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Date: 4th 2019
Hemp An Alberta Grown Fiber

Charles Vereschagin
21 Park Place
Drumheller, AB T0J 0Y1
403-823-2561

Hemp An Alberta Grown Fiber
Hemp An Alberta Grown Fiber

Hand Weavers, Spinners, And Dyers of Alberta.
Olds College, 4500 - 50th Street, Olds, Alberta, T4H 1R6
Summary

Detailed explanation of hand processing of Hemp includes:

- Cultivation
- Retting
- Braking
- Scutching
- Hackling
- Spinning
- Woven Fabric
- A Dye Experiment
- Paper
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Production Dyeing
In 1937 the American government passed legislation that made the cultivation and possession of Cannabis (Hemp) illegal.

The reason for this prohibition is somewhat clouded. It was said that the use of Hemp (marijuana) would corrupt the youth of the nation. It was known that Negro musicians used marijuana rather than the heavily taxed alcohol. Or, could it be that prohibition had ended and there were thousands of federal agents with nothing to do and the hemp law would give them work. It could also have been pressure from the cotton lobby.

Millions of man years and billions of dollars have been spent in North America to enforce the marijuana laws. Meanwhile in eastern Europe, the old Soviet Union and the far east China, Laos, Cambodia, and Viet Nam; the technology of cultivation and processing of hemp continued. Meanwhile, the industry in North America faded into oblivion.
In 1995 and 1996 the Canadian Government, with much secrecy had test plots of Cannabis grown in order to see if the crop was viable.

This experiment was to find strains that would be low in the chemical tetrahydrocannabinol (THC).

In 1997 and 1998 test plots were raised on marginal land to evaluate the crops limitations. In the fall of 1998 rules and regulations and applications were finalized and interested growers were encouraged to make application.

Many producers sought application. This may have been a mistake. There was no infrastructure in place to market or utilize the grain and fiber produced. Most producers were left with bins full of seed and storage sheds filled with bales of hemp straw.

Unfortunately, viable seed is still considered under the drug act, and possession by any one but the licensed producer is illegal without special permit, so it must be chopped or baked before it can be sold on the open market.
The hemp plant (cannabis sativa) was the strain that was sampled for this paper. Hemp is a dioecious annual; this means that the male and female blossoms are borne on separate plants. The male plants mature before the female. In extreme conditions when plants are stressed, both male and female flowers may appear on the same plant. The maturity of the plot is gauged by the maturity of the whole plants. The fiber of the field is the same for male and female when the male plant is ripe.

The plant in the foreground with the lighter foliage is a blooming male.
The hemp plant can grow to heights of four meters but the usual is two meters. Hemp produces a bast fiber. The fiber lies in bundles in the cortex of the stalk just inside the outer bark. These bundles are embedded in pectinous gums and waxes and other non-cellulosic substances.

The inner part of the plant is made up of a woody core, hollow in the middle, called Hurd, this is used for animal bedding and paper.
Retting

Two methods of extracting the fiber exist: One is mechanical, a decorticating machine which strips the bark and pith from the fiber.

The other method is retting, (rotting the stalks to release the fiber) either by bacterial (under water) or fungal by the dew or water sprinklers on top of the ground.

Water retting was the method used to process samples for this paper.
The stalks were collected and dried. When the samples were ready to process, the stalks were submerged in water. The bundles of stalks were left in the soaking container for 15 days and the water was siphoned off and replaced with fresh water every three days.

The stalks are tested periodically to see if they are ready. This is done by placing the stalk near the ear and bend it, if it is ready, it will make a loud snap. The stalks are ready when the loud craking is heard all the way up the stalk.

The bundles of stalks are removed from the tubs of water and spread out to dry.
**Braking**

When the stalks are dry, they are broken to remove the bark and hurd from the fiber. The stalks are broken in a device called a brake. The brake is composed of one or more wedge shaped bars that mesh together with a hinge at one end and a handle at the other to apply force. As the stalks are fed into the brake, the handle is raised and lowered in a chopping action. The inside core (hurd) is crushed into small pieces and falls away, leaving behind a hank of long fibers.
Scutching

After the brake, bits of bark and hurd still cling to the fibers. These are removed by scutching. This is done with use of a scutching knife that is made of wood so as not to cut the fibers.

The hank of now broken fiber is grasped at the butt end of what was the stalk. The hank is laid over a protruding stick or board at about the centre of the hank. The scutching knife is then quickly run down the fiber to remove bits of hurd. This is done several times then the hank is turned so all sides are scutched. The hank is then grasped at the tip end and the butt half of the hank is cleaned of hurd with the knife.
Hackling

When the scutching is complete the fiber is now hackled.

The hackle is made up of rows of long sharp, steel tines held by a block of wood. Hackling serves two purposes: One is to separate the fiber bundles into individual fibers and secondly, to separate the shorter fibers (tow) from the long fibers (line).

If the hank of scutched fiber is still quite hard, it can either be pounded with a wooden mallet on a block of wood or rubbed between the thumbs and forefingers of both hands to soften and separate the fibers more.

The hackle is clamped to a table top or into a special holder. The scutched hank is grasped about the center, wrapped around the index finger and held with the thumb. The hank held tight is now ready to be hackled. The hackling is done a little at a time one or two inches. The fiber is thrown on to the hackle and pulled through or the fiber can be laid on top of the hackle and be held down with the other hand as the hank is pulled away. This separates the fibers and catches the short bits of fiber in the tines. When the fibre is hackled up to the hand, the now hackled fiber is grasped where the hackling has ended and the second half of the fiber is pulled through the hackle. When the hank is completely hackled, it is set aside and the hackle is cleaned of the short bits and tangles which is also set aside for later processing and spinning.
The line was spun using a saxon type wheel with an attached distaff. The distaff was dressed (Baines, Linen Hand Spinning, and Weaving) and the line was spun with water.

The tow was carded and rolled into a sausage across the cards to align the fibers, dampened, and spun.
Hemp was planted like any other crop, either by air seeder or a drill. The air seeder injects the seed into a furrow that is made by a shovel plow cultivator. The drill is an implement with many discs that make furrows and the seed drops behind the disc.

Planting is generally done in the early Spring, but can be fall planted. There is no herbicide licensed for hemp, so it must have a good start to stay ahead of the weed growth.

Prior to the male bloom, which precedes the female bloom by approximately two weeks, the males are rogued. The roguing is done by a group of people that walk through the field and either pull or cut the male plants. Roguing a field has a two-fold benefit; more water and nutrients and the remaining females produce more flowers and resins.

For this fiber experiment the plants were pulled with commercial production, the plants would be cut mechanically and laid out in rows. The harvest of seed crops is cut about 24 inches off of the ground by a self-propelled combine.
Sample One

This sample called Kampali is from Europe and is a true fiber hemp, it was obtained from John and Faye Kloberdanz who farm near Kirriemuir, Alberta. This sample was grown in 1997 and at that time paper work had to accompany the sample.
Sample Two

This sample “Sasamo” is considered a dual purpose crop, both seed and fiber. It was obtained from the “Adam’s Farms” near Drumheller, Alberta. This crop unfortunately was planted late because of the red tape and was overrun by weeds, mainly wild oats.

Adams 1999 Set 16 EPI Warp, 32EPI Weft
Sample Three

This sample again “Sasamo” from “Adam’s Farms” was planted at the right time and did very well although rain fall was below average.

Adams 2000 Set 16 EPI Warp, 22EPI Weft
1999 Adams farms line

1000 before male bloom

July 22 2000 before male bloom tow rewound before plying
August 5 2000 Rogued males wet stripped

Male plants collected September 2 2000. Left to dry and dew ret until Sept 13, then water retted
Standing stalks left in field over winter tow carded and rewound before plying

Standing stalks left in field over winter collected April 2001

Dew retted stalks from 2000 crop collected September 2001
Dye Sample

Since the dye stuff, and rogued males were available, a production test was done.

Six bunches of six skeins each were used for the mordanting. Each bunch weighed about 80 gr.

The proportions for the mordanting was taken from A. Dyer’s Garden by Rita Buchanan.

Alum 14% of the weight of wool Alum
4% of the weight of wool Tartaric acid

Tin 2% of the weight of wool Stannous chloride

Chrome 4% of the weight of wool Potassium dichromate

Copper 8% of the weight of wool Copper Sulfate

Iron 6% of the weight of wool Iron Sulfate

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Greening 2% of the weight of wool Copper Sulfate
Blooming 5% of the weight of wool Stannous Chloride
Ammonion Dip 1 ½ Cups ammonia to one gallon of water
The wool was mordanted by dissolving the mordant in enough water to let the wool float freely (1/2 gallon). Wet skeins were submerged into the mordant bath and the temperature is brought up to 85 degrees centigrade and held for 1 ½ hours. The bath is let cool, the skeins were removed and rinsed ready for the dye bath.

The dye bath was made by placing 2 lbs of chopped Rogued males into two gallons of water then brought to a boil and let simmer two hours. This was done at the Adam’s farm because the foliage would be considered marijuana. The dye bath was strained and transported home.

Six skeins in each of five bunches were mordanted and six skeins not mordanted. All skeins were placed into the dye bath, the temperature was raised to 85 degrees centigrade and maintained 1 ½ hours. The dye bath was let cool and when the skeins could be handled, they were rinsed until the water was clear.

The dyed skein from the six groups were divided into pairs for post mordanting. There were two skeins for Greening, two skeins for Blooming, and 2 skeins not mordanted. They were placed into the appropriate post mordant (copper or tin) and simmered 15 minutes. These were then cooled and rinsed.

The groups of two were divided into singles, one left and one to dip. The skeins were lowered into the dip and held 30 seconds, then pulled out and rinsed.
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## HEMP PRODUCTION DYING FROM ROGUED MALES

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Paper Sample

To make this paper sample, scutched and fiber was cut to 3/4 inch and placed in a blender with water. The pulp was added to a tub of water and the pulp was stirred then lifted out with a screen. This paper was make with only hemp fibre and water.
Conclusions and Recommendations

The hemp plant yields significant quantities of strong fiber that can easily be processed without elaborate machinery.

In my opinion, hemp has a very long way to go until textiles, paper and other products can be made cheap enough to compete with other fibers. It is definitely a viable fiber source and has great potential to farming and industry.

I feel as more producers experiment with its production, more products will become available and this will educate consumers and create a demand.

I have processed both flax and hemp. The hemp was easier to process, but the flax yields a finer fibre. I do feel that with more experimentation with the processing, the fiber bunches would be broken down to produce as fine a fiber as flax.

My recommendation would be to experiment with whatever hemp fiber that is available to you. Find what limitations it has to your application and share your findings with as many others as possible. If you have the opportunity to process your own hemp stalk, it will be an interesting and rewarding experience.
References

Hemp For Textile Artists by Cheryl Kolander
Linen Hand Spinning and Weaving by Patricia Baines
Encyclopaedia Britannica
World Book Encyclopaedia
INDUSTRIAL HEMP GUIDE
SCHEDULE 1
CULTIVATION

Please read carefully. Incomplete or illegible applications cannot be processed and will be returned.

Effective as of: November 15, 1998

SCHEDULE 1
INDUSTRIAL HEMP GUIDE – CULTIVATION

<table>
<thead>
<tr>
<th>SCHEDULE SPECIFIC REGULATORY REFERENCES</th>
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<tr>
<td><strong>Industrial Hemp Regulations</strong></td>
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<tr>
<td><strong>Industrial Hemp Technical Manual</strong></td>
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A. BACKGROUND:

These guidelines state generally applicable principles and practices that are acceptable to the Therapeutic Products Programme (TPP) and that should facilitate compliance with the Industrial Hemp Regulations.

1. All persons wishing to apply for licences, authorizations or permits should read the Therapeutic Products Programme (TPP) Industrial Hemp Guide - Overview. It provides the necessary background on the Regulations to make it easier for applicants to comply with the Regulations.

2. The definitions contained in the Regulations in Appendix I and the explanations in the Glossary of Terms in Section 4 of the Overview must be well understood by the applicant.

3. To be eligible to hold a licence, permit, or authorization, a person must be a resident of Canada. At least one of the partners in the case of a partnership (or, if the person is a corporation or cooperative), must have its head office in Canada or operate a branch office in Canada.

4. Approved cultivars

"Approved cultivar" means any variety of industrial hemp designated by the Minister in accordance with section 39 and set out in the List of Approved Cultivars published by the Department of Health, as amended from time to time. See Appendix II

a. Cultivation

- Only approved varieties of industrial hemp seeds, as listed on Health Canada's List of Approved Cultivars may be planted.

- Growers are responsible for ensuring that their seed supplier is licensed by Health Canada

- To allow the use of non-certified seed of approved cultivars during a transition period, the Regulations have been modified to provide an exemption until January 1, 2000. However, seed must still be "of an approved cultivar".

- Commencing January 1, 2000, only pedigreed seeds of approved varieties may be planted.

- Growers are required to identify their fields, including Global Positioning System (GPS) coordinates, and maintain records of production and distribution.

- Seed Growers are restricted to a 0.4 hectare minimum plot size.

- The 4 hectares minimum applies to growing for fibre or grain

- Seed growers are required to demonstrate current membership in the Canadian Seed Growers' Association (CSGA) as part of their licence application.

- Administrative guidelines will provide information concerning compliance action where the crop produced from approved varieties exceeds the 0.3% THC (1) limit stated in the Regulations.
Enforcement options range from immediate harvesting to destruction depending on the THC level.

The cultivation of industrial hemp within one kilometre of any school grounds or any other public place usually frequented by persons under the age of 18 years is prohibited.

b. **Plant Breeders**

Plant breeders are persons who, using known varieties, will be developing new Canadian varieties or producing breeder seed in Canada.

Breeders must:

- be recognized by the CSGA as a full plant breeder and obtain a certificate or other documentation to prove that recognition. Submit a copy of this documentation at the time of application for a licence.

- The pedigreed seed restriction, which applies to growers in the year 2000, does not apply to plant breeders, nor does the limitation to the *List of Approved Cultivars*. However, varieties of breeder lines cultivated under the *Industrial Hemp Regulations* must produce a plant with 0.3% THC or less in its leaves and flowering parts.

c. **Sampling**

- Sampling for THC content must be done when 50% of the seeds resist compression, that is, before seeds are mature.

- This monitoring will allow for better control over the varieties which are sown in Canada.

- Sampling must be carried out by persons trained and experienced in seed sampling. The sampler shall be independent of any commercial interest which might influence the sampling duties being carried out. The national or provincial department of agriculture may be able to advise on who can provide this service.

- Field sampling of hemp stands must be conducted by provincially designated professional or technical agrologists (or equivalent for those provinces having no such designation process), with experience in crop production and sampling, or by pedigreed-seed crop inspectors recognized by the Canadian Seed Growers' Association for that purpose.

d. **Harvesting**

- Details on the time of harvesting can be found in the *Industrial Hemp Technical Manual*.

- **Harvesting for fibre is normally done at the same time as sampling for**
THC content, when 50% of the seeds resist compression. If harvested before this time, sampling must be performed at the time of harvest.

- Harvesting for seed or viable grain is done when the seeds are mature although sampling for THC content must be done when 50% of the seeds resist compression.

e. Farm Equipment Cleaning:

Section 17. of the Industrial Hemp Regulations requires that a person who holds a licence to cultivate industrial hemp shall ensure that all equipment that is used to sow or harvest the hemp is thoroughly cleaned after each such use in order to avoid the accidental sowing of industrial hemp.

Failure to properly clean farm equipment could lead to "volunteer" plants in areas that are not licensed (outside the area identified with GPS coordinates) or appearing in other crops.

It is important to confine your cultivation of industrial hemp within licensed areas. If plants are observed outside the licensed areas, this could potentially lead to police action, the laying of charges and/or the denial of a future licence.

f. Global Positioning System Coordinates (GPS)

GPS is a satellite based, radio navigation system which allows users to determine their three-dimensional position, velocity and time anywhere in the world. Based on current information, the available and affordable systems are able to provide a satisfactory level of accuracy as a surveying tool that is acceptable to Health Canada.

The Industrial Hemp Regulations clearly stipulate that GPS coordinates must be submitted as part of the application in the case of the cultivation of industrial hemp. Subparagraph 8(1)(g) of the Regulations (see Appendix I) states that a person who applies for a licence or authorization shall submit certain information to the Minister, including the GPS coordinates to situate each site to be cultivated and a map showing the location of the site in terms of its legal description. Therefore, for an application to be complete, GPS coordinates sufficient to delimit the proposed site of cultivation must be included. Amendments to the licence may be made at a later date to describe slight variations that may occur, if necessary.

See Schedule 2 or Schedule 8 Guides for more details.

B. WHO MUST HAVE A LICENCE:

1. All persons who plan to cultivate industrial hemp.

2. Plant breeders who plan to do both commercial cultivation of industrial hemp and conduct the activities of a plant breeder, must complete both Schedule 1 and Schedule 8.

3. Researchers who plan to do both commercial cultivation of industrial hemp and conduct
research activities, must complete both Schedule 1 and the Research Licence Application.

Exceptions:

a. Persons who will cultivate industrial hemp, only as a plant breeder, should complete Schedule 7.

b. Persons who will cultivate industrial hemp under the provisions of a research licence, should apply under a different licensing scheme, subject to the Narcotic Control Regulations.

c. Research Licence Applications may be obtained from the Bureau of Drug Surveillance or the Health Protection Branch contacts.

The rules and procedures for obtaining research licences are similar to those of previous years, except for a few important changes to harmonize with the requirements under the Industrial Hemp Regulations.

C. FORMS TO BE COMPLETED:

1. Industrial Hemp Licence Application
2. Schedule 1
3. Schedule 6 - if the applicant is a Corporation, Cooperative or Partnership
4. Schedule 7 (if a Plant Breeder)

D. COMPLETING THE SCHEDULE 1 FORM:

1. Applicant Information:

   a. Provide the surname and given names, if the applicant is an individual.

   b. Provide the Registered name if the applicant is a Corporation, Cooperative or Partnership.

   c. The same name used on the Industrial Hemp Licence Application is to be used here.

   d. Provide the complete legal description of the site to be licensed. A Post Office Box is not acceptable here.

   **Legal Description:** There are several ways used to provide a legal description of the location to be licensed. Systems will vary from Province to Province and even within a Province. For example, the legal description for a cultivation site in Ontario may be:

   North ½ of Lot 9
   Concession II
Township of Goulburn
County of Carleton

Only in New Brunswick is it the 911 number, which is the accepted "legal description" in that province.

e. Provide the address at which the records, books, electronic data or other documents required by the Regulations will be kept. If the records are kept at a place other than the licensed site, the licence holder must make them available for inspection as necessary.

- A Post Office Box is not acceptable here.

- List the complete address at which Industrial hemp will be stored only and no other activity requiring a licence will take place.

**Note:** It is illegal to store industrial hemp at an unlicensed location. All such locations must be listed. If, however, sale or distribution is to take place at a location it should not be listed here since that site must be licensed or authorized for that activity.

- List all forms in which the industrial hemp will be stored.

**E. About the Cultivation:**

a. Indicate all forms for which the industrial hemp will be cultivated seed for sowing, grain or fibre. Check as many as necessary.

b. If cultivating for seed, attach a copy of proof of membership in the Canadian Seed Growers' Association. **For new growers, this proof of membership may be in the form of a cancelled cheque for prepayment of membership fees, or other documentation provided by the Canadian Seed Growers' Association.**

c. Indicate whether or not the land on which the industrial hemp will be cultivated is owned by the applicant.

- If the applicant is not the owner, provide the name of the owner.

- Attach the **original** of a signed statement by the owner consenting to the cultivation of industrial hemp on this site.

- This requirement applies even when the land is leased.

In the case of Indian Reserve lands, often referred to as "Band Lands", a Certificate of Possession issued under the **Indian Act** is required. Please note that an environmental impact statement may be required under other legislation for this purpose.

d. Provide the name of each approved cultivar which will be sown and the number of hectares which will be sown with each cultivar.
e. See *Industrial Hemp guide-Overview*, Appendix II for *List of Approved Cultivars for the 1999 Growing Season*.

f. State the number of hectares being cultivated for seed for sowing, viable grain and fibre. Attach additional pages if required.

g. Provide the number of hectares cultivated at each licensed location in each of the previous 2 years during which the applicant held a licence under the *Industrial Hemp Regulations*.

   - This information must be provided for each site licensed. (1998 is the first year that can be recorded)
   - Attach additional pages if required.
   - Persons applying for the first time for cultivation in 1999 should leave this area blank.

   - **IMPORTANT NOTE:** If you received a licence in 1998 and did not plant or did not meet the minimum field size, and do not plant in 1999 after receiving a licence you would be ineligible for licensing in the year 2,000.

h. Attach a map indicating where on the land the cultivation for seed, grain and fibre will take place, the legal description of the land, the Global Positioning System Coordinates, the number of hectares and the variety being sown.

   - See attached Guidelines for Map of Industrial Hemp Field for more details.
   - Attachment 1

i. Provide the Global Positioning System Coordinates to

   - situate the total site being cultivated;
   - situate the site being cultivated for seed, if applicable;
   - situate the site being cultivated for grain; and
   - situate the site being cultivated for fibre.

**F. Licence to Cultivate Industrial Hemp - Certification**

a. Provide the name, title and telephone number of the person responsible for ensuring compliance with the Regulations.

b. In the case of a corporation, cooperative or partnership, the name provided must be of a person who has the authority to bind the company. This is usually a Director or officer.

c. The person signing may or may not be the person signing the Industrial Hemp Licence Application.

**· SUBMISSION TO HEALTH CANADA:**

http://www.hc-sc.gc.ca/hpb-dgps/therapeut/zfiles/english/hemp/1guide_e.html
1. The Schedule 1 form submitted to Health Canada must bear an original signature. A faxed or photocopied form will be considered incomplete and will be returned to the applicant.

2. In the case of a corporation, cooperative or partnership, Schedule 6 must also be submitted.

3. Include all other documents which are required to satisfy the requirements of the Industrial Hemp Licence Application.

- RECORDS TO BE KEPT A MINIMUM 2 YEARS INCLUDE:
  1. Form and quantity in which industrial hemp purchased or sold.
  2. Variety of industrial hemp cultivar purchased and sold.
  3. Quantity of seed of each approved cultivar sown.
  4. Quantity of seed or viable grain harvested.
  5. Date of harvest and each shipment (sent or received)
  6. Results of any tests required by the Regulations.

- POINTS TO BE CONSIDERED BY LICENSED GROWER:
  1. It is the responsibility of the licence holder to ensure compliance with the Regulations.
  2. Sampling to be performed by authorized sampler.
  3. Must have the required THC test performed. These requirements are posted on the web and will be supplied as attachments to Industrial Hemp Licence.
  4. Must clean seeding equipment thoroughly
  5. Must have adequate security.
  7. Must ensure transportation and storage are secure.
  8. Must purchase seed from licensed seed supplier.
  9. Must only provide Industrial Hemp to licensed parties.
 10. Must carry out the activities at licensed location only.


**APPENDIX I**

**GUIDELINES FOR MAP OF INDUSTRIAL HEMP FIELD**

The purpose of this section and the attached sample maps is to provide answers to some of the questions relating to the requirement for inclusion of Global Positioning System (GPS) coordinates on industrial hemp applications, what constitutes a "map" and what constitutes a "legal description".

**Requirement for GPS coordinates:**

The *Industrial Hemp Regulations* clearly stipulate that GPS coordinates must be submitted as part of the application in the case of the cultivation of industrial hemp. Subparagraph 8(1)(g) of the Regulations (see Appendix I) states that a person who applies for a licence or authorization shall submit certain information to the Minister, including the GPS coordinates to situate each site to be cultivated and a map showing the location of the site in terms of its legal description. Therefore, for an application to be complete, GPS coordinates sufficient to delimit the proposed site of cultivation must be included. Amendments to the licence may be made at a later date to describe slight variations that may occur, if necessary.

**Cultivation of seed and grain:**

Subparagraph 8(1)(g)(v) states that if any part of the site is to be cultivated for seed or viable grain, the GPS coordinates to situate that part of the site, and an indication on the map of its location within the site, must be provided. *For example, the minimum number of GPS coordinates required to situate a triangular site would be three, for a rectangular site would be four and for an "L" shaped site six would be required. The shapes so described must also appear on the map which is to be provided.* (See attached sample map).

Therefore, sufficient GPS coordinates must be provided to delimit the site to be licenced and each area within the site that will be cultivated.

As part of your application for a licence to cultivate industrial hemp, the *Industrial Hemp Regulations* require you to submit a map showing the location of the cultivation site in terms of its legal description along with the necessary GPS coordinates. If any part of the site is to be used to cultivate industrial hemp for seed or grain, then the map must also indicate the location of that part within the overall cultivation site.

**Legal Descriptions:**

There are several ways used to provide a legal description of a piece of land. Systems will vary from Province to Province and even within a Province. Your map must adequately describe the piece of land on which the industrial hemp is being cultivated, in reference to its legal description. For example, if the legal description of a 50 acre piece of land on which industrial hemp is to be cultivated is:

North ½ of Lot 9

Concession II  
Township of Goulburn  
County of Carleton

Your map should look something like this:

**SAMPLE MAP**

On the sample map, example coordinates are shown in this format (Ax, Bx). However, your coordinates should be in one of the following forms:

For Latitude and Longitude:  For Universal Transverse Mercator Coordinates (preferred)

Lat. XX° XX' XX.XX" N  
Long. XX° XX' XX.XX" W  

(Where the "Xs" represent applicable numbers for your location)

http://www.hc-sc.gc.ca/hpb-dgps/therapeut/zfiles/english/hemp/1guide_e.html  
5/21/2002
APPENDIX II

Excerpt from the *Industrial Hemp Regulations* relating to the requirement for GPS coordinates and Legal Descriptions

Application:

Sec. 8. (1) A person who applies for a licence or authorization shall submit the following information and documents to the Minister, on a form provided by the Health Canada:

\[ g. \] in the case of the cultivation of industrial hemp:

\[ i. \] the approved cultivar that will be sown, or the variety of industrial hemp if the applicant is a plant breeder,

\[ ii. \] the number of hectares to be cultivated for seed or viable grain and the number of hectares to be cultivated for fibre,

\[ iii. \] the number of hectares cultivated for industrial hemp, at each site, in each of the previous two years,

\[ iv. \] the Global Positioning System coordinates to situate each site to be cultivated and a map showing the location of the site in terms of its legal description,

\[ v. \] if any part of the site is to be cultivated for seed or viable grain, the Global Positioning System coordinates to situate that part of the site, and an indication on the map of its location within the site,

Issuance:

Sec. 9. (1) Subject to subsection (2), the Minister shall, on receipt of an application containing the information and documents required under section 8, issue a licence or authorization that sets out the following:

\[ a. \] the licence or authorization number;

\[ b. \] the name of the person to whom the licence or authorization is issued;

1. delta-9-tetrahydrocannabinol

THERAPEUTIC PRODUCTS PROGRAMME

REPORTING OF RESULTS OF DELTA-9 THC TESTING OF INDUSTRIAL HEMP CROP

It is a requirement under Section 16 of the Industrial Hemp Regulations that a person who holds a licence to cultivate industrial hemp shall, in order to determine the concentration of THC in the hemp,

a. have samples of the industrial hemp collected in accordance with the methods set out in the Manual; and

b. have the samples tested at a competent laboratory using analytical procedures set out in the Manual.

and that the results of each laboratory test shall be submitted to the Minister within 15 days after the test, together with the name of the approved cultivar to which the test relates.

Since the cultivation licence holder is the person responsible for the crop, the test results should be submitted by the licencee or by someone acting under the direction or control of the person who holds the licence.

The original of the laboratory report is to be held at the place in Canada where the applicant will keep the records, books, electronic data or other documents that are required by these Regulations to be kept.

A copy of the laboratory report of the results of each laboratory test must be mailed or faxed to the Bureau of Drug Surveillance (613) 941-5360. The report must be accompanied by a separate completed THC Test Result Report - Cultivation form for each licence holder. Use of the form will ensure consistent information collection from all licence holders and will facilitate Health Canada's database entry and review of test results.

Although reports containing test results from multiple licence holders, make comparisons easier, individual reports are required. Privacy considerations do not allow for reports where results, for more than one licence holder, are reported on the same document, since this would require cross-filing of protected information.

It is important that the THC test results are submitted within the specified time frames, especially since the 1998 results will affect the selection of cultivars for the 1999 growing season.
Please be reminded that Section 9 (3) of the *Industrial Hemp Regulations* states that the Minister may refuse to issue a licence or authorization if the applicant has not complied with any provision of these Regulations or any condition set out in a previous licence or authorization.

---

**THERAPEUTIC PRODUCTS PROGRAMME**

**THC TEST RESULT REPORT - CULTIVATION**

| Name of Cultivation Licence Holder: | File Number: |
| Name of Authorized Sampler: | Name of Licensed THC Testing Laboratory: |

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<th>THC Test Result</th>
<th>Date Planted</th>
<th>Date Sampled</th>
<th>Laboratory Test Report Date</th>
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</table>

**COMMENTS:**
Signature: ___________ 
Licence holder or authorized person acting under the direction or control of the licence holder

Date: ___________

December 1998

Niels Hansen-Trip:
Hemp_BdsTpd@hc-sc.gc.ca
TEL: (613) 954-6524, FAX: (613) 941-5360

http://www.hc-sc.gc.ca/hpb-dgps/therapeut/zfiles/english/hemp/rep-thc_e.htm
INDUSTRIAL HEMP GUIDE

INDUSTRIAL HEMP APPLICATION

Please read carefully. Incomplete or illegible applications cannot be processed and will be returned.

Effective as of: November 15, 1998

INDUSTRIAL HEMP APPLICATION GUIDE

<table>
<thead>
<tr>
<th>SCHEDULE SPECIFIC REGULATORY REFERENCES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial Hemp Regulations</td>
</tr>
</tbody>
</table>

A. BACKGROUND

1. All persons wishing to apply for licences, authorizations or permits should read the Therapeutic Products Programme (TPP) *Industrial Hemp Guide - Overview*. It provides the necessary background for applicants to make it easier to understand and comply with the Regulations.

Section 4 of the Overview need to be understood by the applicant.

3. To be eligible to hold a licence, permit, or authorization, a person must be a resident of Canada. At least one of the partners in the case of a partnership, or, if the person is a corporation or cooperative, must have its head office in Canada or operate a branch office in Canada.

4. The application form is one provided by Health Canada. A hard copy of the form, with original signatures, must be submitted to the Bureau of Drugs Surveillance. See Appendix II for details.

   ■ The form must be completed, by persons making application for a licence, permit, authorization, with details on each activity to be regulated.

   ■ Persons are encouraged to consolidate all of their information on sites, activities and personnel in one application package using multiple Schedules as necessary. Sites may be in different locations. This should lead to administrative efficiencies for both the applicant and the Therapeutic Products Programme.

For example, a person who wishes to cultivate industrial hemp on two different farms would complete the Industrial Hemp Application plus 2 of the Schedule 1 (Cultivation) forms.

5. Licences are issued to persons to perform specified activities at one site. One licence number will be issued for each location although multiple activities may be approved for that site.

   ■ Application should be made well in advance of commencing the activity, unless excluded by Regulations, to provide the authorities with enough time to evaluate, issue, or refuse to issue licences, permits and authorizations for the activity. Incomplete applications will not be processed. They will be returned to the applicant for completion.

   ■ The applications will be processed in the order received. Exceptions will be made in those cases where the activity, such as importing, will be essential to other applicants.

6. Table I, Appendix III, has been provided as a quick reference of the requirements. To ensure an expedited review of your application, complete all the sections on the Application Form and Schedules that apply.

7. Originals are necessary when signatures are required on the application form and on attachments such as the police records check. For example, faxed applications would be considered incomplete without originals. You may fax advance copies to initiate the review process. However, licences will not be issued until the originals are received. Fax applications that are found to be incomplete will also be returned to the applicant.

8. The information that is required with the licence application will be entered into the Industrial Hemp Licence System (IHLS) database in order to generate the official licence, permits and related documents. It is important to ensure that all the relevant information and
attachments are submitted. Incomplete or illegible applications will not be processed, but will be returned to the applicant. This includes forms which have lost the printed Health Canada instructions by repeated reproduction.

B. WHO MUST HAVE A LICENCE:

An industrial hemp licence or authorization is required for all persons in Canada engaged in any of the following activities related to the production of industrial hemp: importation, exportation, possession, production, sale, provision, transport, sending, delivering, and offering for sale of industrial hemp.

This form is not to be used by persons who wish to perform sampling for THC testing, to conduct THC testing or to conduct research under the Narcotic Control Regulations.

C. FORMS TO BE COMPLETED:

1. Industrial Hemp Licence Application
2. Schedule 6 - if the applicant is a Corporation, Cooperative or Partnership
3. Multiple Schedules as necessary

D. COMPLETING THE INDUSTRIAL HEMP APPLICATION FORM:

1. a. Indicate if a licence or authorization was held previously under the Industrial Hemp Regulations. Please note this does not include research licences. 1998 was the first year that could apply to commercial licences.

   b. Provide a File Number if you have one, if not, leave this space blank.

   c. Indicate if the application is on behalf of an individual, corporation, cooperative or partnership.

   d. If the applicant is an individual, go to the Applicant or Company Contact Information section.

   e. If the applicant is not an individual, see the Schedule 6 Guide for more details before continuing.

2. Corporation, Cooperative or Partnership Information:

   a. If the applicant seeking the licence is not an individual, provide the registered name.

   b. Leave the mailing address blank unless it is different from the one below in the Applicant or Company Contact Information section. That address is where correspondence and the licence/authorization/permit are to be sent.

3. Applicant or Company Contact Information:

http://www.hc-sc.gc.ca/hpb-dgps/therapeut/zfiles/english/hemp/applgui_e.html

5/21/2002
a. Provide the surname, given names, date of birth and sex of the contact person.

b. Provide the mailing address. This is the address where correspondence and the licence, authorization, and permit are to be sent.

c. Provide the contact person's telephone number, fax number, and e-mail address, if available.

d. Indicate the language of choice (English/ French) for correspondence and licensing.

4. Information on Officers, Directors and/or Partners:

a. If the applicant is not an individual, read the Schedule 6 Guide and complete Schedule 6.

5. Police Security Document (Criminal Record Check)

a. Sections 8(m) and 8(n) of the Regulations require that to obtain a licence or authorization for the exportation, possession, production, sale, provision, transport, sending, delivering, and offering for sale of industrial hemp applicants must provide data on previous drug convictions.

b. No licence or authorization will be issued unless the original of a current police security check document has been received.

This document, issued by a Canadian police force, must set out for the previous 10 years any criminal record in respect of any designated drug offences, or indicate that the person has no such record. This applies to each officer, director or partner where the applicant is a corporation, cooperative or partnership.

c. Any officer, director or partner who ordinarily resides in a country other than Canada, must also provide a document issued by a police force of that country that sets out for the previous 10 years any criminal record that would be considered a designated drug offence if committed in Canada, or indicating that the person has no such record.

d. Please note that a conviction in the last 10 years, for a "designated drug offence" as defined below, makes an applicant ineligible as a licence or authorization holder and the Licence will be refused.

- "designated drug offence" means

  i. an offence against section 39, 44.2, 44.3, 48, 50.2 or 50.3 of the *Food and Drugs Act*, as those provisions read immediately before May 14, 1997;

  ii. an offence against section 4, 5, 6, 19.1 or 19.2 of the *Narcotic Control Act*, as those provisions read immediately before May 14, 1997;

  iii. an offence under Part I of the Act, except subsection 4(1); and
iv. a conspiracy, or an attempt to commit, being an accessory after the fact in relation to, or any counselling in relation to an offence referred to in paragraphs (a) to (c).

v. The security check document may be forwarded directly by the police service

6. Activity for Which Appropriate Schedules Must be Attached

a. Indicate all activities for which you wish to be licensed.

b. The appropriate Schedule covering these activities must also be completed.

c. See the Schedule specific guides for more details.

7. Application Certification

a. This section must be signed. The applicant certifies to having read the security requirements in the Regulations and makes a commitment that if these requirements are not currently met, they will be met before commencing any activity permitted by the licence.

b. Where the applicant is a corporation, cooperative, or partnership, the person signing the application must possess the authority to bind the applicant.

c. The applicant is aware that, with respect to the application, the provisions of the Privacy Act apply. Health Canada may request information from others about the application and may provide them with information about the application and applicants. However, an applicant has the right to review data maintained about them and have misinformation corrected.

d. The application must be signed by the applicant or, in the case of a corporation, cooperative or partnership, a person having the authority to bind the legal entity (officer, director or partner).

e. The title of the person signing the application must be included if it is made on behalf of a corporation, cooperative or partnership.

f. A signature on this form applies to the complete application package unless stated otherwise in the application.

E. SUBMISSION TO HEALTH CANADA:

1. The Industrial Hemp Application form submitted to Health Canada must bear an original signature. A faxed or photocopied form will be considered incomplete and will be returned to the applicant.

2. In the case of a corporation, cooperative or partnership, Schedule 6 must also be submitted.

3. At least one Schedule in addition to Schedule 6 must be included.

4. Other documents which are required to satisfy the requirements of the Industrial Hemp Licence Application. For example, copies of certificates required as evidence of qualification.
INDUSTRIAL HEMP GUIDE

SCHEDULE 4

PROCESSING

SCHEDULE 4

INDUSTRIAL HEMP GUIDE - PROCESSING

<table>
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<tr>
<td>Industrial Hemp Regulations</td>
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<tr>
<td>Seeds Regulations</td>
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A. BACKGROUND:

These guidelines state generally applicable principles and practices that are acceptable to the Therapeutic Products Programme (TPP) and that should facilitate compliance with the Industrial Hemp Regulations.
1. All persons wishing to apply for licences, authorizations or permits should read the
Therapeutic Products Programme (TPP) Industrial Hemp Guide - Overview. It provides the
necessary background on the Regulations to make it easier for applicants to comply with the
Regulations.

2. The definitions contained in the Regulations in Appendix I and the explanations in the
Glossary of Terms in Section 4 of the Overview must be well understood by the applicant.

3. To be eligible to hold a licence, permit, or authorization, a person must be a resident of
Canada. At least one of the partners in the case of a partnership, or, if the person is a
corporation or cooperative, must have its head office in Canada or operate a branch office in
Canada.

   a. Processors
      - Definition: "Process", in respect of seed, viable grain or non-viable cannabis seed,
        includes conditioning it, pressing it, or, in the case of seed or viable grain,
        rendering it non-viable.
      - Licences are required for processing activities, such as pressing seeds or grain into
        oil. The maintenance of a clear audit trail is also required.
      - Special requirements apply if the processing is for cleaning and/or conditioning.
        See Schedule 4 for more details.

B. WHO MUST HAVE A LICENCE:

All persons wishing to process industrial hemp must apply for a licence.

C. FORMS TO BE COMPLETED:

1. Industrial Hemp Licence Application
2. Schedule 6 - if the applicant is a Corporation, Cooperative or Partnership
3. Schedule 4

D. COMPLETING THE SCHEDULE 4 FORM:

An applicant who does not own or operate an establishment registered under Part IV of the Seeds
Regulations that will condition or prepare, as the case may be, the seed or viable grain, cannot be
licensed for this activity.

1. Applicant Information:
   a. Provide the surname and given names if the applicant is an individual.
   b. Provide the Registered name if the applicant is a Corporation, Cooperative or
Partnership.

c. The name given on the Industrial Hemp Licence Application is to be used here.

d. Provide the complete legal description of the site to be licensed. A Post Office Box is not acceptable as a Post Office Box cannot be licensed.

Legal Description: There are several ways used to provide a legal description of the location to be licensed. Systems will vary from Province to Province and even within a Province. For example, the legal description for a cultivation site in Ontario may be:

North ½ of Lot 9, Concession II, Township of Goulburn, County of Carleton

Only in New Brunswick it is the 911 number, which is the accepted "legal description" in that province.

e. Provide the address at which the records, books, electronic data or other documents required by the Regulations will be kept. If the records are kept at a place other than the licensed site, the licence holder must make them available for inspection as necessary.

• A Post Office Box is not acceptable here. Records cannot be stored in a Post Office Box.

• List the complete address at which Industrial hemp will be stored only and no other activity requiring a licence will take place.

Note: As it is illegal to store industrial hemp at an unlicensed location all such locations must be listed. If, however, sale or distribution is to take place at a location it should not be listed here since that site must be licensed for that activity.

f. List all forms in which the industrial hemp will be stored.

g. Enclose a copy of the operator's licence issued under Section 96 of Part IV of the Seeds Regulations.

h. Enclose a copy of the Certificate of Registration issued for the establishment under Part IV of the Seeds Regulations.

i. Provide the surname and given names, date of birth, sex, and the position within the organization, of the licensed operator.

j. Indicate the activity for which a licence is requested.

2. About the Processing:

a. Indicate all forms in which the industrial hemp is to be processed.

Example: If the applicant anticipates processing both seed and oil, then both should be checked on the application.
b. List all forms in which the industrial hemp will be stored.

3. Licence to Process Industrial Hemp Certification

a. Provide the name, title and telephone number of the Person Responsible for ensuring compliance with the Regulations.

b. In the case of a corporation, cooperative or partnership, the name provided must be of a person who has the authority to bind the company. This is usually a Director or officer.

c. This is to be signed by the person signing the Industrial Hemp Licence Application, who may or may not be the person certifying, above.

E. SUBMISSION TO HEALTH CANADA:

1. The Schedule 1 form submitted to Health Canada must bear an original signature. A faxed or photocopied form will be considered incomplete and will be returned to the applicant.

2. In the case of a corporation, cooperative or partnership, a completed Schedule 6 must also be submitted.

3. Include a completed Schedule 4 form.

4. Attach other documents which are required by the Industrial Hemp Licence Application.

F. RECORDS TO BE KEPT A MINIMUM 2 YEARS INCLUDE:

1. Form and quantity in which industrial hemp purchased or sold.

2. Variety of industrial hemp cultivar purchased and sold.

3. Quantity and source of seed or viable grain of each approved cultivar imported.

4. Name of person to whom seed or grain is delivered.

5. Other information as outlined in the Regulations 38(1)

G. POINTS TO BE CONSIDERED BY PROCESSORS:

1. Licensee must ensure compliance.

2. Sampling must be done by authorized sampler.

3. THC testing may be required by regulation, or as a condition of licensing. (Identify these requirements early to avoid problems. Requirements may be posted on the web and supplied as attachments to your Industrial Hemp Licence)
4. You must clean processing and handling equipment thoroughly.

5. You must provide adequate security.


7. You must ensure that both transportation and storage are secure.

8. You must purchase seed or viable grain from licensed seed supplier.

9. You must only provide Industrial Hemp to licensed parties.

10. You must carry out these activities at licensed location only.

The requirement for a person or company to be a registered establishment under Part IV of the Seeds Regulations for purposes of conditioning seed or importing seed under the Industrial Hemp Regulations, is explained below:

There are three types of establishment registrations under the Seeds Regulations as referred to in Section 96 and defined in Section 78 of those regulations:

1. Authorized Importer (AI)
   - "authorized importer" means an establishment that prepares imported seed and in respect of which a registration as an authorized importer is in force;

2. Approved Conditioner (AC)
   - "approved conditioner" means an establishment that prepares seed of pedigreed status and in respect of which a registration as an approved conditioner is in force;

3. Bulk Storage Facility (BSF)
   - "bulk storage facility" means an establishment that stores in bulk seed graded with a Canada pedigreed grade name and in respect of which a registration as a bulk storage facility is in force;

There is a requirement under the Industrial Hemp Regulations that a copy of the Certificate of Registration, issued under Part IV of the Seeds Regulations for the establishment at which the conditioning or seed preparation will take place, is submitted with applications to import or condition seed or viable grain. This requirement refers to the appropriate registration for the applicable activity.

Section 8(h)(ii)

- "if the application is for conditioning seed or viable grain, a copy of the Certificate of Registration issued under Part IV of the Seeds Regulations for the establishment at which the conditioning will take place;" and

Section 8(i))
• "in the case of an importer of seed or viable grain, a copy of the Certificate of Registration issued under Part IV of the Seeds Regulations for the establishment at which the imported seed or viable grain will be prepared, and the address of that establishment;"

Therefore, a person or company wishing to **condition** seed under sub-section 8(h)(ii) must be registered as an **Approved Conditioner**. Registration as an **Authorized Importer** or **Bulk Storage Facility** does not fulfill this requirement. A person or company wishing to **import** seed under sub-section 8(i) must be registered as an **Authorized Importer**. Registration as an **Approved Conditioner** or **Bulk Storage Facility** does not fulfill this requirement.

In both cases, the operator must also have the applicable licence from the Canadian Food Inspection Agency (CFIA) covering operation of the registered establishment for the specified purpose.

If you wish to import seed and do not fulfill the prerequisite condition for registration as an **Authorized Importer**, or **Approved Conditioner** you may wish to contact your local inspection office for the Canadian Food Inspection Agency, or the Registrar, Registered Seed Establishments at (613) 225-2342 for guidance as to how you may become a Registered Establishment of the applicable kind, or you can make arrangements with a company that is an **Approved Conditioner** or **Authorized Importer** to have them apply for an Industrial Hemp Licence for the appropriate activity and handle this activity on your behalf.

**LICENCE TO PROCESS INDUSTRIAL HEMP**

This schedule is to be completed by those intending to process Industrial Hemp.

*Applicant Information*

The surname and given names of the applicant must be on this Schedule.

- The complete legal description of the site being licensed must be provided.
- The address at which the records, books, electronic data or other documents required by the Regulations will be kept must be provided.

*About the Processing*

- All forms of industrial hemp which will be processed must be indicated. If applicant intends to process non-viable Cannabis seed to produce oil or seed cake, an authorization is required. Thus, this activity should be indicated, if applicable.
- The activities for which a licence is being requested are to be indicated. If two activities are contemplated, then check both.
- If the conditioning of seed or viable grain is to be licensed, the applicant must attach a copy of the Certificate of Registration issued under Part IV of the Seeds Regulations for establishments must be attached.
- If requesting licensing as a conditioner then a copy of the operator's licence issued under Section 96 of Part IV of the Seeds Regulations must be attached.
• If requesting licensing as a conditioner then the complete name of the Licensed Operator must be provided.

• The complete address at which Industrial hemp will be stored only is to be listed. As it is illegal to store at an unlicensed location all such locations must be listed. However, if processing is to take place at a location then it is not to be listed here. In this latter case a separate Schedule 4 must be completed.

Certification

• The name of the person responsible for ensuring compliance with the Regulations, the title of this person within the organization and his/her telephone number must be provided.

• The person responsible for ensuring compliance with the Regulations must sign the application.
**Regulations on Industrial Hemp**

For help or more information on Hemp, contact:
Niels Hansen-Trip
Industrial Hemp Regulation Programme
Bureau of Drug Surveillance, Therapeutic Products Programme
Health Protection Branch
Finance Building, Address Locator: 0201D3
Tunney's Pasture, Ottawa, Ontario, Canada, K1A 1B9
Tel: (613) 954-6524
FAX: (613) 941-5360
e-mail: Hemp_BdsTpd@hc-sc.gc.ca

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<tr>
<td><strong>Contact Name:</strong> Niels Hansen-Trip, (613) 954-6524, FAX: (613) 941-5360</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>List of Individuals Licensed for Exportation</th>
<th>rev. September 1999</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filename: list_exportation_e</td>
<td>6K 5K</td>
</tr>
<tr>
<td><strong>Contact Name:</strong> Niels Hansen-Trip, (613) 954-6524, FAX: (613) 941-5360</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>List of Individuals Licensed for Importation</th>
<th>September 1999</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filename: list_importation_e</td>
<td>4K 3K</td>
</tr>
<tr>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>List of Licensed Processors(Conditioning)</th>
<th>September 1999</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filename: list_proc_conditioning_e</td>
<td>4K 3K</td>
</tr>
<tr>
<td><strong>Contact Name:</strong> Niels Hansen-Trip, (613) 954-6524, FAX: (613) 941-5360</td>
<td></td>
</tr>
</tbody>
</table>
INDUSTRIAL HEMP GUIDE

SCHEDULE 5

DISTRIBUTOR

Effective as of: November 15, 1998

SCHEDULE 5

INDUSTRIAL HEMP GUIDE - DISTRIBUTION

<table>
<thead>
<tr>
<th>SCHEDULE SPECIFIC REGULATORY REFERENCES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial Hemp Regulations</td>
</tr>
<tr>
<td>Specific Sections 2, 3, 5, 8, 9, and 32.</td>
</tr>
</tbody>
</table>

A. BACKGROUND:

These guidelines state generally applicable principles and practices that are acceptable to the Therapeutic Products Programme (TPP) and that should facilitate compliance with the *Industrial Hemp Regulations*

1. All persons wishing to apply for licences, authorizations or permits should read the *Therapeutic Products Programme (TPP) Industrial Hemp Guide - Overview*. It provides the
necessary background to make it easier for applicants to comply with the Regulations.

2. The definitions contained in the Industrial Hemp Guide Overview in Appendix I and the explanations in the Glossary of Terms in Section 4 of the Overview must be well understood by the applicant.

3. To be eligible to hold a licence, permit, or authorization, a person must be a resident of Canada. A Partnership, a Corporation or Cooperative, must have its head office in Canada or operate a branch office in Canada.

4. Importers of industrial hemp, in the form of seed or viable grain, must be licensed. In addition to holding a licence they are also required to obtain a permit for each shipment. See Schedule 2 and its Guide for further instructions.

5. Persons are not permitted to import, sell, or produce any derivative without a licence unless a representative sample of the derivative or product has been tested by a competent laboratory, contains 10 g/g or less THC and is labelled accordingly. Products made from a derivative of whole plants, including sprouts, leaves, flowers or bracts of industrial hemp are not permitted to be imported or sold.

B. WHO MUST HAVE A LICENCE:

All persons wishing to sell, provide, transport, send and deliver industrial hemp must apply for a licence.

C. FORMS TO BE COMPLETED:

1. Industrial hemp licence application.

2. Schedule 5.

3. Schedule 6 - if the applicant is a Corporation, Cooperative or Partnership.

D. COMPLETING THE SCHEDULE 5 FORM:

1. Applicant Information:
   a. Provide the surname and given names if the applicant is an individual.
   b. Provide the Registered name if the applicant is a Corporation, Cooperative or Partnership.
   c. The same name used on the Industrial Hemp Licence Application is to be used here.
   d. Provide the complete legal description of the site to be licensed. A Post Office Box is not acceptable, as a post office box cannot be licensed.

   **Legal Description:** There are several ways used to provide a legal description of the
location to be licensed. Systems will vary from Province to Province and even within a Province. For example, the legal description for a cultivation site in Ontario may be:

North ½ of Lot 9
Concession II
Township of Goulburn
County of Carleton

Only in New Brunswick is the 911 number acceptable, which is the accepted "legal description" in that province.

e. Provide the address at which the records, books, electronic data or other documents required by the Regulations will be kept. If the records are kept at a place other than the licensed site, the licence holder must make them available for inspection as necessary.

- A Post Office Box is not acceptable. You cannot store records in a post office box.

- List the complete address at which industrial hemp will be stored only. Under this provision, no other activity requiring a licence may take place. The address must be clear enough to enable someone to find the property without difficulty.

2. Licence to Distribute Industrial Hemp - Certification

a. Provide the name, title and telephone number of the person responsible for ensuring compliance with the Regulations.

b. The individual signing the Certification on the Schedule 5 should be the same individual signing the Industrial Hemp Licence Application, except in the case of a Corporation, Cooperative or Partnership. In the case of a Corporation, Cooperative or Partnership, the name provided for the Certification on the Industrial Hemp Licence Application must be a person who has the authority to bind the company. This is usually a Director or officer.

c. Consent for Publication of Company Name:

- If consent is given, the company Name, Address, Phone Number, Fax Number, e-mail address and the activity for which the company is licensed, may be published by Health Canada. Publication may include, but is not limited to, posting on the Therapeutic Products Programme's website (www.hc-sc.gc.ca/hpb-dgps/therapeut).

E. SUBMISSION TO HEALTH CANADA:

1. The Schedule 5 form submitted to Health Canada must bear an original signature. A faxed or photocopied form will be considered incomplete and will be returned to the applicant.

2. In the case of a Corporation, Cooperative or Partnership, a completed Schedule 6 must also be attached.

3. Include all other documents which are required to satisfy the requirements of the Industrial
Hemp Licence Application.

F. RECORDS TO BE KEPT A MINIMUM OF 2 YEARS, INCLUDE:

1. Form and quantity in which industrial hemp is purchased or sold.

2. Variety of industrial hemp cultivar purchased, sold and distributed.

3. The name of the person to whom seed or viable grain of each approved cultivar is delivered (distributed) and the quantity of each shipment.

4. A reference to the identifying mark contained on each package of a shipment. See section 32(1) of the Industrial Hemp Regulations.

5. The date that each shipment of industrial hemp was received and sent.

6. The carrier, if any, that is used to deliver the industrial hemp.

G. POINTS TO BE CONSIDERED BY LICENSED DISTRIBUTOR:

1. You must ensure compliance with the Regulations.

2. You must provide adequate security.


4. You must ensure transportation and storage are secure.

5. THC testing may be required by the Regulations, or as a condition of licensing. (Identify these requirements early to avoid problems. Requirements may be posted on the website and supplied as attachments to your Industrial Hemp Licence.)

6. You must purchase industrial hemp from a licensed seed supplier.

7. You must only provide Industrial Hemp to licensed or authorized parties.

8. You must carry out the activities at a licensed location only.

9. You must have sampling performed by authorized samplers.
# INDUSTRIAL HEMP LICENCE APPLICATION

### 1. CORPORATION, COOPERATIVE OR PARTNERSHIP INFORMATION (if applicable)

<table>
<thead>
<tr>
<th>Corporation</th>
<th>Cooperative</th>
<th>Partnership</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
</tbody>
</table>

**File #**

### 2. APPLICANT OR COMPANY CONTACT INFORMATION

<table>
<thead>
<tr>
<th>Registered Name (if not an individual)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mailing Address (if different from contact information below)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mr. O Mrs. O Ms. O Miss</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surname</td>
</tr>
<tr>
<td>Date of Birth</td>
</tr>
<tr>
<td>Day / Month / Year</td>
</tr>
<tr>
<td>First Given Name</td>
</tr>
<tr>
<td>Second Given Name</td>
</tr>
<tr>
<td>Indicate Sex</td>
</tr>
<tr>
<td>O Male O Female</td>
</tr>
<tr>
<td>Mailing Address</td>
</tr>
<tr>
<td>Telephone Number Ext.</td>
</tr>
<tr>
<td>City/Town</td>
</tr>
<tr>
<td>P.O. Box</td>
</tr>
<tr>
<td>Facsimile Number</td>
</tr>
<tr>
<td>Province</td>
</tr>
<tr>
<td>Postal Code</td>
</tr>
<tr>
<td>Language Preference</td>
</tr>
<tr>
<td>O English O French</td>
</tr>
<tr>
<td>Electronic Mail Address (if applicable)</td>
</tr>
</tbody>
</table>

### 3. POLICE CRIMINAL RECORD CHECK

- Police Criminal Record Document
  - O Original is attached
  - O Being forwarded directly by Police by fax and/or mail

### 4. ACTIVITY FOR WHICH APPROPRIATE SCHEDULES MUST BE ATTACHED

- Check below all that apply and complete application form for each activity
  - O Cultivation (Schedule 1)
  - O Import (Schedule 2)
  - O Export (Schedule 3)
  - O Processing (Schedule 4)
  - O Distributor (Schedule 5)
  - O Information on Officers, Directors and/or Partners (Schedule 6)
  - O Breeder Licence (Schedule 7)
  - O Viability Testing Lab (Schedule 8)
  - O Possession (Schedule 9)
  - O Derivative (Schedule 10)

### 5. APPLICATION CERTIFICATION

I hereby certify that I have read the security requirements required by the Regulations and these requirements are met, or will be met before I commence any activity associated with any licence issued to me.

Where applicant is a corporation, cooperative, or partnership, I have authority to bind the applicant.

The information provided in this form is collected under the provisions of the Privacy Act and you may be given access to, request correction of, or have a notation attached to information about yourself. For more information, consult *Info Source*.

Name and Title of person signing on behalf of corporation, cooperative or partnership

Signature - Applicant, or person having authority to bind applicant

Date

### 6. ADMINISTRATION USE ONLY

<table>
<thead>
<tr>
<th>Date Received</th>
<th>Record ID</th>
<th>File Number</th>
</tr>
</thead>
</table>

HC/SC 1089 - A E (11-98)
## SCHEDULE 1

### LICENCE TO CULTIVATE INDUSTRIAL HEMP

*Industrial Hemp Licence Application must also be submitted.*

### 1. APPLICANT INFORMATION

<table>
<thead>
<tr>
<th>Surname (if an individual)</th>
<th>First Given Name</th>
<th>Second Given Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registered Name (if not an individual)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Legal description of the site being licensed</th>
<th>(P.O. box not acceptable see Guide)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Address</th>
<th>City/Town</th>
<th>Province</th>
<th>Postal Code</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Address at which the applicant will keep the records, books, electronic data or other documents required by the Regulations</th>
<th>(P.O. box not acceptable see Guide)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Address</th>
<th>City/Town</th>
<th>Province</th>
<th>Postal Code</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Address at which the applicant will store only industrial hemp. (P.O. box not acceptable)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Address</th>
<th>City/Town</th>
<th>Province</th>
<th>Postal Code</th>
</tr>
</thead>
</table>

### 2. ABOUT THE CULTIVATION

Form for which the industrial hemp is to be cultivated:  
- O Seed for Sowing  
- O Grain  
- O Fibre

If cultivating for seed, attach a copy of the Proof of Membership in the Canadian Seed Growers Association.

Land on which the industrial Hemp is to be cultivated:  
- O owned by applicant  
- O owned by

(Append statement indicating the owner's consent.)

The name of each approved cultivar to be sown must be listed (See Guide)

<table>
<thead>
<tr>
<th>Approved Cultivar</th>
<th>Hectares for Seed for Sowing</th>
<th>Hectares for Fibre</th>
<th>Hectares for Viable Grain</th>
<th>Total # of Hectares</th>
</tr>
</thead>
</table>

ATTACH ADDITIONAL PAGES, IF REQUIRED

A map must be included situating any part of the site cultivated for seed, viable grain, or fibre, and indicating on the map its location within the site. GPS Coordinates must be given.

### 3. LICENCE TO CULTIVATE INDUSTRIAL HEMP - CERTIFICATION

Name of the Person Responsible for ensuring compliance with the Regulations

Title

Telephone #:  

Fax:  

---

http://www.hc-sc.gc.ca/hpb-dgps/therapeut/zfiles/english/hemp/he9041_e.html  
5/21/2002
# SCHEDULE 4

## LICENCE TO PROCESS INDUSTRIAL HEMP

*Industrial Hemp Licence Application must also be submitted*

## 1. APPLICANT INFORMATION

<table>
<thead>
<tr>
<th>Registered Name, (if not an individual)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Surname</td>
<td>First Given Name</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Legal description of the site being licensed. | (P.O. Box not acceptable, see Guide) |  |

<table>
<thead>
<tr>
<th>Address</th>
<th>City/Town</th>
<th>Province</th>
<th>Postal Code</th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

**Indicate the address at which the applicant will keep the records, books, electronic data or other documents required by the regulations**

<table>
<thead>
<tr>
<th>Address</th>
<th>City/Town</th>
<th>Province</th>
<th>Postal Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

## 2. ABOUT THE PROCESSING

**Indicate the form in which the industrial hemp is to be processed.** *(See definition of Seed and Grain in Guide)*

- O Seed for sowing
- O Grain (viable)
- O Grain (non-viable)
- O To produce

**Indicate the activity being licensed.**

- O Cleaning only
- O Conditioning
- O Pressing for Oil
- O Rendering non-viable

**If cleaning or conditioning seed for sowing, or viable grain:** *(See Guide)*

A copy of the Certificate of Registration issued under Part IV of the *Seeds Regulations* must be enclosed.

A copy of the operator's licence issued under Section 96 Part IV of the *Seeds Regulations* must be attached.

If an Approved Conditioner, indicate the name of the Licensed Operator.

<table>
<thead>
<tr>
<th>Surname</th>
<th>First Given Name</th>
<th>Second Given Name</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

**List each address where the industrial hemp will be stored and no other activity requiring a licence will take place.** *(P.O. Box not acceptable, see Guide)*

<table>
<thead>
<tr>
<th>Activity</th>
<th>Address</th>
<th>City/Town</th>
<th>Province</th>
<th>Postal Code</th>
<th></th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

## 3. LICENCE TO PROCESS INDUSTRIAL HEMP - CERTIFICATION

**Name of the Person or Licensed Operator responsible for ensuring compliance with the Regulations.**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Telephone #</th>
<th>Ext.</th>
<th></th>
<th></th>
</tr>
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<tbody>
<tr>
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</table>

**Signature - Person responsible for ensuring compliance with the Regulations**

Date

HC/SC 1089 - 4 E (11-98)
SCHEDULE 5

SITE LICENCE TO SELL OR PROVIDE INDUSTRIAL HEMP

Industrial Hemp Licence Application must also be submitted.

**1. APPLICANT INFORMATION**

<table>
<thead>
<tr>
<th>Surname</th>
<th>First Given Name</th>
<th>Second Given Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Legal description of the site being licensed: (P.O. Box not acceptable, see Guide)

<table>
<thead>
<tr>
<th>Address</th>
<th>City/Town</th>
<th>Province</th>
<th>Postal Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

Indicate the address at which the applicant will keep the records, books, electronic data or other documents required by the Regulations. (P.O. Box not acceptable, see Guide)

<table>
<thead>
<tr>
<th>Address</th>
<th>City/Town</th>
<th>Province</th>
<th>Postal Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

List each address where the industrial hemp will be stored and no other activity requiring a licence will take place. (P.O. Box not acceptable, see Guide)

<table>
<thead>
<tr>
<th>Activity</th>
<th>Address</th>
<th>City/Town</th>
<th>Province</th>
<th>Postal Code</th>
<th>Form of Industrial Hemp stored at this Address</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**2. LICENCE TO SELL OR PROVIDE INDUSTRIAL HEMP — CERTIFICATE**

Name of person responsible for ensuring compliance with the Regulations.

Title

Telephone #

| ) |

Signature - Person responsible for ensuring compliance with the Regulations. Date

HC/SC 1089 - 5 E (11-98)
**SCHEDULE 9**

**AUTHORIZATION TO POSSESS INDUSTRIAL HEMP**

*Industrial Hemp Licence Application must also be submitted.*

*Schedule 6 must be submitted, if applicant is not an individual.*

*This Schedule does not apply to viability testing or delta 9-tetrahydrocannabinol testing.*

---

**1. CONTACT PERSON INFORMATION**

<table>
<thead>
<tr>
<th>Registered Name (if not an individual)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Contact Person</td>
<td>Title</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Address</td>
<td>City/Town</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Indicate the address at which the applicant will keep the records, books, electronic data or other documents required by the Regulation. A Post Office Box is not acceptable for this purpose.

| Address                              | City/Town | Province | Postal Code |
|                                      |           |          |             |

Description of Activity to be Authorized:

---

**2. AUTHORIZATION TO POSSESS INDUSTRIAL HEMP - CERTIFICATION**

Name of Person responsible for ensuring compliance with the Regulations:  

<table>
<thead>
<tr>
<th>Title</th>
<th>Telephone #</th>
<th>Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Signature - Person responsible for ensuring compliance with the Regulations  

Date

---

**3. CONSENT FOR PUBLICATION OF COMPANY NAME**

I consent to the inclusion of my name, the company name, e-mail and postal addresses, telephone and facsimile numbers on a list to be published by Health Canada to inform the industrial hemp industry of my authorization.

<table>
<thead>
<tr>
<th>O Yes</th>
<th>O No</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Signature
SCHEDULE 10

LICENCE TO PRODUCE INDUSTRIAL HEMP DERIVATIVES AND PRODUCTS

Industrial Hemp Licence Application must also be submitted.

Schedule 6 must be submitted, if applicant is not an individual.

*PROTECTED*

1. CONTACT PERSON INFORMATION

<table>
<thead>
<tr>
<th>Registered Name (if not an individual)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Contact Person</td>
</tr>
<tr>
<td>Title</td>
</tr>
<tr>
<td>Telephone #</td>
</tr>
<tr>
<td>Ext.</td>
</tr>
<tr>
<td>Address</td>
</tr>
<tr>
<td>City/Town</td>
</tr>
<tr>
<td>Province</td>
</tr>
<tr>
<td>Postal Code</td>
</tr>
</tbody>
</table>

Indicate the address at which the applicant will keep the records, books, electronic data or other documents required by the Regulation. A Post Office Box is not acceptable for this purpose.

| Address                                   |
| City/Town                                 |
| Province                                  |
| Postal Code                               |

Detailed Description of Activity to be Licensed:

*Attach additional pages, if required*

2. LICENCE TO PRODUCE DERIVATIVES - CERTIFICATION

| Name of Person responsible for ensuring compliance with the Regulations: |
| Title                     |
| Telephone #               |
| Ext.                      |

Signature - Person responsible for ensuring compliance with the Regulations Date

3. CONSENT FOR PUBLICATION OF COMPANY NAME

If consent to the inclusion of my name, the company name, e-mail and postal addresses, telephone and facsimile numbers on a list to be published by Health Canada to inform the industrial hemp industry of my authorization.

O Yes  O No

Signature
Charles P. Versechagin have received 50 hemp stalks from John Kloberdanz. My address is: 21 Park Place, Drumheller, AB T0J 0Y1, and my telephone number is 1-403-823-2561.

Purpose:

Signature of recipient

Date

Signature of producer

License Number: 96/N/7205

Phone/Fax: 1-403-577-2297

Place of origin: N.E. 1/4 - 20 - 34 - 3 - w4th
Box 721
Kirriemuir, AB
T0C 1R0