



Confined Field Trials for 1990

Summary of Submissions and Field Trials of Plants with Novel Traits (PNTs) Proceeding under the *Seeds Act*, 1990

| Year | Number of Submissions | Number of Field Trials |
|------|-----------------------|------------------------|
| 1990 | 40 | 71 |

Table 1: Summary of approved submissions (for which field trials took place) and approved field trials that have been carried out in 1990. Please note that not all approved field trials take place once authorized.

| Crop | Nfld | PEI | NS | NB | QC | ON | MB | SK | AB | BC |
|-------------------------|----------|----------|----------|----------|----------|-----------|----------|-----------|----------|----------|
| Alfalfa | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Canola/ <i>napus</i> | 0 | 0 | 0 | 0 | 0 | 9 | 4 | 43 | 1 | 0 |
| Corn | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Flax | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 |
| Potato | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Tomato | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 1 | 0 | 16 | 4 | 47 | 1 | 2 |

Table 2: Provincial summary of field trials for individual crops as well as summary of field trials having taken place in each province. These numbers **do not** include authorized field trials which have not taken place.

| Crop | Latin Name | Field Trials | Breeding Objective | | | | | | | | | | |
|------------------|--------------------------------|--------------|---------------------|------------------|------------------|--------------------|--------------------------|-----------------------------|-------------------|-------------------|------------------|-----------------------------|----------|
| | | | Herbicide Tolerance | Stress Tolerance | Genetic Research | Nutritional Change | Modified Oil Composition | Male Sterility/ Restoration | Insect Resistance | Fungal Resistance | Virus Resistance | Pharmaceutical/ industrial* | Other |
| Alfalfa | <i>Medicago sativa</i> | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0(0) | 0 |
| Canola/ napus | <i>Brassica napus</i> | 57 | 42 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0(0) | 0 |
| Corn | <i>Zea mays</i> | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0(0) | 0 |
| Flax | <i>Linum usitatissimum</i> | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0(0) | 0 |
| Potato | <i>Solanum tuberosum</i> | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0(0) | 0 |
| Tobacco | <i>Nicotiana tabacum</i> | 2 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0(0) | 0 |
| Tomato | <i>Lycopersicon esculentum</i> | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0(0) | 0 |
| Total | | 71 | 51 | 1 | 5 | 2 | 0 | 0 | 0 | 0 | 3 | 0(0) | 0 |

*Numbers that are not in brackets are the number of field trials where the PNT expressed a pharmaceutical compound; numbers in brackets are the number of field trials where the PNT expressed an industrial compound.

Table 3: Summary of field trials' breeding objectives. Data has been broken down into breeding objectives of individual crops and is based on authorized field trials having taken place. Please note that some field trials had more than one breeding objective, therefore the number of field trials listed under breeding objective may exceed the total number of trials authorized. "Other" breeding objectives include antibiotic resistance and yield enhancement.

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