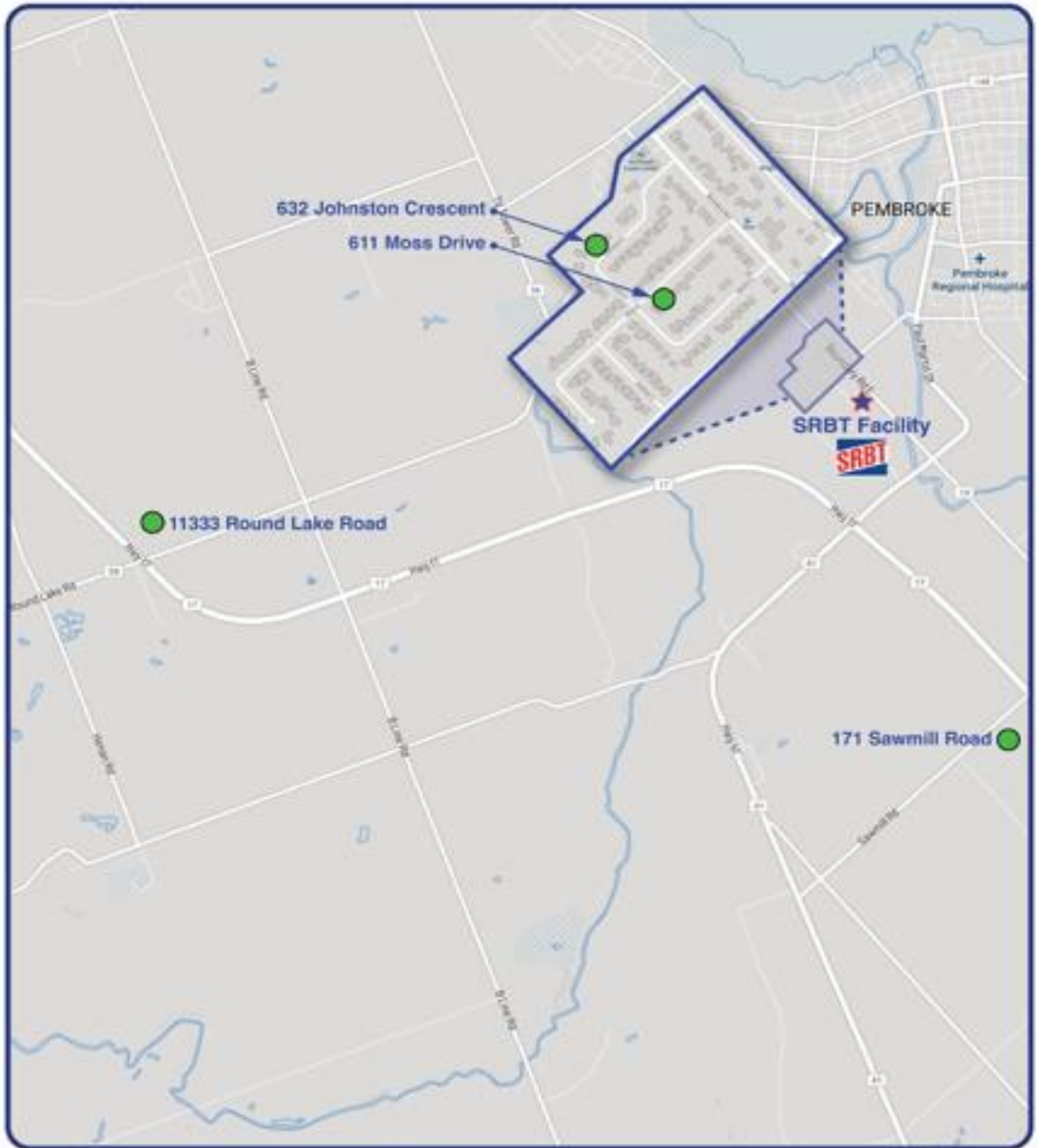


Map – SRBT Produce Sampling 2023



Produce Sample Points ●

2023 Residential Produce Sampling – Free-water Tritium Concentration

Sample	Units	Result
Cucumber 611 Moss Drive	Bq/kg Fresh weight	99
Green Onion 611 Moss Drive	Bq/kg Fresh weight	461
Beans 171 Sawmill Road	Bq/kg Fresh weight	8
Tomatoes 171 Sawmill Road	Bq/kg Fresh weight	8
Cucumber 171 Sawmill Road	Bq/kg Fresh weight	9
Carrots 171 Sawmill Road	Bq/kg Fresh weight	6
Rhubarb 632 Johnston Crescent	Bq/kg Fresh weight	68
Zucchini 632 Johnston Crescent	Bq/kg Fresh weight	48
Tomatoes 632 Johnston Crescent	Bq/kg Fresh weight	60

2023 Residential Produce Sampling – Organically-bound Tritium (OBT) Concentration

Sample	Units	Result
Tomatoes 632 Johnston Crescent	OBT Bq/kg Fresh weight	2
Cucumber 611 Moss Drive	OBT Bq/kg Fresh weight	2

2023 Commercial Produce Sampling – Free-water Tritium Concentration

Sample	Units	Result
Tomatoes 11333 Round Lake Road	Bq/kg Fresh weight	3
Potatoes 11333 Round Lake Road	Bq/kg Fresh weight	5
Onions 11333 Round Lake Road	Bq/kg Fresh weight	3
Beets 11333 Round Lake Road	Bq/kg Fresh weight	4

2023 Commercial Produce Sampling – Organically-bound Tritium (OBT) Concentration

Sample	Units	Result
Tomato 11333 Round Lake Road	OBT Bq/kg Fresh weight	0

Produce Sampling Data Trends

2019-2023

NOTES:

Data on free-water tritium concentration in sampled produce over the last five years is presented below for all sample locations.

A theoretical effective dose to a person due to produce consumption can be calculated based on the following assumptions:

- 100% of the produce consumed by a person contains a concentration of 300 Bq of free-water tritium per kilogram of produce.
- The person consumes the 95th percentile value of produce over the course of the year (as per CSA standard N288.1).

Given these assumptions, the calculated effective doses to members of the public are as follows:

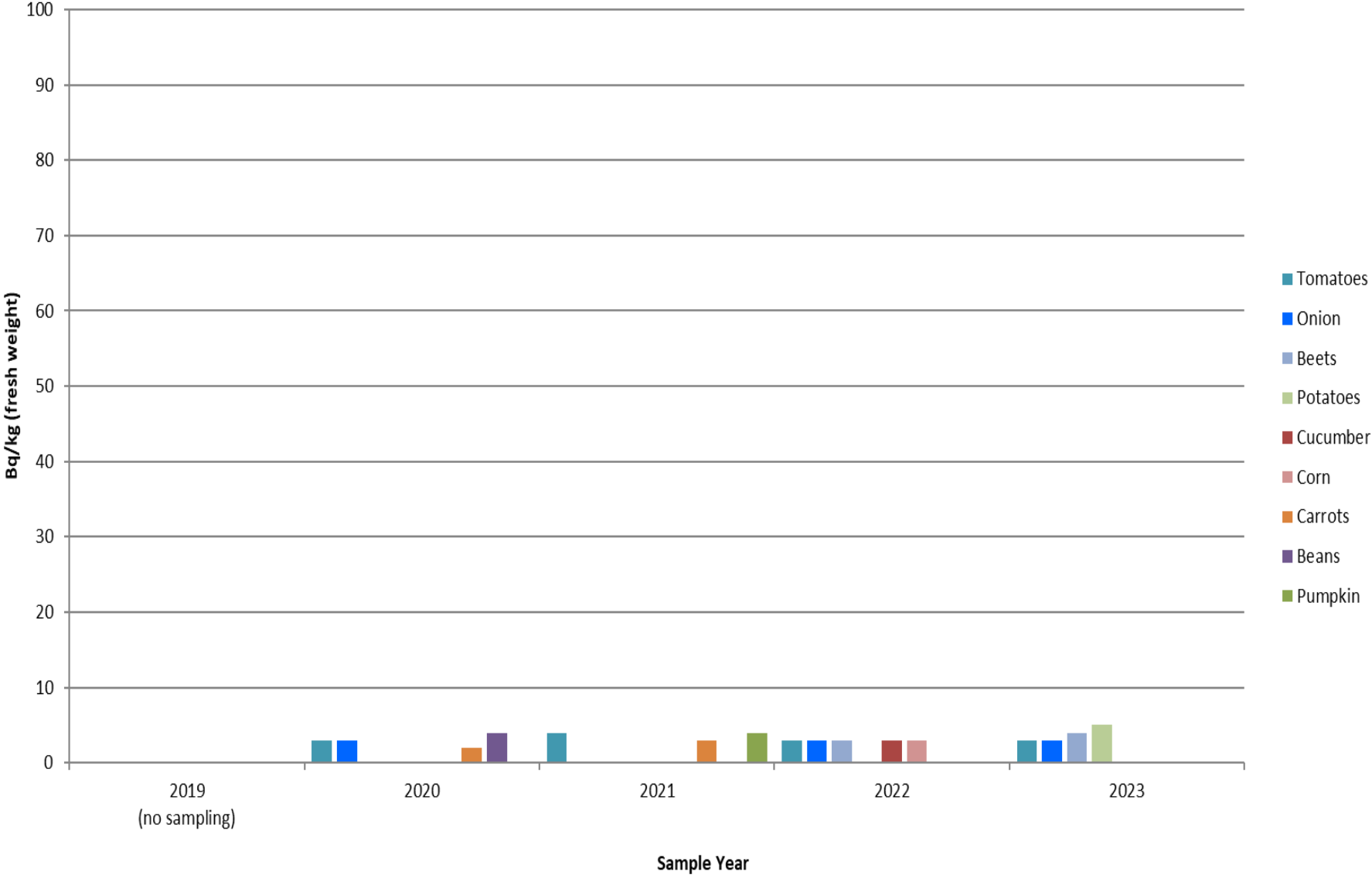
- For an adult → 0.0025 mSv per year
- For a 10-year old child → 0.0020 mSv per year
- For a 1-year old infant → 0.0020 mSv per year

In comparison, the limit for effective dose to a member of the public is 1.000 mSv per year, as per Section 13 of the *Radiation Protection Regulations*.

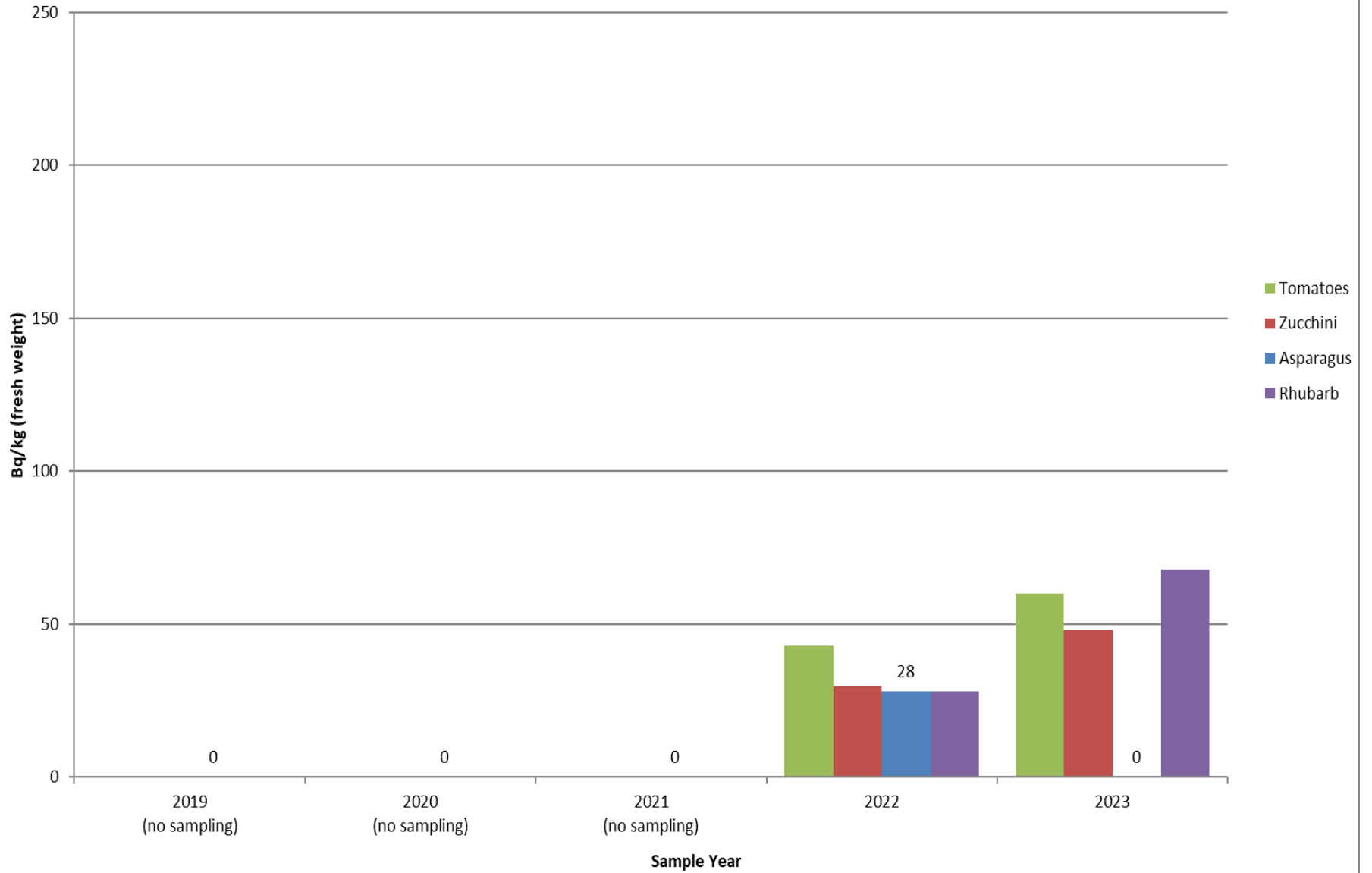
The calculated effective doses for produce consumption based on these assumptions is well below 0.5% of the regulatory limit.

When all sources of exposure are considered (including produce consumption), the effective doses to members of the public are well below the regulatory limit, and represent an extremely low level of risk. For more information, please consult SRBT's Annual Compliance Report at www.srbt.com.

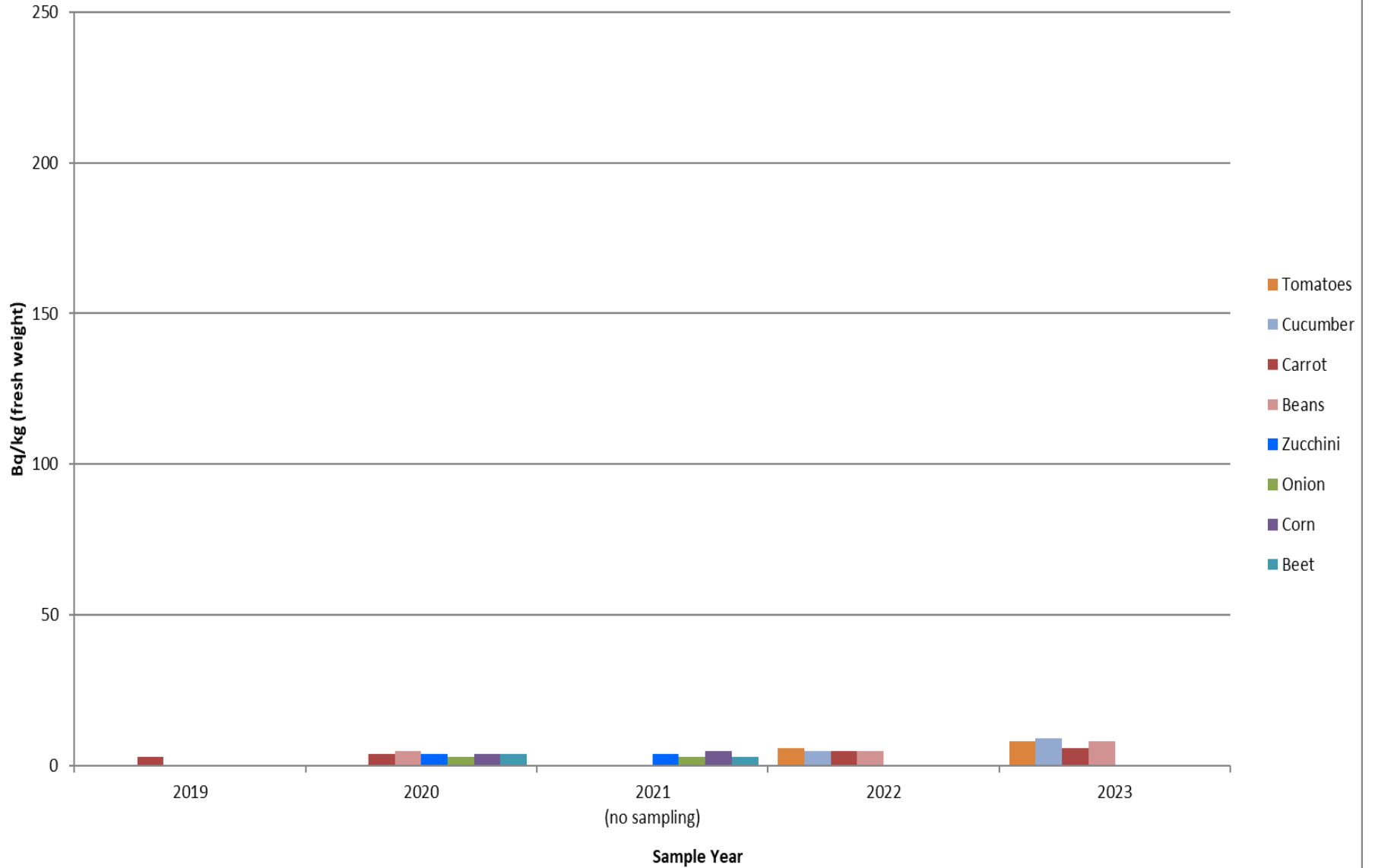
Produce Monitoring - 11333 Round Lake Road (Scale: 0 - 100 Bq/kg fresh weight)



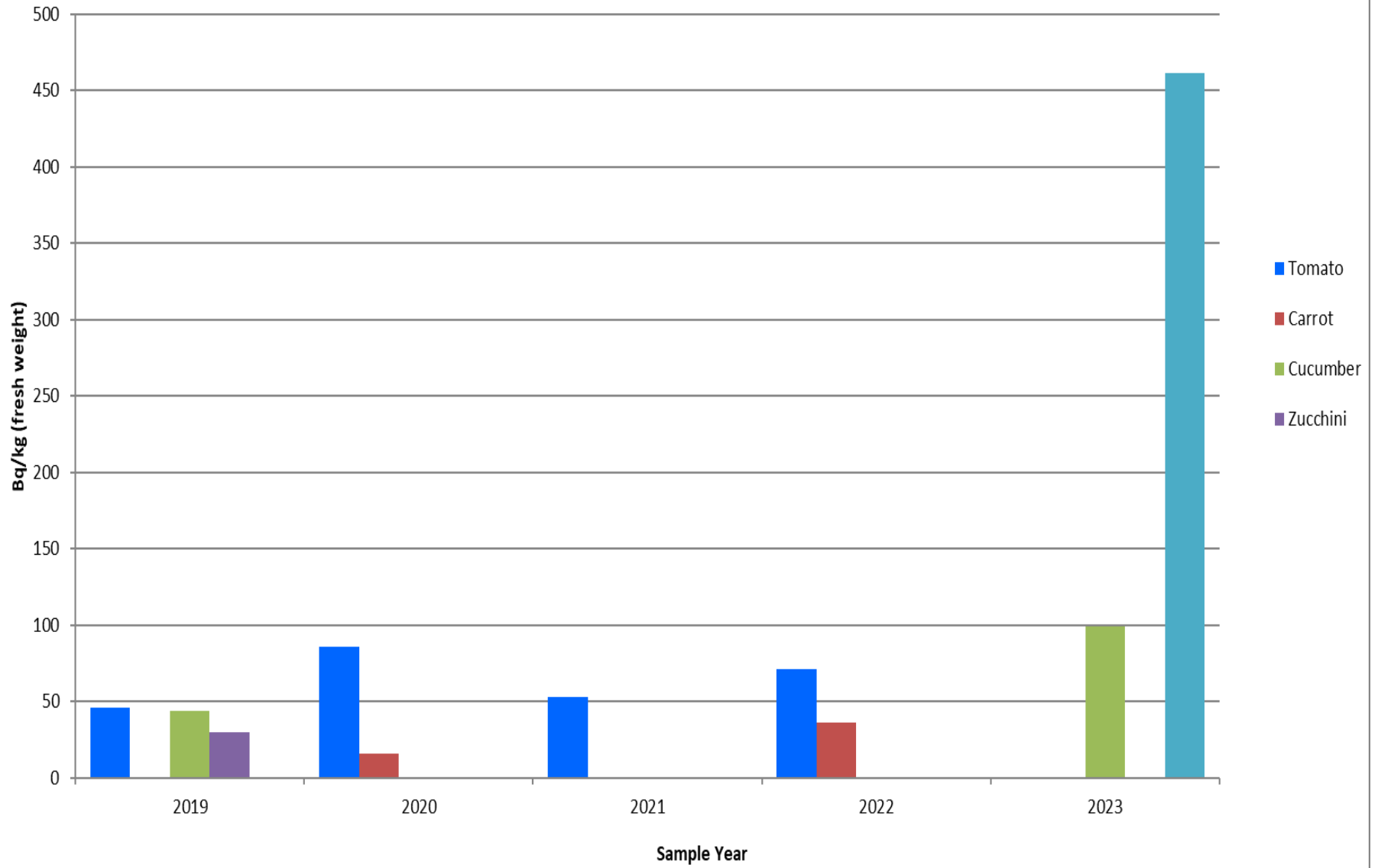
Produce Monitoring - 632 Johnston Crescent (Scale: 0 - 250 Bq/kg fresh weight)



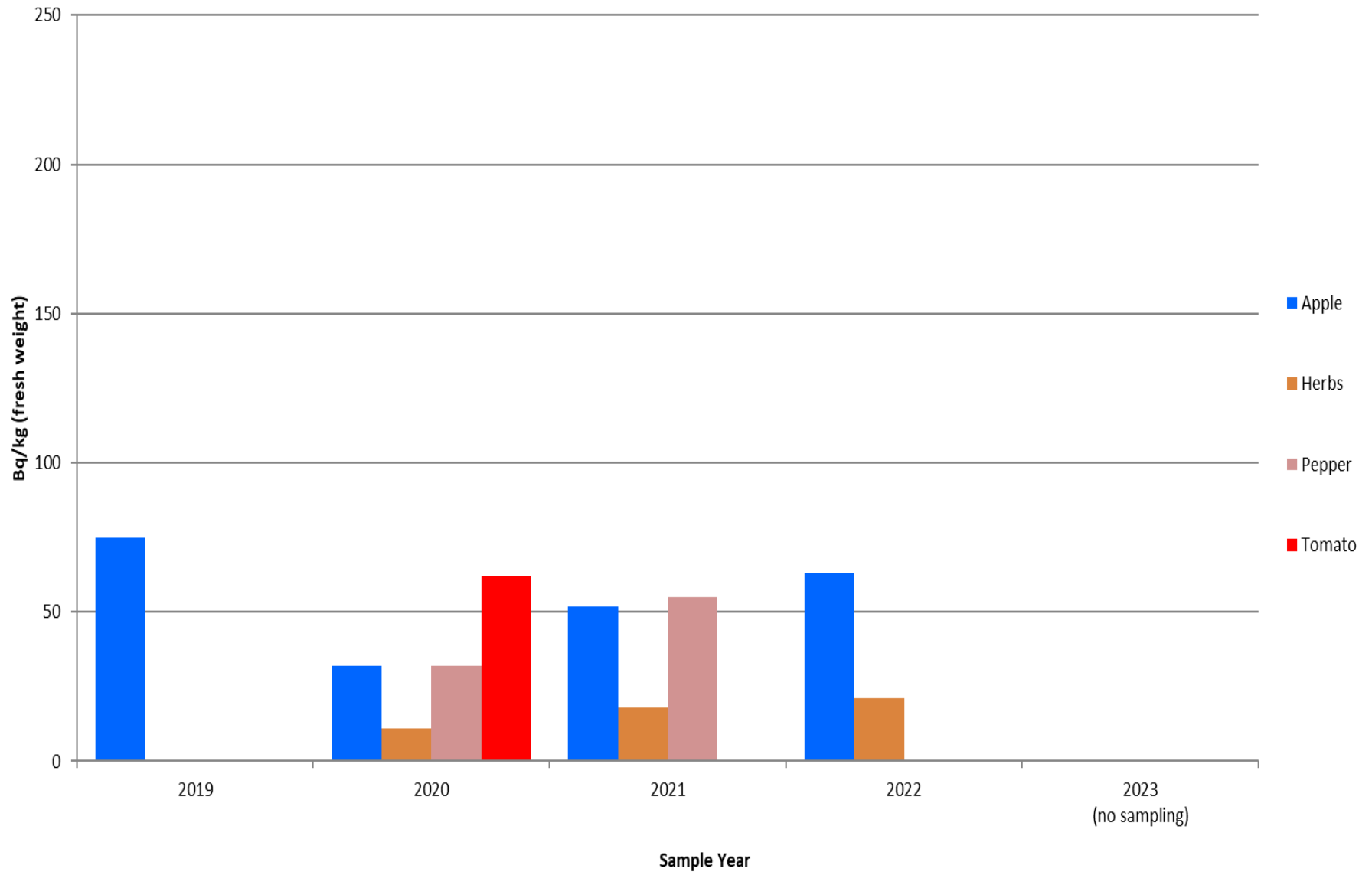
Produce Monitoring - 171 Sawmill Road (Scale: 0 - 250 Bq/kg fresh weight)



Produce Monitoring - 611 Moss Drive (Scale: 0 - 500 Bq/kg fresh weight)



Produce Monitoring - 413 Sweezy Court (Scale: 0 - 250 Bq/kg fresh weight)



Produce Monitoring - 408 Boundary Road (Scale: 0 - 250 Bq/kg fresh weight)

