

TOBACCO, *continue*—

Mr. Bayley—

Tobacco enjoyed when sledging, 6503.

TREATMENT. [See Scurvy.]

URINE. [See Scurvy.]

VEGETABLES. [For those Eaten, see Diet; see also Sorrel, Mustard.]

Subheads 1. General.

2. Potato.

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Analysis of preserved potato—	No.
By Surgeon-Major Dr. De Chaumont,	23
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Antiscorbutic plants in the arctic regions	26
Preserved carrots, by Professor Attfield with Report	
Compressed cabbages, by Professor Attfield	
.. mixed vegetables	

Evidence.

1. General.

Dr. Colan—

What their preserved and compressed vegetables were, 1697-9

Dr. Moss—

Desirability of taking more vegetables, fruits, &c., 2432.

Dr. Ninnis—

What vegetables he grew, suggestions for growing, 2738; peas and beans grown, 2740.

Dr. Piers—

List of, taken in former expeditions, 4677.

Dr. Macdonald—

Extent to which turnips are antiscorbutic, 4886-7, 4895-8; a small amount of potash in them, 4898.

Dr. De Chaumont—

What possesses most antiscorbutic qualities, 5054; dandelion a succulent vegetable, with some vegetable acids, 5055; use of dandelions to make soup, 4964; recurrence of scurvy when dandelions failed in hot weather in the Crimea, 4968-9.

Dr. Pavy—

Dried vegetables antiscorbutic, but not so much as fresh, 5215

Mr. Busk—

Preserved cannot be relied upon as antiscorbutics, 5240; cooking them impairs their property, the living juice necessary, 5265

Dr. Guy—

Vegetables and fruits rank together as antiscorbutics, 5319; preserved vegetables rank next, 5319.

Dr. Buzzard—

Compressed ones useful, but not palatable or antiscorbutic, 5467, 5471; vegetable juices are depreciated in preservation, 5468-70

Mr. Leach—

Americans use vegetables and not lime juice as antiscorbutics, 5574-5; antiscorbutic virtue of dried vegetables not yet ascertained, 5597

Captain Feilden, R.A.—

Angelica officinalis not found north of the seventy-eighth parallel, 5977-8; it is used as a preserve, and considered antiscorbutic, 5976; a little dandelion (*taraxacum dens-leonae*) found between latitudes 82° and 83°, 6074; it could not have been cultivated from want of seed, 6075-6.

Rear-Admiral Pullen—

A small patch of ground at Fort Simpson cultivated, 6137, 6147; potatoes, barley and turnips grown, 6148-9, 6137, 6150; found some mushrooms, 6173.

Dr. Rae—

To what extent they are cultivated round the forts of the Hudson Bay people, 8868-71; use of andromeda when sledging, 8722.

2. Potato—

Sir G. Nares—

No fresh potatoes taken, 89; impossibility of carrying them, from want of room, 90-92.

Commander Parr—

Potato carried in bags, 1488; remained perfectly good, 1489; it was cooked and eaten with pemmican, 1490.

Dr. Colan—

Edwards's preserved potato supplied, 1787; description of it, 1788-9; slightly boiled before eating, 1790; was liked by the men, 1791

Dr. Moss—

Slight mustiness in potato, 2310; but very rarely, 2311; Edwards's preserved potatoes excellent, 2433-4; whether fresh potatoes could be taken, 2435.

Dr. Piers—

Found Edwards's very good in "Investigator," 4678-9.

Commander Cameron—

The sweet one a convolvulus root, 4710; account of the native mode of cooking, 4711; it is a starchy food, and as succulent as the English potato, 4712-15; the English potato unknown where he went, 4814.

Dr. Macdonald—

Raw contains citric and tartaric acid, and is antiscorbutic, 4906; more so than when preserved, 4906.

VEGETABLES. 2. Potato, *continued*—

Dr. De Chaumont—

The preserved insufficient to ward off scurvy, not equal to the fresh, probable loss of soluble or organic salts in preparation, 5004, 5099, 5100.

Mr. Busk—

Preserved potato does not contain the antiscorbutic properties of the raw, 5266.

Dr. Guy—

Its importance in preventing scurvy, 5313-15; the antiscorbutic property due to its vegetable acid, 5376; preserved potatoes not equal to fresh, but need not be much inferior, 5377.

Dr. Buzzard—

Potatoes or vegetables superior as antiscorbutics to lime juice, 5478-9; if potatoes could be kept good on board ship, scurvy would never be heard of, 5478; suggestion to take raw potatoes sliced and preserved in molasses, 5526; to be eaten raw as a salad, 5529; raw ones more antiscorbutic than cooked and preserved, 5527.

Mr. Leach—

Antiscorbutic virtue in preserved potato not yet ascertained, 5597.

Dr. Dickson—

Preserved not equal to fresh, but cooked equal to raw, 5714, 5729.

Vice-Admiral Ommanney—

Advantages of Edwards's preserved potato, its antiscorbutic effect, 5797; raw potato given by the French as antiscorbutic, 5899.

Captain Feilden—

Allowance sledging in recent expedition very good, 6043; were cooked mixed with pemmican, 6041-4.

J. Organ—

Three sorts of potatoes in "Assistance" and "Resolute," 6598-9; preferred French sliced potatoes to Edwards's, 6600-1.

Dr. Barnes—

Raw potatoes more antiscorbutic than cooked, 7136.

Sir A. Armstrong—

Uncooked potatoes more antiscorbutic than cooked, 9161; potato is antiscorbutic, but not so much as lime juice, 9275-6.

VEGETATION.

Dr. Colan—

A good deal of vegetation round the winter quarters, 2154.

VENTILATION. [See also Air. Testing Air and Carbonic Acid in the Air, see under Air. Sylvester Stove, see under that head.]

Subheads 1. General.

2. Recent Expedition.

3. Former Expeditions.

4. Condensation.

5. Advantage of heating air on admission.

Papers in Appendix.

Sections and plans of "Alert," "Discovery," and "Resolute," with cubical contents of decks ..	No.
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Evidence.

1. General.

Sir J. Nares—

Difficulty of ventilating arctic ships, 216; rapid interchange of air in arctic regions, owing to difference of temperature, and consequent ventilation with a small opening, 230; increase of moisture with increased ventilation, 231.

Dr. Moss—

Suggestions for improving ventilation by metal condensers, 2415-17; impossibility of affording more space in arctic ships, 2419; large ships impossible, 2420.

Dr. Ninnis—

Suggestion to house in the upper deck with snow and make communication to it from lower deck, 2683.

Dr. Coppinger—

Difficulties in ventilation have always existed in arctic ships, 2911; impossibility of carrying out on principles used on shore, 2912; increase of cubic space of air by a deck-house would involve difficulties in warming, 3012; difficulties of navigation render large ships unadvisable, 2913; impossibility of renewing air sufficiently often, if a high standard of air is accepted, 2864-9.

Admiral Richards—

Snow walls could not be substituted for canvas housing, 3165-6; they would decrease the area of the deck, 3165; the suggestion of covering a large space of the deck not practical, 3168; difficulty of ventilation, owing to coldness of air preventing its renewal, and limited supply of fuel, 3205-6.

Sir L. M'Clintock—

The necessity of keeping up the temperature limits the change of air, 3333; advantage of increasing ventilation by introducing heated air, 3334-5; such ventilation could be more applied, but is not necessary, 3386; the stove pipes and opening and shutting of doors keep the air pure, 3337-8; advantage of a snow-house over upper deck, 3322.