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Asked by: Allan Rumbolt, MLA
Hudson Bay

Asked of: Hon. Lorne Kusugak, MLA
Minister of Community and Government Services

Number: 8- 5(2)

Date: March 20, 2018

Subject: **Annual Fuel Purchases by the Government of Nunavut**

Question:

Expressing the information in the same format as that which the Government of Nunavut provided in Returns to Written Questions 10-4(3) and 22-4(3), what quantities of fuel were purchased and delivered during the 2017 calendar year?

Response:

**PETROLEUM PRODUCTS DIVISION
FUEL DELIVERY BY COMMUNITY
2017/18**

BAFFIN			
Community	Diesel	Gasoline	Jet A-1
Arctic Bay	2,869,580	498,317	1,037,248
Cape Dorset	3,313,600	310,628	210,894
Clyde River		486,278	3,266,840
Clyde River-NPC	630,854		
Grise Fiord	1,022,945	136,329	87,458
Hall Beach	2,828,203	300,827	537,256
Igloolik	4,940,438	406,206	443,204
Iqaluit	19,607,757	7,575,558	21,462,730
Iqaluit-NPC	8,353,084		

Kimmirut	1,629,131	202,874	210894
Kugaaruk	2,380,642	605,929	965,219
Pangnirtung	4,728,451	573,874	295,490
Pond Inlet	4,762,048	763,371	1,424,954
Qikiqtarjuaq	1,922,270	395,592	212,342
Resolute Bay	5,197,021	149,648	2,107,279
TOTAL BAFFIN	64,186,024	12,405,431	32,261,808
KIVALLIQ			
Community	Diesel	Gasoline	Jet A-1
Arviat	3,810,940	1,248,410	
Arviat-NPC	2,223,264		
Baker Lake	6,511,356	1,534,789	
Chesterfield Inlet	1,854,033	306,207	
Chesterfield Inlet-NPC			
Coral Harbour	2,796,070	737,917	307,970
Rankin Inlet	20,088,716	2,619,731	8,287,833
Rankin Inlet- NPC	4,435,537		
Repulse Bay	2,779,930	701,908	
Repulse Bay- NPC			
Sanikiluaq	2,485,683	342,673	482,714
Whale Cove	1,848,667	262,973	
TOTAL KIVALLIQ	48,834,196	7,754,608	9,078,517
KITIKMEOT			
Community	Diesel	Gasoline	Jet A-1
Bathurst Inlet			
Cambridge Bay	8,955,329	1,223,752	798,291
Cambridge Bay-NPC	2,721,092		
Gjoa Haven	3,939,013	603,421	1,381,273
Kugluktuk	3,808,560	586,504	711,792
Kugluktuk - NPC	1,152,943		
Taloyoak	2,928,922	509,566	676,055
Umingmaktok			
TOTAL KITIKMEOT	23,505,859	2,923,243	3,567,411
TOTAL TERRITORY	136,526,079	23,083,282	44,907,736

Question:

As of November 1, 2017, what is the current bulk fuel storage capacity in each of Nunavut's communities?

Response:

**PETROLEUM PRODUCTS DIVISION
BULK FUEL STORAGE CAPACITY BY COMMUNITY
AS OF November 2017**

BAFFIN REGION		
COMMUNITY	FUEL TYPE	CAPACITY
Igloolik	Total Diesel	6,223,747
	Total Gasoline	1,381,492
	Total Jet A-1	2,100,000
Hall Beach	Total Diesel	4,629,133
	Total Gasoline	1,511,168
	Total Jet A-1	1,608,470
Pond Inlet	Total Diesel	6,008,784
	Total Reserve Tankage	369,105
	Total Gasoline	950,658
	Total Jet A-1	1,988,662
Clyde River	Total Jet A-1	5,035,190
	Total Reserve Tankage	377,640
	Total Gasoline	1,115,311
Arctic Bay	Total Diesel	3,188,704
	Total Reserve Tankage	183,201
	Total Gasoline	641,555
	Total Jet A-1	1,376,516
Kimmirut	Total Diesel	2,331,286
	Total Gasoline	414,779
Cape Dorset	Total Diesel	5,099,315
	Total Reserve Tankage	334,592
	Total Gasoline	986,597
	Total Jet A-1	498,817
Pangnirtung	Total Diesel	8,143,030
	Total Reserve Tankage	275,708
	Total Gasoline	1,911,481
	Total Jet A-1	1,346,370
Qikiqtarjuaq	Total Diesel	4,007,843
	Total Reserve Tankage	184,224
	Total Gasoline	942,899
	Total Jet A-1	732,899

Iqaluit	Total Diesel	26,979,196
	Total Reserve Tankage	912,223
	Total Gasoline	6,128,377
	Total Jet A-1	44,929,190
Sanikiluaq	Total Diesel	2,974,030
	Total Reserve Tankage	91,170
	Total Gasoline	478,795
	Total Jet A-1	1,173,076
KIVALLIQ REGION		
COMMUNITY	FUEL TYPE	CAPACITY
Rankin Inlet	Total Diesel	17,341,339
	Total Reserve Tankage	411,865
	Total Gasoline	2,990,757
	Total Jet A-1	9,033,698
Arviat	Total Diesel	4,527,929
	Total Reserve Tankage	551,474
	Total Gasoline	1,345,363
Chesterfield Inlet	Total Diesel	3,311,910
	Total Reserve Tankage	186,000
	Total Gasoline	582,000
Baker Lake	Total Diesel	7,616,011
	Total Reserve Tankage	92,110
	Total Gasoline	1,626,352
Coral Harbour	Total Diesel	3,013,183
	Total Reserve Tankage	205,334
	Total Gasoline	1,348,962
	Total Jet A-1	1,990,477
Repulse Bay	Total Diesel	4,086,830
	Total Reserve Tankage	184,622
	Total Gasoline	943,968
Whale Cove	Total Diesel	2,015,560
	Total Reserve Tankage	182,654
	Total Gasoline	421,246
KITIKMEOT REGION		
COMMUNITY	FUEL TYPE	CAPACITY
Kugluktuk	Total Diesel	4,736,693
	Total Reserve Tankage	638,394
	Total Gasoline	1,413,663
	Total Jet A-1	1,604,558
Bathurst Inlet	Total Diesel	55,954
	Total Reserve Tankage	84,716
Gjoa Haven	Total Diesel	4,427,926
	Total Gasoline	1,759,164
	Total Jet A-1	1,796,795
Taloyoak	Total Diesel	3,549,415
	Total Reserve Tankage	273,950

	Total Gasoline	691,842
	Total Jet A-1	1,367,292
Kugaaruk	Total Diesel	2,749,738
	Total Gasoline	923,082
Umingmaktok	Total Jet A-1	1,638,196
	Total Diesel	131,752
	Total Reserve Tankage	263,280
Grise Fiord	Total Gasoline	85,501
	Total Diesel	1,289,828
	Total Gasoline	274,439
Resolute Bay	Total Jet A-1	274,276
	Total Diesel	13,663,313
	Total Gasoline	4,107,973
Cambridge Bay	Total Jet A-1	12,949,287
	Total Diesel	11,832,000
	Total Reserve Tankage	90,000
	Total Gasoline	2,227,000
	Total Jet A-1	3,818,000

Summary of Total Territorial Capacity (liters)	Diesel	153,934,449
	Reserve	5,892,262
	Gasoline	37,204,424
	Jet A-1	95,261,769
	Total	292,292,904

Question:

From January 1, 2017 to December 31, 2017 which communities in Nunavut received fuel deliveries by airlift?

Response: **There has been no fuel airlifts.**

Question:

What policies and/or procedures does the Government of Nunavut follow with respect to the rationing of fuel supplies in communities in circumstances where shortages exist?

Response:

The GN's Petroleum Products Division aims to prevent fuel shortages with the following planning:

- Conducting fuel sales forecasts based on 15 years of historical growth rates, adjusted for known sales drivers such as construction and mining activities or flight changes;

- Overstocking inventories to carry a sufficient safety margin to accommodate anticipated sales volatility;
- Effective capital planning to expand facilities in advance of capacity shortages.

Despite planning, fuel shortages can still occur as a result of large unforeseen sales spikes, product contamination or force majeure events. In the event of such a shortage, the division has the following options:

Diesel shortage expected

In a case where there is diesel shortage expected, there are three choices depending on the community:

- If Jet A-1 is available in the community, heating sales can be sustained by supplementing Jet A-1 fuel in place of diesel for heating customers.
- Depending on the date of possible run out, the division can schedule an early tanker arrival to the community before the normal resupply date.
- If the above two options are unavailable, the division is forced to plan for an airlift as necessary.

Gasoline shortage expected

Generally gas trends are very consistent and don't often spike, however in a case where a shortfall is expected, the division has the following options:

- Depending on the date of possible run out, the division can schedule an early tanker arrival to the community before the normal resupply date.
- If the above two options are unavailable, the division is forced to plan for an airlift as necessary.

Jet A-1 shortage expected

In a case where a Jet A-1 shortage is expected, the division has the following options:

- Reschedule an early sealift if that is possible for dates and location;
- Coordinate with airlines to reduce consumption in the affected community to ensure sufficient volumes for medevac flights;
- If the above two options are unavailable, the division is forced to plan for an airlift as necessary.

Naphtha shortage expected

Naphtha is supplied in cans via dry cargo marine carrier. Like all products, PPD utilizes 10 years of historical sales data to project future Naphtha consumption on a community level. Due to sales volatility and fluctuations in resupply dates, PPD orders 25% more Naphtha than annual sales forecasts as a buffer to prevent run-outs. All inventories, including Naphtha, are monitored on a monthly basis. If a shortage is expected, PPD will transfer fuel from another community in close proximity. If this option is unavailable, PPD will transfer Naphtha from the closest regional hub (Cambridge Bay, Rankin Inlet or Iqaluit) where additional inventories are stockpiled.