

## БИОЛОГИЧЕСКИЕ ОСОБЕННОСТИ РАЗЛИЧНЫХ СОРТОВ КАРТОФЕЛЯ, АДАПТИРОВАННЫХ К УСЛОВИЯМ КАРЕЛИИ

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**Ключевые слова:** картофель, сорта, урожайность, вегетационный период, сухое вещество.

Одна из важнейших задач сельскохозяйственного производства республики Карелия – повышение урожайности и улучшение качества картофеля для полного обеспечения региона этим продуктом. Для этого необходимо стремиться к увеличению валового сбора клубней за счет повышения урожайности культуры. В производстве картофеля, особенно в зоне неустойчивого земледелия, к которым принадлежит Карелия, необходимы сорта, устойчивые к экстремальным условиям среды и имеющие высокую стабильную урожайность. Наиболее эффективным средством в повышении продуктивности картофелеводства остается сорт [1]. От того, насколько правильно подобраны сорта, насколько они адаптированы к факторам окружающей среды и особенностям хозяйственной деятельности, в значительной степени зависит качество и продуктивность картофеля, себестоимость и рентабельность производства [2].

### Цель и методика исследований

Цель проводимых нами исследований – оценка выращиваемых в Карелии различных сортов картофеля. В течение 4-х лет нами была изучена продуктивность следующих сортов: Пушкинец, Латона (ранний), Елизавета, Невский, Детское чудо (среднеранний), Нида (средне-поздний). Для повышения достоверности данных о влиянии погодных условий на рост и продуктивность этих сортов наряду с результатами собственных лабораторных и полевых наблюдений были использованы данные трех сортоиспытательных участков, расположенных в южной зоне республики.

Агробиологическая вегетационных периодов 1997-2000 годов охватывали все возможные их разновидности и сочетания: от прохладно-влажных до засушливо-жарких. Почвы природно-климатической зоны представлены в основном типичными подзолистыми и дерновыми супесчано-суглинистого мезантропогенного состава средней скрученности. Содержание гумуса в пахотном горизонте составляло от 3,7 до 8,1%. Кислотность почвы (рН) изменялась от 4,2 до 6,0. Содержание фосфора (показано по Кирсанову) на разных участках в различные годы колебалось от 13,6 до 50,8 мг на 100 г почвы, калия (объемно по Масловой) – от 12,6 до 21,9 мг на 100 г почвы.

### Результаты и обсуждение

Оценка сортов по продуктивности в зависимости от места и условий выращивания показала их вариабельность по сбору: от 17,0 до 30,1 т/га. Так, ранний сорт Пушкинец имел наибольшую урожайность – 24,8 т/га в теплом и сухом 1999 году, наименьшая урожайность – 12,33 т/га у него была в более прохладном и дождливом 2000 году. Средняя урожайность за 4 года составила 21,8 т/га. Заметим, что эти два (1999-2000) года по климатическим условиям являются контрастными. Содержание крахмала у сорта Пушкинец в среднем за 4 года было самое высокое – 14,8%, а по годам оно колебалось в диапазоне температуры воздуха в вегетационный период и составляло 15,7 и 12,4% соответственно (табл.).

Проведенные нами лабораторные исследования показали, что в фазе трескучих настоящих листьев (фаза сколов) в зависимости от скороспелости сорта соотношение общей сухой массы растения к сухому весу листьев уменьшается, а к весу корневой – увеличивается, то есть, на начальных этапах, раз-



на обратная зависимость – в начале роста развитие интактного растения направлено на создание более мощного ассимиляционного аппарата, который в дальнейшем работает на создание хорошо развитой корневой системы и получение наибольшего урожая клубней (рисунк).

По данным М.Г. Добрынина (1999) и В.П. Кошарова (1999), мощное развитие корневой системы сельскохозяйственных растений тесно связано с их продуктивностью [3,4]. Анализируя сорта картофеля различной скороспелости, Д.В. Волданова (1998) показала, что поздний сорт в начале вегетации может развивать относительно небольшую вегетативную массу с высокой синтетической способностью [5]. К началу клубнеобразования синтез в листьях скороспелых сортов останавливается и преобладает распад белковых веществ, что создает благоприятные условия для лучшего образования клубней. Поэтому скороспелые сорта потребляют относительно небольшое количество питательных веществ и более рационально их используют. Поздние сорта, развивая мощную вегетативную массу, потребляют большое количество питательных веществ и менее экономно их используют. Листья у таких сортов продолжительное время работают «на себя» и

Таблица  
Показатели продуктивности различных сортов картофеля  
(1997-2000 годы)

Показатель	Год	Сорт					
		Пушкинец	Латона	Детское чудо	Невский	Елизавета	Нида
Общая урожайность, т/га	1997	21,18	17,00	19,50	24,30	28,40	25,73
	1998	20,73	19,35	17,13	28,63	27,10	25,30
	1999	24,80	28,73	21,15	30,15	28,47	23,87
	2000	12,33	22,30	18,83	21,65	23,43	20,67
	Среднее	21,55	22,07	19,14	26,18	26,85	23,24
Масса товарной клубн. г	1997	80,7	81,0	75,3	87,3	90,5	93,0
	1998	87,3	85,3	83,0	97,3	90,5	75,0
	1999	108,0	104,0	88,3	93,3	118,0	93,0
	2000	81,0	82,3	74,7	89,7	98,7	85,0
	Среднее	89,8	88,2	78,8	91,9	101,9	89,1
Содержание крахмала, %	1997	15,7	14,8	15,8	14,1	14,5	14,7
	1998	13,2	11,7	12,2	11,4	11,1	12,0
	1999	15,0	14,4	15,0	15,0	14,8	14,4
	2000	12,4	10,0	11,5	11,4	11,0	12,8
	Среднее	14,8	12,7	14,1	13,0	12,9	13,5

витие растений направлено у ранних сортов на усиленный рост корневой системы и, как следствие, – накопление ранней товарной продукции. У среднеранних и среднепоздних сортов отмече-

Potato, sorts, production, the vegetative season, dry solid matter.

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**David Kirk**



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