

## Appendix A – Recommendations re Hemp Isolation Requirements

### 1. Monoecious Foundation Plot Production

- a. Reduce the isolation requirement between plots of the same variety to 3 meters (instead of the current 5-meter requirement) so that it is the same as the requirement for plots of dioecious varieties.

This is just for a mechanical separation of plots (so it is obvious where each plot begins and ends for inspection purposes) – both plots are certified seed of the same variety (usually planted with the same seed). See row 1.a below.

- b. Make the monoecious requirements the same as the dioecious requirements with respect to isolation to a lower pedigreed class seed crop of the same variety by requiring 2000 meters to a lower pedigreed seed class seed crop for both monoecious and dioecious types rather than requiring 3000 meters for monoecious types and 2000 meters for dioecious types.

This is a reduction from 3000 m to 2000 m for monoecious varieties – but only to a pedigreed/certified field of a lower class of the same variety. This is still a strict isolation requirement given the pollen in the adjacent field is of the same variety and the adjacent field will be inspected for off-types. Arguably, pollen from a nearby certified field of the same variety protects the inspected crop. See rows 1. b and c below.

- c. Make the monoecious requirements the same as the dioecious requirements with respect to isolation to different varieties of hemp by requiring 4800 meters to a different variety of hemp regardless of whether the other variety is a monoecious variety or a dioecious variety rather than requiring 3000 meters to monoecious varieties and 4800 to dioecious varieties.

This is an **increase** in the isolation requirement for monoecious varieties from 3000 m to 4800 m to all other varieties. See row 1. c below.

#### Isolation\*

##### Minimum Isolation Distances Required from an Inspected Crop to Other Crops:

#### 1. Varietal Purity

#### Distance

- |  |  |
|--|--|
| a. Plot of same variety  | <u>3</u> 5 meters ( <u>10</u> 6 feet)        |
| b. Lower pedigreed class seed crop of same variety   | <u>2</u> 000 meters ( <u>9690-6460</u> feet) |
| <del>c. Other monoecious varieties</del>   | <del>3000 meters (9690 feet)</del>           |
| <u>c. Dioecious variety/Different varieties of Industrial Hemp</u> or non-pedigreed <u>Industrial Hemp</u> | <u>4800 meters (15,748 feet)</u>             |

## 2. Dioecious Registered Production

- a. Make the dioecious requirements the same as the monocious requirements with respect to isolation to a seed crop of the same variety that meets Certified standards for varietal purity by requiring 1000 meters to a seed crop of the same variety that meets Certified standards for varietal purity for both monoecious and dioecious types rather than requiring 1600 for dioecious types and 1000 meters for monocious types.

This is a reduction from 1600 m to 1000 m for dioecious varieties – but only to a Certified field of the same variety. This is still a strict isolation requirement given the pollen in the adjacent field is of the same variety and the field will be inspected for off-types. See row 1. b below.

| <b>Isolation*</b>  |                           |
|--|---------------------------|
| Minimum Isolation Distances Required from an Inspected Crop to Other Crops:      |                           |
| 1. Varietal Purity – Registered  | Distance                  |
| a. Seed crop of same variety that meets Registered standards for varietal purity | 1 meter (3 feet)          |
| b. Seed crop of same variety that meets Certified standards for varietal purity  | 1000 meters (3280 feet)   |
| c. Different varieties of Industrial Hemp or non-pedigreed Industrial Hemp       | 4800 meters (15,748 feet) |

## 3. Monoecious Registered Production

- a. Make the monocious requirements the same as the dioecious requirements with respect to isolation to different varieties of hemp by requiring 4800 meters to a different variety of hemp regardless of whether the other variety is a monocious variety or a dioecious variety rather than requiring 2000 meters to monoecious varieties and 4800 to dioecious varieties.

This is a **significant increase** in the isolation requirement for monoecious varieties from 2000 m to 4800 m to all other varieties. See row 1. c below.

| <b>Isolation*</b>  |                           |
|--|---------------------------|
| Minimum Isolation Distances Required from an Inspected Crop to Other Crops:                  |                           |
| 1. Varietal Purity – Registered  | Distance                  |
| a. Seed crop of same variety that meets Registered standards for varietal purity             | 1 meter (3 feet)          |
| b. Seed crop of same variety that meets Certified standards for varietal purity              | 1000 meters (3280 feet)   |
| c. Different varieties of the same type of Industrial Hemp (Monoecious or female hybrid)     | 2000 meters (6460 feet)   |
| d. Dioecious variety Different varieties of Industrial Hemp or non-pedigreed Industrial Hemp | 4800 meters (15,748 feet) |

#### 4. Monoecious Certified Production

- a. Make the monoecious requirements the same as the dioecious requirements with respect to isolation to different varieties of hemp by requiring 800 meters to a different variety of hemp regardless of whether the other variety is a monoecious variety or a dioecious variety rather than requiring 200 meters to monoecious varieties and 1000 to dioecious varieties.

This is an **increase** in the isolation requirement for monoecious varieties from 200m to 800 m to other monoecious varieties, however, it is a slight decrease in the requirement (from 1000 m to 800 m) to dioecious varieties.

| 2. Varietal Purity – Certified  | Distance                          |
|---|-----------------------------------|
| a. Seed crop of same variety that meets Certified standards for varietal purity                     | 1 meter (3 feet)                  |
| b. Planted with pedigreed seed of same variety that meets Certified standards for varietal purity   | 200 meters (656 feet)             |
| <del>c. Different varieties of the same type of Industrial Hemp (Monoecious or female hybrid)</del> | <del>200 meters (656 feet)</del>  |
| <del>d. Different varieties of Industrial Hemp or non-pedigreed Industrial Hemp</del> feet)         | <del>81000 meters (26243230</del> |