

1.Start

2.Chek what happened outside.

3.Accroding to the situation, move on the right direction (4,11,17).

4. Snow piled up on the floor.

5. Checking precipitation accumulation

6. Accumulation of Snow : $\leq 2.5\text{cm}$

If it is within a given range

Yes: checking the temperature

If temperature: $< -10^{\circ}\text{C}$

yes : operating a sand truck(light), Go to End

no : checking next temperature standard

If temperature: $-10^{\circ}\text{C} \sim -5^{\circ}\text{C}$

yes : operating a salt truck(light), Go to End

no : checking next temperature standard

Temperature: $> -5^{\circ}\text{C}$

No Action Required. Go to End

NO : checking next height standard

7. Accumulation of Snow : $2.6 \sim 5.0 \text{ cm}$

If it is within a given range

Yes: checking the temperature

If temperature: $< -10^{\circ}\text{C}$

yes : operating a sand truck(Normal), Go to End

no : checking next temperature standard

If temperature: $-10^{\circ}\text{C} \sim -5^{\circ}\text{C}$

yes : operating a salt truck(Normal), Go to End

no : checking next temperature standard

Temperature: $> -5^{\circ}\text{C}$

No Action Required. Go to End

NO : checking next height standard

8. Accumulation of Snow : 5.1 ~ 15.0 cm

If it is within a given range

Yes: checking the temperature

If temperature: $< -10^{\circ}\text{C}$

yes : operating a snow plow truck and sand truck(Normal), Go to End

no : checking next temperature standard

If temperature: $-10^{\circ}\text{C} \sim -5^{\circ}\text{C}$

yes : operating a snow plow truck and salt truck(Normal), Go to End

no : checking next temperature standard

Temperature: $> -5^{\circ}\text{C}$

yes : operating a snow plow truck, Go to End

NO : checking next height standard

9. Accumulation of Snow : 15.1 ~ 45.0 cm

If it is within a given range

Yes: checking the temperature

If temperature: $< -10^{\circ}\text{C}$

yes : operating two snow plow trucks and a sand truck(Normal), End

no : checking next temperature standard

If temperature: $-10^{\circ}\text{C} \sim -5^{\circ}\text{C}$

yes : operating two snow plow trucks and a salt truck(Normal), Go to End

no : checking next temperature standard

Temperature: $> -5^{\circ}\text{C}$

yes : operating two snow plow trucks, Go to End

NO : checking next height standard

10. Accumulation of Snow : ≥ 45.1 cm

State of emergency (Organize army and other jurisdiction support), Go to End

11. Ice piled up on the floor.

12. Checking precipitation accumulation

13. Accumulation of ice $\leq 3\text{mm}$.

If yes, no action required. **Go to End**

Else, check the next standard of height.

14. Accumulation of ice ranging between 3.1mm – 5 mm.

If yes, check the temperature zones ,

For Temperature : < -10

If yes, 1 normal sand truck required for help **Go to End**

Else, check the next temperature zone.

For Temperature : -10 to -5

If yes, 1 normal salt truck required for help **Go to End**

Else, check the next temperature zone.

For Temperature : > -5

If yes, No action required. **Go to End**

Else, end.

Else, jump to the next standard of height.

15. Accumulation of ice ranging between 5.1mm-15mm

If yes , check the temperature zones ,

For Temperature : < -10

If yes, 2 heavy sand trucks required for help . **Go to End**

Else, check the next temperature zone

For Temperature : -10 to -5

If yes, 2 heavy salt trucks required for help . **Go to End**

Else, check the next temperature zone

For Temperature : > -5

If yes, 1 heavy salt truck required for help . **Go to End**

Else, end

Else , jump to the next standard of height .

16. Accumulation of ice ranging $\geq 15.1\text{mm}$

State of Emergency : Army and other jurisdiction support needed. **Go to End**

17. Snow and ice piled up together.

18. Checking precipitation accumulation

19. Accumulation of Snow and Ice : $\leq 2.5\text{cm}$

If it is under or same with 2.5

Yes: No Action Required , **Go to End**

No: checking next height standard

20. Accumulation of Snow and Ice : 2.6 ~ 5.0 cm

If it is within a given range

Yes: checking the temperature

If temperature: $< -10^{\circ}\text{C}$

yes : operating a snow plow truck and sand truck(light), **Go to End**

no : checking next temperature standard

If temperature: $-10^{\circ}\text{C} \sim -5^{\circ}\text{C}$

yes : operating a snow plow truck and salt truck(light), **Go to End**

no : checking next temperature standard

Temperature: $> -5^{\circ}\text{C}$

yes : operating a snow plow truck

NO : checking next height standard

21. Accumulation of Snow and Ice : 5.1 ~ 15.0 cm

If it is within a given range

Yes: checking the temperature

If temperature: $< -10^{\circ}\text{C}$

yes : operating a snow plow truck and sand truck(heavy), **Go to End**

no : checking next temperature standard

If temperature: $-10^{\circ}\text{C} \sim -5^{\circ}\text{C}$

yes : operating a snow plow truck and salt truck(heavy), **Go to End**

no : checking next temperature standard

Temperature: $> -5^{\circ}\text{C}$

yes : operating a snow plow truck and salt truck(normal), **Go to End**

NO : checking next height standard

22. Accumulation of Snow and Ice : 15.1 ~ 45.0 cm

If it is within a given range

Yes: checking the temperature

If temperature: $< -10^{\circ}\text{C}$

yes : operating two snow plow trucks and a sand truck(heavy), **Go to End**

no : checking next temperature standard

If temperature: $-10^{\circ}\text{C} \sim -5^{\circ}\text{C}$

yes : operating two snow plow trucks and a salt truck(heavy), **Go to End**

no : checking next temperature standard

Temperature: $> -5^{\circ}\text{C}$

yes : operating two snow plow trucks and a salt truck(light), **Go to End**

NO : checking next height standard

23. Accumulation of Snow and Ice : ≥ 45.1 cm

State of emergency(Organize army and other jurisdiction support) , **Go to End**

24. End