



EWWR Best Practices and Case Studies

FESTIVE BIOWASTE WEIGH-INS

1. Details of Action

EWWR Coordinator: ADEME
Name of Action Developer: Marina Seder Colomina and Morgane Robert
Name of action: Festive biowaste weigh-ins
Nominee **category**: Citizens
European Special Prize: Yes No
Dates of action: 18 and 25 November
Website:

Location of action

Place of implementation: Citizen's compost unit in Parc Lucie Aubrac (50 rue Romain Rolland) and Citizen's compost unit in the Les Sentes district (allée du Dr Calmette)
City: Les Lilas (93260)
Region: Ile de France
Country: France

2. Theme of the Action

- Reduce – Strict avoidance and reduction at source
- Reuse – Reuse and preparing for reuse
- Recycle – Waste sorting and Recycling
- Clean-up activities
- Thematic Focus 2018: Hazardous Waste Prevention: Time to detox!

3. Description of the Action

The citizen's compost units in Parc Lucie Aubrac (open since 2015) and the Les Sentes district (opened in 2018) are managed by two groups of citizens from the Lucie Aubrac and Les Sentes districts, organised into "leaders" for each task to be carried out. We therefore have leaders for Communication, Planning opening times, Compost turning, Bin monitoring, Dry matter supply, Party events, Tools and Repairs, Emailing list, etc.

Biowaste is brought to the compost unit every Sunday (52 Sundays a year) at set times from 11:00 am to 1:00pm. These opening times are managed by the people who deposit items for compost themselves and who are given detailed instructions by email beforehand. After each session, the citizens who managed the reception of compost materials send a report to all depositors indicating the number of people who deposited material, the bins used, dry matter needs for the following week along with any questions or remarks (e.g. damaged bins, signing up newcomers to the emailing list, etc.). These data and the bin temperature recorded (taken about once a month) are systematically saved to a shared file (<https://framacalc.org/compost%20lucie%20aubracan>, <https://lite.framacalc.org/compostdesentes>).

These projects are supported by an association (Activille) that is mandated by the urban community authorities (Est Ensemble) to help with start-up (installation of bins, organisational



advice, etc.). In both cases, partnerships with the Les Lilas local authorities and with Seine Saint-Denis Habitat (OPH 93) were set up both to find sites to install the composters and to ensure a supply of dry matter.

The leaders of these two compost units regularly organise deposit-aperitif-compost turning events but we wanted to go further: we wanted to organise a festive activity, the festive weigh-in, to promote neighbourhood composting and also to quantitatively demonstrate how composting reduces waste in our town (Les Lilas). The data and figures are very important not just to have information at a given instant T but also to see how the situation develops over time, if these weigh-ins take place several times during the year.

Indeed, the first “test” festive weigh-in was organised for National Composting Week in March 2018, at the Citizen's Compost in Parc Lucie Aubrac. After opening the Citizen's Compost unit in the Les Sentes district (30 September 2018), we wanted to repeat the experience but on both sites at the same time so as to increase the robustness of the results. For this, we organized a weigh-in at the Parc Lucie Aubrac compost unit on the first Sunday of the EWWR (18 November), then on the following Sunday (25 November) we organized another compost weigh-in in the Les Sentes district.

Concretely, for each depositor, we weighed the bucket full of biowaste (with a weighing device or with a kitchen scales, see point 7) and the empty bucket afterwards to calculate the net weight. With the help of the citizens present at the site on the Sunday in question and various compost leaders, depositors filled out an anonymous form giving further details (see point 7 also).

Then, these data were processed and compared with the other data recorded as well as with the data from the March weigh-in and those in reports found online (ADEME, Est Ensemble, ORDIF, INSEE, etc.). The results of this festive weigh-in were subsequently forwarded to all depositors and to the Les Lilas local authorities, Est Ensemble and Activille.

4. Reason why the action was selected for the EWWR 2018 awards

a) **Visibility and communication:** How did this action reach people?

The results of the weigh-ins were sent to the 2 composting site emailing lists after the data was analysed. This represents approximately 380 Les Lilas inhabitants who are now aware that their efforts have resulted in:

- 17.3 tonnes of RHW being diverted in 2 years,
- an individual reduction in RHW of 20%,
- the production of compost that is used by Les Lilas inhabitants, in particular in the 2 shared gardens in Les Lilas and in public parks and green spaces, the possibility of hiring one full-time employee if the number of composting inhabitants increased from 1.2% to 10%! This encourages depositors to talk to their neighbours and convince them to get involved by "word of mouth", a key factor in the success of these neighbourhood compost units.

The results were also sent to the Activille Association, the Les Lilas local authorities and Est Ensemble. As a result these three stakeholders can in turn, and if they so wish, use this information to communicate about citizen, collective and neighbourhood composting and have additional arguments to open new composting sites.



b) Originality and exemplarity:

This EWWR action and the ensuing study based on the data processed was carried out by volunteer non-professional citizens. This is therefore highly exemplary, because this type of collection of statistical data is usually performed by public authorities to monitor the installation of these collective composters and to justify their impact on society and past or future investments.

c) Lasting impact and follow-up:

The weigh-ins in November are a continuation of the momentum created for National Composting Week in March 2018. Each year, we can therefore obtain the data for 4 weigh-ins in Les Lilas (even more if other composting sites open) and therefore consolidate the data obtained thus encouraging public services to invest more in neighbourhood composting: the simplest, fastest and most effective way to reduce household waste today.

d) Quality of content:

This study comprises 3 sets of data in all (2 weigh-ins for the Parc Lucie Aubrac compost unit and 1 for the Les Sentes unit). The figures are repeated for these 3 data samples and this makes for very robust results:

- Average deposit: 2.55 kg/household/week
- Number of members in the average household: 2.7 persons (1.85 adults and 0.85 children)
- Deposit frequency: approximately 80% every week and 20% every 2 weeks
- Use of the compost: over 75% of depositors have no green spaces in their homes or just a small balcony on which the compost produced could be used.

In addition, the -20% reduction in RHW is very significant and is close to the Ile de France average (28%) provided by ORDIF (regional Ile de France waste observatory).

a) Motivation:

There are always brave citizens to man the sites in winter, but with the rain and the cold it is not a very pleasant task. The fact of knowing the data for your own neighbourhood helps citizens take their neighbourhood composter on board even more and encourages them to get more involved. Knowing that your weekly efforts help reduce your own waste production by 20%, that in 2 years you and your neighbours have avoided 17.3 tonnes of waste and that in addition this saves money that can be reinvested to create local jobs, all this makes manning the sites and being involved collectively much more motivating.

5. Results

Direct indicators

- Parc Lucie Aubrac Compost unit (18/11/2018): 240 kg of biowaste deposited; 92 participating households (176 adults and 76 children); 2.6 kg/household on average; 72% of deposits are made weekly (28% once every two weeks); average household of 2.7 persons (1.91 adults + 0.83 children);

over 75% of households have no green spaces or just a small balcony on which the compost produced could be used; the map shows where the depositors live.

- The Les Sentes compost unit (25/11/2018): 80 kg of biowaste deposited; 32 households (58 adults and 28 children); 2.5 kg/household on average; 87% of deposits are made weekly (13% once every two weeks); average household of 2.7 persons (1.81 adults + 0.87 children); over 75% of households have no green spaces or just a small balcony on which the compost produced could be used; the map shows where the depositors live.

Indirect indicators (Parc Lucie Aubrac compost unit):

- 8 tonnes of biowaste diverted from public collection of Residual Household Waste (RHW) in 2017 + 9.3 tonnes in 2018.
- A 20% reduction in RHW
- Public services saved €12/capita/year in 2017 and 2018 (approximately €4,200 in all) thanks to the RHW reduction already achieved.
- 1.2% of Les Lilas inhabitants currently compost at these 2 collective sites (not to mention existing school composters, composters at the bottom of buildings, in private gardens, shared gardens, etc.).
- If composting were to be expanded to take in 10% of the Les Lilas population (currently this figure is just 1.2%!) it would be possible to hire one full time employee at approximately €1400 net/month to manage neighbourhood composting at no cost (paid for by the savings achieved from the RHW reduction)

6. Further information and photos



1. Weigh-in equipment used:

2. Data collection forms used:

**SONDAGE COMPOST
PARC LUCIE AUBRAC 2018**

SEMAINE EUROPEENNE DE
LA RÉDUCTION DES DÉCHETS

Poids du seau		
Fréquence	1/semaine	1/15 jours
Nb adulte(s) au foyer + âge(s)		
Nb enfant(s) au foyer + âge(s)		
Espaces verts au foyer ?	Non	Jardin pied immeuble
	Balcon appart	Jardin maison
Adresse		

**SONDAGE COMPOST
QUARTIER DES SENTES 2018**

SEMAINE EUROPEENNE DE
LA RÉDUCTION DES DÉCHETS

Poids du seau		
Fréquence	1/semaine	1/15 jours
Nb adulte(s) au foyer + âge(s)		
Nb enfant(s) au foyer + âge(s)		
Espaces verts au foyer ?	Non	Jardin pied immeuble
	Balcon appart	Jardin maison
Adresse		

3. Email sent to the Parc Lucie Aubrac citizen's compost unit with the results:

Dear composters,

The following are the final results of the festive weigh-in that was organized in Les Lilas for the European Week for Waste Reduction (EWWR) 2018, on 18/11 at the Parc Lucie Aubrac compost site and on 25/11 at the Les Sentes compost site:

<https://www.dropbox.com/s/z9461opnhq552ib/resultats-compost-serd2018.pdf?dl=0>

If you have any comments please do not hesitate to reply to this email

Thanks to all the people who took part in drafting this document

:) Have a great Sunday,

Marina, bin monitoring leader

4. Email sent to the Les Sentes citizen's compost unit with the results:

Hello to you all,

The following are the final results of the festive weigh-in that was organized in Les Lilas for the European Week for Waste Reduction (EWWR) 2018, on 18/11 at the Parc Lucie Aubrac compost site and on 25/11 at the Les Sentes compost site:

<https://www.dropbox.com/s/z9461opnhq552ib/resultats-compost-serd2018.pdf?dl=0>

We drew up a joint document with the Parc Lucie Aubrac compost site because it made much more sense and especially because we took advantage of their experience.

If you have any comments please do not hesitate to reply to this email.

Our warmest thanks go to Marina at the Lucie Aubrac site and to all the people who took part in drafting this document :)

Have a great week

Morgane, communication leader

5. Presentation sent to all citizen-depositors in the Citizen's compost site in Parc Lucie Aubrac and the Citizen's compost site in the Les Sentes district (see following pages)

For the translation into English of these documents, see the link below:

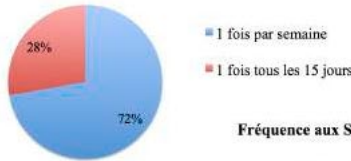
: <https://www.dropbox.com/s/85wq0hknyz0z195/resultats-serd2018-en.pdf?dl=0>



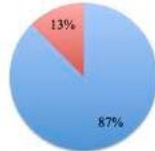


Quand on composte ?

Fréquence à Lucie Aubrac ?



Fréquence aux Sentes ?



Compost Parc Lucie Aubrac et Compost des Sentes, Les Lilas

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Le compostage collectif aux Lilas

Lucie Aubrac, pesée festive du 18/11/18



Ouvert 2015

Voix dernière dispo pour les données de Mars 2018

Les Sentes, pesée festive du 25/11/18



Ouvert 2018

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Quelle quantité on a déposée ?

Depuis que l'on collecte des données (grâce aux compte-rendus que nous envoyons chaque semaine après les permanences) au **compost du Parc Lucie Aubrac** :

- 2016 : pas des données systématiques
- 2017 :
 - 60 foyers déposants par dimanche en moyenne (min. 20 / max. 82)
 - 51 permanences dans l'année
 - 51 permanences * 60 foyers déposants/perm * 2,6 kg/foyer = 7956 kg/an

→ 8 Tonnes détournées du « circuit déchet » et retournées à la terre

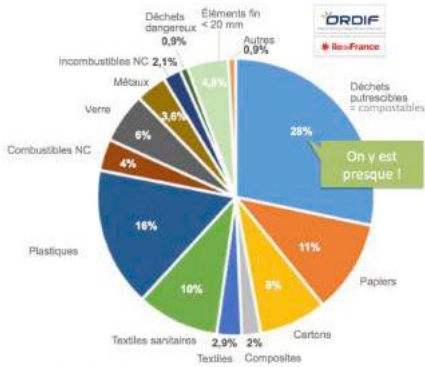
- 2018 :
 - 69 foyers déposants par dimanche en moyenne (min. 24 / max. 95)
 - 52 permanences dans l'année
 - 52 permanences * 69 foyers déposants/perm * 2,6 kg/foyer = 9329 kg/an

→ 9,3 Tonnes détournées du « circuit déchet » et retournées à la terre

Compost Parc Lucie Aubrac et Compost des Sentes, Les Lilas

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Estimation de la composition moyenne des OMR franciliennes

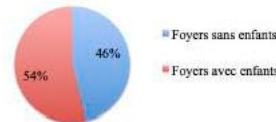


Compost Parc Lucie Aubrac et Compost des Sentes, Les Lilas

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Qui composte ?

Composition du foyer à Lucie Aubrac ?

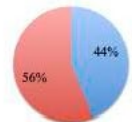


Foyer moyen

Adultes 1,91
Enfants 0,83

2,7 personnes/foyer (moyenne francilienne 2,3)

Composition du foyer aux Sentes ?



Foyer moyen

Adultes 1,81
Enfants 0,87

Foyer moyen avec enfants
Adultes 2,06
Enfants 1,55

Foyer moyen sans enfants
Adultes 1,77
Enfants 0

Foyer moyen avec enfants
Adultes 1,92
Enfants 2,00

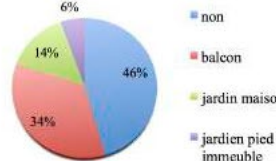
Foyer moyen sans enfants
Adultes 1,72
Enfants 0

Compost Parc Lucie Aubrac et Compost des Sentes, Les Lilas

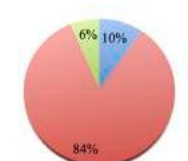
3

On en fait quoi du compost ?

Foyers avec espaces verts à Lucie Aubrac ?



Foyers avec espaces verts aux Sentes ?

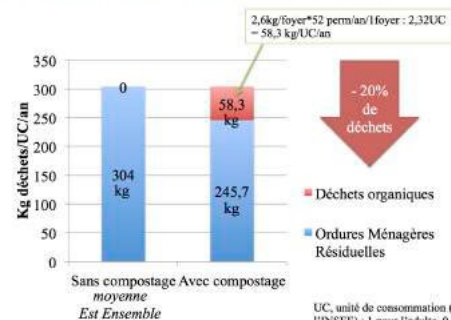


Comme ¼ des foyers déposants n'ont pas d'espaces verts à la maison ou juste un balcon avec quelques pots de fleurs, la moitié du compost produit n'a pas de preneur chez les composteurs. Il part donc aux jardins partagés de la ville et aux espaces verts de la mairie ☺

Compost Parc Lucie Aubrac et Compost des Sentes, Les Lilas

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La réduction s'élève à combien ?



UC, unité de consommation (selon l'INSEE) : 1 pour l'adulte, 0,5 pour l'enfant
1,91 adultes + 0,83 enfants = 2,32 UC

Compost Parc Lucie Aubrac et Compost des Sentes, Les Lilas

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Combien on a déjà économisé ?

Les déchets organiques que nous transformons en compost, si nous ne les triions pas, feraient partie de la catégorie OMR (ordures ménagères résiduelles)

- Le coût de cette gestion (collecte + traitement des déchets) selon :
 - L'ADEME (Agence de l'environnement et de la maîtrise de l'énergie) → 1 tonne d'OMR en milieu urbain dense comme Les Lilas coûte **242€**
 - Est Ensemble → 1 tonne d'OMR+recyclables coûte **287€**

Nous sommes donc sur le même ordre de grandeur

En 2017,

8 tonnes * 242 €/tonne = **1936 € d'économies** aux services publics pour 60 foyers (1 foyer = 2,7 personnes → 162 habitants). C'est à dire, **12 € d'économies/habitant**

En 2018,

9,3 tonnes * 242 €/tonne = **2250 € d'économies** aux services publics pour 69 foyers (186 habitants). C'est à dire, **12 € d'économies/habitant** aussi

Compost Paris Lucie Aubrac et Compost des Sentes, Les Lilas

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Le compostage :

- C'est le moyen le plus significatif pour réduire le volume de déchets aujourd'hui
- C'est un geste qui traduit une mobilisation citoyenne active pour la transition écologique

Exigeons

Alors ... ~~rêvons~~ des moyens :

- pour la réduction de déchets
- pour se mobiliser pour la transition écologique
- pour lutter contre le changement climatique

Ces documents ont été faits par des personnes bénévoles et non professionnelles. Si vous souhaitez en discuter davantage, avoir plus d'informations, apporter des idées ou développer l'exploitation des données n'hésitez pas à répondre à ce mail.

Compost Paris Lucie Aubrac et Compost des Sentes, Les Lilas

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Combien d'emplois pourrait-on créer ?

Scénario à 10%

Avec 132 adultes + 57 enfants en moyenne à Lucie Aubrac et 58 adultes et 28 enfants en moyenne aux Sentes, **1,2% des Lilas composte déjà aujourd'hui !**

Selon l'Institut National de la Statistique et des Etudes Economiques (INSEE, <https://www.insee.fr/>), Les Lilas avait 22964 habitants en 2015.

Si le compostage était étendu à **10% des habitants de la ville :**

22964 hab.*10%*12€ d'économies/hab./an = **27557 € d'économies potentielles/an**

Selon le Simulateur du Coût d'Embauche (<https://www.service-public.fr/>), avec cet argent un employeur peut financer un emploi temps plein à environ 1400€ net/mois

Avec la somme potentiellement économisée grâce à notre réduction de déchets, **les services publics auraient l'argent nécessaire pour embaucher 1 salarié pour coordonner / animer / former les habitants sur le compostage aux Lilas !**

A grande échelle, les retours d'expériences montrent que cet accompagnement est indispensable pour que ça fonctionne correctement à long terme.

Compost Paris Lucie Aubrac et Compost des Sentes, Les Lilas

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