

PIPE INTEGRITY RISK ANALYSIS DASHBOARD

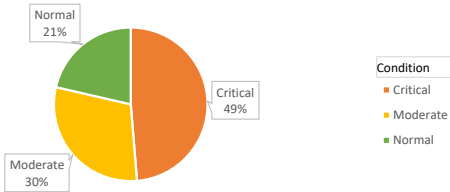
This dashboard analyses pipeline integrity data to assess material performance,thickness degradation and overall pipe condition

- \*Certain materials show **faster thickness loss rate** indicating higher maintenance priority.
- \*Higher operating pressure is associated with higher risk scores.
- \*A considerable amount of pipes are not in operating conditions hence the need for maintenance.

%Pipes In Critical Condition	Avg Thickness Loss(mm)	Avg Loss Rate(mm/year)	Highest Risk Material
49%	4.86mm	0.71mm/year	PVC

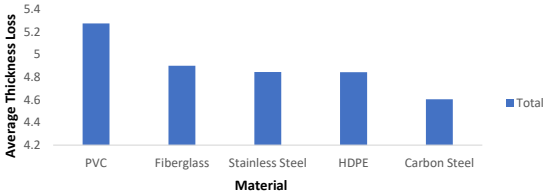
Count of Pipe Size

Pipe Condition Distribution(Valid Records Only)



Average of Thickness\_Loss\_mm

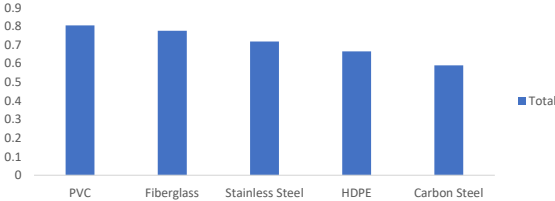
Average Thickness Loss By Material(mm)



Material

Average of Thickness\_loss\_rate\_mm\_per\_year

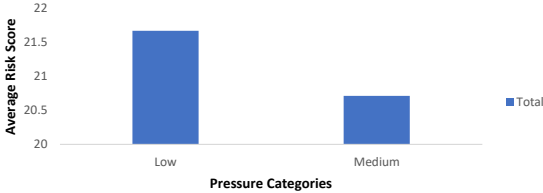
Average Thickness Loss Rate By Material(mm/year)



Material

Average of Risk\_Score

Average Risk Score By Pressure Category



Pressure\_category

Condition

- Critical
- Moderate
- Normal

Grade

- API 5L X42
- API 5L X52
- API 5L X65
- ASTM A106 Grade B
- ASTM A333 Grade 6

Material

- Carbon Steel
- Fiberglass
- HDPE
- PVC
- Stainless Steel