

## International Sustainability & Carbon Certification (ISCC)

<b>Country/ Organization</b>	ISCC Association	<b>Year and status</b>	2010 (under development; and in operation)
<b>Initiative</b>	International Sustainability & Carbon Certification (ISCC)		
<b>Membership</b>	Stakeholders from: agriculture & conversion; trade, logistics & users; and NGOs, social research and others		
<b>Governing bodies</b>	General Assembly; Board; Technical Committees; and Executive Board		
<b>Type and implementation approach</b>	Certification scheme	<b>Geographical coverage</b>	Global
<b>Feedstock(s) covered</b>	All	<b>Supply chain coverage</b>	Biofuel feedstock production, processing and biofuel transportation/distribution
<b>Type(s) of biofuels covered</b>	All		
<b>Link</b>	<a href="http://www.iscc-system.org/e865/e890/e954/e956/ISCC202SustainabilityRequirements_en_eng.pdf">http://www.iscc- system.org/e865/e890/e954/e956/ISCC202SustainabilityRequirements_en_eng.pdf</a>		

### Overview<sup>1</sup>.

The International Sustainability & Carbon Certification (ISCC) system was developed through a project that started in 2008 with the objective to develop “an internationally oriented, practical and transparent system for the certification of biomass and bioenergy<sup>2</sup>”.

ISCC is concerned, in particular, with the following sustainability aspects/issues across the entire biofuel supply chain:

- reduction of GHG emissions;
- sustainable use of land;
- protection of natural biospheres; and
- social sustainability.

The ISCC certification criteria fall into three categories:

1. sustainability requirements for biomass production<sup>3</sup>;
2. requirements concerning the GHG emission savings and the associated calculation methodology<sup>4</sup>; and

<sup>1</sup> The information included in this section was excerpted and adapted directly from the ISCC web-site: <http://www.iscc-system.org/>

<sup>2</sup> The project was funded by the German Federal Ministry of Food, Agriculture and Consumer Protection via the Agency for Renewable Resources (FNR).

<sup>3</sup> *ISCC 202 Sustainability Requirements – Requirements for the Production of Biomass.*

3. requirements for traceability<sup>5</sup> and mass balance calculation methodology<sup>6</sup>.

The ISCC sustainability requirements for biomass production comprise six principles:

1. Biomass shall not be produced on land with high biodiversity value or high carbon stock and not from peat land. HCV areas shall be protected;
2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices;
3. Safe working conditions through training and education, use of protective clothing and proper and timely assistance in the event of accidents;
4. Biomass production shall not violate human rights labour rights or land rights. It shall promote responsible labour conditions and workers' health, safety and welfare and shall be based on responsible community relations;
5. Biomass production shall take place in compliance with all applicable regional and national laws and shall follow relevant international treaties; and
6. Good management practices shall be implemented.

A set of “major musts” and “minor musts” criteria was developed around these principles. For a successful audit, all of the former and at least 80% of the latter must be complied with by the operators along the bioenergy supply chain.

ISCC was the first certification system for sustainable biomass and bioenergy to be approved by the German Authority BLE<sup>7</sup>. The ISCC system constitutes an instrument for the implementation of the requirements of the EU Renewable Energy Directive (2009/28/EC) and of a number of relevant German ordinances on the production of biofuels and bioliquids for electricity generation.

For citation:

Ismail, M., & Rossi, A. 2010. *A Compilation of Bioenergy Sustainability Initiatives*. Rome: Food and Agriculture Organization of the UN (FAO).

The authors would like to thank Onyekachi Nwankwo (Volunteer) for his valuable contribution.

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<sup>4</sup> ISCC 205 GHG Emission Calculation Methodology.

<sup>5</sup> ISCC 203 Requirements for Traceability. The origin of the biomass must be traceable through the different stages of the biofuel supply chain. This is done according to traceability systems and documented evidence/surveillance statements.

<sup>6</sup> ISCC 204 Mass Balance Calculation Methodology.

<sup>7</sup> ISCC does not issue certifications directly. The list of approved Certification Bodies is available on the ISCC web-site.

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ASPECTS/ISSUES	PRINCIPLES	CRITERIA
<b>1. ENVIRONMENTAL</b>		
<p>1.1 Land-use change (direct and/or indirect)</p> <p><a href="#">Back to table of content</a></p>	<p>1. Biomass shall not be produced on land with high biodiversity value or high carbon stock and not from peat land (according to Article 17, 3. of the Directive 2009/28/EC and § 4 to 6 of the German BioSt-NachV). HCV areas shall be protected.</p>	<p><b>MAJOR MUST</b></p> <p>1.3 Biomass is not produced on land with high carbon stock.</p> <p>This means land that used to have one of the following statuses in January 2008 or thereafter and no longer had this status at the time of growing and harvesting biomass:</p> <p>(1) Wetlands Wetlands are areas that are covered with or saturated by water permanently or for a significant part of the year. Especially meant are all wetlands that have been included in the list of internationally important wetlands according to article 2, section 1 of the Convention of February 2nd 1971 on Wetlands of International Importance, especially as habitat for waterfowl and waders of international importance (BGBl. 1976 II S. 1266). Wetlands are areas of marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, including areas of marine water the depth of which at low tide does not exceed six metres.</p> <ul style="list-style-type: none"> <li>• Covered with water means that water is visible on the surface as water surface.</li> <li>• Saturated by water is a soil that shows also water at the surface, but not as a closed water surface.</li> <li>• Areas that are permanently covered by or saturated with water show this state throughout the year.</li> <li>• Areas that are covered by or saturated with water during a considerable part of the year do not show this state throughout the year. A considerable part of the year means that coverage or saturation with water lasts long enough so organisms adapted to wet or reduced conditions dominate. This holds especially for shallow water, shores, peatland, low-moor bog, fen and moor.</li> </ul> <p>The conservation of the status of a wetland also implies that this condition is not to be changed or compromised.</p> <p>(2) continuously forested areas Continuously forested areas are areas that:</p> <ul style="list-style-type: none"> <li>• stretch over more than 1 hectare with trees higher than 5 metres and a canopy cover of</li> </ul>

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ASPECTS/ISSUES	PRINCIPLES	CRITERIA
<p>1.1 Land-use change (direct and/or indirect) (continued)</p> <p><a href="#">Back to table of content</a></p>	<p>1. Biomass shall not be produced on land with high biodiversity value or high carbon stock and not from peat land (according to Article 17, 3. of the Directive 2009/28/EC and § 4 to 6 of the German BioSt-NachV). HCV areas shall be protected. (continued)</p>	<p>more than 30%, or trees able to reach these thresholds on the respective site;</p> <ul style="list-style-type: none"> <li>stretch over more than 1 hectare with trees higher than 5 metres and a canopy cover of between 10% and 30%, or trees able to reach these thresholds in situ, unless reliable evidence is provided that the carbon stock of the area before and after conversion is such that the requirements regarding the greenhouse gas saving, required by ISCC, would be fulfilled.</li> <li>are forest according to the respective national legal definition.</li> </ul> <p>The canopy cover is the degree of the coverage of an area by tree crowns of a storey. The coverage of a tree equals the size of its crown. The crown size can be estimated or measured. For the determination of the canopy cover of a forest in percent the vertical projection of all tree crowns must be incorporated.</p> <p>The status of forest areas includes all stages of development and age. Thus, it is quite possible that the canopy cover temporarily falls below 10 or 30 %, e.g. after tree harvest or a natural hazard (e.g. windfall). Such incidents do, however, not change the status of the area as forested area as long reforestation or natural succession is ensured within a justifiable time.</p> <p>The canopy cover percentage marks the mean canopy cover of a forest area; it refers to an area of homogeneous coverage. If an area shows measurably varying coverage, it must be divided into subareas of homogeneous canopy cover to determine the mean canopy cover. The mean canopy cover is calculated from the canopy covers of the subareas.</p> <p>Continuously forested areas are to be judged as entity, no matter how much of this continuously forested area lies within the farm land or the production area. Accordingly, the whole area is the basis for the calculation of the threshold values of 10 or 30%. If the total area of the forested area exceeds 1 ha and is stocked with trees higher than 5 metres, the area and each part of it that lies within the farm land or the production area is termed continuously forested area. Even if only 0,5 ha of the continuously forested area lie within the farm land, these 0,5 ha must be classified as continuously forested area just like the total forested area.</p> <p>Only exceptionally can biomass be used, that has been produced on areas which had or just grew into a canopy cover of 10 to 30 % and which have been converted after January 2008. The determination and objective evidence of the carbon stock of the area before the conversion on the basis of exact measurements is necessary to prove that the greenhouse gas emission saving is fulfilled before and after the conversion.</p>

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1.1 Land-use change (direct and/or indirect) (continued)  <a href="#">Back to table of content</a>	1. Biomass shall not be produced on land with high biodiversity value or high carbon stock and not from peat land (according to Article 17, 3. of the Directive 2009/28/EC and § 4 to 6 of the German BioSt-NachV). HCV areas shall be protected. (continued)	These regulations do not apply to short rotation plantations, because they count among permanent crops and belong to farm land. In Germany, the status of an area as forest is determined by the Federal Forest Act and the forest acts of the states. A conversion (clearance) of forest to other land-use is only allowed after authority approval. Wood is generally suitable as biomass grown according to the Sustainability Ordinance if harvested from a soundly and sustainably managed forest in Germany.  The provisions in this control point shall not apply if at the time the raw material was obtained, the land had the same status as it had in January 2008.
		<b>MAJOR MUST</b> 1.4 Biomass is not produced on land that was peat bog in January 2008 or thereafter.  Possible only if it is proven that the cultivation and harvesting of this raw material does not involve drainage of previously undrained soil. Peat bog soils are soils with horizons of organic material (peat substrate) of a cumulative thickness of at least 30 cm at a depth of down to 60 cm. The organic matter contains at least 20 mass percent of organic carbon in the fine soil. Drainage means a drawdown of the mean annual water level due to an increased water loss or a reduced water supply resulting from human activities or constructions within or outside of the area. Peat bog soils that have been used for cropping before January 2008 are allowed for biomass production.  [Also relevant to aspect(s)/issue(s): <a href="#">1.6 GHG emissions.</a> ]
		<b>MAJOR MUST</b> 1.5 All other production areas of the enterprise comply with the ISCC Principle 1.  The agricultural enterprise does not have other production areas, farms, companies etc. where for example land use change is undertaken in a way which is not allowed under this standard.
		<b>1.6 Time of reference</b>  If areas have been converting after January 2008, the conversion and use must be in

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		accordance with the requirements of principle 1.
<p>1.2 Biodiversity and ecosystem services</p> <p><a href="#">Back to table of content</a></p>	<p>1. Biomass shall not be produced on land with high biodiversity value or high carbon stock and not from peat land (according to Article 17, 3. of the Directive 2009/28/EC and § 4 to 6 of the German BioSt-NachV). HCV areas shall be protected.</p>	<p>MAJOR MUST</p> <p>1.1 Biomass is not produced on land with high biodiversity value.</p> <p>This means land that had one of the following statuses in or after January 2008, no matter whether or not the land still has this status:</p> <p>(1) Forest land Forest land comprises primary forests and other natural areas that are stocked with native tree species and do not show clearly visible indications of human activity and the ecological processes are not significantly disturbed. Tree species are defined as native, if they grow within their natural geographical range on sites and under climatic conditions to which they have adapted naturally and without human interference. The following tree species do not count as native:</p> <ul style="list-style-type: none"> <li>• Tree species that have been introduced by humans and that would not occur in that area otherwise; and</li> <li>• tree species and breeds that would not occur on these sites or under these climatic conditions, even if these sites or climatic conditions generally fall within the geographical range of the species.</li> </ul> <p>Clearly visible indications of human activity are:</p> <ul style="list-style-type: none"> <li>• Land management (e.g. wood harvest, forest clearance, land use change),</li> <li>• heavy fragmentation through infrastructural constructions such as roads, power lines etc.,</li> <li>• disturbances of the natural biodiversity (e.g. significant occurrence of non-native plant or animal species).</li> </ul> <p>Activities of indigenous people or other humans managing the land in a traditional way do not count as clearly visible indications of human activity, if they manage the forest on a subsistence level and their influence on the forested area is minimal (e.g. the collection of wood and non-timber products, the felling of a few trees as well as small-scale forest clearance according to traditional management systems).</p> <p>(2) Areas designated by law or by the relevant competent authority to serve the purpose of</p>



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<p>1.2 Biodiversity and ecosystem services (continued)</p> <p><a href="#">Back to table of content</a></p>	<p>1. Biomass shall not be produced on land with high biodiversity value or high carbon stock and not from peat land (according to Article 17, 3. of the Directive 2009/28/EC and § 4 to 6 of the German BioSt-NachV). HCV areas shall be protected. (continued)</p>	<p>nature protection</p> <p>Areas for nature protection purposes comprise areas that are designated by law or by the relevant competent authority to serve the purpose of nature protection as well as ISCC 202 Sustainability Requirements 7 of 38 areas that have been acknowledged by the European Commission as areas for the protection of rare, threatened or vulnerable ecosystems or species.</p> <p>In Germany, all areas designated to serve the purpose of nature protection are protected parts of nature and landscape on the basis of the nature conservation acts of the states. They include the biotopes protected by federal or state law as well as Natura 2000 areas, nature conservation areas, national parks, national natural monuments, biosphere reserves, landscape protection areas, natural parks, natural monuments and protected landscape elements according to the Federal Act for the Protection of Nature of July 29th 2009 (BGBl. I, S. 2542) entering into force on March 1st 2010.</p> <p>Comparable legal regulations must be regarded in other countries.</p> <p>It is allowed to grow biomass on areas that serve the purpose of nature protection as long as the cultivation and the harvest of the biomass do not compromise the defined protection purpose. The protection purpose and the respective imperatives and interdictions must be followed according to the relevant protected area declaration. As long as a Natura 2000 area has not been placed under protection order, the relevant preservation objectives are authoritative.</p> <p>(3) areas for the protection of rare, threatened or endangered ecosystems or species recognised by international agreements or included in lists drawn up by intergovernmental organisations or the International Union for the Conservation of Nature.</p> <p><b>MAJOR MUST</b></p> <p>1.2 Biomass is not produced on grassland with high biodiversity.</p> <p>Grassland of high biodiversity is defined as grassland which in the absence of human intervention would:</p>



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<p>1.2 Biodiversity and ecosystem services (continued)</p> <p><a href="#">Back to table of content</a></p>	<p>1. Biomass shall not be produced on land with high biodiversity value or high carbon stock and not from peat land (according to Article 17, 3. of the Directive 2009/28/EC and § 4 to 6 of the German BioSt-NachV). HCV areas shall be protected. (continued)</p>	<p>(1) remain grassland of intact natural species composition, ecological characteristics and processes (natural grassland); or</p> <p>(2) not remain grassland and which is rich in species and not degraded (artificial grassland), unless there is evidence that the harvesting of the biomass is necessary to preserve its grassland status.</p> <p>Natural grassland develops under certain climatic and other factors (e.g. natural grazing, natural fires) preventing succession to dense forest. Its special characteristic is to remain grassland without any effort of humans.</p> <p>Natural grassland with high biological diversity is characterized by intact ecological traits and processes as well as a natural species composition. A significant occurrence of invasive species, for instance, could indicate that a natural grassland does not feature a natural species composition. A disturbance of ecological traits and processes can be caused by a significant change through man, for instance. As long as this influence does not cause a change in the natural species composition or a significant disturbance of the ecological traits and processes, an area is still to be regarded as natural grassland. In savannahs, for instance, extensive pasturing and anthropogenic fire do not pose a significant disturbance.</p> <p>Artificially created grassland is mainly agricultural land permanently cultivated for green fodder; it can be permanent grassland such as meadows, mowing pastures and grazing pastures.</p> <p>Biomass can not be harvested from areas that have been declared natural grassland of high biodiversity in January 2008 or thereafter. Whereas biomass is allowed to be harvested from artificially created grassland with high biodiversity, in case the preservation of the grassland status requires the harvest of the biomass.</p> <p>Local conditions of species richness must be regarded when evaluating whether a grassland features high biodiversity. Here, species richness must be assessed along the lines of the biogeographical conditions and site conditions (e.g. a species inventory for that region, if available). In case, of a land-use change from a grassland without high biodiversity, the greenhouse gas emissions caused by that change must be incorporated into the green house</p>

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1.2 Biodiversity and ecosystem services (continued)	1. Biomass shall not be produced on land with high biodiversity value or high carbon stock and not from peat land (according to Article 17, 3. of the Directive 2009/28/EC and § 4 to 6 of the German BioSt-NachV). HCV areas shall be protected. (continued)	<p>gas balances.</p> <p>As long as no geographic areas featuring grassland with high biodiversity are determined, natural grassland is generally not allowed to be used for biomass production. Neither can artificially created grassland with high biodiversity be used.</p> <p>In case artificially created grassland areas are not permanently managed as grassland, but form part of a crop rotation system (fallow, rotations of pasture and cropping), they are to be treated as farmland on which biomass can be grown and used according to the sustainability ordinances. Set-aside farmland still counts as agriculturally managed land. The right to use this land after termination of the set-aside period in the same way and to the same extent endures. This holds also for areas that have changed in the course of the set-aside period. Thus, grassland areas that have evolved on former set-aside areas are generally suitable for the production of biomass.</p>
	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices.	<p>MAJOR MUST</p> <p>2.3 Hunting</p> <p>2.3.1 Hunting done according to local legislation.</p> <p>Local legislation must be complied with. Controlling any illegal or inappropriate <b>hunting, fishing or collecting activities</b> and developing responsible measures to resolve human-wildlife conflicts is necessary.</p> <p>[Also relevant to aspect(s)/issue(s): <a href="#">3.1 Compliance.</a>]</p>
1.3 Productive capacity of land <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices.	<p>MAJOR MUST</p> <p>2.4 Soil erosion</p> <p>2.4.1 Field cultivation techniques used to reduce the possibility of soil erosion.</p> <p>Evidence of measures of reduced soil erosion available. Maps of fragile soils must be available. A management strategy should exist for plantings on slopes above a certain limit (needs to be soil and climate specific). A management strategy should be in place for other fragile and problem soils (e.g. sandy, low organic matter soils)</p>

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ASPECTS/ISSUES	PRINCIPLES	CRITERIA
1.3 Productive capacity of land (continued)  <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices. (continued)	MAJOR MUST 2.5 Soil organic matter 2.5.1 Soil organic matter is maintained/preserved.  Soil organic balance (can be generic) or every 6 years a soil organic matter analysis. Results are kept for 7 years.
		MAJOR MUST 2.5 Soil organic matter 2.5.2 Organic matter, if used, is evenly spread throughout the production area.  If organic matter, like Empty Fruit Bunches (EFB) or other remaining plant material is used in the production areas (mulched), the material is evenly distributed.  [Also relevant to aspect(s)/issue(s): <a href="#">1.8 Waste management.</a> ]
		MAJOR MUST 2.5 Soil organic matter 2.5.3 There is a restriction on burning as part of the cultivation process.  The burning of stubble/other by-products is allowed only with the permission of competent authority.
		MAJOR MUST 2.6 Soil Structure 2.6.1 Techniques have been used that improve or maintain soil structure, and to avoid soil compaction.  Techniques applied are suitable for use on the land.
		See <a href="#">criterion 2.10.3</a> on application of nitrogen-rich fertiliser on absorptive soil only at aspect/issue 1.4 Crop management and agrochemical use.
1.4 Crop management and agrochemical use	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil,	See <a href="#">criterion 2.7.1</a> on proper <b>storage of chemical</b> to avoid ground water contamination at aspect/issue 1.5 Water availability and quality.
		MAJOR MUST

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1.4 Crop management and agrochemical use (continued)  <a href="#">Back to table of content</a>	water and air and the application of Good Agricultural Practices.	2.10 Advice on Quantity and Type of Fertiliser 2.10.1 <b>Recommendations for application of fertilisers</b> (organic or inorganic) are given by competent, qualified persons.  Where the fertiliser records show that the technically responsible person making the choice of the fertiliser (organic or inorganic) is an external adviser, training and technical competence must be demonstrated via official qualifications, specific training courses, etc., unless employed for that purpose by a competent organisation (i.e. fertiliser company). Where the fertiliser records show that the technically responsible person determining quantity and type of fertiliser (organic or inorganic) is the producer, experience must be complemented by technical knowledge (e.g. product technical literature, specific training course attendance, etc.) or the use of tools (software, on farm detection methods, etc.).
		MAJOR MUST 2.10 Advice on Quantity and Type of Fertiliser 2.10.2 During the <b>application of fertilisers with a considerable nitrogen content</b> care is taken not to contaminate the surface and ground water.  The producer must demonstrate that he observes at least a distance of 3 m to river banks etc. He takes care that there is no run-off of applied fertiliser into surface water bodies and the ground water.  [Also relevant to aspect(s)/issue(s): <a href="#">1.5</a> Water availability and quality.]
		MAJOR MUST 2.10 Advice on Quantity and Type of Fertiliser 2.10.3 <b>Fertilisers with a considerable nitrogen contents</b> are only applied onto absorptive soils.

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1.4 Crop management and agrochemical use (continued)  <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices. (continued)	Fertiliser with a content of more than 1.5% of nitrogen in the dry matter are not applied onto flooded, water logged or frozen soils.  [Also relevant to aspect(s)/issue(s): <a href="#">1.3</a> Productive capacity of land.]
		MINOR MUST 2.11 Records of Fertiliser Application 2.11.1 <b>Complete records of all fertiliser applications</b> are available.  Records are kept of all fertiliser applications including: (1) the name or reference of the field (2) exact dates (day/month/year) of the application (3) the trade name, type of fertiliser (e.g. N, P, K) (4) amount of product which was applied in weight or volume. (5) application machinery type used and the method (6) name of the operator.
		MINOR MUST 2.12 Fertiliser Application Machinery 2.12.1 The <b>fertiliser application machinery is kept in good condition</b> and verified annually to ensure accurate fertiliser application.  There are maintenance records (date and type of maintenance and calibration) or invoices of spare parts of both the organic and inorganic fertiliser application machinery available on request. There must, as a minimum, be documented records stating that the verification of calibration has been carried out by a specialised company, supplier of fertilization equipment or by the technically responsible person of the farm within the last 12 months.
		MINOR MUST 2.13 Fertiliser Storage

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1.4 Crop management and agrochemical use (continued)  <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices. (continued)	2.13.1 <b>Inorganic fertilisers</b> are stored in a covered area.  The covered area is suitable to protect all inorganic fertilisers, i.e. powders, granules or liquids, from atmospheric influences like sunlight, frost and rain. Based on risk assessment (fertiliser type, weather conditions, temporary storage), plastic coverage could be acceptable. Storage cannot be directly on the soil. It is allowed to store lime and gypsum in the field for a day or two before spreading.
		MINOR MUST 2.13 Fertiliser Storage 2.13.2 <b>Inorganic fertilisers</b> are stored in a clean area.  Inorganic fertilisers, i.e. powders, granules or liquids, are stored in an area that is free from waste, does not constitute a breeding place for rodents, and where spillage and leakage is cleared away.
		MINOR MUST 2.13 Fertiliser Storage 2.13.3 <b>Inorganic fertilisers</b> are in a dry area.  The storage area for all inorganic fertilisers, i.e. powders, granules or liquids, is well ventilated and free from rainwater or heavy condensation. No storage directly on the soil.
		MINOR MUST 2.13 Fertiliser Storage 2.13.4 <b>Inorganic fertilisers</b> are stored in an appropriate manner, which reduces the risk of contamination of water courses.  All inorganic fertilisers, i.e. powders, granules or liquids are stored in a manner which poses minimum risk of contamination to water sources, i.e. liquid fertiliser stores must be

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1.4 Crop management and agrochemical use (continued)  <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices. (continued)	surrounded by an impermeable barrier (according to national and local legislation, or to contain a capacity to 110% of the volume of the largest container if there is no applicable legislation), and consideration has been given to the proximity to water courses and flood risks.  [Also relevant to aspect(s)/issue(s): <a href="#">1.5</a> Water availability and quality.]
		<b>MINOR MUST</b> 2.14 Integrated Pest Management 2.14.1 Assistance with <b>implementation of IPM systems</b> has been obtained through training or advice.  The technically responsible person on the farm has received formal documented training and/or the external technical IPM consultant can demonstrate their technical qualifications.
		<b>MINOR MUST</b> 2.14 <b>Integrated Pest Management</b> 2.14.2 The producer can show evidence of implementation of at least one activity that falls in the category of "Prevention".  The producer can show evidence of implementing at least one activity that includes the adoption of cultivation methods that could reduce the incidence and intensity of pest attacks, thereby reducing the need for intervention.
		<b>MINOR MUST</b> 2.14 <b>Integrated Pest Management</b> 2.14.3 The producer can show evidence of implementation of at least one activity that falls in the category of "Observation and Monitoring".  The producer can show evidence of implementing at least one activity that will determine when, and to what extent, pests and their natural enemies are present and using this information to plan what pest management techniques are required.



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1.4 Crop management and agrochemical use (continued)  <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices. (continued)	MINOR MUST 2.14 <b>Integrated Pest Management</b> 2.14.4 The producer can show evidence of implementation of at least one activity that falls in the category of "Intervention".  The producer shows evidence that in situations where pest attack adversely affects the economic value of a crop, intervention with specific pest control methods will take place. Where possible, non-chemical approaches must be considered.
		MAJOR MUST 2.15 Use of Plant Protection Products (PPP) 2.15.1 Is the choice of <b>plant protection products</b> made by competent persons?  Where the plant protection product records show that the technically responsible person making the choice of the plant protection products is a qualified adviser, technical competence can be demonstrated via official qualifications or specific training course attendance certificates. Fax and e-mails from advisors, governments, etc. are allowable. Where the plant protection product records show that the technically responsible person making the choice of plant protection products is the producer, experience must be complemented by technical knowledge that can be demonstrated via technical documentation, i.e. product technical literature, specific training course attendance, etc.
		MAJOR MUST 2.15 Use of Plant Protection Products (PPP) 2.15.2 All workers handling and/or administering <b>plant protection products</b> have certificates of competence, and/or details of other such qualifications.  Records must identify workers who carry out such tasks, and show certificates of training or proof of competence.
		MAJOR MUST 2.15 Use of Plant Protection Products (PPP) 2.15.3 Producers only use <b>plant protection products</b> that are registered in the country of use for the target crop where such official registration scheme exists.

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1.4 Crop management and agrochemical use (continued)  <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices. (continued)	All the plant protection products applied are officially registered or permitted by the appropriate governmental organisation in the country of application. Where no official registration scheme exists, refer to the FAO International Code of Conduct on the Distribution and Use of Pesticides.
		<b>MAJOR MUST</b> 2.15 Use of Plant Protection Products (PPP) 2.15.4 There is a process that <b>prevents chemicals that are banned in the European Union</b> from being used on crops for biomass.  The documented plant protection product application records confirm that no plant protection products that have been used within the last 12 months on the crops grown under ISCC are prohibited by the E.U. (under EC Prohibition Directive List - 79/117/EC.)
		<b>MAJOR MUST</b> 2.15 Use of <b>Plant Protection Products</b> (PPP) 2.15.5 The producer follows the label instructions.  All requirements (protective clothing, storage, handling etc.) have to be followed for the products used.  [Also relevant to aspect(s)/issue(s): <a href="#">2.5 Human health and safety.</a> ]
		<b>MAJOR MUST</b> 2.15 Use of <b>Plant Protection Products</b> (PPP) 2.15.6 All application equipment is calibrated.  Documented evidence of up to date maintenance sheets for all repairs, oil changes, etc. undertaken. Application machinery (automatic and non-automatic) has been verified for correct operation within the last 12 months and this is certified or documented either by participation in an official scheme (where it exists) or by having been carried out by a person who can demonstrate their competence.

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1.4 Crop management and agrochemical use (continued)  <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices. (continued)	MINOR MUST 2.15 Use of Plant Protection Products (PPP) 2.15.7 Invoices of registered <b>plant protection products</b> kept.  Invoices of the registered plant protection products used must be kept for record keeping and available at the time of the external inspection.
		MAJOR MUST 2.15 Use of Plant Protection Products (PPP) 2.15.8 If there are <b>local restrictions on the use of plant protection products</b> they are observed.  The Producers are aware of restrictions.  [Also relevant to aspect(s)/issue(s): <a href="#">3.1 Compliance.</a> ]
		MAJOR MUST 2.15 Use of Plant Protection Products (PPP) 2.15.9 All the <b>plant protection product applications have been recorded.</b>  Records are available and complete: <ol style="list-style-type: none"> <li>(1) the crop name and/or variety,</li> <li>(2) date, location and trade name of product</li> <li>(3) justification for application, product quantity applied</li> <li>(4) application machinery used and the operator</li> <li>(5) the common name of the pest(s), disease(s) or weed(s) treated.</li> </ol>
		MINOR MUST 2.16 Disposal of Surplus Application Mix 2.16.1 <b>Surplus application mix or tank washings is disposed of according to national or local law.</b>  National or local legislation is observed.

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1.4 Crop management and agrochemical use (continued)  <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices. (continued)	[Also relevant to aspect(s)/issue(s): <a href="#">3.1 Compliance.</a> ]
		MINOR MUST 2.16 Disposal of Surplus Application Mix 2.16.2 <b>Surplus application mixes or tank washings</b> are applied onto designated fallow land, where legally allowed, and records kept.  When surplus application mix or tank washings are applied onto designated fallow land, it can be demonstrated that this is legal practice and all the treatments have been recorded in the same manner and detail as a normal plant protection product application, and avoiding risk of surface water contamination.
		[Also relevant to aspect(s)/issue(s): <a href="#">1.5 Water availability and quality.</a> ]
		MAJOR MUST 2.17 Plant Protection Product Storage 2.17.1 <b>Plant protection products</b> are stored in accordance with local regulations.  The plant protection product storage facilities comply with all the appropriate current national, regional and local legislation and regulations.
		[Also relevant to aspect(s)/issue(s): <a href="#">3.1 Compliance.</a> ]
		MAJOR MUST 2.17 Plant Protection Product Storage 2.17.2 <b>Plant protection products</b> are stored in a location that is secure.  The plant protection product storage facilities are kept secure under lock and key.
		MINOR MUST 2.17 Plant Protection Product Storage 2.17.3 <b>Plant protection products</b> are stored in a appropriate location.

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1.4 Crop management and agrochemical use (continued)  <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices. (continued)	Storage facilities are: (1) structurally sound and robust (2) have a sealed floor (3) built of materials or located so as to protect against temperature extremes (4) built of materials that are fire resistant (Minimum requirement RF 30, i.e. 30 minutes resistance to fire) (5) have sufficient and constant ventilation of fresh air to avoid a build up of harmful vapours (6) are located in areas with sufficient illumination both by natural or by artificial lighting, to ensure that all product labels can be read easily on the shelf (7) located in a separate space independent from any other materials.
		MINOR MUST 2.17 Plant Protection Product Storage 2.17.4 The <b>plant protection product</b> store is able to retain spillage.  The plant protection product storage facilities have retaining tanks or are banded according to 110% of the volume of the largest container of stored liquid, to ensure that there cannot be any leakage, seepage or contamination to the exterior of the store.
		MINOR MUST 2.17 Plant Protection Product Storage 2.17.5 All <b>plant protection product</b> storage shelving is made of non-absorbent material.  The plant protection product storage facilities are equipped with shelving which is not absorbent in case of spillage, e.g. metal, rigid plastic.
		MAJOR MUST 2.17 Plant Protection Product Storage 2.17.6 There are <b>facilities for measuring and mixing plant protection products</b> .  The plant protection product storage facilities or the plant protection product filling/mixing

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1.4 Crop management and agrochemical use (continued)  <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices. (continued)	area if this is different, have measuring equipment whose graduation for containers and calibration verification for scales has been verified annually by the producer to assure accuracy of mixtures and are equipped with utensils, e.g. buckets, water supply point etc. for the safe and efficient handling of all plant protection products which can be applied.
		<b>MAJOR MUST</b> 2.17 Plant Protection Product Storage 2.17.7 There are <b>facilities to deal with spillage.</b>
		The plant protection product storage facilities and all designated fixed filling/mixing areas are equipped with a container of absorbent inert material such as sand, floor brush and dustpan and plastic bags, that must be signposted and in a fixed location, to be used in case of spillage of plant protection product.
		<b>MINOR MUST</b> 2.17 Plant Protection Product Storage 2.17.8 The <b>product inventory is documented</b> and readily available.
		A stock inventory which indicates the contents (type and quantity) of the store is available and it is updated at least every 3 months. Quantity refers to how many bags, bottles, etc., not on milligram or centilitre basis.
		<b>MAJOR MUST</b> 2.17 Plant Protection Product Storage 2.17.9 All <b>plant protection products</b> are stored in their original package.
		All the plant protection products that are currently in the store are kept in the original containers and packs, in the case of breakage only, the new package must contain all the information of the original label.
		<b>MINOR MUST</b> 2.17 <b>Plant Protection Product Storage</b> 2.17.10 Liquids are not stored on shelves above powders.
		All the plant protection products that are liquid formulations are stored on shelving which is never above those products that are powder or granular formulations.

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1.4 Crop management and agrochemical use (continued)  <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices. (continued)	<b>MAJOR MUST</b> 2.18 Obsolete plant protection products 2.18.1 <b>Obsolete plant protection products</b> are securely maintained and identified and disposed of by authorised or approved channels.  There are documented records that indicate that obsolete plant protection products have been disposed of by officially authorised channels. When this is not possible, obsolete plant protection products are securely maintained and identifiable.
		<b>MINOR MUST</b> 2.19 Empty Plant Protection Product Containers 2.19.1 The <b>re-use of empty plant protection product containers</b> for purposes other than containing and transporting of the identical product is avoided.  There is evidence that empty plant protection product containers have not been or currently are not being re-used for anything other than containing and transporting of the identical product as stated on the original label.
		<b>MINOR MUST</b> 2.19 Empty Plant Protection Product Containers 2.19.2 The <b>disposal of empty plant protection product containers</b> does occur in a manner that avoids exposure to humans and the environment.  The system used to dispose of empty plant protection product containers ensures that persons cannot come into physical contact with the empty containers. The risk of contamination of the environment, watercourses and flora and fauna is minimised.  [Also relevant to aspect(s)/issue(s): <a href="#">1.8 Waste management.</a> ]
		<b>MINOR MUST</b> 2.19 <b>Empty Plant Protection Product Containers</b> 2.19.3 Official collection and disposal systems are used when available.  Where official collection and disposal systems exist, there are documented records of participation by the producer.



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1.4 Crop management and agrochemical use (continued)	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices. (continued)	<p><b>MAJOR MUST</b></p> <p><b>2.19 Empty Plant Protection Product Containers</b></p> <p>2.19.4 Empty containers are rinsed either via the use of an integrated pressure rinsing device on the application equipment, or at least three times with water.</p> <p>Installed on the plant protection product application machinery there is pressure-rinsing equipment for plant protection product containers or there are clear written instructions to rinse each container 3 times prior to its disposal.</p>
		<p><b>MINOR MUST</b></p> <p>2.19 Empty Plant Protection Product Containers</p> <p>2.19.5 The <b>rinsate from empty containers</b> is returned to the application equipment tank.</p> <p>Either via the use of a container-handling device or via written procedure for the application equipment operators, the rinsate from the empty plant protection product containers is always put back into the application equipment tank when mixing.</p>
		<p><b>MAJOR MUST</b></p> <p>2.19 Empty Plant Protection Product Containers</p> <p>2.19.6 All local regulations regarding <b>disposal or destruction of containers</b> are observed.</p> <p>All the relevant national, regional and local regulations and legislation if it exists, has been complied with regarding the disposal of empty plant protection product containers.</p> <p>[Also relevant to aspect(s)/issue(s): <a href="#">3.1 Compliance.</a>]</p>
1.5 Water availability and quality  <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices.	<p><b>MINOR MUST</b></p> <p>2.2 Natural water courses</p> <p>2.2.1 Natural vegetation areas around springs and natural watercourses are maintained or re-established.</p> <p>The status of riparian vegetation is known by the producer. Where natural vegetation in riparian areas has been removed there is a plan with a timetable for restoration.</p>
		<p><b>MAJOR MUST</b></p>

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1.5 Water availability and quality (continued)  <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices. (continued)	2.7 Ground Water 2.7.1 Chemicals are stored in an appropriate manner, which reduces the risk of contamination the environment.  The storages of the material are consistent with best available technology.  [Also relevant to aspect(s)/issue(s): <a href="#">1.4 Crop management and agrochemical use.</a> ]
		See <a href="#">criterion 2.9.1</a> on justification of irrigation in light of water for human consumption at aspect/issue 4.3 Food utilization.
		MINOR MUST 2.9 Irrigation 2.9.3 The producer can justify the method of irrigation used in light of water conservation.  The idea is to avoid wasting water. The irrigation system used is the most efficient available for the crop and accepted as such within good agricultural practice.
		MINOR MUST 2.9 Irrigation 2.9.4 To protect the environment, water is abstracted from a sustainable source.  Sustainable sources are sources that supply enough water under normal (average) conditions and have sources for re-fillment.
		MINOR MUST 2.9 Irrigation 2.9.5 If ground water is used for irrigation, the level of the groundwater table is monitored.  The level of the ground water table is measured at least annually.
		See <a href="#">criterion 2.9.6</a> on getting advice from local water authorities on abstraction for irrigation at aspect/issue 3.1 Compliance.
		See <a href="#">criterion 2.10.2</a> on contamination of surface and ground water from nitrogen-rich fertiliser at aspect/issue 1.4 Crop management and agrochemical use.
		See <a href="#">criterion 2.13.4</a> on proper storage of inorganic fertiliser to avoid contamination of water at aspect/issue 1.4 Crop management and agrochemical use.

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		See <a href="#">criterion 2.16.2</a> on proper disposal of surplus application mix to avoid surface water contamination at aspect/issue 1.4 Crop management and agrochemical use.
1.6 GHG emissions <sup>8</sup>	1. Biomass shall not be produced on land with high biodiversity value or high carbon stock and not from peat land (according to Article 17, 3. of the Directive 2009/28/EC and § 4 to 6 of the German BioSt-NachV). HCV areas shall be protected.	See <a href="#">criterion 1.4</a> on biomass not produced on land from drainage of peat bog to avoid release of sequestered carbon at aspect/issue 1.1 Land-use change (direct and/or indirect).
1.7 Air quality	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices.	See <a href="#">criterion 2.20.2</a> on farm waste management plan to avoid or reduce wastage and pollution and avoid the use of burning of waste at aspect/issue 1.8 Waste management.
1.8 Waste management <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices.	See <a href="#">criterion 2.5.2</a> on use of organic matter such as Empty Fruit Bunches to be distributed evenly at aspect/issue 1.3 Productive capacity of land. See <a href="#">criterion 2.19.2</a> on disposal of empty plant protection product container that avoids exposure to humans and environment at aspect/issue 1.4 Crop management and agrochemical use. <b>MINOR MUST</b> 2.20 Waste Disposal 2.20.1 The premises have adequate provisions for waste disposal.

<sup>8</sup> As stated in the document *ISCC 201: System Basics for the certification of sustainable biomass and bioenergy* (4.2.3 Requirements concerning the greenhouse gas emission savings), “to qualify for this certification system, the produced liquid biomass respectively biofuel must grant greenhouse gas emission savings of 35 percent. To prove this, each element of the supply chain must calculate its greenhouse gas emissions and pass the figures on to the next interface in the chain. The last interface in the chain must finally calculate and substantiate the overall savings of the liquid biomass respectively biofuel. Requirements for the assessment of the greenhouse gas emission savings are specified in document ISCC 205 GHG Emission Calculation Methodology”.

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1.8 Waste management (continued)	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices. (continued)	<p>The farm has designated areas to store litter and waste. Different types of waste are identified and stored separately.</p> <p>MINOR MUST</p> <p>2.20 Waste Disposal</p> <p>2.20.2 There a documented farm waste management plan to avoid or reduce wastage and pollution and avoid the use of landfill or burning, by waste recycling.</p> <p>A comprehensive, current, documented plan that covers wastage reduction, pollution and waste recycling is available. Air, soil, water, noise and light contamination must be considered.</p> <p>[Also relevant to aspect(s)/issue(s): <a href="#">1.7 Air quality.</a>]</p>
1.9 Environmental sustainability (cross-cutting)	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices.	<p>MAJOR MUST</p> <p>2.1 <b>Environmental impact assessment</b> and stakeholder consultation</p> <p>2.1.1 Environmental aspects are considered if planning buildings, drainage etc.</p> <p>Environmental impact of new buildings, drainage systems etc. is assessed and kept as little as possible. If any of these activities are done at the farm documents must be available to show that environmental aspects have been considered.</p>
<b>2. SOCIO-ECONOMIC</b>		
2.1 Land tenure/access and displacement  <a href="#">Back to table of content</a>	5. Biomass production shall take place in compliance with all applicable regional and national laws and shall follow relevant international treaties.	<p>MAJOR MUST</p> <p>5.1 The producer can <b>proof that the land is used legitimately</b> and that traditional land rights have been secured.</p> <p>Documents show legal ownership or lease, history of land tenure and the actual legal use of the land. The producer must identify existing land rights and does respect them (see Principle 1).</p>
2.2 Rural and social development	4. Biomass production shall not violate human rights labour rights or land rights. It shall promote responsible labour conditions and	<p>MAJOR MUST</p> <p>4.12 All <b>children living on the farm have access to quality primary school education.</b></p> <p>All children at primary schooling age (according to national legislation) living on the farm</p>

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	workers' health, safety and welfare and shall be based on responsible community relations.	must have access to primary school education, either through provided transport to a public primary school or through adequate on-site schooling. This is in accordance with the International Covenant on Economic, Social and Cultural Rights, Art. 13.
2.3 Access to water and other natural resources	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices.	<p>MAJOR MUST</p> <p>2.9 Irrigation</p> <p>2.9.2 The producer <b>respects existing water rights</b>, both formal and customary.</p> <p>The producer can identify existing water rights and does respect them.</p>
2.4 Employment, wages and labor conditions  <a href="#">Back to table of content</a>	3. Safe working conditions through training and education, use of protective clothing and proper and timely assistance in the event of accidents.	<p>See <a href="#">criterion 3.1.1</a> on working condition risk assessment, <a href="#">3.1.2</a> on health, safety and hygiene policy and procedures, <a href="#">3.1.3</a> on First Aid kits at all sites and fieldwork, <a href="#">3.1.4</a> on protective clothing, <a href="#">3.1.5</a> on cleaning of protective clothing or equipment, <a href="#">3.1.6</a> on identification of potential hazards and warning, <a href="#">3.1.7</a> on safety advice for handling of hazardous substances, <a href="#">3.1.8</a>, <a href="#">3.1.9</a> and <a href="#">3.1.10</a> on training activities on health, safety and welfare, <a href="#">3.1.11</a> on workers' access to clean food storage areas, dining areas, hand washing facilities and drinking water, <a href="#">3.2.1</a> and <a href="#">3.2.2</a> on accident procedure and facilities for plant protection products contamination and <a href="#">3.2.3</a> on re-entry procedures at aspect/issue 2.5 Human health and safety.</p>
		<p>MINOR MUST</p> <p>3.1 Workers Health, Safety and Welfare</p> <p>3.1.12 On site living quarters are habitable and have the basic services and facilities.</p> <p>The living quarters for the workers on farm are habitable, have a sound roof, windows and doors, and have the basic services of running water, toilets, drains. In case of no drains, septic pits can be accepted when proven to be hermetic.</p> <p>[Also relevant to aspect(s)/issue(s): <a href="#">4.3</a> Food utilization.]</p>
	4. Biomass production shall not violate human rights labour rights or land rights. It shall promote	<p>MINOR MUST</p> <p>4.1 A self-declaration on good social practice regarding human rights has been communicated to the employees and signed by the farm management and the employees' representative.</p>

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2.4 Employment, wages and labor conditions (continued)  <a href="#">Back to table of content</a>	responsible labour conditions and workers' health, safety and welfare and shall be based on responsible community relations.	The farm management and the employee's representative have signed and displayed a self-declaration assuring good social practice and human rights of all employees. The self-declaration must be in language appropriate to workers and surrounding communities. This declaration contains commitment to the ILO core labour standards, respect for living wage, respect for the social environment, respect for legal land titles, sufficient compensation for communities, commitment to solve social conflicts, fair contract farming arrangements.
		<b>MAJOR MUST</b> 4.2 Employment conditions comply with equality principles.  Evidence is available that the farm provides equality of opportunity and treatment regardless of race, colour, sex, religion, political opinion, nationality, social origin or other distinguishing characteristic (ILO conventions 100 and 111).
		<b>MAJOR MUST</b> 4.3 There is no discrimination (distinction, exclusion or preference) practiced that denies or impairs equality of opportunity, conditions or treatment based on individual characteristics and group membership or association. For example, on the basis of: race, caste, nationality, religion, disability, gender, sexual orientation, union membership, political affiliation, age, marital status, working status (i.e. temporary, migrant, seasonal), HIV/AIDS.  A publicly available equal opportunities policy including identification of relevant/affected groups in the local environment exists.
		<b>MAJOR MUST</b> 4.4 There is no forced labour at the farm.  There must be no use of forced, bonded or involuntary labour as meant in ILO Convention 29 and 105 (all work or service which is exacted from any person under the menace of any penalty and for which the said person has not offered himself voluntarily).

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2.4 Employment, wages and labor conditions (continued)  <a href="#">Back to table of content</a>	4. Biomass production shall not violate human rights labour rights or land rights. It shall promote responsible labour conditions and workers' health, safety and welfare and shall be based on responsible community relations. (continued)	<b>MAJOR MUST</b> 4.5 Workers have the freedom to join labour organizations or organize themselves to perform collective bargaining. Workers must have the right to organize and negotiate their working conditions. Workers exercising this right should not be discriminated against or suffer repercussions.  All employees are free to establish and to join organizations of their own choice. There is evidence (workers' interviews with self-selected/anonymous workers) that the employer Imports the establishment and/or there is no evidence that the employer blocks effective functioning of worker-committees where representatives are elected by the workers. There is evidence of acceptance of Collective Bargaining Agreements. Trade union members are guaranteed entry to the operation at least out of the regular working hours. The employment conditions regarding freedom of association and collective bargaining are in accordance with all national and local legislation and ILO Conventions 87 and 98.
		<b>MAJOR MUST</b> 4.6 The farm does pay a living wage which meets at least legal or industry minimum standards.  The company's pay slips demonstrate that living wages meet at least legal or industry minimum standards and are sufficient to meet basic needs of personnel and to provide some discretionary income.  [Also relevant to aspect(s)/issue(s): <a href="#">4.2 Food access.</a> ]
		<b>MINOR MUST</b> 4.7 The person responsible for workers' health, safety and good social practice and the elected person(s) of trust have knowledge about and/or access to recent national labour regulations/collective bargaining agreements.  The responsible person and the elected person of trust demonstrate awareness and/or access to national regulations concerning: Gross and minimum wages, working hours, union membership, anti-discrimination, child labour, labour contracts, holiday and maternity leave, medical care and pension/gratuity and regular two way communication.



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2.4 Employment, wages and labor conditions (continued)  <a href="#">Back to table of content</a>	4. Biomass production shall not violate human rights labour rights or land rights. It shall promote responsible labour conditions and workers' health, safety and welfare and shall be based on responsible community relations. (continued)	See <a href="#">criterion 4.9</a> on two-way communication meetings between management and employees on business, worker health, safety and welfare, <a href="#">4.11</a> on complaint form/procedure for affected communities and <a href="#">4.22</a> on fair and transparent contracts at aspect/issue 3.2 Participation and transparency.
		<b>MINOR MUST</b> 4.10 There are at least one worker or a workers' council elected freely and democratically who represent the interests of the staff to the management.  Documentation is available that demonstrates that a clearly identified, named person of trust and/or a workers' council representing the interests of the staff to the management is elected by all employees and recognized by the management. This person shall be able to communicate complaints to the management.
		<b>MINOR MUST</b> 4.13 There are records that provide an accurate overview of all employees (including seasonal workers and subcontracted workers on the farm). Do they indicate full names, a job description, date of birth, date of entry, wage and the period of employment?  Records demonstrate clearly an accurate overview of all employees (including seasonal workers and subcontracted workers) working on the farm. Records contain, wage and the period of employment. Records must be accessible for the last 24 months.
		<b>MAJOR MUST</b> 4.14 No minors are employed on the farm.  The minimum age complies with all local and national legislation as well as with ILO Convention 138 and 182. Documents include recording of workers' date of birth and documented evidence that the employer is aware of prevailing legislation. Children within the age of compulsory schooling must not be employed during school hours. Young workers (15-18) must not undertake hazardous work that jeopardizes their health, safety or morals. All forms of slavery or practices similar to slavery, forced or compulsory labour of children is prohibited.

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2.4 Employment, wages and labor conditions (continued)  <a href="#">Back to table of content</a>	4. Biomass production shall not violate human rights labour rights or land rights. It shall promote responsible labour conditions and workers' health, safety and welfare and shall be based on responsible community relations. (continued)	<b>MINOR MUST</b> 4.15 All employees are provided with fair legal contracts. Copies of working contracts can be shown for every employee indicated in the records. These have been signed by both the employee and the employer.  For every employee indicated in the records, a contract can be shown to the auditor on request. Both the employee as well as the employer has signed them. Records must be kept for at least 24 months. Where a registration system exists, copies of working contracts are registered with the labour authority of the country of production. This is in accordance with ILO Convention 110.
		<b>MINOR MUST</b> 4.16 There is a time recording system that shows daily working time and overtime on a daily base for all employees.  There is a time recording system that makes working hours and overtime transparent for employees and employer. Working times of all employees during the last 24 months are documented.
		<b>MINOR MUST</b> 4.17 The working hours and breaks of the individual worker are indicated in the time records comply with legal regulations and/or collective bargaining agreements.  Documented working hours, breaks and rest days are in line with legal regulations and/or collective bargaining agreements. Records indicate that regular weekly working hours do not exceed 48 hours. N/A for supervisors or management. Rest breaks/days are also documented during peak season. Overtime shall be voluntary and shall always be compensated at a premium rate.
		<b>MINOR MUST</b> 4.18 Pay slips document the conformity of payment with at least legal regulations and/or collective bargaining agreements.  Wages and overtime payment documented on the pay slips are in line with legal regulations

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2.4 Employment, wages and labor conditions (continued)  <a href="#">Back to table of content</a>	4. Biomass production shall not violate human rights labour rights or land rights. It shall promote responsible labour conditions and workers' health, safety and welfare and shall be based on responsible community relations. (continued)	(minimum wages) and/or collective bargaining agreements (if applicable). If payment is calculated per unit, employees (on average) shall be able to gain the legal minimum wage within regular working hours.
		MINOR MUST 4.19 Other forms of social benefits are offered by the employer to employees, their families and/or community.  Incentives (please specify in quantities if possible): Incentives for good working performance, bonus payment, support of professional development, family friendliness, medical care/health provisions, improvement of social surroundings etc.  See <a href="#">criterion 4.20</a> on mediation in case of social conflict at aspect/issue 2.8 Social sustainability (cross-cutting).
2.5 Human health and safety  <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices.	MINOR MUST 4.21 Provisions are in place to compensate impact on workers and land (ecosystem quality) on exit or bankruptcy of farm operations.  A fund is set up with independent (safeguarded) and automatic pay out provisions to compensate workers and dependent contract farmers for sudden loss of income and the need to relocate (if appropriate), and restoration of land to conditions and quality prevalent prior to farm establishment. Funds are in proportion to life-time (age) of farm and expected financial needs for compensations (cross-referenced with documentation provided in SA 2.2.). Financial and legal papers pertaining to the fund and its arrangements are inspected. When national/local legislation is in place, farmers must comply.  [Also relevant to aspect(s)/issue(s): <a href="#">2.8</a> Social sustainability (cross-cutting).]
		See <a href="#">criterion 2.15.5</a> on the requirement to use protective clothing when handling plant protection products at aspect/issue 1.4 Crop management and agrochemical use.

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ASPECTS/ISSUES	PRINCIPLES	CRITERIA
2.5 Human health and safety (continued)  <a href="#">Back to table of content</a>	3. Safe working conditions through training and education, use of protective clothing and proper and timely assistance in the event of accidents.	<b>MINOR MUST</b> 3.1 Workers Health, Safety and Welfare 3.1.1 The farm has a written risk assessment for safe and healthy working conditions.  The written risk assessment can be a generic one but it must be appropriate for conditions on the farm. The risk assessment must be reviewed and updated when changes in the organisation (e.g. other activities) occur.  [Also relevant to aspect(s)/issue(s): <a href="#">2.4</a> Employment, wages and labor conditions.]
		<b>MINOR MUST</b> 3.1 Workers Health, Safety and Welfare 3.1.2 The farm has a written health, safety and hygiene policy and procedures including issues of the risk assessment.  The health, safety and hygiene policy must at least include the points identified in the risk assessment. This could include accident and emergency procedures, hygiene procedures, dealing with any identified risks in the working situation, etc. The policy must be reviewed and updated when the risk assessment changes.  [Also relevant to aspect(s)/issue(s): <a href="#">2.4</a> Employment, wages and labor conditions.]
		<b>MINOR MUST</b> 3.1 Workers Health, Safety and Welfare 3.1.3 First Aid kits are present at all permanent sites and in the vicinity of fieldwork.  Complete and maintained first aid kits according to national regulations and recommendations must be available and accessible at all permanent sites and available for transport to the vicinity of the work.  [Also relevant to aspect(s)/issue(s): <a href="#">2.4</a> Employment, wages and labor conditions.]

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ASPECTS/ISSUES	PRINCIPLES	CRITERIA
2.5 Human health and safety (continued)  <a href="#">Back to table of content</a>	3. Safe working conditions through training and education, use of protective clothing and proper and timely assistance in the event of accidents. (continued)	<b>MAJOR MUST</b> 3.1 Workers Health, Safety and Welfare 3.1.4 Workers (including subcontractors) are equipped with suitable protective clothing in accordance with legal requirements and/or label instructions or as authorised by a competent authority.  Complete sets of protective clothing, (e.g. rubber boots, waterproof clothing, protective overalls, rubber gloves, face masks, etc.) which enable label instructions and/or legal requirements and/or requirements as authorised by a competent authority to be complied with are available, used and in a good state of repair. This includes appropriate respiratory, ear and eye protection devices, where necessary.  [Also relevant to aspect(s)/issue(s): <a href="#">2.4</a> Employment, wages and labor conditions.]
		<b>MINOR MUST</b> 3.1 Workers Health, Safety and Welfare 3.1.5 Protective clothing is cleaned after use and stored so as to prevent contamination of the clothing or equipment.  Protective clothing is regularly cleaned, according to a schedule adapted to the type of use and degree of soiling. Cleaning the protective clothing and equipment includes the separate washing from private clothing and glove washing before removal. Dirty, torn and damaged protective clothing and equipment and expired filter cartridges should be disposed of. Single-use items (e.g. gloves, overalls, etc.) have to be disposed of after one use. All the protective clothing and equipment including replacements filters etc. are stored apart and physically separate from the plant protection products/ any other chemicals which might cause contamination of the clothing or equipment in a well-ventilated area.  [Also relevant to aspect(s)/issue(s): <a href="#">2.4</a> Employment, wages and labor conditions.]

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ASPECTS/ISSUES	PRINCIPLES	CRITERIA
2.5 Human health and safety (continued)  <a href="#">Back to table of content</a>	3. Safe working conditions through training and education, use of protective clothing and proper and timely assistance in the event of accidents. (continued)	<b>MINOR MUST</b> 3.1 Workers Health, Safety and Welfare 3.1.6 Potential hazards are clearly identified by warning signs and placed where appropriate.  Permanent and legible signs must indicate potential hazards, e.g. waste pits, fuel tanks, workshops, access doors of the plant protection product / fertiliser / any other chemical storage facilities as well as the treated crop etc. Warning signs must be present.  [Also relevant to aspect(s)/issue(s): <a href="#">2.4</a> Employment, wages and labor conditions.]
		<b>MINOR MUST</b> 3.1 Workers Health, Safety and Welfare 3.1.7 Safety advice is available for substances hazardous to worker health, when required.  Information (e.g. website, tel no, data sheets, etc.) is accessible, when required, to ensure appropriate action.  [Also relevant to aspect(s)/issue(s): <a href="#">2.4</a> Employment, wages and labor conditions.]
		<b>MINOR MUST</b> 3.1 Workers Health, Safety and Welfare 3.1.8 There are records kept for training activities and attendees.  A record is kept for training activities including the topic covered, the trainer, the date and attendees. Evidence of the attendance is required.  [Also relevant to aspect(s)/issue(s): <a href="#">2.4</a> Employment, wages and labor conditions.]
		<b>MAJOR MUST</b> 3.1 Workers Health, Safety and Welfare 3.1.9 All workers handling and/or administering chemicals, disinfectants, plant protection

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2.5 Human health and safety (continued)  <a href="#">Back to table of content</a>	3. Safe working conditions through training and education, use of protective clothing and proper and timely assistance in the event of accidents. (continued)	products, biocides or other hazardous substances and all workers operating dangerous or complex equipment as defined in the risk assessment have certificates of competence, and/or details of other such qualifications.  Records must identify workers who carry out such tasks, and show certificates of training or proof of competence.  [Also relevant to aspect(s)/issue(s): <a href="#">2.4</a> Employment, wages and labor conditions.]
		<b>MINOR MUST</b> 3.1 Workers Health, Safety and Welfare 3.1.10 All workers received adequate health and safety training and are they instructed according to the risk assessment.  Workers can demonstrate competency in responsibilities and tasks through visual observation. If at time of inspection there are no activities, there must be evidence of instructions.  [Also relevant to aspect(s)/issue(s): <a href="#">2.4</a> Employment, wages and labor conditions.]
		<b>MINOR MUST</b> 3.1 Workers Health, Safety and Welfare 3.1.11 Workers have access to clean food storage areas, designated dining areas, hand washing facilities and drinking water.  A place to store food and to eat must be available. In addition, hand washing facilities and potable drinking water must be available to workers  [Also relevant to aspect(s)/issue(s): <a href="#">4.3</a> Food utilisation; and <a href="#">2.4</a> Employment, wages and labor conditions.]



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ASPECTS/ISSUES	PRINCIPLES	CRITERIA
2.5 Human health and safety (continued)  <a href="#">Back to table of content</a>	3. Safe working conditions through training and education, use of protective clothing and proper and timely assistance in the event of accidents. (continued)	<b>MINOR MUST</b> 3.2 Plant Protection Product Handling 3.2.1 The accident procedure is evident within ten meters of the plant protection product/chemical storage facilities.  An accident procedure must display the basic steps of primary accident care and be accessible by all persons within 10 meters of the plant protection product/chemical storage facilities and designated mixing areas.  [Also relevant to aspect(s)/issue(s): <a href="#">2.4</a> Employment, wages and labor conditions.]
		<b>MINOR MUST</b> 3.2 Plant Protection Product Handling 3.2.2 There are facilities to deal with accidental operator contamination.  All plant protection product / chemical storage facilities and all filling/mixing areas present on the farm have eye wash capability, a source of clean water no more than 10 meters distant, a complete first aid kit and a clear accident procedure with emergency contact telephone numbers or basic steps of primary accident care, all permanently and clearly signed.  [Also relevant to aspect(s)/issue(s): <a href="#">2.4</a> Employment, wages and labor conditions.]
		<b>MINOR MUST</b> 3.2 Plant Protection Product Handling 3.2.3 There are procedures dealing with re-entry times on the farm.  There are clear documented procedures which regulate all the re-entry intervals for plant protection products applied to the crops according to the label instructions. Where no re-entry information is available on the label, there are no specific requirements.  [Also relevant to aspect(s)/issue(s): <a href="#">2.4</a> Employment, wages and labor conditions.]

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2.7 Good management practices and continuous improvement  <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices.	MINOR MUST 2.8 Seed/Rootstock Quality and Origin 2.8.1 Purchased seeds are accompanied by records of variety name, batch number, supplier, seed certification details and are seed treatment records retained.  Producer must provide records of variety name, batch number, supplier, seed certification details and seed treatments applied.
		MINOR MUST 2.8 Seed/Rootstock Quality and Origin 2.8.2 Home-saved seed have available records of the identity, source, treatments applied (e.g. cleaning and seed treatments).  Producer must keep records and have them available on the farm.
		MINOR MUST 2.21 Energy Efficiency 2.21.1 The producer can show monitoring of energy use on the farm.  Energy use records exist. For example, farming equipment shall be selected and maintained for optimum consumption of energy. The use of non-renewable energy sources should be kept to a minimum.
		MAJOR MUST 6.1 Record Keeping and Internal Self Assessment 6.1.1 <b>All records requested during the external inspection</b> are accessible and kept for a minimum period of time of two years, unless a longer requirement is stated in specific control points.  Producers keep up to date records for a minimum of two years from the date of first inspection, unless legally required to do so for a longer period.
	6. Good management practices shall be implemented.  [Also relevant to aspect(s)/issue(s): <a href="#">3.1 Compliance.</a> ]	MAJOR MUST 6.1 Record Keeping and Internal Self Assessment

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<p>2.7 Good management practices and continuous improvement (continued)</p> <p><a href="#">Back to table of content</a></p>	<p>6. Good management practices shall be implemented. (continued)</p>	<p>6.1.2 The producer or producer group takes responsibility to undertake a <b>minimum of one internal self-assessment</b> or producer group internal inspection, respectively, per year against the ISCC Checklist.</p> <p>There is documentary evidence that the internal self-inspection has been carried out and is recorded annually.</p>
		<p>MAJOR MUST</p> <p>6.1 Record Keeping and Internal Self Assessment</p> <p>6.1.3 <b>Effective corrective actions</b> taken as a result of non-conformances detected during the internal self-assessment or internal producer group inspections.</p> <p>Effective corrective actions are documented and have been implemented.</p>
		<p>MAJOR MUST</p> <p>6.2 Site History and Site Management</p> <p>6.2.1 A recording system is established for each unit of production undertaken at those locations? Are these records kept in an ordered and up-to-date fashion.</p> <p>Current records must provide a <b>history of biomass production of all production areas</b>. New applicants must have full records for at least three months prior to the date of external inspection that reference each area covered by a crop with all the agronomic activities related to this Checklist.</p>
		<p>MAJOR MUST</p> <p>6.2 Site History and Site Management</p> <p>6.2.2 Records are kept for the description of the areas in use.</p> <p>The <b>documentation system for the fields of the farms</b> must comply with the following minimal requirements:</p> <p>(1) The description of the whole agricultural area is carried out along a list of parameters to be assessed:</p>

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<p>2.7 Good management practices and continuous improvement (continued)</p> <p><a href="#">Back to table of content</a></p>	<p>6. Good management practices shall be implemented. (continued)</p>	<p>a) Lot number b) Lot size c) Type of crop</p> <p>(2) Each lot (as part of the whole agricultural area) is depicted as traverse in geographic coordinates with a precision of 20 metres for each measuring point.</p> <p>a) The depiction of simple lot shapes can easily be realised with the help of satellite images</p> <p>b) b. For very complex shapes, the real lot can be approximated by a polygon. The measuring points on each end of the lines framing the polygon then have to meet the required precision of 20 metres.</p> <p>c) A small number of measuring points may suffice for the approximation through a polygon as long as the lot size on the map does not deviate from the specification in (1) by more than 10%.</p> <p>d) If suitable maps or tables specifying the requested information do not exist, it is permitted to identify lots with the help of tools like Google Earth. The measuring points can be set in the image as place marks manually and the results (geo-coordinates) for these place marks are delivered by the tool for documentation.</p>
		<p>MAJOR MUST</p> <p>6.3 Subcontractors</p> <p>6.3.1 In case of the engagement of subcontractors they must <b>comply fully with the ISCC standard and provide the respective documentation and information.</b></p> <p>Relevant subcontractors as meant in 4.6.3.1 are enterprises that work on behalf of the producer (e.g. seeding, fertilizing, pest control, harvesting). Relevant subcontractors must be regarded in the audit. The producer must provide evidence of respective contracts with the subcontractor ensuring that the auditor gets access to relevant information. The producer must also accept that ISCC approved certifiers are allowed to verify the assessments through a physical inspection where there is doubt. The producer is responsible for observance of the control points applicable to the tasks performed by the subcontractor by checking and signing the assessment of the subcontractor for each task and season contracted. Review of documents. N/A if no subcontractors used.</p>

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2.8 Social sustainability (cross-cutting)  <a href="#">Back to table of content</a>	4. Biomass production shall not violate human rights labour rights or land rights. It shall promote responsible labour conditions and workers' health, safety and welfare and shall be based on responsible community relations.	MINOR MUST 4.8 All impacts for surrounding communities, users and land owners taken into account and sufficiently compensated for.  A <b>participatory social impact assessment</b> has been conducted, and the report is publicly available in appropriate language to surrounding communities. On the basis of that SIA report a continued dialogue with surrounding communities is in place. Documents of regular meetings with communities (with two-way communication) and local government with listed risks and/or impacts and evidence of minuted negotiations or resolution processes are compiled.  [Also relevant to aspect(s)/issue(s): <a href="#">3.2</a> Participation and transparency.]
		MINOR MUST 4.20 <b>Mediation</b> is available in case of a social conflict  An independent mediator should be assigned by name and address by the elected person of trust.  [Also relevant to aspect(s)/issue(s): <a href="#">2.4</a> Employment, wages and labor conditions.]
		See <a href="#">criterion 4.21</a> on <b>provisions to compensate impact on workers and land on exit or bankruptcy</b> of farm operations at aspect/issue 2.4 Employment, wages and labor conditions.
<b>3. GOVERNANCE</b>		
3.1 Compliance  <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices.	See <a href="#">criterion 2.3.1</a> on <b>hunting, fishing or collecting activities carried out according to local legislation</b> at aspect/issue 1.2 Biodiversity and ecosystem services.
		MAJOR MUST 2.9 Irrigation 2.9.6 <b>Advice on abstraction has been sought from water authorities, where required by law.</b>  Where required by law, there must be written communication from the local water authority

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3.1 Compliance (continued)	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices. (continued)	on this subject (letter, license, etc.). [Also relevant to aspect(s)/issue(s): <a href="#">1.5</a> Water availability and quality.]
		See <a href="#">criterion 2.15.8</a> on <b>observation of local restriction for plant protection products</b> at aspect/issue 1.4 Crop management and agrochemical use.
		See <a href="#">criterion 2.16.1</a> on <b>disposal of surplus agrochemical mix according to law</b> at aspect/issue 1.4 Crop management and agrochemical use.
		See <a href="#">criterion 2.17.2</a> on <b>storage of plant protection products according to local regulations</b> at aspect/issue 1.4 Crop management and agrochemical use.
3.2 Participation and transparency  <a href="#">Back to table of content</a>	5. Biomass production shall take place in compliance with all applicable regional and national laws and shall follow relevant international treaties.	See <a href="#">criterion 2.19.6</a> on observation of <b>local regulations on disposal or destruction of agrochemical containers</b> in aspect/issue 1.4 Crop management and agrochemical use.
		MAJOR MUST 5.2 There is awareness of, and compliance with, all applicable regional and national laws and ratified international treaties.  Producer can demonstrate awareness of his responsibilities according to the applicable laws. Applicable laws are being complied with.
		See criteria <a href="#">6.1.1 to 6.1.3</a> on record keeping and internal self assessment, <a href="#">6.2.1 and 6.2.2</a> on site history and management and <a href="#">6.3.1</a> on subcontractors engagement at aspect/issue 2.7 Good management practice and continuous improvement.
3.2 Participation and transparency  <a href="#">Back to table of content</a>	6. Good management practices shall be implemented.	See <a href="#">criterion 4.8</a> on <b>participatory social impact assessment and continuous dialogue with surrounding communities</b> at aspect/issue 2.8 Social sustainability (cross-cutting).
		MINOR MUST 4.9 The management does hold <b>regular two-way communication meetings with their employees</b> where issues affecting the business or related to worker health, safety and welfare can be discussed openly.  At least two meetings a year are held between management and employees. Matters related to the business and worker health, safety or welfare can be discussed without fear, intimidation or retribution. Records from such meetings are kept and the concerns of the employees are

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3.2 Participation and transparency (continued)  <a href="#">Back to table of content</a>	4. Biomass production shall not violate human rights labour rights or land rights. It shall promote responsible labour conditions and workers' health, safety and welfare and shall be based on responsible community relations. (continued)	recorded. The elected person of trust should assign an independent mediator by name and address.  [Also relevant to aspect(s)/issue(s): <a href="#">2.4 Employment, wages and labor conditions.</a> ]
		MINOR MUST 4.11 There is a <b>complaint form and/or procedure</b> available on the farm, where employees and affected communities can make a complaint.  A complaint form and/or procedure are available for farm employees and surrounding communities. They have been made aware of its existence and complaints or suggestions can be made at any time. Complaints and their solutions from the last 24 months are documented and accessible.  [Also relevant to aspect(s)/issue(s): <a href="#">2.4 Employment, wages and labor conditions.</a> ]
		MINOR MUST 4.22 <b>Fair and transparent contract farming arrangements</b> are in place.  The contracts are on paper in the appropriate language and consigned copies are available with both parties. Essential indicators are: <ol style="list-style-type: none"> <li>(1) The contracts are on paper in the appropriate language and co-signed copies are available with both parties. In case of cooperative contract arrangements, all members have a copy.</li> <li>(2) Credit or input provisions at no more then prevailing commercial market rates. Changes are communicated on paper.</li> <li>(3) Payments for harvest are, in calculated form, done on paper and signed and handed over to contract farmer for his/her own record keeping.</li> <li>(4) Provisions governing price-quality parameters are clearly defined in the contract.</li> <li>(5) The contract contains clear provisions on exit arrangements, buy-out possibilities, handing over of property deeds (when appropriate), and compensation measures in case of bankruptcy of the mother company when legally required.</li> <li>(6) There are minutes of meetings providing evidence of regular discussions or negotiations</li> </ol>

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		<p>between mother company and contract farmers' representatives.</p> <p>[Also relevant to aspect(s)/issue(s):  <a href="#">2.4</a> Employment, wages and labor conditions.]</p>
<b>4. FOOD SECURITY</b>		
4.1 Food availability	4. Biomass production shall not violate human rights labour rights or land rights. It shall promote responsible labour conditions and workers' health, safety and welfare and shall be based on responsible community relations.	See <a href="#">criterion 4.23</a> on biomass production not replacing stable crops at aspect/issue 4.5 Food security (cross-cutting).
4.2 Food access	4. Biomass production shall not violate human rights labour rights or land rights. It shall promote responsible labour conditions and workers' health, safety and welfare and shall be based on responsible community relations.	<p>See <a href="#">criterion 4.6</a> on <b>living wages that are sufficient to meet basic needs</b> at aspect/issue 2.4 Employment, wages and labor conditions.</p> <p>See <a href="#">criterion 4.23</a> on <b>rise in local food prices directly caused by biomass production</b> at aspect/issue 4.1 Food availability.</p>
4.3 Food utilization <a href="#">Back to table of content</a>	2. Biomass shall be produced in an environmentally responsible way. This includes the protection of soil, water and air and the application of Good Agricultural Practices.	<p>MAJOR MUST</p> <p>2.9 Irrigation</p> <p>2.9.1 The producer can <b>justify the irrigation in light of accessibility of water for human consumption.</b></p> <p>Beside the use of water for irrigation/fertigation, water is available for human consumption.</p> <p>[Also relevant to aspect(s)/issue(s):  <a href="#">1.5</a> Water availability and quality.]</p>
	3. Safe working conditions through	See <a href="#">criterion 3.1.11</a> on <b>workers' access to clean food storage areas, dining areas, hand washing facilities and drinking water</b> at aspect/issue 2.5 Human health and safety.



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	training and education, use of protective clothing and proper and timely assistance in the event of accidents.	See <a href="#">criterion 3.1.12</a> on workers' habitable living quarters with <b>running water, toilets, drains and/or septic pits</b> at aspect/issue 2.4 Employment, wages and labor conditions.
4.5 Food security (cross-cutting)  <a href="#">Back to table of content</a>	4. Biomass production shall not violate human rights labour rights or land rights. It shall promote responsible labour conditions and workers' health, safety and welfare and shall be based on responsible community relations.	MINOR MUST 4.23 The biomass production does not impair food security.  The biomass production <b>shall not replace stable crops</b> and does not impair the local food security. Local food prices do not rise as a direct effect of biomass production.  [Also relevant to aspect(s)/issue(s): <a href="#">4.1</a> Food availability; and <a href="#">4.2</a> Food access.]