

## Addendum 001 – RFA Carbon and Sustainability Reporting Guidance, Part 1

**Table 1: Feedstock default values. Note that these figures are conservative.**

– Version 1.0: page 78-79.

Fuel	Feedstock	Carbon Intensity
		grams CO <sub>2e</sub> / MJ
Bioethanol	Wheat	61
	Sugarcane	25
	Sugar beet	50
	Molasses	40
	Corn	108
Biodiesel (Methyl Ester)	Oilseed rape	55
	Soy	78
	Palm	47
	Tallow	13
	Used cooking oil	13
Biodiesel (Hydrotreated vegetable oil)	Oilseed rape	58
	Soy	86
	Palm	51
Biomethane	Manure	36

Fuel	Feedstock	Carbon Intensity
		grams CO <sub>2</sub> e / MJ
	Municipal solid waste	36
ETBE – refinery isobutene	Wheat	68
	Sugar beet	63
	Sugar cane	55
	Molasses	59
	Corn	82
ETBE – imported isobutene	Wheat	81
	Sugar beet	77
	Sugar cane	68
	Molasses	73
	Corn	96

The sugar cane ethanol value above has changed significantly. The previous value (61 gCO<sub>2</sub>e/MJ) was a transcription error.

The two other changes are due to corrections to minor calculation or transcription errors. None of the underlying single default values or assumptions have changed.

**Table 2: Feedstock & origin default values. Note that these figures represent worst ‘common’ practice and do not necessarily represent typical practice.**

– Version 1.0: page 80-83.

Fuel	Feedstock	Origin	Carbon Intensity
			grams CO <sub>2</sub> e / MJ
Bioethanol	Wheat	Canada	80
		France	65
		Germany	59
		Ukraine	103
		United Kingdom	61
	Sugar beet	United Kingdom	50
	Sugar cane	Brazil	25
		Mozambique	30
		Pakistan	115
		South Africa	113
	Molasses	Pakistan	77
		South Africa	88
		United Kingdom	40
	Corn	France	49
		United States of America	108
Biodiesel (Methyl Ester)	Oilseed rape	Australia	71
		Canada	56

Fuel	Feedstock	Origin	Carbon Intensity
			grams CO2e / MJ
		Finland	54
		France	46
		Germany	48
		Poland	45
		Ukraine	60
		United Kingdom	55
	Soy	Argentina	48
		Brazil	78
		United States of America	58
	Palm	Malaysia	47
		Indonesia	47
	Used cooking oil	United Kingdom	13
	Tallow	Denmark	14
		United Kingdom	13
		United States of America	17
Biodiesel (Hydrotreated vegetable oil)	Oilseed rape	Australia	79
		Canada	62
		Finland	58

Fuel	Feedstock	Origin	Carbon Intensity
			grams CO <sub>2</sub> e / MJ
		France	50
		Germany	52
		Poland	48
		Ukraine	66
		United Kingdom	61
	Soy	Argentina	52
		Brazil	86
		United States of America	64
	Palm	Indonesia	51
		Malaysia	51
Biomethane	Municipal Solid Waste	United Kingdom	36
	Manure	United Kingdom	36
ETBE – refinery isobutene	Wheat	Canada	73
		France	68
		Germany	66
		Ukraine	81
		United Kingdom	66
	Sugar beet	United Kingdom	63

Fuel	Feedstock	Origin	Carbon Intensity
			grams CO2e / MJ
	Molasses	Pakistan	72
		South Africa	76
		United Kingdom	59
	Sugar cane	Brazil	55
		Mozambique	56
		Pakistan	85
		South Africa	84
	Corn	France	63
		United States of America	82
	ETBE – imported isobutene	Wheat	Canada
France			81
Germany			79
Ukraine			94
United Kingdom			80
Sugar beet		United Kingdom	77
Molasses		Pakistan	86
		South Africa	89
		United Kingdom	73

Fuel	Feedstock	Origin	Carbon Intensity
			grams CO <sub>2</sub> e / MJ
	Sugar cane	Brazil	68
		Mozambique	70
		Pakistan	98
		South Africa	97
	Corn	France	76
		United States of America	96

#### Reason for changes

- All of the changes made above are due to corrections to minor calculation or transcription errors. None of the underlying single default values or assumptions have changed.

## What to do if there is no appropriate default value

– *Version 1.0: page 83.*

There may be certain situations in which an appropriate default value is not available for a batch of renewable fuel – for example, when a biofuel produced from a new feedstock (e.g. biodiesel from jatropha) or a new type of fuel is imported into the UK.

In this situation the fuel supplier should inform the RFA in order that a new fuel chain may be defined. A temporary default value should be used according to the following guidelines:

- Where a renewable fuel is produced from a country of origin not defined in

Table 2 use the relevant fuel default in **Error! Reference source not found.**

Reason for changes

- The bullet above previously referred, in error, to Table 22.