



MÉTHODOLOGIE

RÉALISATION D'UNE SIMULATION D'UN CHANGEMENT DE L'OCCUPATION DU SOL – MODELE MESALES

MÉTHODE

SYNDICAT MIXTE DU BASSIN VERSANT DE L'ARMANÇON

2017 – 2019



SOMMAIRE

INTRODUCTION 3

OPÉRATIONS 3

ANNEXE 8

INTRODUCTION

L'objectif de ce document est de préciser les traitements réalisés pour réaliser une ou plusieurs simulations de changement de l'occupation du sol et observer l'impact sur le modèle MESALES¹ établi dans le cadre de l'étude « Hydrologie des bassins versants » .

Le modèle MESALES croise les différentes variables listées ci-dessous :

- **L'occupation du sol** (*variable utilisée pour la simulation*) ;
- **La battance** ;
- **La topographie (pente et surface drainée)** ;
- **L'érodibilité** ;
- **La climatologie** ;

Les opérations détaillées ci-dessous ont été effectuées sur le logiciel **Quantum GIS (Qgis) version Pisa 2.10.1**.

Ces opérations font référence à une étude menée sur les communes de Dannemoine, Épineuil, Junay, Tonnerre et Vézennes permettant d'évaluer les effets du nouveau zonage des aires AOC viticoles en termes de ruissellement et d'érosion. Il s'agit donc de comparer l'indice MESALES initial puis simulé sur le périmètre concerné en incluant les nouvelles données.

Dans cet exemple, seule la saison hivernale est prise en compte.

OPÉRATIONS

Opération 1 (annexe 1)

Il s'agit de sélectionner la zone de travail pour la simulation puis de découper l'ensemble des rasters correspondants aux variables du modèle MESALES à savoir :

- L'occupation du sol
- La battance
- L'érodibilité
- L'indice topographique
- L'indice climatologique

Logiciel : QGis

¹ DEGAN F., SALVADORE-BLANES S. et CERDAN O., (2015), Cartographie de l'aléa érosif sur le bassin Loire-Bretagne, projet VERSEAU, 102 p.

Traitement > Boite à outils...> Commandes GRASS [160 géotraitements] > Raster (r.*) > r.mapcalculator – Calculate new raster map from a r.mapcalc expression

Formule intégrée dans la calculatrice raster

« NOM_DE_LA_COUCHE »

- **Emprise de la région GRASS (xmin,xmax,ymin,ymax) :**

Ouest : 766530

Est : 779315

Sud : 6744200

Nord : 6758500

Les coordonnées doivent se terminer par un multiple de 5 à savoir « 5 » ou « 0 »

- **Taille de la cellule de la région GRASS (0 pour la valeur par défaut) :** Valeur « 5 » pour un pixel de 5m par 5m

Opération 2

Les zones qui feront l'objet de la simulation de changement de l'occupation du sol sont renseignées dans un fichier vectoriel.

Celles-ci peuvent être vectorisées ou récupérées sur une base de données si elles correspondent à des éléments en particulier. Dans notre cas, les aires d'AOC viticoles sont issues de Géoportail et des données de l'INAO de 2016.

Une fois les données récupérées / vectorisées l'opération 2 consiste à créer une nouvelle colonne dans la table attributaire correspondante

Logiciel : QGis

Table attributaire > Activer le mode édition > Nouvelle colonne

Opération 3 (Annexe 2)

La nouvelle colonne créée à l'opération 2 est renseignée à l'aide des tableaux en **annexe 2**. Dans cet exemple, nous avons simulé une viticulture pour les années 2015, 2016 et 2017 en hiver.

- Le taux de couverture au sol est donc de 1 pour la « Vigne »

- Le code couvert résultant « 111 » donne une classe finale d'occupation du sol de « 1 » soit « Sol nu 3/3 ans »

D'éventuelles bandes enherbées au sein de la vigne ne sont pas prises en compte pour déterminer un scénario le plus défavorable.

Logiciel : QGis

Activer le mode édition > Renseigner « 1 » dans la colonne pour l'ensemble des polygones

Opération 4

Il s'agit de rasteriser la couche vecteur finale obtenue lors de l'opération 3 en choisissant la classe d'occupation du sol comme valeur de pixel.

Logiciel : QGis

Raster > Conversion > Rasteriser (vecteur vers raster)

- Emprise : emprise retenue pour le découpage
- Résolution : 5m

Opération 5

Cette opération est similaire l'opération 14 de la variable « Occupation du sol » effectuée dans le « Rapport méthodologique d'identification et de cartographie des zones de ruissellement et d'érosion sur le bassin versant de l'Armançon ».

Deux fichiers rasters sont utilisés :

- *Le raster d'occupation du sol initial découpé issu de l'opération 1 ;*
- *Le raster de simulation issu de l'opération 4 ;*

Il s'agit de créer un nouveau fichier raster d'occupation du sol simulée pour la saison hivernale intégrant les données de chacun des deux rasters cités ci-dessus. Le principe est le suivant : **lorsque les deux rasters se croisent / superposent, la valeur du pixel issu de la couche « viticole simulée » .**

Logiciel : QGis

Raster > Calculatrice raster

Formule intégrée dans la calculatrice raster :

```
(("ODS_DECOUPE_DANNEMOINE_HIVER_5M_RGF93@1">0)*  
("ODS_SIMULEE_HIVER_5M_RGF93@1"<1))*"ODS_DECOUPE_DANNEMOINE_HIV  
ER_5M_RGF93@1" +
```

```
(("ODS_DECOUPE_DANNEMOINE_HIVER_5M_RGF93@1">0)*("ODS_SIMULEE_HI  
VER_5M_RGF93@1">0))*" ODS_SIMULEE_HIVER_5M_RGF93@1" +
```

```
(("ODS_DECOUPE_DANNEMOINE_HIVER_5M_RGF93@1"<1)*("ODS_SIMULEE_HI  
VER_5M_RGF93@1">0))*"ODS_SIMULEE_HIVER_5M_RGF93@1"+
```

```
(("ODS_DECOUPE_DANNEMOINE_HIVER_5M_RGF93@1"<1)*  
("ODS_SIMULEE_HIVER_5M_RGF93@1"<0))*0
```

Avec :

- *ODS_DECOUPE_DANNEMOINE_HIVER_5M_RGF93 = Le fichier raster issu de l'opération 1 (l'occupation du sol avant simulation pour la saison hivernale)*
- *ODS_SIMULEE_HIVER_5M_RGF93 = Le fichier raster issu de l'opération 4 (nouvelle classe d'occupation du sol pour les zones concernées, pour la saison hivernale)*

Attention aux valeurs « No data » ou « nan » qui ne doivent pas correspondre aux valeurs dans la formule sinon QGis ne réalise pas l'opération demandée.

Vérifier également que les deux rasters à croiser aient parfaitement la même emprise et même résolution en prenant des coordonnées se finissant par des multiples de cinq entiers (« 0 » ou « 5 »).

Opération 6

Croisement de l'ensemble des variables du modèle MESALES avec la nouvelle couche d'occupation du sol simulée.

Logiciel : QGis

Traitement > Boite à outils...> Commandes GRASS [160 géotraitements] > Raster (r.*) > r.mapcalculator – Calculate new raster map from a r.mapcalc expression

Formule intégrée dans la calculatrice raster

$(E*10\ 000\ 000) + (A*100\ 000) + (B*10\ 000) + (C*100) + (D*10) + (E)$

Avec :

- *A = Occupation du sol*
- *B = Battance*
- *C = Indice topographique*
- *D = Érodibilité*

- *E = Indice climatologique*
- **Emprise de la région GRASS (xmin,xmax,ymin,ymax)** : Emprise retenue ci-dessus
- **Taille de la cellule de la région GRASS (0 pour la valeur par défaut)** : Valeur « 5 » pour un pixel de 5m par 5m

Attention : Il est nécessaire de réenregistrer sous la couche créer par GRASS-Gis en vérifiant les coordonnées (emprise) et la résolution (5m)

Opération 7 (Annexe 2)

Classification finale des valeurs de pixels en fonction des classes définies par la méthodologie MESALES.

Logiciel : QGis

Traitement > Boite à outils...> Commandes GRASS [160 géotraitements] > Raster (r.*) > r.reclass – Creates a new map layer whose category values are based upon a reclassification of the categories in an existing raster map layer

Le module « r.reclass » nécessite de créer au préalable un fichier texte avec les règles de reclassification. Les règles établies sont récapitulées en **annexe 3** de ce document.

ANNEXE

ANNEXE 1 – Tableaux de correspondance

Extrait du document « DEGAN F., SALVADORE-BLANES S. et CERDAN O., (2015), Cartographie de l'aléa érosif sur le bassin Loire-Bretagne, projet VERSEAU, 102 p. »

TABLEAU 2.3: Classification du taux de couverture de sol par saison.

Cl.	Libellé	hiver	print.	été	aut.
1	Blé tendre : hiver	1	2	3	1
2	Blé tendre : printemps	2	1	3	2
3	Mais grain et ensilage	2	1	3	3
4	Orge : hiver	1	2	3	1
5	Orge : printemps	2	1	3	2
6	Autres Céréales : hiver	2	2	3	1
7	Autres Céréales : printemps	1	1	3	2
8	Colza	1	2	3	1
9	Tournesol	2	1	3	3
10	Soja	2	1	3	3
11	Lin oléagineux	2	2	3	1
12	Pois protéagineux	1	2	2	1
13	Fève, féverole	1	2	3	1
14	Lupin doux	1	2	2	1
15	Plantes à fibres (chanvre)	1	2	3	1
16	Semences				
17	Gel	3	3	3	3
18	Gel industriel	3	3	3	3
19	Autres gels				
21	Légumes secs (haricot)	1	1	2	2
22	Fourrage	7	7	7	7
23	Estives landes	7	7	7	7
24	Prairies permanentes	7	7	7	7
25	Prairies temporaires	7	7	7	7
26	Vergers	1	1	1	1
28	Vignes	1	1	1	1
30	Fruits a coque	1	1	1	1
32	Betterave industrielle	2	1	3	2

TABLEAU 2.4: Classification du taux de couverture du sol.

Code COUVERT	Libellé
1	Sol nu 3/3 ans
2	Sol nu 2/3 ans
3	Sol nu 1/3 ans
5	Sol semi-couvert et couvert 3/3 ans
6	Espace naturel dégradé
7	Prairie et pâturage
8	Forêt
11	Zone urbanisée
55	Étendue d'eau et zone humide

TABLEAU 2.5: Code couvert issu de la classification du code à trois chiffres, obtenu pour chaque saison, suite à la combinaison des trois années du RPG (2008 - 2009 - 2010). COUV = code COUVERT; comb. = combinaison

COUV. 1	2	2	3	3	5	5	5	5	7
Comb. 111	112	201	122	271	222	322	722	022	377
110	113	200	123	312	223	323	723	023	737
101	117	311	127	313	227	327	727	027	773
011	120	310	133	321	232	332	732	032	777
010	131	301	137	331	233	333	733	033	370
001	130	711	172	371	237	337	772	030	307
100	171	710	173	712	230	372	702	072	730
	102	701	212	717	273	373	720	003	770
	121	012	132	317	220	300			703
	170	013	177	713	272	302			707
	103	017	213	721	277	303			700
	107	021	217	731	270	320			037
	211	020	221	771	202	330			073
	210	031	231		203				077
		071			207				070
		002							007

ANNEXE 2 – Simulation

Représentation des résultats sur la commune de Dannemoine (Yonne – 89)

Carte 1 – Axes de ruissellement potentiels et modèle MESALES (fort / très fort) sur la commune de Dannemoine (avant simulation)

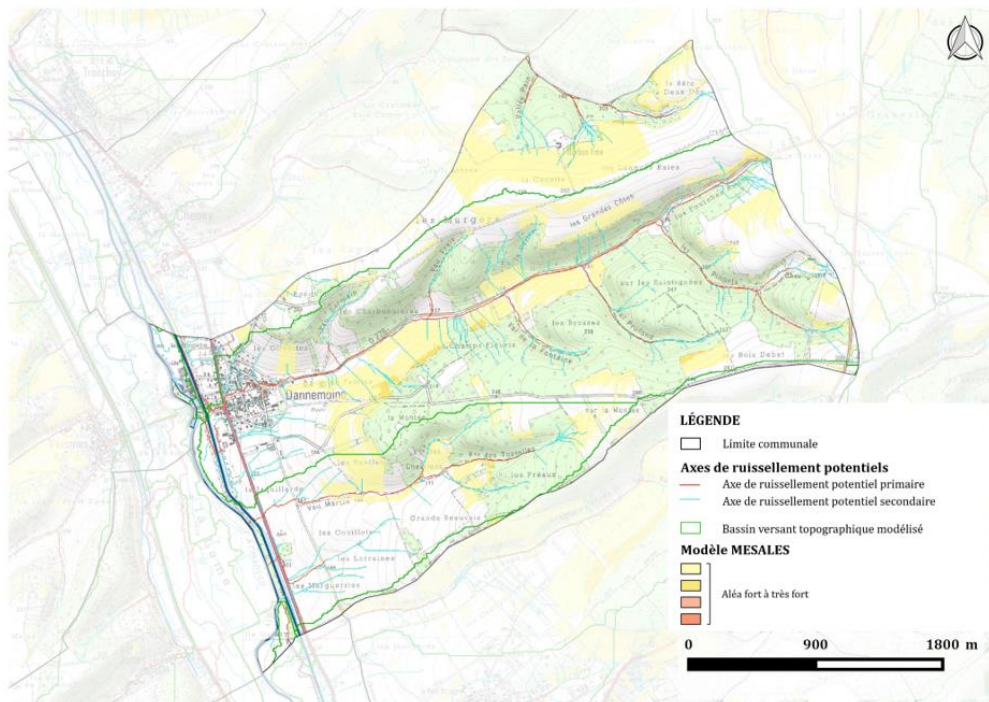
Carte 2 - Axes de ruissellement potentiels et modèle MESALES (fort / très fort) sur la commune de Dannemoine (après simulation)

Carte 3 – Comparaison des situations pré-simulation et post simulation sur la commune de Dannemoine (comparaison)

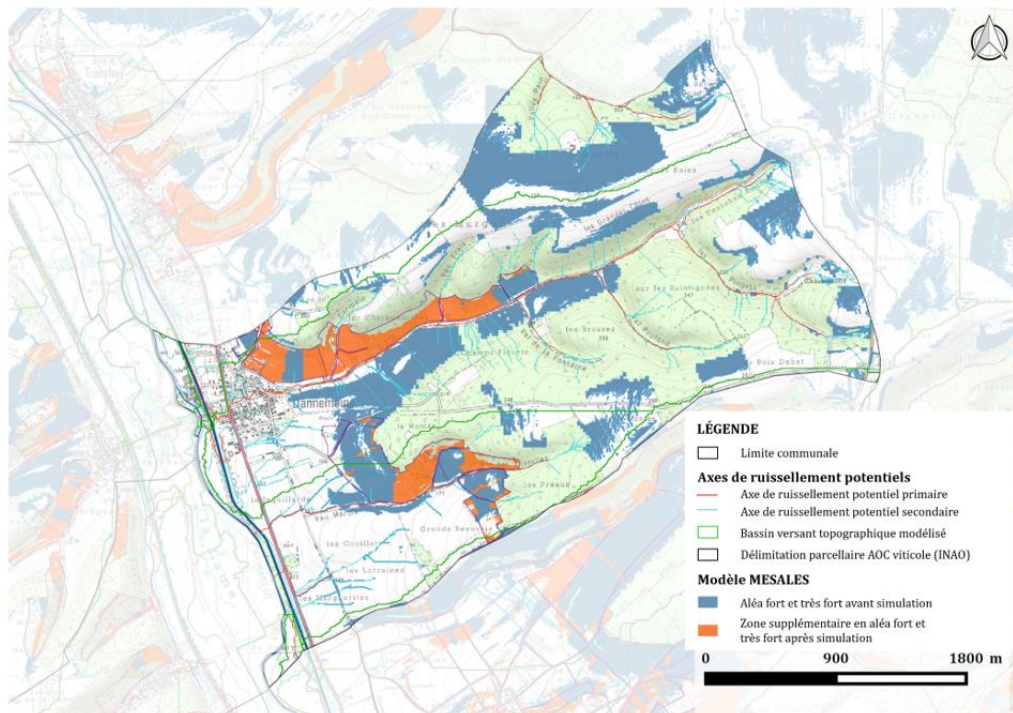
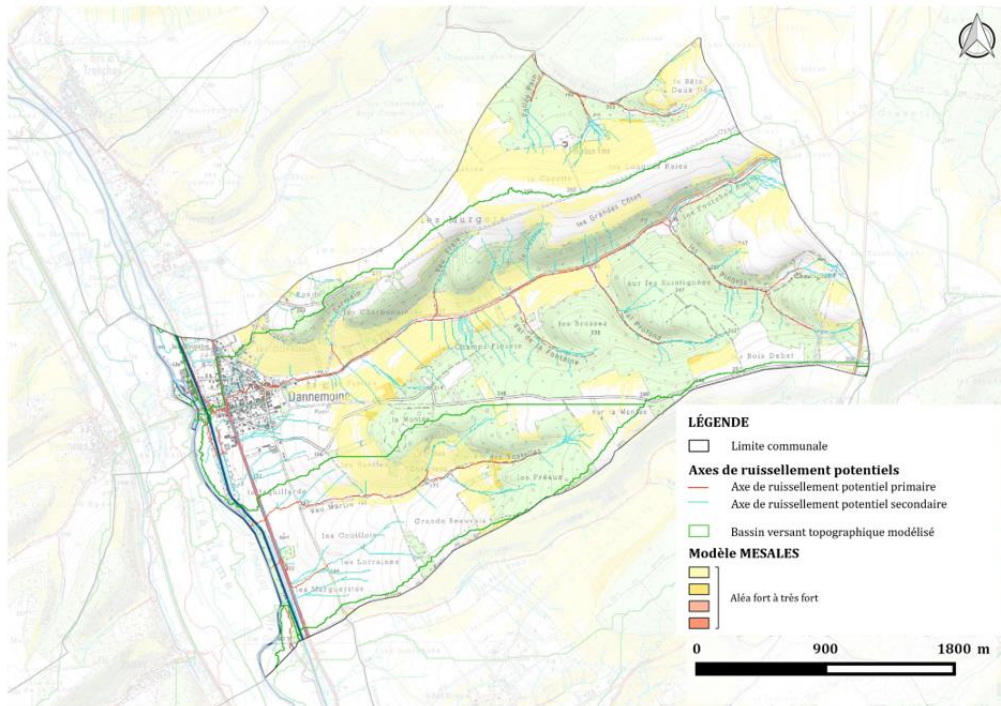
Résultats DANNEMOINE (1/3)

A/ Avant simulation de modification de l'occupation du sol

Axes de ruissellement potentiels et modèle MESALES (fort / très fort) sur la commune de Dannemoine



Axes de ruissellement potentiels et modèle MESALES (fort / très fort) sur la commune de Dannemoine (SIMULATION)



ANNEXE 3 – Reclassification « MESALES »

Les règles de reclassification sont valables pour l'ensemble des saisons. La méthode MESALES propose **neuf classes** finales variant de 1 à 7, puis 11 (zone urbaine) et 55 (zone en eau).

Les lignes de texte suivantes sont à intégrer dans un fichier .txt. **Le logiciel « bloc-notes » a été utilisé.**

10100001 thru 10107551 = 0	10141031 thru 10147541 = 5	10240001 thru 10240151 = 2	10331011 thru 10331021 = 2	10510211 = 1	10523041 = 1	10530251 = 1
10110001 thru 10110551 = 3	10141051 thru 10147551 = 5	10240201 thru 10240251 = 2	10331031 thru 10331041 = 3	10510221 = 1	10511551 = 2	10530501 = 1
10111001 thru 10111551 = 3	10150001 thru 10150151 = 3	10240511 thru 10240521 = 2	10331051 = 3	10510231 = 1	10513051 = 2	10530511 = 1
10113011 thru 10117521 = 3	10150201 thru 10150251 = 4	10240531 thru 10240541 = 3	10331511 thru 10337521 = 2	10510241 = 1	10521551 = 2	10530521 = 1
10113031 thru 10117541 = 4	10150511 thru 10157531 = 5	10240551 = 4	10331531 thru 10337541 = 3	10510251 = 1	10523051 = 2	10530531 = 1
10113051 thru 10117551 = 4	10150541 thru 10157551 = 6	10241011 thru 10247521 = 3	10331551 thru 10337551 = 3	10510501 = 1	10517511 = 2	10530541 = 1
10120001 thru 10120251 = 3	10200001 thru 10207550 = 0	10241031 thru 10247541 = 4	10340001 thru 10340151 = 1	10510511 = 1	10517521 = 2	10530551 = 1
10120511 thru 10120521 = 3	10210001 thru 10210551 = 2	10241051 thru 10247551 = 4	10340201 thru 10340251 = 1	10510521 = 1	10517531 = 2	10540001 = 1
10120531 thru 10120541 = 3	10211001 thru 10211551 = 2	10250001 thru 10250151 = 2	10340511 thru 10340521 = 1	10510531 = 1	10527511 = 2	10540011 = 1
10120551 = 4	10213011 thru 10217521 = 2	10250201 thru 10250251 = 3	10340531 thru 10340541 = 2	10510541 = 1	10527521 = 2	10540021 = 1
10121011 thru 10121021 = 3	10213031 thru 10217541 = 3	10250511 thru 10257531 = 4	10340551 = 3	10510551 = 1	10527531 = 2	10540031 = 1
10121031 thru 10121041 = 4	10213051 thru 10217551 = 3	10250541 thru 10257551 = 5	10341011 thru 10347521 = 2	10511001 = 1	10517541 = 2	10540041 = 1
10121051 = 5	10220001 thru 10220251 = 2	10300001 thru 10307551 = 0	10341031 thru 10347541 = 3	10511011 = 1	10517551 = 2	10540051 = 1
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10121531 thru 10127541 = 4	10220531 thru 10220541 = 2	10311001 thru 10311551 = 1	10350001 thru 10350151 = 1	10511031 = 1	10527551 = 2	10540111 = 1
10123051 thru 10127551 = 5	10220551 = 3	10313011 thru 10317521 = 1	10350201 thru 10350251 = 3	10511041 = 1	10530001 = 1	10540121 = 1
10130001 thru 10130251 = 3	10221011 thru 10221021 = 2	10313031 thru 10317541 = 2	10350511 thru 10357531 = 3	10511051 = 1	10530011 = 1	10540131 = 1
10130511 thru 10130521 = 3	10221031 thru 10221041 = 3	10313051 thru 10317551 = 2	10350541 thru 10357551 = 4	10511511 = 1	10530021 = 1	10540141 = 1
10130531 thru 10130541 = 4	10221051 = 4	10320001 thru 10320251 = 1	10500001 thru 10507551 = 0	10511521 = 1	10530031 = 1	10540151 = 1
10130551 = 4	10221511 thru 10227521 = 3	10320511 thru 10320521 = 1	10510001 = 1	10513011 = 1	10530041 = 1	10540201 = 1
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10533041 = 2	10551031 = 2	10610231 = 1	10630151 = 1	10620511 = 1	10631031 = 1	10640021 = 1
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10537541 = 2	10551531 = 2	10610251 = 1	10630211 = 1	10620531 = 1	10631051 = 1	10640041 = 1
10543031 = 2	10551541 = 2	10620001 = 1	10630221 = 1	10620541 = 1	10631501 = 1	10640051 = 1

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10640111 = 1	10640531 = 1	10651551 = 1	10720021 = 1	10720141 = 1	10730211 = 1	10730531 = 1
10640121 = 1	10640541 = 1	10643011 = 1	10720031 = 1	10720151 = 1	10730221 = 1	10730541 = 1
10640131 = 1	10640551 = 1	10643021 = 1	10720041 = 1	10730111 = 1	10730231 = 1	10730551 = 1
10640141 = 1	10641001 = 1	10643031 = 1	10720051 = 1	10730121 = 1	10730241 = 1	10740511 = 1
10640151 = 1	10641011 = 1	10653011 = 1	10730011 = 1	10730131 = 1	10730251 = 1	10740521 = 1
10640201 = 1	10641021 = 1	10653021 = 1	10730021 = 1	10730141 = 1	10740211 = 1	10740531 = 1
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40520014 = 1	50520035 = 2	
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40520034 = 1	50520055 = 2	
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40520054 = 1	50520115 = 2	
40520104 = 1	50520125 = 2	
40520114 = 1	50520135 = 2	
40520124 = 1	50520145 = 2	
40520134 = 1	50520155 = 2	