

Overcoming Operational Challenges





Continued Impacts of COVID

Employee Availability, Supply Chain, Operational

Workforce Strategies and Budgetary Transactions

Mission Critical Incentive Pay, Overtime, Contracting

Responses to Extreme Weather & Emergency Events

DOT&PF Regions, Division of Facilities Services



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Impacts to Workforce

- Maintaining coverage during a COVID outbreak at a station, critical at locations such as an FAA Part 139 airport.
 - Increased overtime to cover sick and unavailable employees.
 - Unavailable and sick staff risk delays in equipment repairs, risks inadequate staff to handle storm events.

Supply Chain and Commodities Availability

- Experienced issues with annual winter product order.
- In some areas DOT&PF had to switch to more expensive winter product due to availability and production issues.
 - Experiencing significant shipping delays.
 - Increased costs attributed to delays in production.
 - Limited availability of critical parts and supplies, delaying equipment repairs and service delivery.

Operational

- Increases in janitorial contracts, cleaning expenses.
- Decrease in Alaska Marine Highway System (AMHS) revenue.
- Interruptions in services from contractors due to COVID positive staff.
- Significant portion of workforce teleworking. Implementing Hybrid Workspaces.

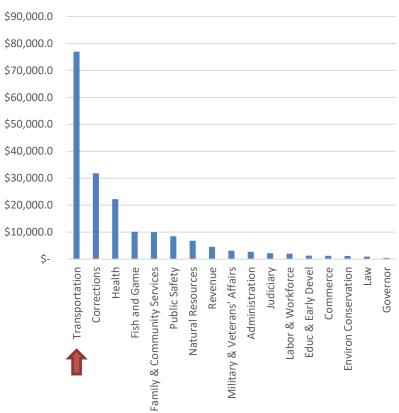


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Equipment and Commodity Budget

Budgeted Contractual Services \$300,000.0 \$250,000.0 \$200,000.0 \$150,000.0 \$100,000.0 \$50,000.0 Health Revenue Transportation Administration Corrections Fish and Game Family & Community Services Natural Resources Public Safety Commerce Educ & Early Devel Judiciary Labor & Workforce Military & Veterans' Affairs **Environ Conservation** Governor

Budgeted Commodities





\$ in Thousands (1,000)

Managing Equipment and Commodities

FY2022 Order: 7,917 (NR 4,948 | CR 2,534 | SR 43

DOT&PF uses 10 styles of blades.

First vendor not able to meet delivery deadlines for a single lot.

FY2022 second procurement (summer):

Avg. cost per blade is \$847 (32% more)

FY2022 first procurement (spring):

Avg. cost per blade is \$641

FY2021 bid:

Avg. cost per blade is \$642

Example Order for 505 Dual Carbide Blades

	SR 435)	DELIVERY M Dept of Transport					OF A	OF ALASKA rtation & Public Facilities Juneau, Alaska 99811-2500			DELIVERY ORDER NUMBER		
١,)						ortation &				2522H001		
		Bepartment of Transportation & Public Facilities Statewide Maintenance & Operation Station Various Locations within Alaska (see Attachments A & C)					c)	Delivery Required By: See Attachments A and C FO.B. POINT Final Destination AGENCY REQUISITION #			17, 2021 SITION #		
		Company Contact Name Phone Numb Xisonome & Machini 9883.09(2) R Far North Supply C 1018 Eart 5th Avenue, Suite C C Anchorage, AK 99501 Email: \$ustrk@nubcourt						State Contract Award # Expiration Date:					
								Instruction: See Attachment A for Region/Lot/Location/Item Details See Attachment C for Points of Contact at each location					
rilk	nes for	Not pur	te: This order constitu chasing authority will i	tes a bindir esult in a f	ng comm nancial c	itment betw obligation or	een the state and the contractor a	d the contract nd/or unauth	tor listed hereon. Unautho orized state personnel.	rized modifi	ication with	out the expressed pr	or approval of the
		TTEM COMMODITY CODE			Quantity Unit Ordered mees.			DESCRIPTION (Note: include C.A. item number if appropriate)				UNIT PRICE	EXTENDED PRICE
):		1 Lot One - Dual Carbid Lot One - Dual Carbid Lot One - Dual Carbid			e Blades - Central Region Blades - Northern Region Blades - Scuthcoast Region e Blades - Scuthcoast Region ons of ITB 2522H001 apply. 7 Page 1 of Total ENC: Community All Pages All			Total of All Pages 5	auges \$ 355,021.98				
_ot	Description							TOR	ACCT	FY	DIST	Liq	
One	Regular Curved Blades							-					1
Two	Regular Flat Blades / HEATED TREATED						Purchasing Authority's Signature Telephone Number			Telepho	Telephone Number		
	Regular Flat Blades / HIGH CARBON					m				65-8855			
our	Scarifier Blades / (1.4" Tooth Width)					glatic	Date Received selating to this order.						
ive	Scarifier Blades / (2.5" Tooth Width)						ation number 92-73-0006	K. Items ar	e for the e	xclusive use of the s	ate and not for		
ive	Scarnici Blades / (2.5 100							7 11					
	Single Carbide Insert Blade	es				Dual Carbide Insert Blades							
Six	Single Carbide Insert Blade												
Six Seven	Single Carbide Insert Blade	5	urved										
Six	Single Carbide Insert Blades Dual Carbide Insert Blades	s e-C		es									



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Workforce Strategies

Mission Critical Incentive Pay (MCIP)

- Fund mission critical incentive pay (MCIP) for Bethel Airport foreman and equipment operators, \$100.0
- Fund mission-critical pay for Fairbanks electricians and Nome duty station equipment operator, \$279.0

Dalton 2x2

Attracts and retains talent from locations with larger workforce pools.

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District	Fairbanks	Denali	Tok	Tazlina	Valdez	Dalton	Western	Total
Permanent FT Positions	49	17	20	24	14	61	30	215
Permanent Seasonal Positions	3	7	15	12	10	3	0	50
Total Positions	52	24	35	36	24	64	30	265
Unfilled #	8	5	6	7	7	2	9	44
% Unfilled	15%	21%	17%	19%	29%	3%	30%	17%
Positions with less than 1 year	18	8	8	8	7	10	5	64
# Unfilled or Less than 1 yr exp	26	13	14	15	14	12	14	108
% Unfilled or Less than 1 yr exp	50%	54%	40%	42%	58%	19%	47%	41%
Median longevity (in years)	2.7	2.1	2.3	2.8	2.7	2.8	3.2	2.7

Contracting

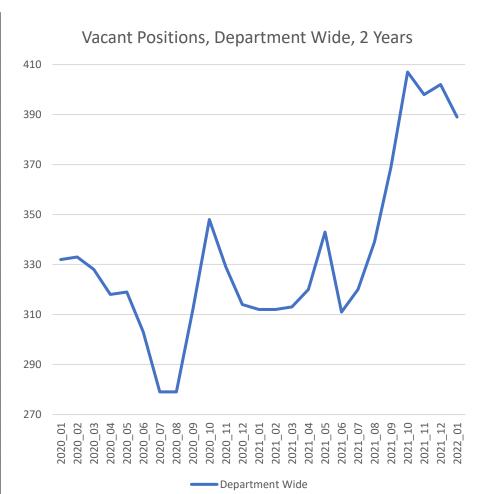
When needed, adding extra operators and equipment in response to extreme events.



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Workforce Strategies

Month	Department Wide	Equipment Operators	DFS LTC	SEF
2020_01	332	73	15	10
2020_02	333	74	16	10
2020_03	328	66	17	10
2020_04	318	69	16	7
2020_05	319	69	16	7
2020_06	303	62	17	8
2020_07	279	58	18	6
2020_08	279	61	17	8
2020_09	312	80	16	10
2020_10	348	107	19	10
2020_11	329	90	21	9
2020_12	314	78	20	7
2021_01	312	76	21	8
2021_02	312	80	21	7
2021_03	313	77	21	8
2021_04	320	78	21	8
2021_05	343	105	21	9
2021_06	311	79	25	13
2021_07	320	91	24	12
2021_08	339	99	24	15
2021_09	369	119	25	17
2021_10	407	145	24	20
2021_11	398	119	28	20
2021_12	402	121	28	19
2022_01	389	114	27	18

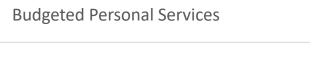




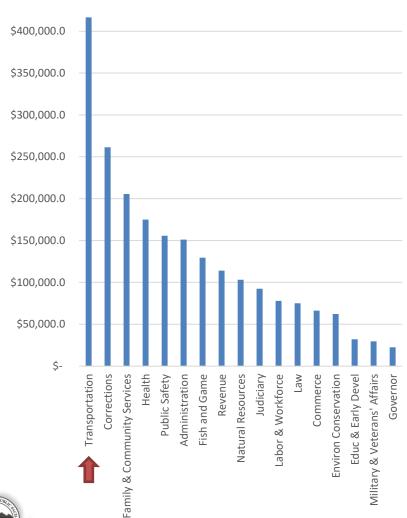
Excludes Alaska Marine Highway System, DFS = Division of Facilities Services, SEF = Statewide Equipment Fleet

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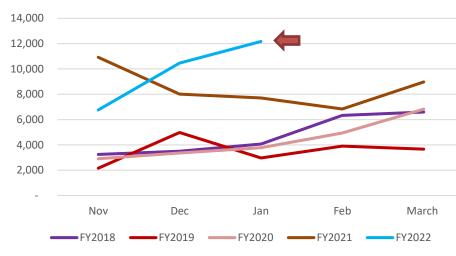
Workforce Strategies



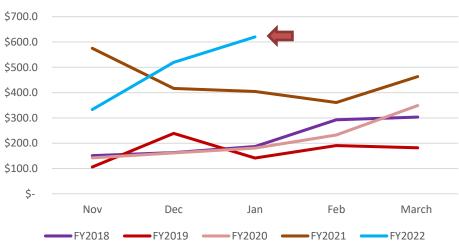
\$450,000.0



DOT Equipment Operator Overtime Hours



DOT Equipment Operator Overtime Total Cost



\$ in Thousands (1,000)

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Extreme Weather Capital Appropriations

FY2021 Supplemental - \$1M

"Reappropriation for Emergency Weather Events"

https://omb.alaska.gov/ombfiles/22_budget/Supp/FY2021_Supplemental_Capital_Governor_Amend_Backup_5.3.2021.pdf

FY2022 Supplemental - \$4.6M

"Reapprop for Emergency Weather & Catastrophic Events"

https://omb.alaska.gov/ombfiles/23_budget/Supp/Final_Regular_Supplemental_Backup_2.1.2022.pdf

Benefits

- Absorbs expenditure spikes in the operating budget, allowing department to deliver consistent levels of service without sacrifice of other services.
- Use of these funds reserved for contained and defined events, for costs above and beyond what is budgeted.
- Requires HQ Budget review and approval.
- Capital appropriation encourages fiscal constraint and conservation of funds.





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Extreme Weather Capital Appropriations



Status of FY2021 Supplemental

- Sterling Highway Landslide \$110.0
- Fairbanks Winter Storm \$890.0 (+1,489.5 in additional funding needed)
 - Expenses to date in accounting system: \$636.2
 - Estimated Expenses:
 - M&O Personnel Services (OT) \$833.0
 - Commodities (Cutting Edges, Chains, Salt, Chemical, etc.) - \$288.1
 - Travel (Airport Lighting Repairs) \$50.0
 - Contractor Services (Graders, Loaders, Dozers, and Side Dumps for Approx. 6-8 weeks of service) -\$1,978.9
 - Capital (Birch Lake Backup Power generation) -\$50.0

Uses of FY2022 Supplemental

- Fairbanks Winter Storm cont. \$1,489.5 (see above)
- MatSu Winter Storm \$158.0
- Kodiak Pasagshak Road \$65.0
- Thane Road Avalanche Evaluating. Costs small, but contribute to rising costs for SR



\$ in Thousands (1,000)

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Weather: Northern Region





- Primary Event December 25 through December 28, 2021
- Total Precipitation in December: Approx. 50" with 1.5" of rain.
- Heavy precipitation followed by winds and extreme cold.
- Parks, Richardson, Steese, Elliott West were all closed several times throughout the event.



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Weather: Northern Region





- All Stations responded with crew OT.
- Brought in off shift operators from Dalton District.
- Held daily update meetings for initial response and 2 week after event.
- Brought on additional contractor resources.



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Weather: Northern Region





- NOAA weather briefing meetings and action planning worked well.
- Widespread event and crews stretched beyond normal area boundaries to respond where needed.
- Birch Lake M&O Station power redundancy.
- Icing and wet snow events are becoming more common with frozen pavement conditions. Evaluating conversion of equipment and technologies to better support these conditions.

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Weather: Central Region





- Sterling Hwy MP 50 mudslide Two temporary hires made and the cost of event to date is approximately \$91.0, total costs estimated up to \$150.0
- Wind event over New Year's weekend in the Matanuska Susitna District. No additional hires made. Estimated cost for immediate repairs is \$40.0. Potential future repairs may be \$100.0.

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Weather: Central Region









- High winds and low temps, 83 mph gusts, wind chill -35F
- Limited road closures by LEO Trooper escorts.
- Estimate 15 traffic signals damaged.
- Fourth longest wind event in Mat-Su history.
- Widespread power outages. (Palmer station on generator power throughout much of event.)



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Weather: Southcoast Region



- \$475.0 in additional overtime and commodities usage during December 2021/January 2022 period in comparison to the same timeframe in the prior fiscal year
- Increased road closures impacting the traveling public and safety of crew
- Diverted and canceled flights due to icy conditions on airport surfaces
- Existing drainage infrastructure such as ditches and culverts are undersized to handle the volumes of water created by high intensity "atmospheric river" rainfall events.



\$ in Thousands (1,000)

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Weather: Division of Facilities Services

- Extensive damage to Public Health Center in Fairbanks, \$6.5 personal services and \$9.0 contractual (damaged fire alarm system repair).
- Experiencing considerably higher costs for contracted snow removal services (FROB, NSOB, PHC, TOK combined facility, Rural trooper housing locations). Already reaching "normal" FY expenses for such services per location with 3-4 months left of snowfall to come. Severe weather event increased snow removal costs by an estimated \$15K-\$20K per building.
- Extreme snowfall in Cordova resulted in extensive roof damage to a Trooper housing unit requiring emergency repair.
- Fairbanks high snow loads this early in the winter has resulted in roof significant snow removal efforts not common in Fairbanks.
- Department of Public Safety contracted \$15.0 of service for roof snow removal.
- Southcoast Region DFS personal services costs for roof snow removal at multiple DOT&PF buildings is approximately \$12.0 since major weather events.
- South Coast regional hub has spent in excess of \$85.0 on snow removal related to extreme
 events.
- South Coast Region spent approximately \$20.0 in parts and labor on events related to flooding, broken pipes failed drains etc.
- Palmer Courthouse incurred roughly \$23.0 of damage in the recent winter storm.
- Palmer State Office Building incurred in excess of \$36.0 in damage in the recent winter storm.

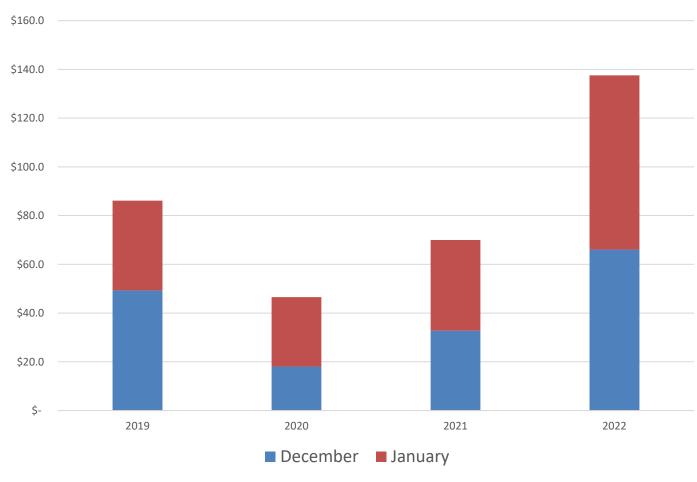


\$ in Thousands (1,000)

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Weather: DFS Overtime

Division of Facilities Services Overtime Cost





\$ in Thousands (1,000)

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