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VERSION DU 01/01/2019

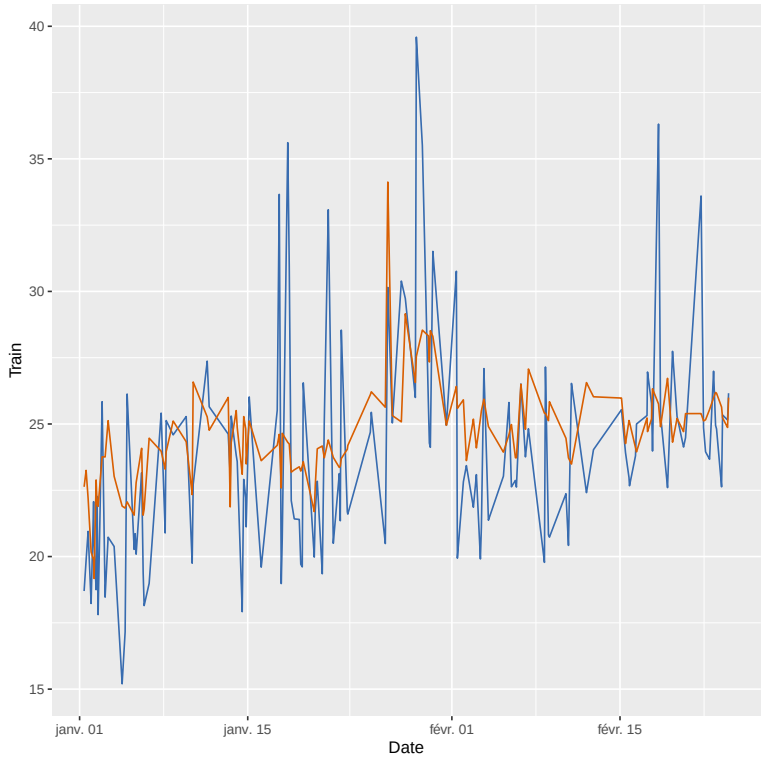
Chapitre 1

Les Fines Classification

1.1 Fines Jointure SDP Mean entre deux SDP

```
## X40µm ~ Poste + Qualité + Débit_CV004 + Dilution_SB002 + Arrosage_Crible_SC003 +
##     Dilution_HP14 + Dilution_HP15 + Dilution_HP18 + Dilution_HP19 +
##     Pression_PK12 + Pression_PK13 + Pression_PK14 + Pression_PK16 +
##     Pression_PK18
## <environment: 0x0000024b580ffec0>
```

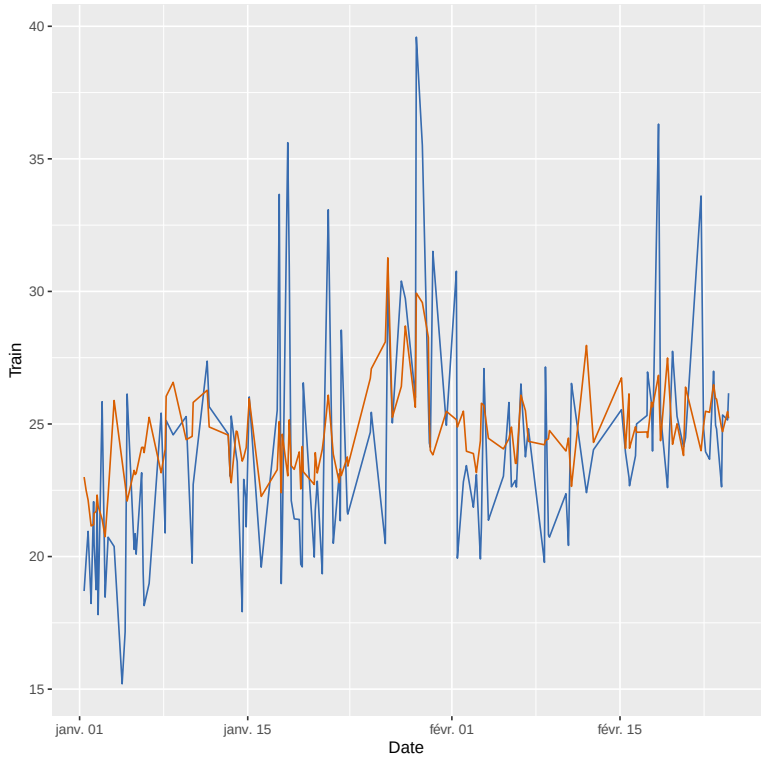
	Methode	R2_test	R2_train
1	Decision Tree	0.20	0.49
2	Bagged Trees	0.23	0.65
3	Random Forest	0.27	0.92
4	GBM	0.24	0.80
5	XGB	0.19	0.98
6	ANN	0.05	0.62
7	Moyenne totale	0.20	0.75



1.2 Fines Jointure SDP Max entre deux SDP

```
## X40µm ~ Poste + Qualité + Débit_CV004 + Dilution_SB002 + Arrosage_Crible_SC003 +
##     Dilution_HP14 + Dilution_HP15 + Dilution_HP18 + Dilution_HP19 +
##     Pression_PK12 + Pression_PK13 + Pression_PK14 + Pression_PK16 +
##     Pression_PK18
## <environment: 0x0000024b50457998>
```

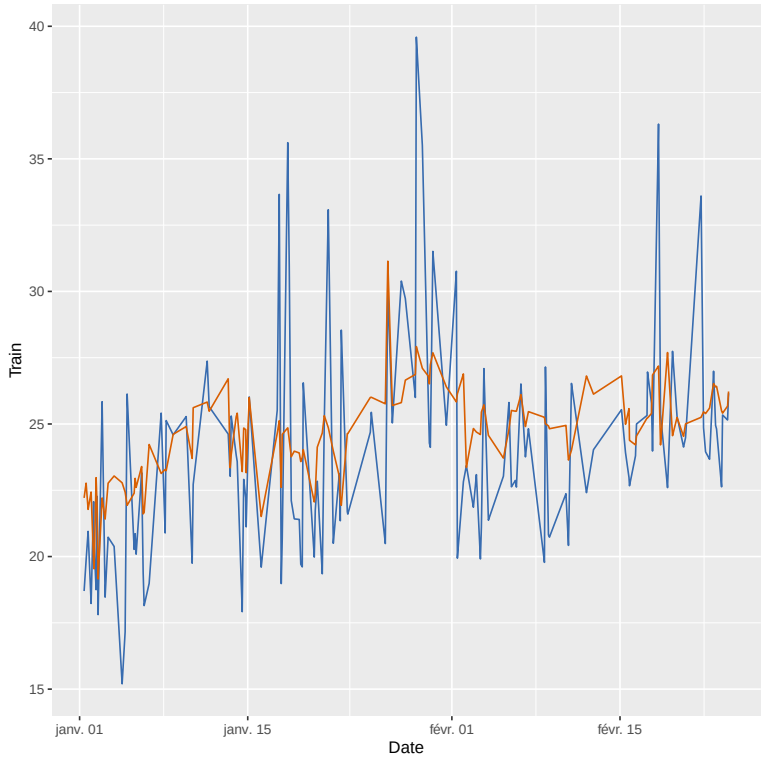
	Methode	R2_test	R2_train
1	Decision Tree	0.12	0.50
2	Bagged Trees	0.25	0.60
3	Random Forest	0.25	0.89
4	GBM	0.23	0.78
5	XGB	0.24	0.96
6	ANN	0.00	0.61
7	Moyenne totale	0.18	0.72



1.3 Fines Jointure SDP Median entre deux SDP

```
## X40µm ~ Poste + Qualité + Débit_CV004 + Dilution_SB002 + Arrosage_Crible_SC003 +
##     Dilution_HP14 + Dilution_HP15 + Dilution_HP18 + Dilution_HP19 +
##     Pression_PK12 + Pression_PK13 + Pression_PK14 + Pression_PK16 +
##     Pression_PK18
## <environment: 0x0000024b5629dce8>
```

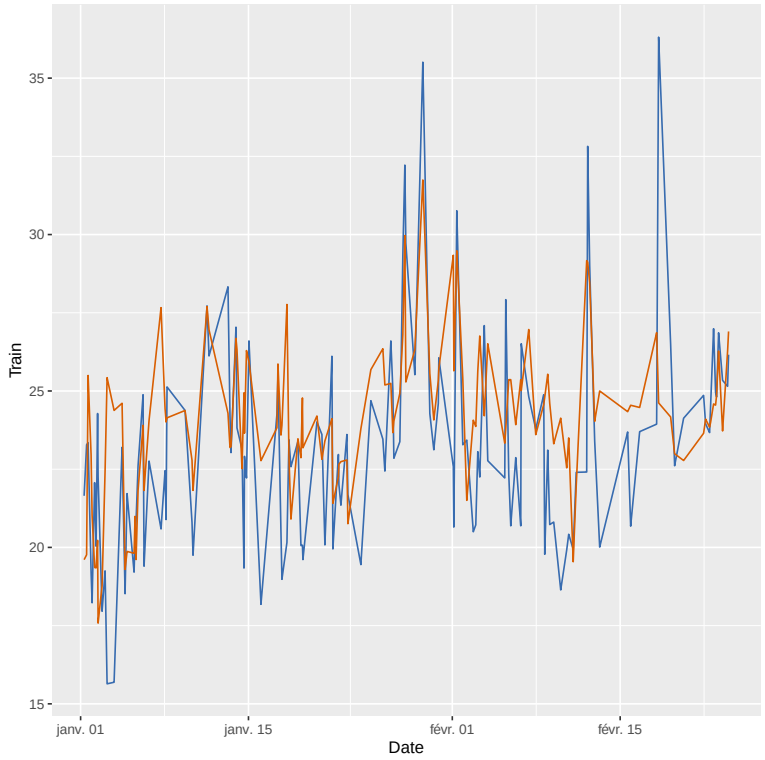
	Methode	R2_test	R2_train
1	Decision Tree	0.10	0.47
2	Bagged Trees	0.24	0.61
3	Random Forest	0.29	0.89
4	GBM	0.26	0.77
5	XGB	0.12	0.98
6	ANN	0.01	0.46
7	Moyenne totale	0.17	0.70



1.4 Fines Jointure SDP Mean 60 minutes

```
## X40µm ~ Poste + Qualité + Débit_CV004 + Dilution_SB002 + Arrosage_Crible_SC003 +
##     Dilution_HP14 + Dilution_HP15 + Dilution_HP18 + Dilution_HP19 +
##     Pression_PK12 + Pression_PK13 + Pression_PK14 + Pression_PK16 +
##     Pression_PK18
## <environment: 0x0000024b526f3ba0>
```

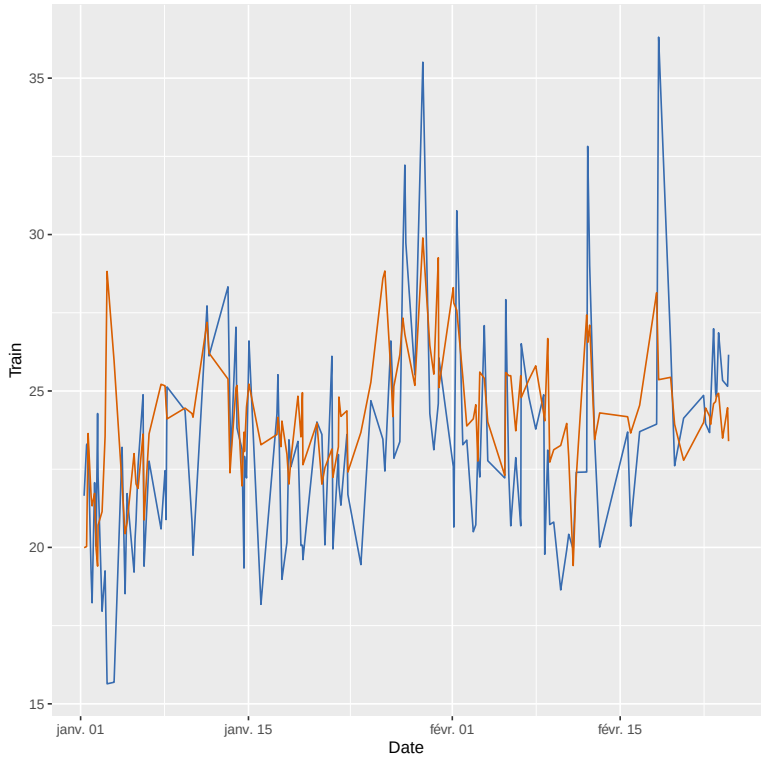
	Methode	R2_test	R2_train
1	Decision Tree	0.14	0.52
2	Bagged Trees	0.24	0.69
3	Random Forest	0.24	0.92
4	GBM	0.26	0.83
5	XGB	0.15	0.99
6	ANN	0.04	0.52
7	Moyenne totale	0.18	0.75



1.5 Fines Jointure SDP Max 60 minutes

```
## X40µm ~ Poste + Qualité + Débit_CV004 + Dilution_SB002 + Arrosage_Crible_SC003 +
##     Dilution_HP14 + Dilution_HP15 + Dilution_HP18 + Dilution_HP19 +
##     Pression_PK12 + Pression_PK13 + Pression_PK14 + Pression_PK16 +
##     Pression_PK18
## <environment: 0x0000024b562c2af8>
```

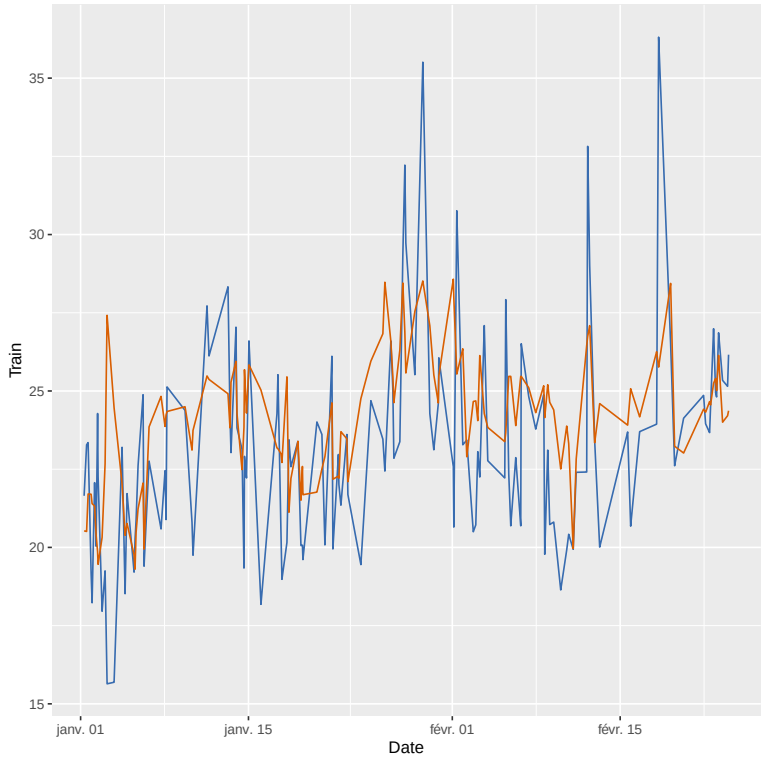
	Methode	R2_test	R2_train
1	Decision Tree	0.13	0.54
2	Bagged Trees	0.16	0.65
3	Random Forest	0.18	0.92
4	GBM	0.17	0.81
5	XGB	0.10	0.98
6	ANN	0.08	0.53
7	Moyenne totale	0.14	0.74



1.6 Fines Jointure SDP Median 60 minutes

```
## X40µm ~ Poste + Qualité + Débit_CV004 + Dilution_SB002 + Arrosage_Crible_SC003 +
##     Dilution_HP14 + Dilution_HP15 + Dilution_HP18 + Dilution_HP19 +
##     Pression_PK12 + Pression_PK13 + Pression_PK14 + Pression_PK16 +
##     Pression_PK18
## <environment: 0x0000024b53681de8>
```

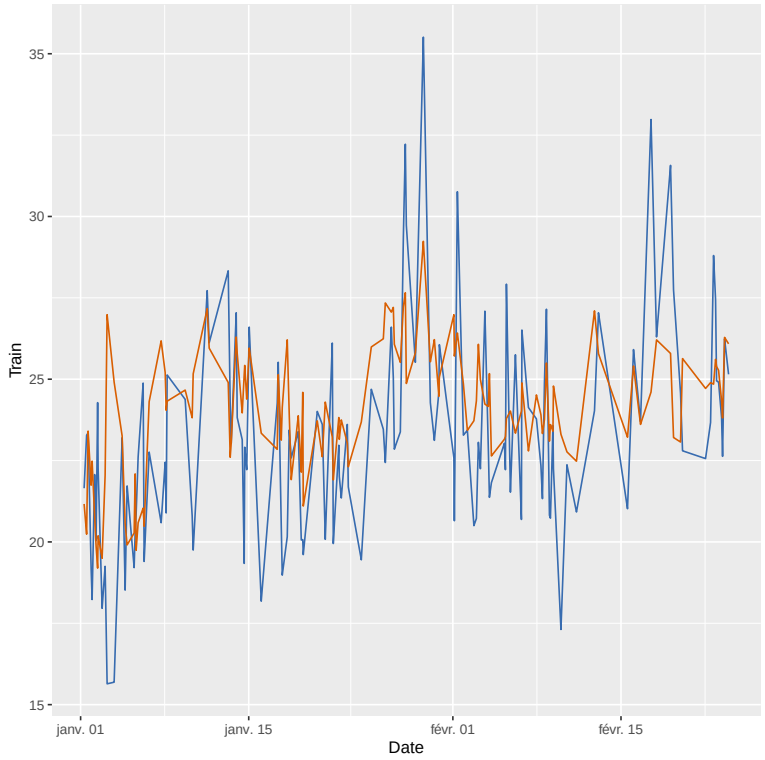
	Methode	R2_test	R2_train
1	Decision Tree	0.10	0.49
2	Bagged Trees	0.18	0.65
3	Random Forest	0.20	0.92
4	GBM	0.19	0.81
5	XGB	0.18	0.97
6	ANN	0.01	0.55
7	Moyenne totale	0.14	0.73



1.7 Fines Jointure SDP Mean 10 minutes

```
## X40µm ~ Poste + Qualité + Débit_CV004 + Dilution_SB002 + Arrosage_Crible_SC003 +
##     Dilution_HP14 + Dilution_HP15 + Dilution_HP18 + Dilution_HP19 +
##     Pression_PK12 + Pression_PK13 + Pression_PK14 + Pression_PK16 +
##     Pression_PK18
## <environment: 0x0000024b570117d0>
```

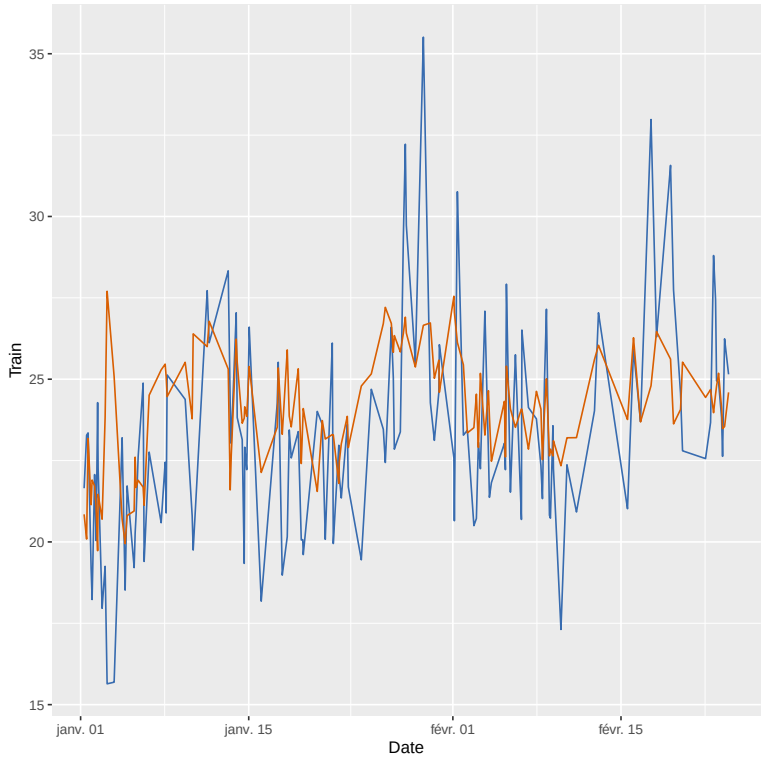
	Methode	R2_test	R2_train
1	Decision Tree	0.06	0.48
2	Bagged Trees	0.14	0.66
3	Random Forest	0.21	0.92
4	GBM	0.20	0.82
5	XGB	0.05	0.97
6	ANN	0.00	0.57
7	Moyenne totale	0.11	0.74



1.8 Fines Jointure SDP Max 10 minutes

```
## X40µm ~ Poste + Qualité + Débit_CV004 + Dilution_SB002 + Arrosage_Crible_SC003 +
##     Dilution_HP14 + Dilution_HP15 + Dilution_HP18 + Dilution_HP19 +
##     Pression_PK12 + Pression_PK13 + Pression_PK14 + Pression_PK16 +
##     Pression_PK18
## <environment: 0x0000024b5209ebb0>
```

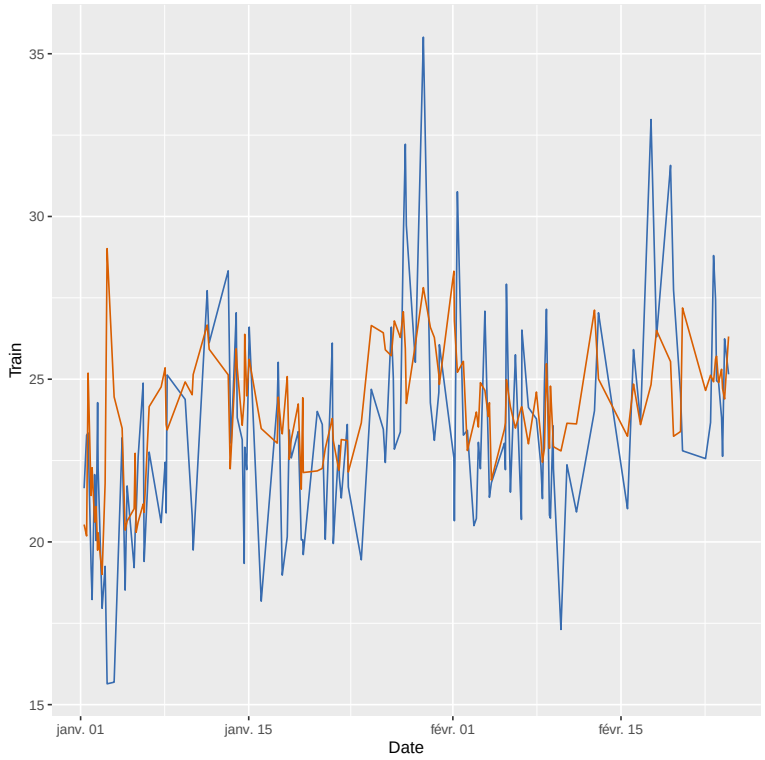
	Methode	R2_test	R2_train
1	Decision Tree	0.10	0.52
2	Bagged Trees	0.14	0.63
3	Random Forest	0.16	0.91
4	GBM	0.14	0.82
5	XGB	0.02	0.97
6	ANN	0.03	0.51
7	Moyenne totale	0.10	0.73



1.9 Fines Jointure SDP Median 10 minutes

```
## X40µm ~ Poste + Qualité + Débit_CV004 + Dilution_SB002 + Arrosage_Crible_SC003 +
##     Dilution_HP14 + Dilution_HP15 + Dilution_HP18 + Dilution_HP19 +
##     Pression_PK12 + Pression_PK13 + Pression_PK14 + Pression_PK16 +
##     Pression_PK18
## <environment: 0x0000024b55fb8c28>
```

	Methode	R2_test	R2_train
1	Decision Tree	0.11	0.50
2	Bagged Trees	0.13	0.67
3	Random Forest	0.16	0.91
4	GBM	0.13	0.82
5	XGB	0.09	0.97
6	ANN	0.03	0.55
7	Moyenne totale	0.11	0.74



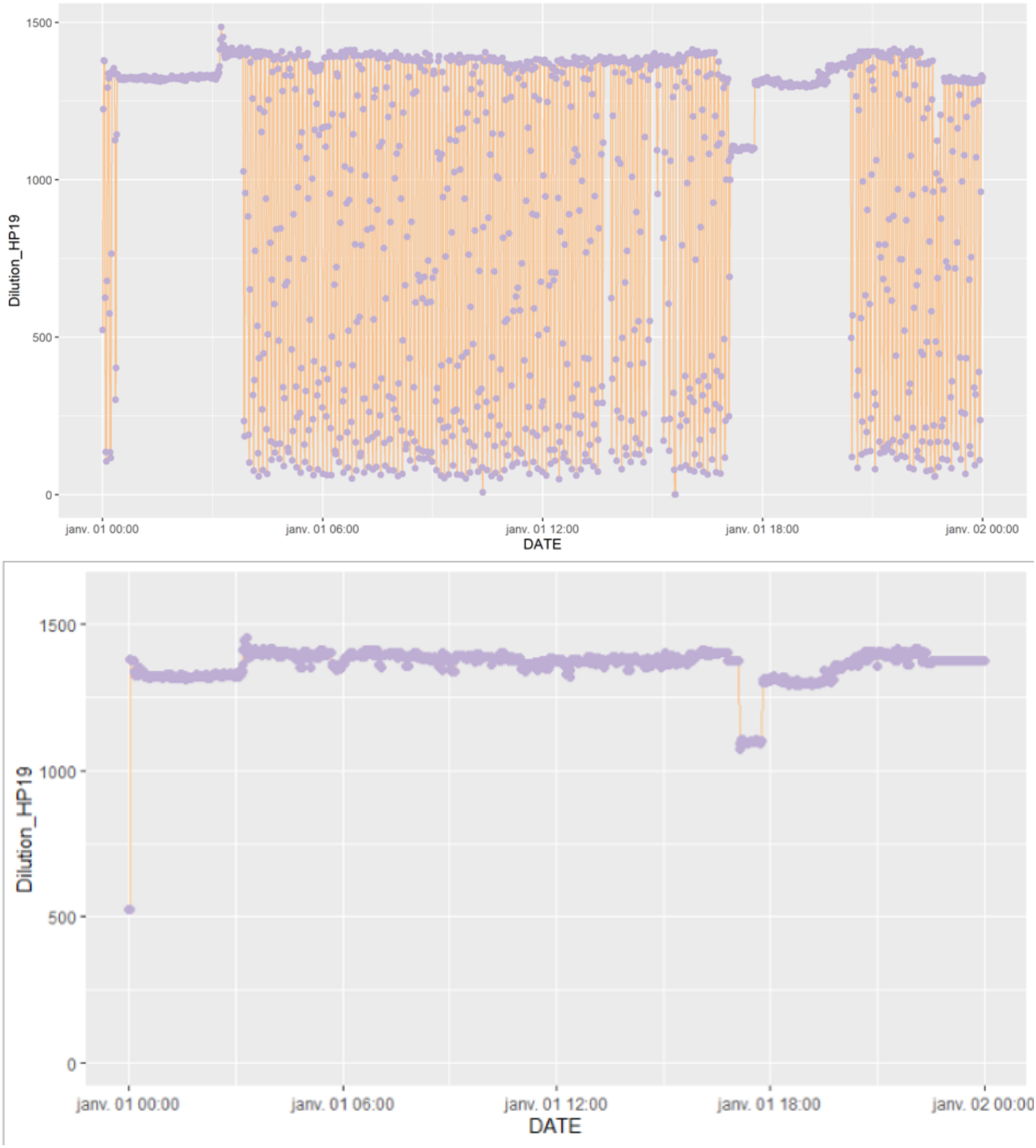
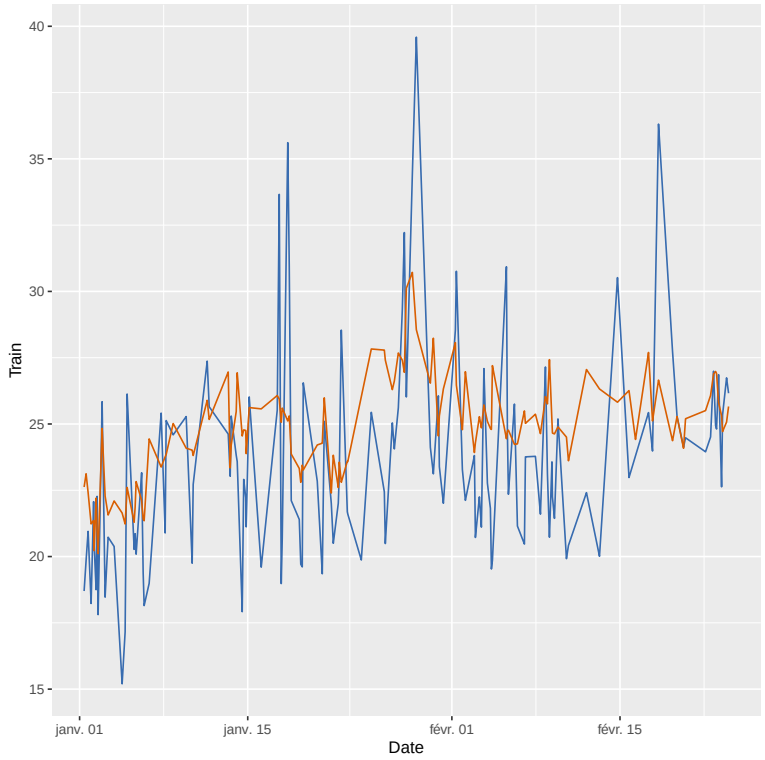


FIGURE 1.1 – Correction de la dilution du hopper 19

1.10 Fines Jointure SDP Mean entre deux SDP

```
## X40µm ~ Poste + Qualité + retart + dure + Débit_CV004 + Dilution_SB002 +
##     Arrosage_Crible_SC003 + Dilution_HP14 + Dilution_HP15 + Dilution_HP18 +
##     Dilution_HP19 + Pression_PK12 + Pression_PK13 + Pression_PK14 +
##     Pression_PK16 + Pression_PK18
## <environment: 0x0000024b5216f4c8>
```

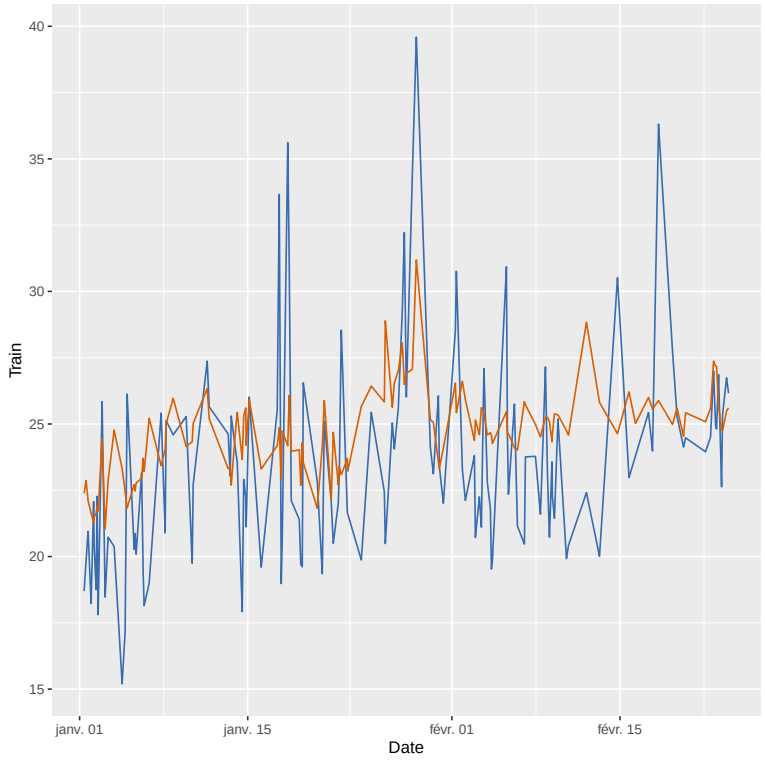
	Methode	R2_test	R2_train
1	Decision Tree	0.17	0.48
2	Bagged Trees	0.24	0.64
3	Random Forest	0.27	0.93
4	GBM	0.26	0.82
5	XGB	0.12	0.97
6	ANN	0.12	0.55
7	Moyenne totale	0.20	0.73



1.11 Fines Jointure SDP Max entre deux SDP

```
## X40µm ~ Poste + Qualité + retart + dure + Débit_CV004 + Dilution_SB002 +
##     Arrosage_Crible_SC003 + Dilution_HP14 + Dilution_HP15 + Dilution_HP18 +
##     Dilution_HP19 + Pression_PK12 + Pression_PK13 + Pression_PK14 +
##     Pression_PK16 + Pression_PK18
## <environment: 0x0000024b4fb51038>
```

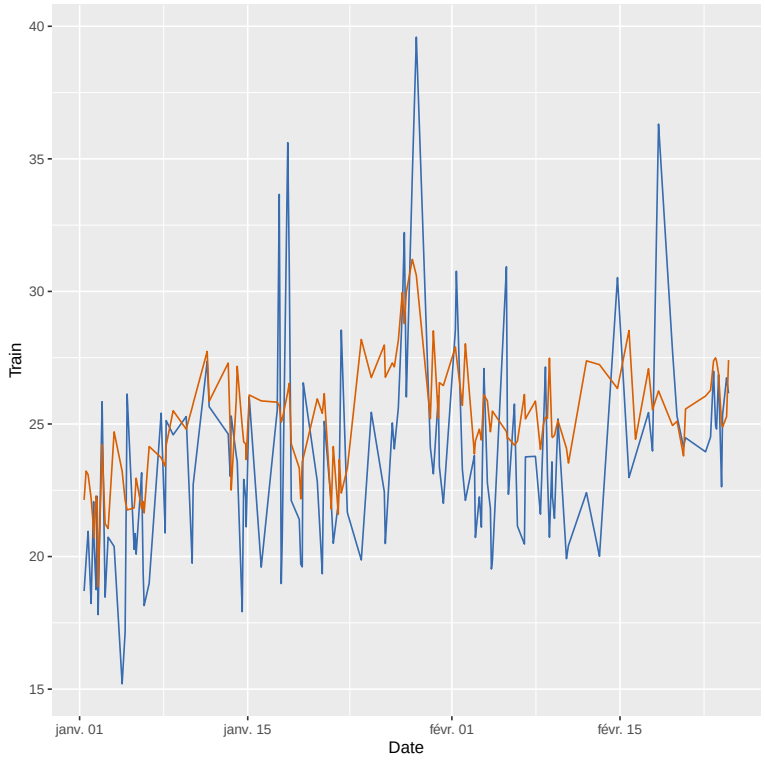
	Methode	R2_test	R2_train
1	Decision Tree	0.08	0.48
2	Bagged Trees	0.18	0.60
3	Random Forest	0.25	0.91
4	GBM	0.23	0.78
5	XGB	0.13	0.97
6	ANN	0.07	0.56
7	Moyenne totale	0.16	0.72



1.12 Fines Jointure SDP Median entre deux SDP

```
## X40µm ~ Poste + Qualité + retart + dure + Débit_CV004 + Dilution_SB002 +
##     Arrosage_Crible_SC003 + Dilution_HP14 + Dilution_HP15 + Dilution_HP18 +
##     Dilution_HP19 + Pression_PK12 + Pression_PK13 + Pression_PK14 +
##     Pression_PK16 + Pression_PK18
## <environment: 0x0000024b505903f8>
```

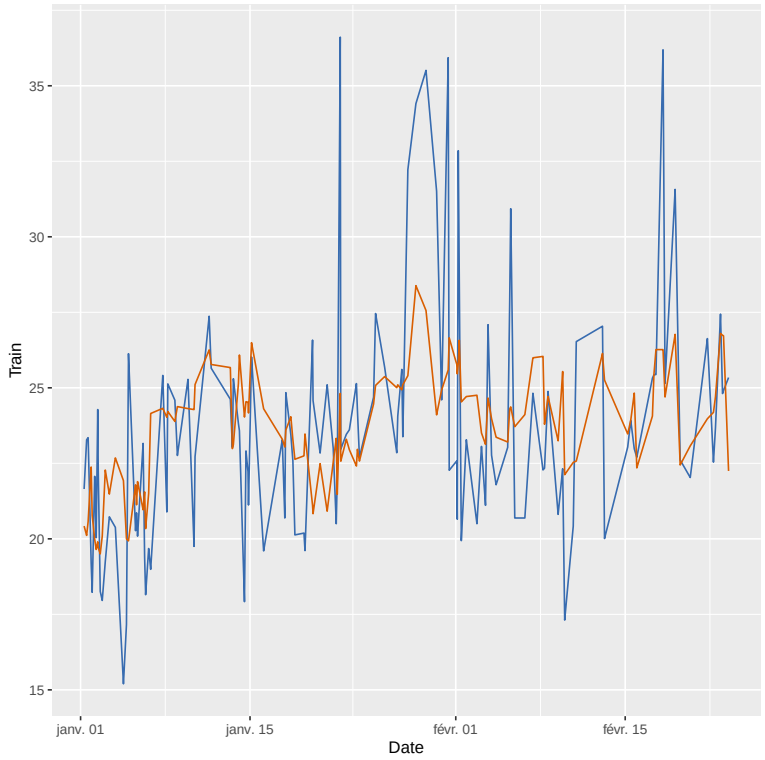
	Methode	R2_test	R2_train
1	Decision Tree	0.07	0.42
2	Bagged Trees	0.21	0.62
3	Random Forest	0.24	0.92
4	GBM	0.28	0.80
5	XGB	0.13	0.97
6	ANN	0.04	0.57
7	Moyenne totale	0.16	0.71



1.13 Fines Jointure SDP Mean 60 minutes

```
## X40µm ~ Poste + Qualité + retart + dure + Débit_CV004 + Dilution_SB002 +
##     Arrosage_Crible_SC003 + Dilution_HP14 + Dilution_HP15 + Dilution_HP18 +
##     Dilution_HP19 + Pression_PK12 + Pression_PK13 + Pression_PK14 +
##     Pression_PK16 + Pression_PK18
## <environment: 0x0000024b5610b340>
```

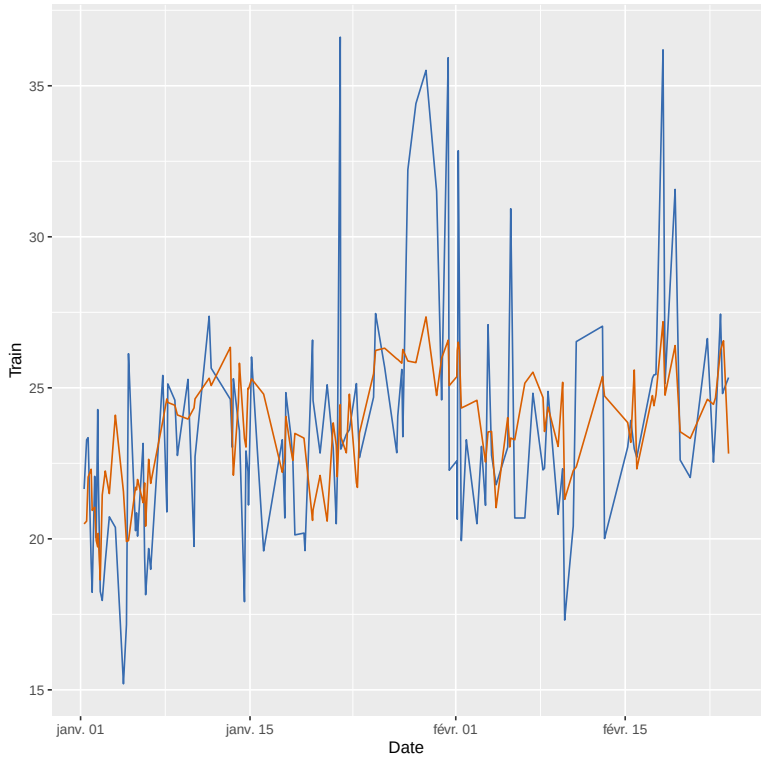
	Methode	R2_test	R2_train
1	Decision Tree	0.12	0.50
2	Bagged Trees	0.27	0.68
3	Random Forest	0.25	0.93
4	GBM	0.25	0.85
5	XGB	0.18	0.98
6	ANN	0.07	0.65
7	Moyenne totale	0.19	0.77



1.14 Fines Jointure SDP Max 60 minutes

```
## X40µm ~ Poste + Qualité + retart + dure + Débit_CV004 + Dilution_SB002 +
##     Arrosage_Crible_SC003 + Dilution_HP14 + Dilution_HP15 + Dilution_HP18 +
##     Dilution_HP19 + Pression_PK12 + Pression_PK13 + Pression_PK14 +
##     Pression_PK16 + Pression_PK18
## <environment: 0x0000024b60661510>
```

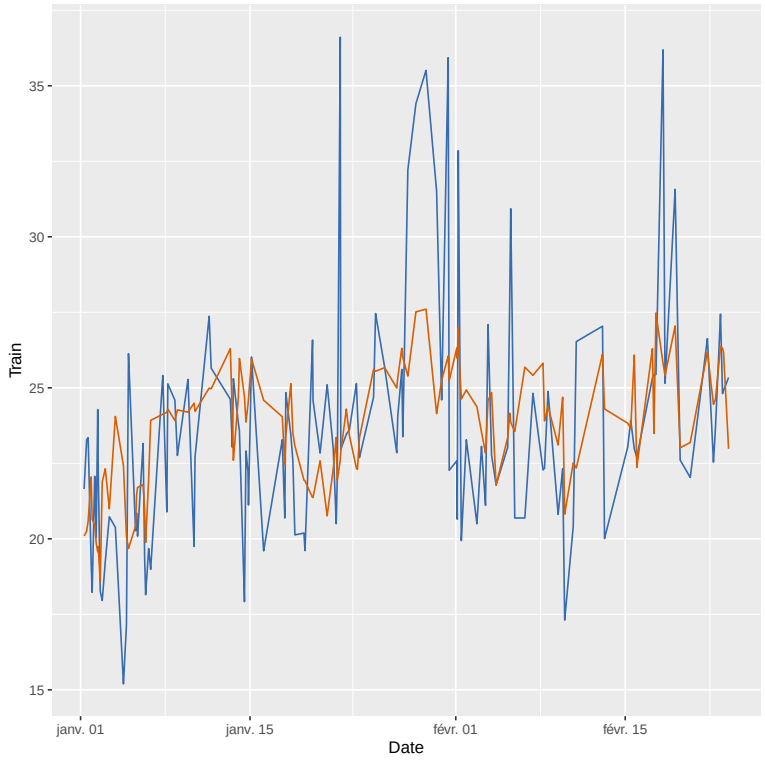
	Methode	R2_test	R2_train
1	Decision Tree	0.11	0.56
2	Bagged Trees	0.24	0.68
3	Random Forest	0.26	0.93
4	GBM	0.23	0.83
5	XGB	0.11	0.97
6	ANN	0.03	0.55
7	Moyenne totale	0.16	0.76



1.15 Fines Jointure SDP Median 60 minutes

```
## X40µm ~ Poste + Qualité + retart + dure + Débit_CV004 + Dilution_SB002 +
##     Arrosage_Crible_SC003 + Dilution_HP14 + Dilution_HP15 + Dilution_HP18 +
##     Dilution_HP19 + Pression_PK12 + Pression_PK13 + Pression_PK14 +
##     Pression_PK16 + Pression_PK18
## <environment: 0x0000024b50456680>
```

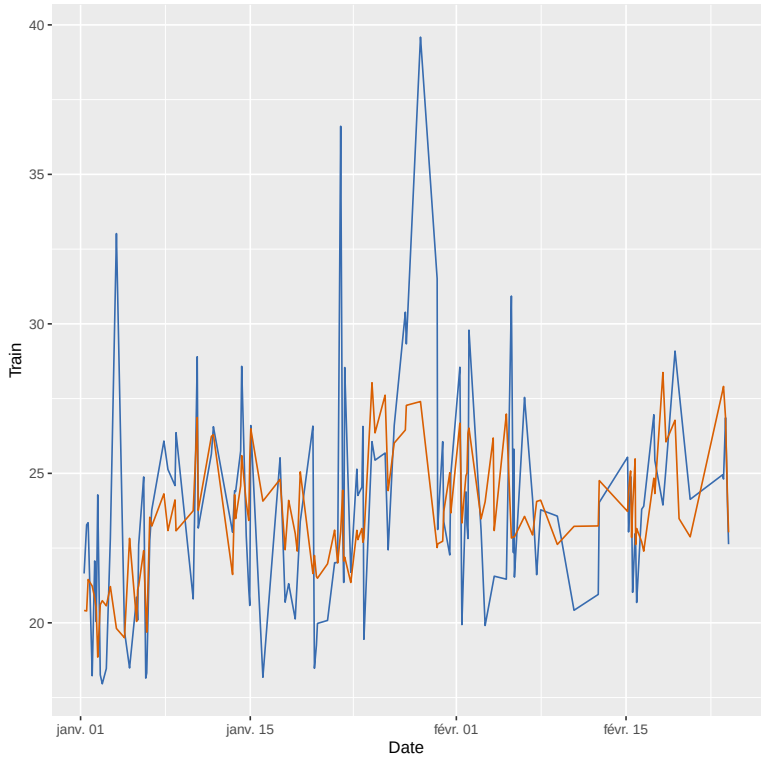
	Methode	R2_test	R2_train
1	Decision Tree	0.23	0.57
2	Bagged Trees	0.22	0.68
3	Random Forest	0.23	0.93
4	GBM	0.21	0.84
5	XGB	0.09	0.97
6	ANN	0.00	0.57
7	Moyenne totale	0.16	0.76



1.16 Fines Jointure SDP Mean 10 minutes

```
## X40µm ~ Poste + Qualité + retart + dure + Débit_CV004 + Dilution_SB002 +
##     Arrosage_Crible_SC003 + Dilution_HP14 + Dilution_HP15 + Dilution_HP18 +
##     Dilution_HP19 + Pression_PK12 + Pression_PK13 + Pression_PK14 +
##     Pression_PK16 + Pression_PK18
## <environment: 0x0000024b4ff0b438>
```

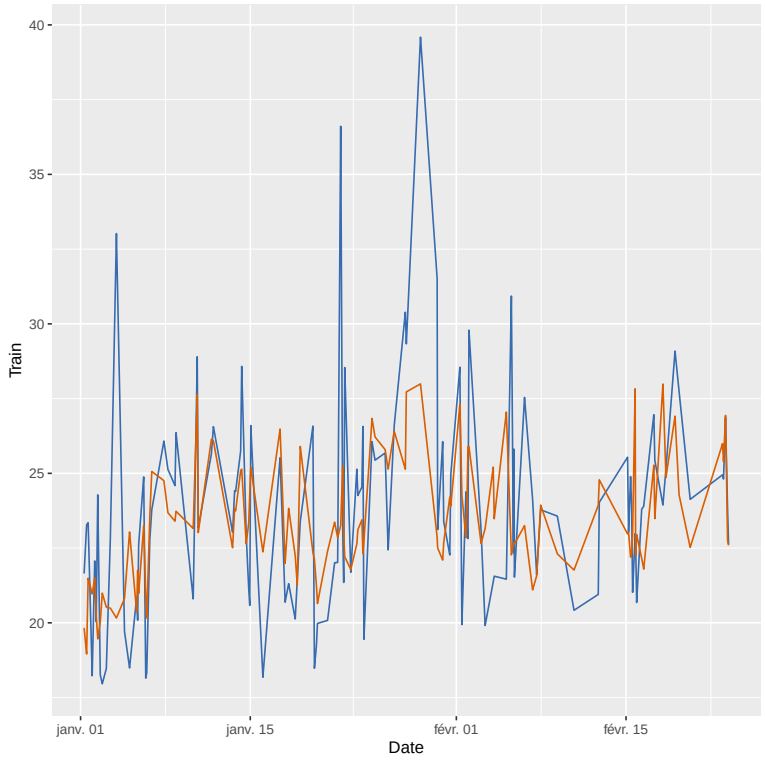
	Methode	R2_test	R2_train
1	Decision Tree	0.11	0.53
2	Bagged Trees	0.18	0.67
3	Random Forest	0.14	0.94
4	GBM	0.14	0.87
5	XGB	0.04	0.99
6	ANN	0.02	0.70
7	Moyenne totale	0.10	0.78



1.17 Fines Jointure SDP Max 10 minutes

```
## X40µm ~ Poste + Qualité + retart + dure + Débit_CV004 + Dilution_SB002 +
##     Arrosage_Crible_SC003 + Dilution_HP14 + Dilution_HP15 + Dilution_HP18 +
##     Dilution_HP19 + Pression_PK12 + Pression_PK13 + Pression_PK14 +
##     Pression_PK16 + Pression_PK18
## <environment: 0x0000024b50ad2e78>
```

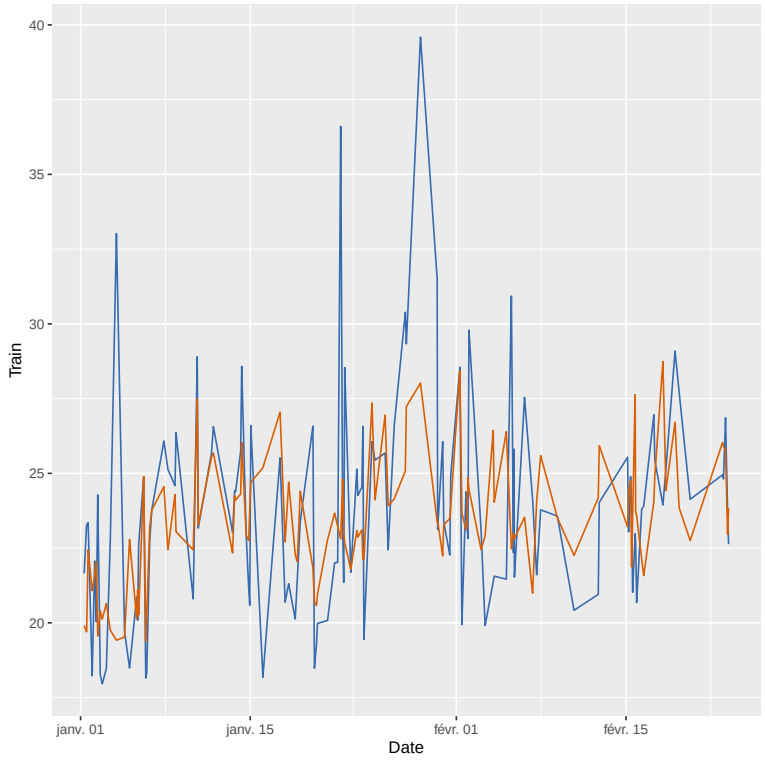
	Methode	R2_test	R2_train
1	Decision Tree	0.18	0.55
2	Bagged Trees	0.17	0.64
3	Random Forest	0.16	0.94
4	GBM	0.21	0.84
5	XGB	0.07	0.98
6	ANN	0.03	0.63
7	Moyenne totale	0.14	0.76



1.18 Fines Jointure SDP Median 10 minutes

```
## X40µm ~ Poste + Qualité + retart + dure + Débit_CV004 + Dilution_SB002 +
##     Arrosage_Crible_SC003 + Dilution_HP14 + Dilution_HP15 + Dilution_HP18 +
##     Dilution_HP19 + Pression_PK12 + Pression_PK13 + Pression_PK14 +
##     Pression_PK16 + Pression_PK18
## <environment: 0x0000024b50457260>
```

	Methode	R2_test	R2_train
1	Decision Tree	0.15	0.59
2	Bagged Trees	0.17	0.70
3	Random Forest	0.15	0.93
4	GBM	0.17	0.85
5	XGB	0.09	0.97
6	ANN	0.00	0.67
7	Moyenne totale	0.12	0.79



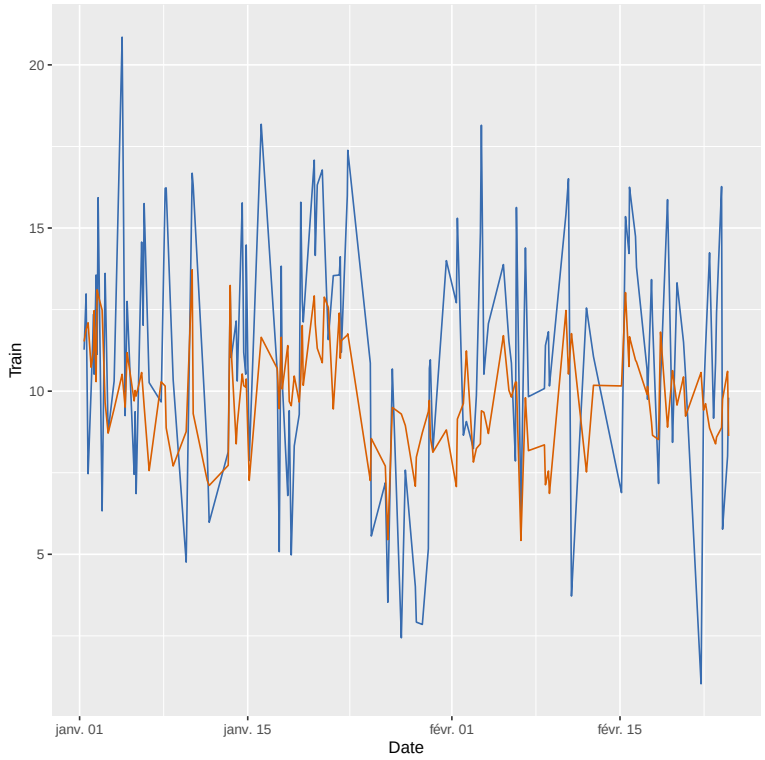
Chapitre 2

Les Gros Classification

2.1 Gros Jointure SDP Mean entre deux SDP

```
## X250µm ~ Poste + Qualité + Débit_CV004 + Dilution_SB002 + Arrosage_Crible_SC003 +
##     Dilution_HP14 + Dilution_HP15 + Dilution_HP18 + Dilution_HP19 +
##     Pression_PK12 + Pression_PK13 + Pression_PK14 + Pression_PK16 +
##     Pression_PK18
## <environment: 0x0000024b51f18038>
```

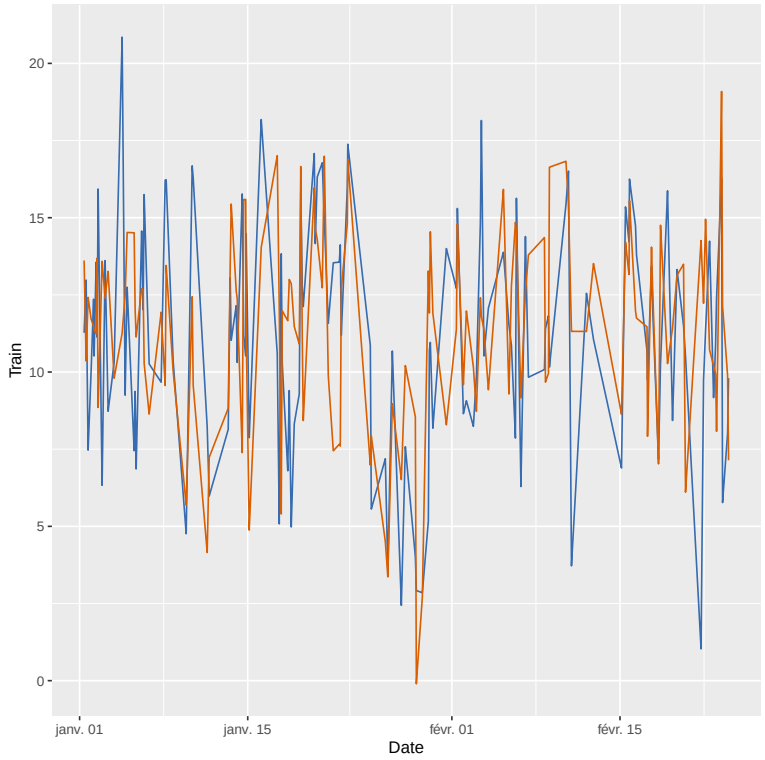
	Methode	R2_test	R2_train
1	Decision Tree	0.00	0.54
2	Bagged Trees	0.09	0.63
3	Random Forest	0.11	0.91
4	GBM	0.14	0.82
5	XGB	0.03	0.98
6	ANN	0.00	0.41
7	Moyenne totale	0.06	0.72



2.2 Gros Jointure SDP Max entre deux SDP

```
## X250µm ~ Poste + Qualité + Débit_CV004 + Dilution_SB002 + Arrosage_Crible_SC003 +
##     Dilution_HP14 + Dilution_HP15 + Dilution_HP18 + Dilution_HP19 +
##     Pression_PK12 + Pression_PK13 + Pression_PK14 + Pression_PK16 +
##     Pression_PK18
## <environment: 0x0000024b53c42140>
```

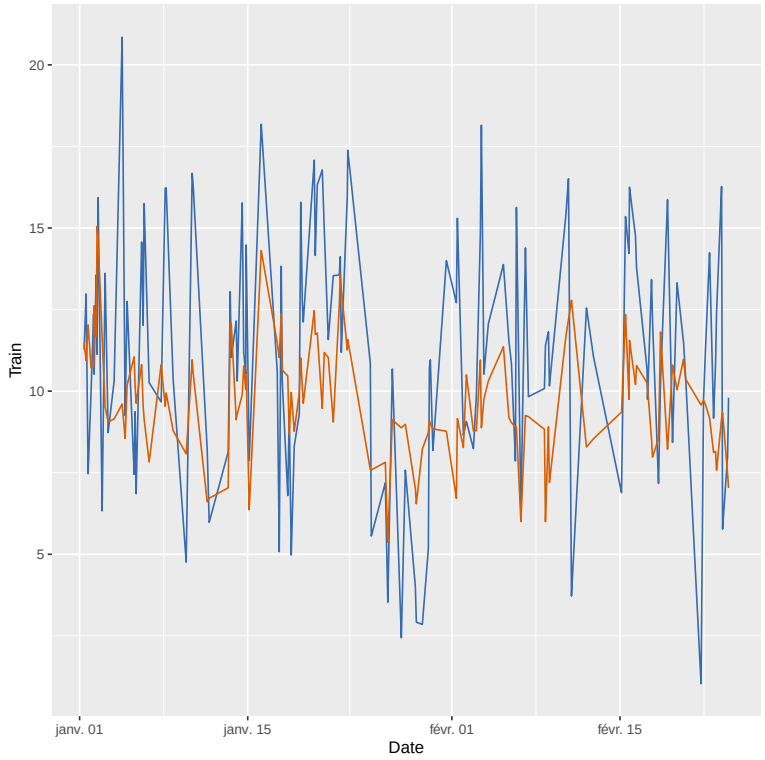
	Methode	R2_test	R2_train
1	Decision Tree	0.01	0.53
2	Bagged Trees	0.08	0.62
3	Random Forest	0.10	0.90
4	GBM	0.11	0.81
5	XGB	0.16	0.97
6	ANN	0.00	0.54
7	Moyenne totale	0.08	0.73



2.3 Gros Jointure SDP Median entre deux SDP

```
## X250µm ~ Poste + Qualité + Débit_CV004 + Dilution_SB002 + Arrosage_Crible_SC003 +
##     Dilution_HP14 + Dilution_HP15 + Dilution_HP18 + Dilution_HP19 +
##     Pression_PK12 + Pression_PK13 + Pression_PK14 + Pression_PK16 +
##     Pression_PK18
## <environment: 0x0000024b53489e30>
```

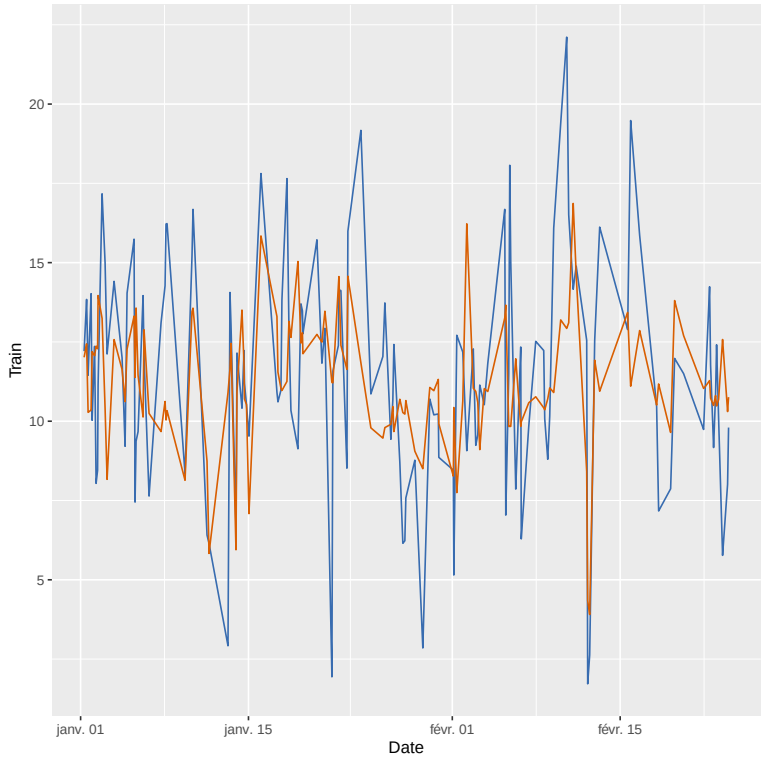
	Methode	R2_test	R2_train
1	Decision Tree	0.02	0.51
2	Bagged Trees	0.08	0.63
3	Random Forest	0.10	0.89
4	GBM	0.16	0.79
5	XGB	0.06	0.97
6	ANN	0.00	0.56
7	Moyenne totale	0.07	0.72



2.4 Gros Jointure SDP Mean 60 minutes

```
## X250µm ~ Poste + Qualité + Débit_CV004 + Dilution_SB002 + Arrosage_Crible_SC003 +
##     Dilution_HP14 + Dilution_HP15 + Dilution_HP18 + Dilution_HP19 +
##     Pression_PK12 + Pression_PK13 + Pression_PK14 + Pression_PK16 +
##     Pression_PK18
## <environment: 0x0000024b4ef24170>
```

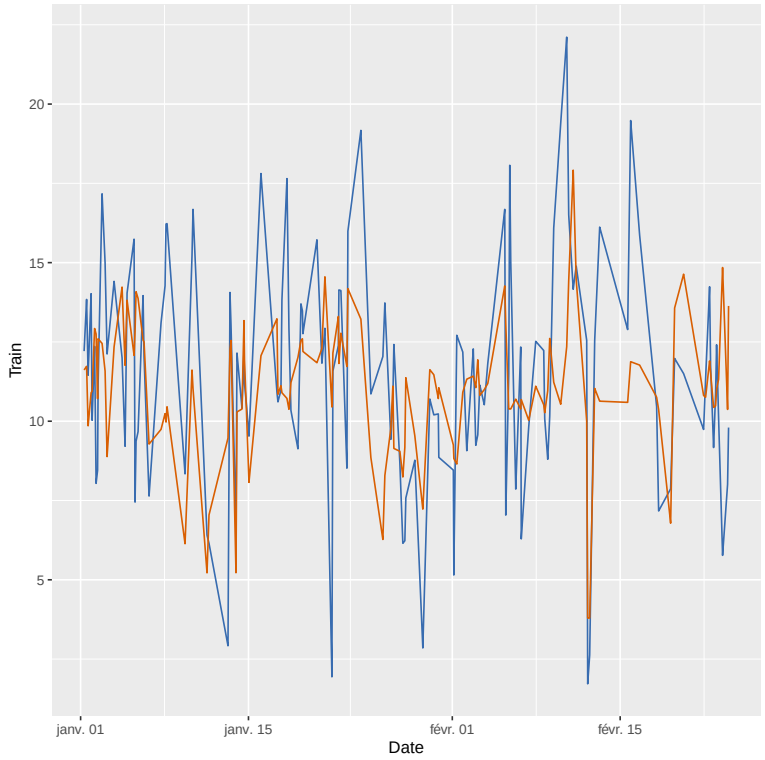
	Methode	R2_test	R2_train
1	Decision Tree	0.06	0.47
2	Bagged Trees	0.17	0.67
3	Random Forest	0.19	0.92
4	GBM	0.18	0.83
5	XGB	0.09	0.97
6	ANN	0.03	0.48
7	Moyenne totale	0.12	0.72



2.5 Gros Jointure SDP Max 60 minutes

```
## X250µm ~ Poste + Qualité + Débit_CV004 + Dilution_SB002 + Arrosage_Crible_SC003 +
##     Dilution_HP14 + Dilution_HP15 + Dilution_HP18 + Dilution_HP19 +
##     Pression_PK12 + Pression_PK13 + Pression_PK14 + Pression_PK16 +
##     Pression_PK18
## <environment: 0x0000024b5026b028>
```

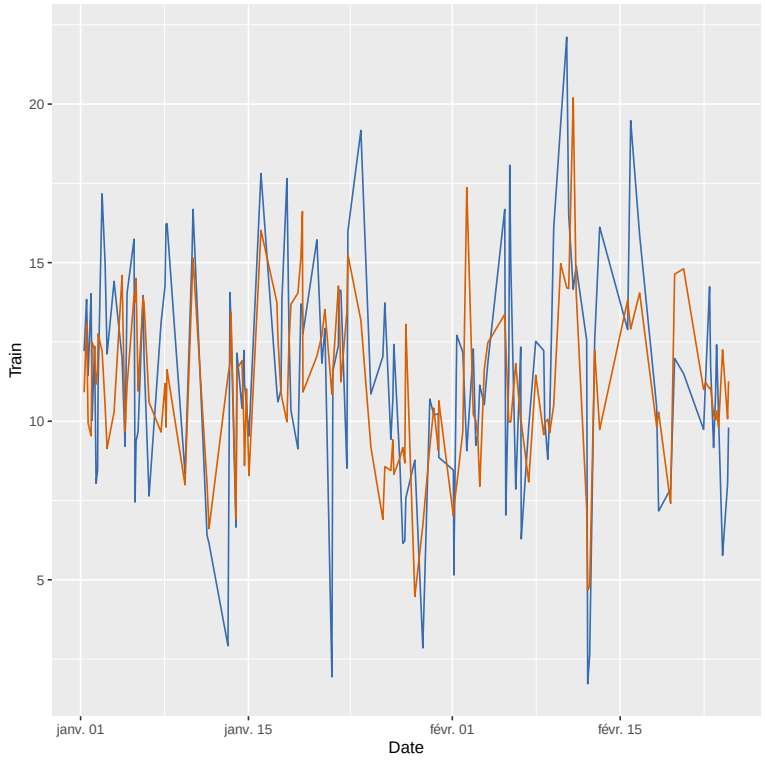
	Methode	R2_test	R2_train
1	Decision Tree	0.10	0.55
2	Bagged Trees	0.20	0.68
3	Random Forest	0.18	0.91
4	GBM	0.15	0.83
5	XGB	0.04	0.97
6	ANN	0.03	0.49
7	Moyenne totale	0.12	0.74



2.6 Gros Jointure SDP Median 60 minutes

```
## X250µm ~ Poste + Qualité + Débit_CV004 + Dilution_SB002 + Arrosage_Crible_SC003 +
##     Dilution_HP14 + Dilution_HP15 + Dilution_HP18 + Dilution_HP19 +
##     Pression_PK12 + Pression_PK13 + Pression_PK14 + Pression_PK16 +
##     Pression_PK18
## <environment: 0x0000024b534ed6d0>
```

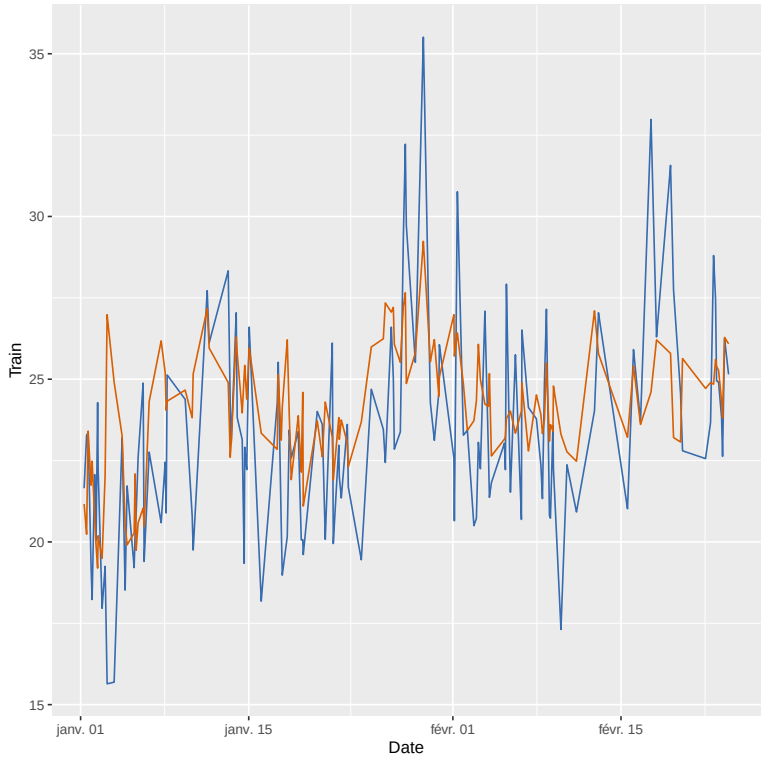
	Methode	R2_test	R2_train
1	Decision Tree	0.07	0.48
2	Bagged Trees	0.16	0.64
3	Random Forest	0.20	0.90
4	GBM	0.21	0.82
5	XGB	0.11	0.97
6	ANN	0.05	0.59
7	Moyenne totale	0.13	0.73



2.7 Gros Jointure SDP Mean 10 minutes

```
## X40µm ~ Poste + Qualité + Débit_CV004 + Dilution_SB002 + Arrosage_Crible_SC003 +
##     Dilution_HP14 + Dilution_HP15 + Dilution_HP18 + Dilution_HP19 +
##     Pression_PK12 + Pression_PK13 + Pression_PK14 + Pression_PK16 +
##     Pression_PK18
## <environment: 0x0000024b50b029e0>
```

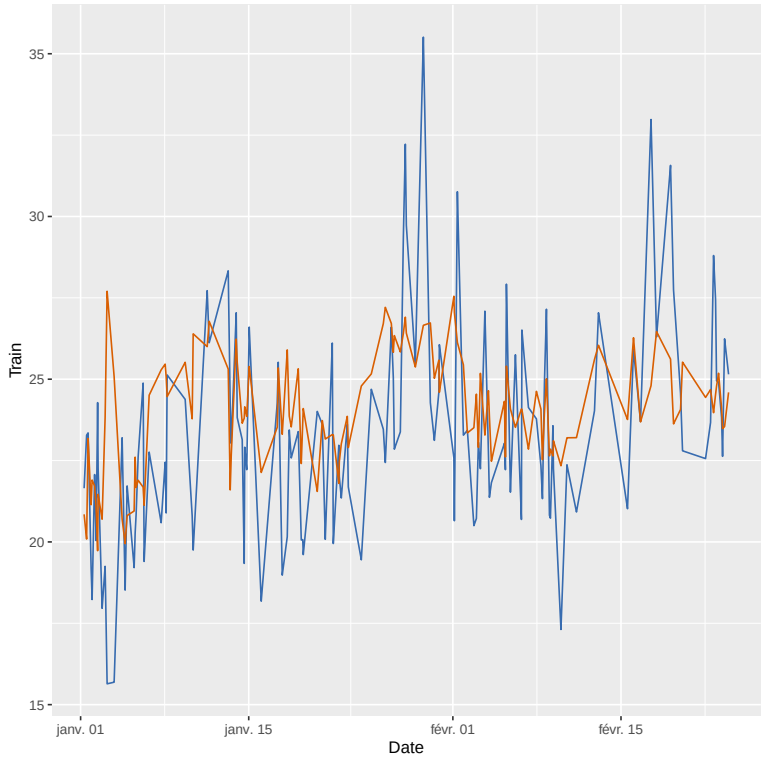
	Methode	R2_test	R2_train
1	Decision Tree	0.06	0.48
2	Bagged Trees	0.14	0.66
3	Random Forest	0.21	0.92
4	GBM	0.20	0.82
5	XGB	0.05	0.97
6	ANN	0.00	0.57
7	Moyenne totale	0.11	0.74



2.8 Gros Jointure SDP Max 10 minutes

```
## X40µm ~ Poste + Qualité + Débit_CV004 + Dilution_SB002 + Arrosage_Crible_SC003 +
##     Dilution_HP14 + Dilution_HP15 + Dilution_HP18 + Dilution_HP19 +
##     Pression_PK12 + Pression_PK13 + Pression_PK14 + Pression_PK16 +
##     Pression_PK18
## <environment: 0x0000024b51699178>
```

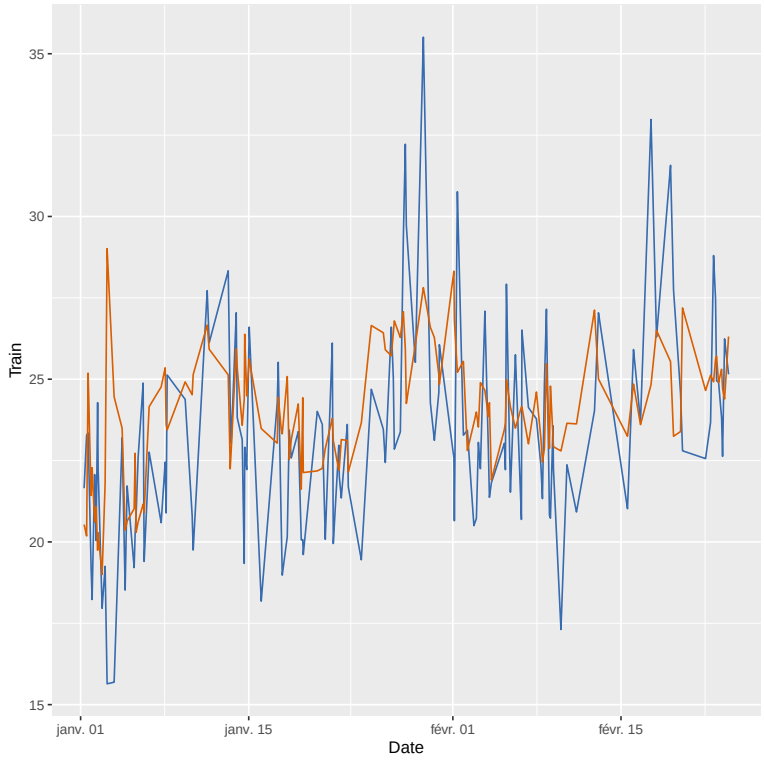
	Methode	R2_test	R2_train
1	Decision Tree	0.10	0.52
2	Bagged Trees	0.14	0.63
3	Random Forest	0.16	0.91
4	GBM	0.14	0.82
5	XGB	0.02	0.97
6	ANN	0.03	0.51
7	Moyenne totale	0.10	0.73



2.9 Gros Jointure SDP Median 10 minutes

```
## X40µm ~ Poste + Qualité + Débit_CV004 + Dilution_SB002 + Arrosage_Crible_SC003 +
##     Dilution_HP14 + Dilution_HP15 + Dilution_HP18 + Dilution_HP19 +
##     Pression_PK12 + Pression_PK13 + Pression_PK14 + Pression_PK16 +
##     Pression_PK18
## <environment: 0x0000024b53f95088>
```

	Methode	R2_test	R2_train
1	Decision Tree	0.11	0.50
2	Bagged Trees	0.13	0.67
3	Random Forest	0.16	0.91
4	GBM	0.13	0.82
5	XGB	0.09	0.97
6	ANN	0.03	0.55
7	Moyenne totale	0.11	0.74



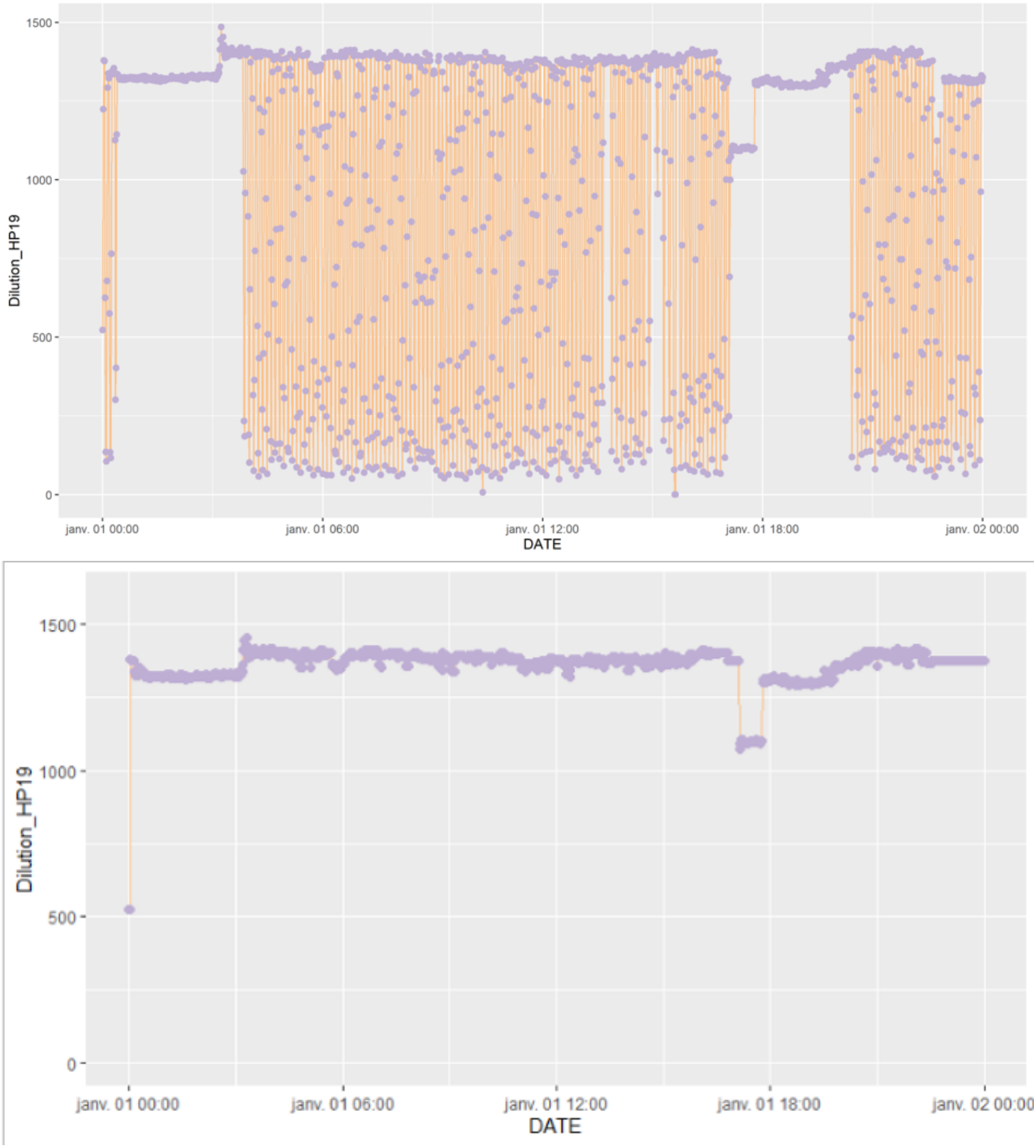
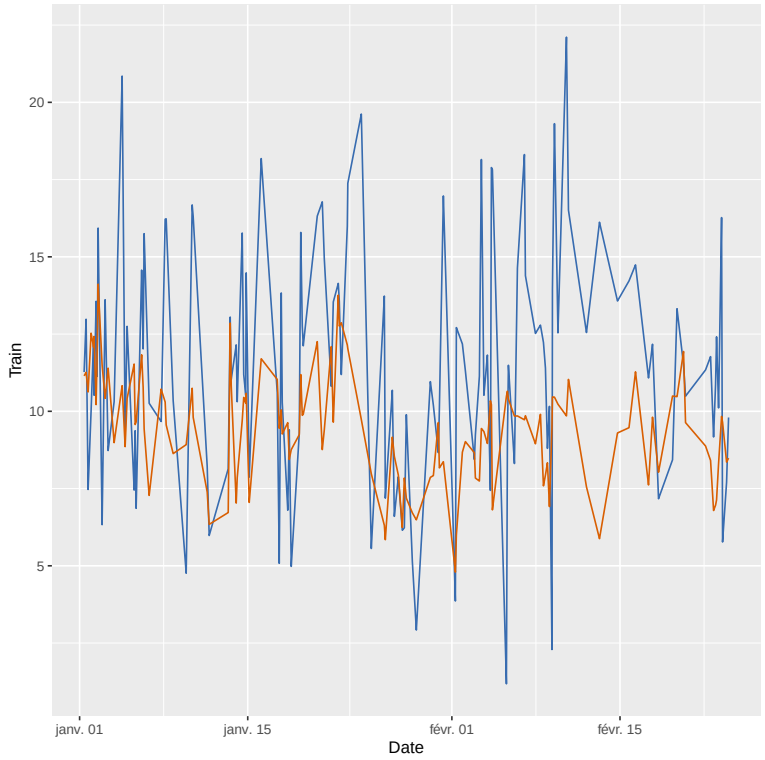


FIGURE 2.1 – Correction de la dilution du hopper 19

2.10 Gros Jointure SDP Mean entre deux SDP

```
## X250µm ~ Poste + Qualité + retart + dure + Débit_CV004 + Dilution_SB002 +
##     Arrosage_Crible_SC003 + Dilution_HP14 + Dilution_HP15 + Dilution_HP18 +
##     Dilution_HP19 + Pression_PK12 + Pression_PK13 + Pression_PK14 +
##     Pression_PK16 + Pression_PK18
## <environment: 0x0000024b53a09948>
```

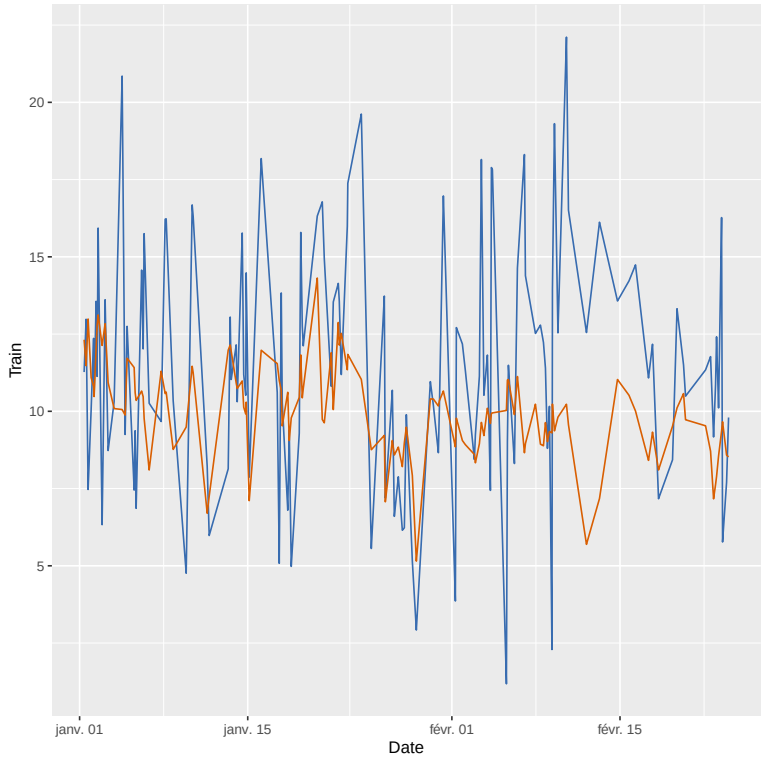
	Methode	R2_test	R2_train
1	Decision Tree	0.01	0.50
2	Bagged Trees	0.05	0.66
3	Random Forest	0.10	0.92
4	GBM	0.11	0.84
5	XGB	0.07	0.97
6	ANN	0.01	0.64
7	Moyenne totale	0.06	0.76



2.11 Gros Jointure SDP Max entre deux SDP

```
## X250µm ~ Poste + Qualité + retart + dure + Débit_CV004 + Dilution_SB002 +
##     Arrosage_Crible_SC003 + Dilution_HP14 + Dilution_HP15 + Dilution_HP18 +
##     Dilution_HP19 + Pression_PK12 + Pression_PK13 + Pression_PK14 +
##     Pression_PK16 + Pression_PK18
## <environment: 0x0000024b501f38a8>
```

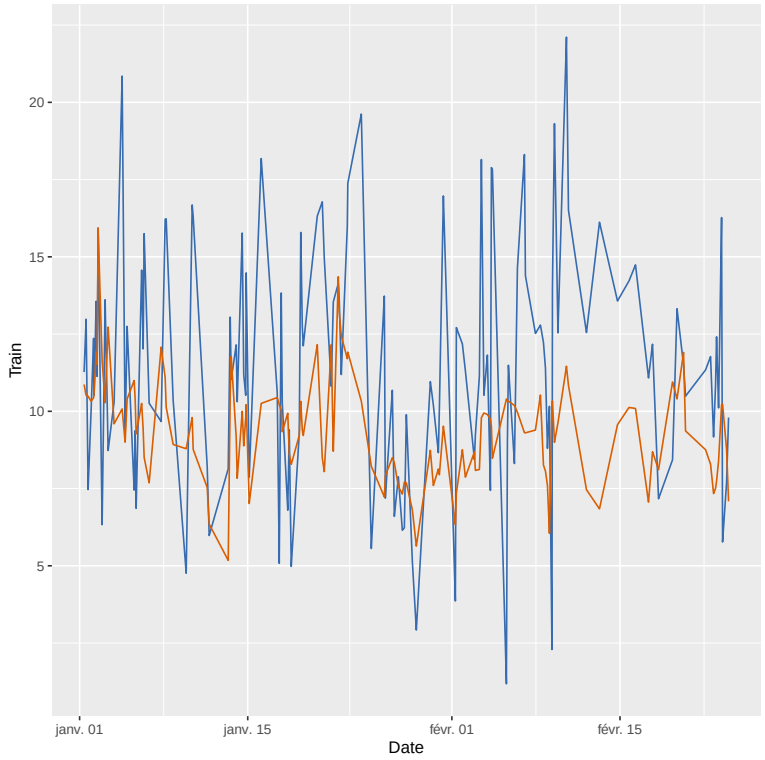
	Methode	R2_test	R2_train
1	Decision Tree	0.02	0.46
2	Bagged Trees	0.04	0.62
3	Random Forest	0.10	0.91
4	GBM	0.08	0.82
5	XGB	0.06	0.96
6	ANN	0.00	0.66
7	Moyenne totale	0.05	0.74



2.12 Gros Jointure SDP Median entre deux SDP

```
## X250µm ~ Poste + Qualité + retart + dure + Débit_CV004 + Dilution_SB002 +
##     Arrosage_Crible_SC003 + Dilution_HP14 + Dilution_HP15 + Dilution_HP18 +
##     Dilution_HP19 + Pression_PK12 + Pression_PK13 + Pression_PK14 +
##     Pression_PK16 + Pression_PK18
## <environment: 0x0000024b506772e8>
```

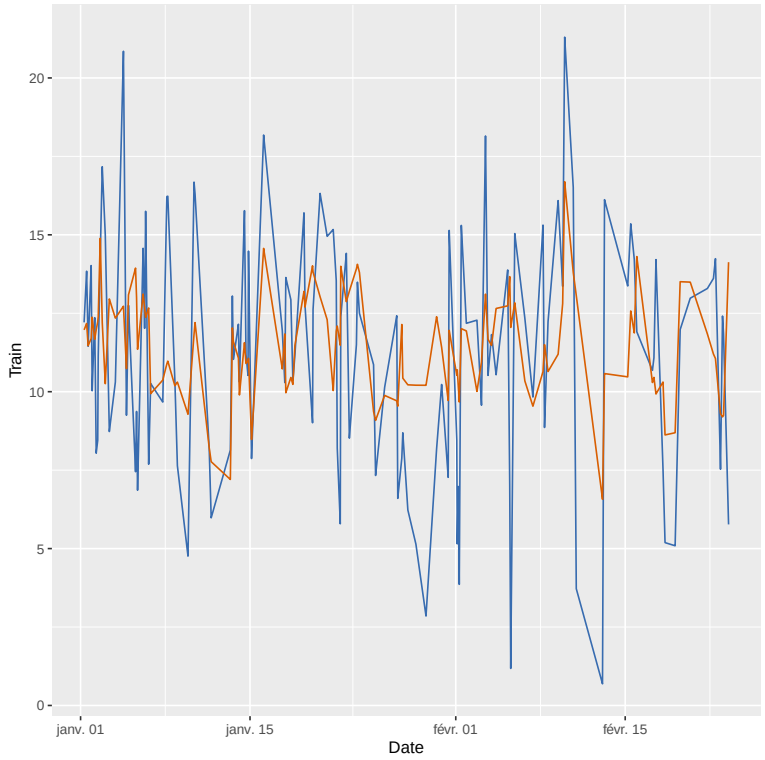
	Methode	R2_test	R2_train
1	Decision Tree	0.05	0.50
2	Bagged Trees	0.04	0.64
3	Random Forest	0.10	0.92
4	GBM	0.10	0.82
5	XGB	0.02	0.98
6	ANN	0.01	0.64
7	Moyenne totale	0.05	0.75



2.13 Gros Jointure SDP Mean 60 minutes

```
## X250µm ~ Poste + Qualité + retart + dure + Débit_CV004 + Dilution_SB002 +
##     Arrosage_Crible_SC003 + Dilution_HP14 + Dilution_HP15 + Dilution_HP18 +
##     Dilution_HP19 + Pression_PK12 + Pression_PK13 + Pression_PK14 +
##     Pression_PK16 + Pression_PK18
## <environment: 0x0000024b55efd898>
```

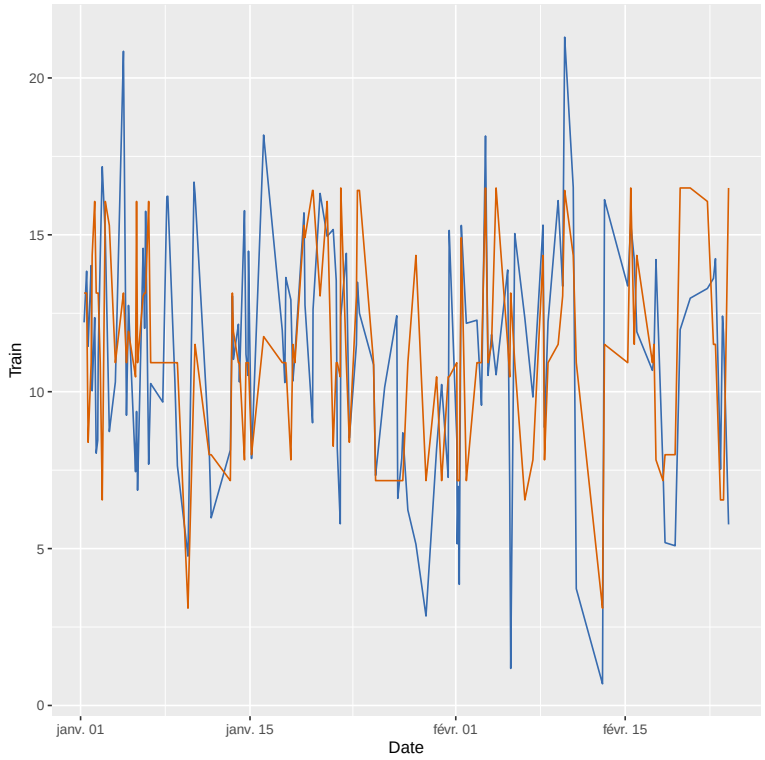
	Methode	R2_test	R2_train
1	Decision Tree	0.10	0.54
2	Bagged Trees	0.16	0.69
3	Random Forest	0.18	0.92
4	GBM	0.12	0.83
5	XGB	0.09	0.97
6	ANN	0.03	0.52
7	Moyenne totale	0.11	0.75



2.14 Gros Jointure SDP Max 60 minutes

```
## X250µm ~ Poste + Qualité + retart + dure + Débit_CV004 + Dilution_SB002 +
##     Arrosage_Crible_SC003 + Dilution_HP14 + Dilution_HP15 + Dilution_HP18 +
##     Dilution_HP19 + Pression_PK12 + Pression_PK13 + Pression_PK14 +
##     Pression_PK16 + Pression_PK18
## <environment: 0x0000024b5609d4a8>
```

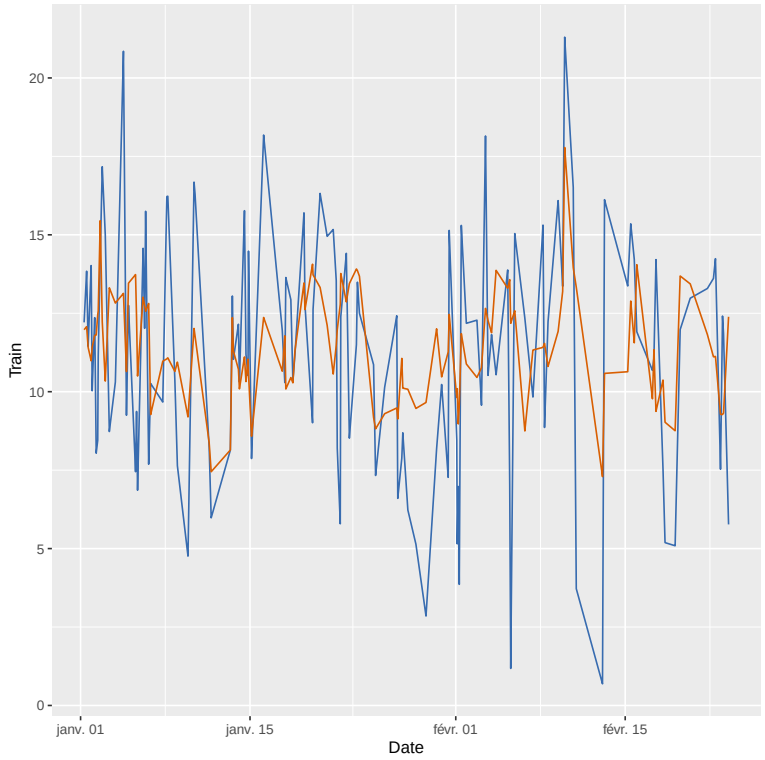
	Methode	R2_test	R2_train
1	Decision Tree	0.14	0.56
2	Bagged Trees	0.09	0.68
3	Random Forest	0.13	0.92
4	GBM	0.08	0.84
5	XGB	0.06	0.98
6	ANN	0.00	0.57
7	Moyenne totale	0.08	0.76



2.15 Gros Jointure SDP Median 60 minutes

```
## X250µm ~ Poste + Qualité + retart + dure + Débit_CV004 + Dilution_SB002 +
##     Arrosage_Crible_SC003 + Dilution_HP14 + Dilution_HP15 + Dilution_HP18 +
##     Dilution_HP19 + Pression_PK12 + Pression_PK13 + Pression_PK14 +
##     Pression_PK16 + Pression_PK18
## <environment: 0x0000024b55ef5f60>
```

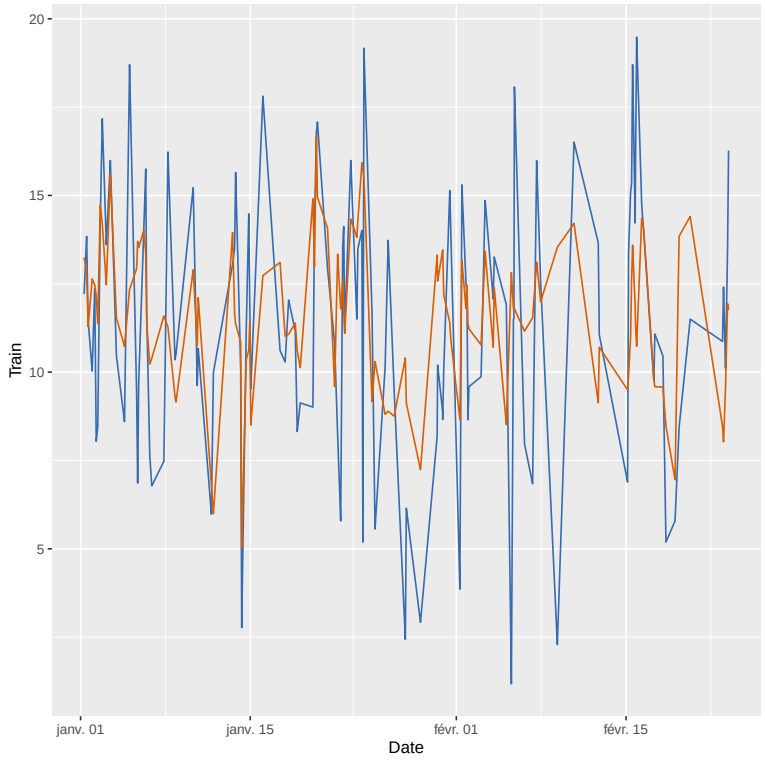
	Methode	R2_test	R2_train
1	Decision Tree	0.07	0.47
2	Bagged Trees	0.17	0.67
3	Random Forest	0.18	0.92
4	GBM	0.17	0.82
5	XGB	0.02	0.97
6	ANN	0.00	0.60
7	Moyenne totale	0.10	0.74



2.16 Gros Jointure SDP Mean 10 minutes

```
## X250µm ~ Poste + Qualité + retart + dure + Débit_CV004 + Dilution_SB002 +
##     Arrosage_Crible_SC003 + Dilution_HP14 + Dilution_HP15 + Dilution_HP18 +
##     Dilution_HP19 + Pression_PK12 + Pression_PK13 + Pression_PK14 +
##     Pression_PK16 + Pression_PK18
## <environment: 0x0000024b522ff980>
```

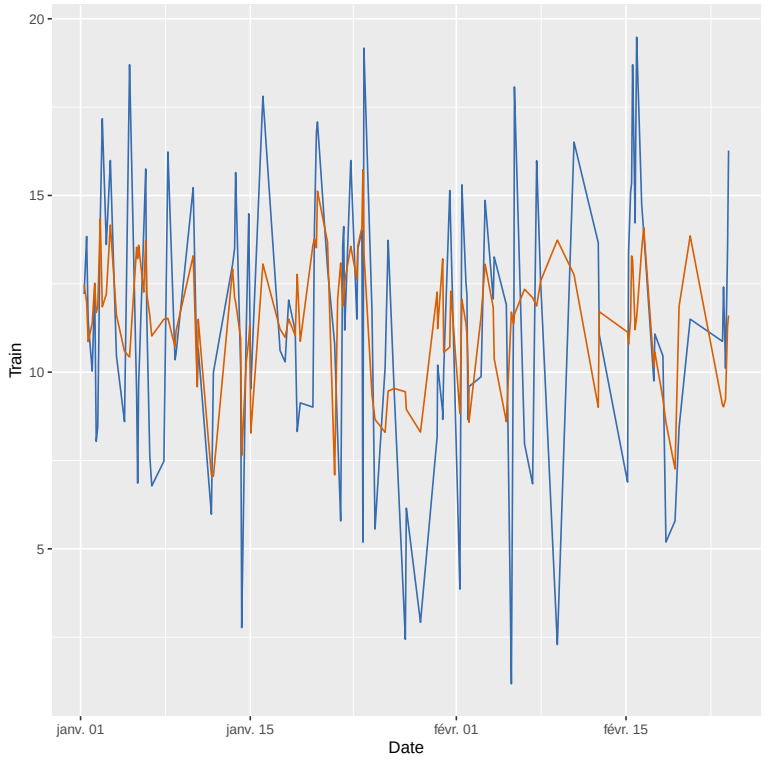
	Methode	R2_test	R2_train
1	Decision Tree	0.08	0.61
2	Bagged Trees	0.15	0.67
3	Random Forest	0.14	0.93
4	GBM	0.17	0.84
5	XGB	0.08	0.98
6	ANN	0.05	0.52
7	Moyenne totale	0.11	0.76



2.17 Gros Jointure SDP Max 10 minutes

```
## X250µm ~ Poste + Qualité + retart + dure + Débit_CV004 + Dilution_SB002 +
##     Arrosage_Crible_SC003 + Dilution_HP14 + Dilution_HP15 + Dilution_HP18 +
##     Dilution_HP19 + Pression_PK12 + Pression_PK13 + Pression_PK14 +
##     Pression_PK16 + Pression_PK18
## <environment: 0x0000024b53487a78>
```

	Methode	R2_test	R2_train
1	Decision Tree	0.10	0.59
2	Bagged Trees	0.12	0.67
3	Random Forest	0.13	0.93
4	GBM	0.13	0.85
5	XGB	0.03	0.98
6	ANN	0.03	0.62
7	Moyenne totale	0.09	0.77



2.18 Gros Jointure SDP Median 10 minutes

```
## X250µm ~ Poste + Qualité + retart + dure + Débit_CV004 + Dilution_SB002 +
##     Arrosage_Crible_SC003 + Dilution_HP14 + Dilution_HP15 + Dilution_HP18 +
##     Dilution_HP19 + Pression_PK12 + Pression_PK13 + Pression_PK14 +
##     Pression_PK16 + Pression_PK18
## <environment: 0x0000024b521ed5f0>
```

	Methode	R2_test	R2_train
1	Decision Tree	0.05	0.53
2	Bagged Trees	0.15	0.67
3	Random Forest	0.14	0.92
4	GBM	0.15	0.84
5	XGB	0.08	0.98
6	ANN	0.02	0.60
7	Moyenne totale	0.10	0.76