seed	В		38		38		
Fertilisers	С		140		106		
Sprays:							
Herbicides	D		33		30		
Fungicides	E		86		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	- 1		75		83		
Spray	Ĵ		47		28		
Fertiliser Spreading	K		20		13		
Harvesting	L		47		47		
MISCELLANEOUS							
( <b>M</b> =N+O)	M		<u>39</u>		<u>25</u>		
Interest (6%)	N		12		5		
Transport (€6/Tonne)	0		27		19		
TOTAL VARIABLE							
COSTS (P = A+H+M)	Р		<u>538</u>		<u>410</u>		
Tonnes to cover variable							
costs (Q = P/R)	Q		3.3		2.7		
Net Price (€/Tonne)	R		165		153		
AID (€/Acre)	S		0		0		1
Straw (€/Acre)	Т		98		101		
Projected yield	U		4.4		3.2		
Gross Margins							
(€/Acre)							
(V = (R*U)+S+T-P)	V		<u>286</u>		<u>181</u>		

An excel version of this calculator is available (free) from

https://www.teagasc.ie/crops/crops/reports---publications/crops-margins--ecrops/ Totals may not agree due to rounding

#### 2021 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>854</u>	<u>765</u>	<u>421</u>	<u>258</u>	<u>143</u>	<u>924</u>
Seed Fertilisers Plastic Film Sprays: Herbicides Fungicides Insecticides Growth regulator	175 424 0 205 30 20	94 345 0 81 213 18 15	78 283 0 60 0	20 238 0 0 0 0	28 115 0 0 0	190 374 260 100 0
HIRE MACHINERY	<u>1007</u>	<u>637</u>	<u>225</u>	202	<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	80 0 17 0	337 0 33 300 0
MISCELLANEOUS	<u>30</u>	<u>30</u>	<u>21</u>	<u>13</u>	<u>7</u>	<u>23</u>
Interest 6%	30	30	21	13	7	23
TOTAL VARIABLE COSTS	<u>1891</u>	<u>1432</u>	<u>668</u>	<u>473</u>	<u>246</u>	<u>1618</u>
GREEN YIELD (Tonnes/hectare) Leaves(+roots) Fresh wt.	124	30	37	42	25	55
(Tonnes/hectare)	13.0	12.5	6.0	3.5	2.5	15.0
COST (€/Tonne utilised DM)	145	115	111	135	99	108
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

https://www.teagasc.ie/rural-economy/farm-management/collaborative-farming/share-farming---crops/which also displays example agreements. Contact your local advisor for more details.

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