# PARTRIDGE HAWKING IN BELGIUM

By Patrick Morel

Apart from the elusive woodcock, the partridge is probably the most difficult upland game to capture with longwings in our region; it requires perfect knowledge of its habits, life cycle and feeding behaviour of each covey.

### **Biology of the partridge**

are undergoing gradual but sure decline especially foxes. over several decades.

at sunrise and at sunset. It can be was born. The partridge is considered found both in small fields near homes part of 1% of birds that are 'faithful' (Flanders, Hainaut) or in the huge and genetically monogamous. The Brabant and Hesbaye; though generally produced the largest clutches (15 eqgs everywhere, from the late fall and on average) but it is also a fragile bird near houses.

low over the ground, except when it to natural predation.

Summer 2010 • International Journal of Falconry

moves to its staging area at sunrise The partridge is a symbol of the great and sunset or to escape a predator. The plains and as a sedentary small game favourite roosting places are ploughed bird it is most exciting. It has a sedentary stubble but also the edges of fields, lifestyle, precisely enabling us to realize adopted as a strategy of preventive the obvious - the partridge populations defence against nocturnal predators,

The partridge is a very territorial bird; The partridge is a lowland bird, sociable, it is almost always located in the living in coveys which call each other immediate vicinity of the field where it areas of monoculture as in the plains of partridge is prolific and is the bird that winter, like grouse, they tend to cluster experiencing the highest mortality due to enduring the rigors of harsh winters, The partridge is a sedentary bird, flying too cold or too rainy spring and also due

### Behaviour and life cycle

The family association of the covey is extremely strong and parents care for that the partridge must ingest three their brood for a long time until the times more green leaves than of grain to time of pairing in spring. Partridge fight against the cold. This explains the coveys remain grouped in one area until February / March when the birds separate to mate. The life cycle of the partridge is divided into two periods characterized by two very different attitudes: a social group (called the Covey) and a highly decline mainly due to agricultural developed life pairing marked by great practices. The causes of the decline of intolerance towards other cogeners.

### **Behaviour towards predators**

The most sensitive period of breeding and plants in more complex ways so that is the confrontation with a predator. It same environment is profoundly altered involves setting up a defence system by human activities. This complexity varied with the type of predator, age is already in relationships that bind and size. In young birds, it means the partridge to its environment, its cowering on the ground at a signal from diet since changing from one regime their parents to hide in the nearest of insects to herbivore in adulthood cover. If the danger is more pressing, whilst also adapting to the seasons. a parent may simulate an injury like a The partridge, dependent on human broken wing, leading in the opposite practices, has seen its habitat change, direction from the brood, meanwhile making survival more difficult. the other parent leads the young away. Several factors have affected populations When there is a winged predator, the of partridges: disappearance of their tricks are more limited. The covey can flatten to the ground and one parent can sacrifice and attract attention to itself. slope), lack of adequate food for chicks In falconry, too, especially early in the (because of the massive spraying of season, sometimes a parent sacrifices herbicides and insecticides), scarce itself and draws upon itself the falcons' attack, saving the covey which then numbers. Monoculture has replaced flushes at an opportune moment.

### Feeding behaviour

The partridge densities are high when the nature. Indirectly, the use of the tractor percentage of grain crops and especially has removed natural fertilizers and winter cereals (over 60%) is high. Its dung of horses. Increasing the size habitat is very connected to humans of agricultural enclosures has limited since the partridge endures changes field edge effects, both for nesting and of scenery modelled by agricultural seasons. In fact, in terms of food, adult they are the almost exclusive source partridges adapt to their environment of food for chicks during the first three and the various changes it undergoes weeks of their lives. Dwindling winter (crop rotation or the presence of artificial cover in addition exposes partridge ever feeding for example). In summer, partridge enjoy a wider variety of food such as insects and return of seeds of populations which have seen their all kinds. In autumn, seeds of cereals numbers decline steadily since the late are still numerous. In winter, on the 60s, while their productivity has seen a contrary, there is nothing left; partridge noticeable decline related primarily to then eat green grass or winter cereals. reduced survival of chicks during their Spring is the time of year when green first six weeks.

food peaks. The low calorific value of green foliage in relation to grain means importance of winter artificial feeding.

### **Declining populations of partridges**

The partridge, once common throughout Western Europe, saw its population the partridge are multi-faceted: the partridge is integrated in an environment in which people interact with animals

favourite nesting habitats (grubbing hedges, land levelling, levelling of the cover in winter and higher predator mixed farming, extreme mechanization replaced draft horses, speed and efficiency replaced the slow pace of insects which are so important because more to predators.

All these "advances" affected partridge

### Partridge as 'guarry' for falconry.

size, average weight: 390gr for males and 380gr for females, the partridge is the ideal game for the smaller falcons and tiercels. It is a cautious quarry, crops. The 'chicon' (witloof in Flemish) is also the game bird that is best for falconers.

The partridges are more or less nervous developing. depending on the type of terrain: very sociable around homes and in mixed farming areas where they coexist with humans daily, they are extremely wary in monoculture. The slightest suspicious opportunities for escape and also pretty movement, such as slowing a vehicle, is short and less high flights! Flights and long and true. In general, when they take off, the entire covey takes off.

the partridge requires perfect knowledge November). of both the ground and patterns of every covey, and manoeuvres worthy with perfect discipline of the falcon.

If the partridge holds well on point at and we ran down the fields under the the beginning of the season, it is no waiting on falcon. We did not let the longer the same after a few weeks and falcons get too high because the risks the falconer must change tactics and fly of checking on pigeons were ubiquitous on 'assumption or speculation'.

# in Belgium

As in many places in Europe, waiting on flights in Belgium were deeply affected by the change of habitats.

was common for hunters to harvest 1 important to know the habits of game, partridge/ hectare!)

er 2010 • International Journal of Falco

acres), often poorly cared for, lined with hedgerows and embankments. The partridge is a special attraction for Ploughing was done primarily using draft the falcon and is "THE" game of choice horses, natural fertilizer contributed to for the waiting on flight. With its compact the presence of insects and partridge were numerous everyday despite the proximity of many people working on their knees in small plots of 'chicory' fast and flying well. In our region it is, or 'endive' nicknamed the 'Belgian white undoubtedly, the quarry that contributes gold' is the name of a typical Belgian most to making high flying falcons. It plant obtained from roots of wild chicory. The chicon is put into small iron tunnels pointing dogs. For these reasons, it has heated by stoves, covered with soil and always been highly prized by waiting on regularly watered. After several weeks in dark and warmth, white leaves are

> The terrain was slightly undulating sloping fields with grassy slopes or a hedge on each side of field.

This polyculture gave the game a many detected and the birds are alert. When kills were many (it was normal to have previously flown by a hawk, unlike 5 or 6 flights each afternoon, often with pheasant, the grey partridge does not multiple reflushes). The quarry book fly unless forced to do so; the flight is numbers were high: around 200-250 partridges average each year with a team of 2-3 falcons; the season lasted As stated in the preamble, the flight of two months (early September to early

The flights were mainly made on a 'presumption / speculation' or by of a military strategy are required along spotting. We were sure of finding partridge - hawks were put on the wing (Flanders is fatherland to the racing pigeon), nevertheless, we had often to **Evolution of flight of the partridge** recover our falcons on their prey, almost always a racing pigeon not very far from its loft!

'Visual flight' is to catch the game after spotting from a vehicle. The plain is When I started flying in the mid 60s, traversed slowly, using a vehicle and fields with my friend Gilles Lafosse, we flew are carefully quartered and observed our falcons mainly in Flemish Brabant through binoculars or telescope. The (25km north of Brussels) in a rather search requires a good knowledge of the enclosed polyculture biotope with a game, land and habitats, because it is very high density of wild partridge (at not always easy to identify the head of a the opening of the hunting season, it partridge when flattened in a field. It is to know that game is more active at the The plots were very small (a few beginning or end of the day because it



is in search of food or gravel it needs to on pairs without young or small coveys. aid its digestion (gritting).

There are advantages of this type of from the covey, a preliminary count will approach: the identification from the know that there are still one or two birds quiet car is only a slightly disturbing left to flush. process for the quarry: usually only the Excellent binoculars or a telescope of covey spotted is disturbed if it is flushed. high quality is essential equipment. If conditions do not look good, the The key element is the quality of the group is not flushed and is not disturbed unnecessarily. On sites with high density to the preferred magnification. A good of partridges, it is sometimes possible compromise is a pair of 8x32 or better to identify two or more coveys and 8x42, 10x32 or 10x42 combining provide a 'second chance' that will allow magnification sufficient to excellent a second service if the hawk would have brightness and lightness (650gr to failed. This can be beneficial for a young falcon in training when a second service How do we proceed? Birds in the open may be of value.

Screening allows the identification of always one or more guards whose role the field study (counting, wind, position is to alert the whole group upon the of birds) and develop the best strategy occurrence of any threat. The reactions calmly, plan an attack and choose the of the falconer must be fast: he must most suitable bird for the flight (e.g. analyze the situation in a moment, a young hawk to put on a covey of consider all possible scenarios, anticipate young birds or in case there is a need the direction in which the game will of a 'second chance' flush). The service fly away and decide if the opportunity can be done with some precision, the presents itself for the quarry to be falconer choosing the best time to flush under the hawk.

This type of strategy offers excellent the crucial point: if the falconer has commitment (number of birds, age, misjudged the situation, it will often gender etc) and better management of be the moment of "now or never" for populations, for example by not flying the game which takes the opportunity

850gr). "flyable" or not .

Sometimes, in cases of premature flush

optics and image clarity with respect

are very suspicious, and a covey has

Putting the falcon on the wing is

to escape, taking wing immediately. We the flight develops. aim to pass the partridges by several The falconer moves in a zigzag direction hundred meters before stopping if across the wind, to centre the hawk and possible ahead of the group. The get it overhead. Once it has reached distance should be carefully estimated its pitch, the falconer slows down the as partridges are worried enough to hawking party, stopping whenever the clamp to the ground and not move, hawk is downwind of the field. If she is but without being too afraid to fly that up in the wind or vertically above, the early. The preparation and equipping of partridge is most evasive because the the hawk and putting on the wing are falcons' strike happens too fast to allow done on the opposite side of the vehicle her to manoeuvre; alternatively, if she from the partridge - this has the double is up in a headwind, the falcon will bind benefit of hiding the falconer from the to its quarry, taking advantage of its partridges and avoiding showing the preference for trussing of its prey. hawk to them whilst it is still lacks aerial With experienced hawks, we make the dominance.

Once the hawk is on the wing and has field will be working into the headwind, started circling to gain height, if the dogs pointing normally. This implies that game did not fly, the situation presents the hawk rides the wind and passes in itself differently. The falcon soon has front of dogs. the height so as to constitute a threat The CAP (Common Agricultural Policy) quickly enough to block the partridges has led to land consolidation. Small plots from taking wing. The anxiety and of several acres have been replaced by nervousness caused by the falconers' several hectares of crops and maize has approach are offset by natural fear of emerged and gradually cannibalized the falcon. The balance will change all production and currently covers in one way or another depending on over 50% of our area, making hawking the position of the falcon and the impossible before mid-November. falconer's change of position and / or In the late 1970s, we changed territory his assistants. The falconer must adapt and we migrated to the plains of the his advance based on his interpretation Hesbignon Brabant, ideal habitat for of the direction in which the balance of waiting on flights and famous for large

er 2010 • International Jour<u>nal of Falc</u>

same manoeuvre, but into the wind. The



ranging field trials: large flat or gently rolling plains, without barriers or pylons. Influence on predation: studies show The plots were much larger (several that predators do not regulate prey : on hectares to several tens of hectares). the contrary, the opposite occurs. The Again, as elsewhere, the regrouping of introduction of farmed birds is a prime lands had wreaked havoc and, in many target for predators, increasing artificial places, "beautiful" plains, ideal for prey population resulting in parallel waiting on flight, turned into a veritable increase of predator populations. game desert. The sunken lanes were This is the case in my territory where filled and concreted; it is now possible the harriers (especially the cicrcus to hunt in shoes!

partridge numbers has been the on which they specialize. They stay all expansion of predators following the autumn and weather permitting, they disappearance of the gamekeepers. The overwinter. result was immediate: the fox, unknown What now? Compared to the sixties, in my youth in the southern area of the partridge has declined by 70% the Sambre and Meuse, multiplies and to 90% depending on the region. In is ubiquitous throughout Belgium. In many places, particularly in the finest addition, the game laws have changed consolidated holding plains of Hesbaye and many 'pests' cannot lawfully be and Walloon Brabant, it has almost destroyed and their mode of destruction completely disappeared. is strictly regulated (prohibition of most In the few places where there are a 'indiscriminate' traps and prohibition of few remaining wild stocks, it has been night shooting).

We then arrived at the 'miracle' solution: natural habitats (hedgerows, fallow bridging the gap in natural production land, slopes, sunken lanes) or replace by supplementing with farmed game. habitats lost by the creation of shelter Wild populations of yesteryear were, in belts and the development of fauna fact, initially, well reconstructed. There friendly crops and use of supplementary was general euphoria for a few years ... feeding that has been their saviour. then the side effects were not long in In places where partridge have coming: the partridge breeding brought disappeared or territories with too low diseases and gradually eliminated and densities (less than 5 couples/100ha), replaced the wild stock.

The dangers for wild game coveys are: farmed partridge. Health-Pollution: the high densities To continue flying partridge the hawker of animals in farms promotes the has no choice: he has to become a development of various cycles of manager! parasites. Thus, when to the point of being released, game farming is still a carrier of infection, just waiting to proliferate during the period of stress and deprivation due to changes during This area is ideal for waiting on flights: release. These are real bacteriological and parasitic diseases bombs that could infect wild populations.

Introduction amongst endangered wild birds with captive breeding stocks with a depleted genetic makeup (this is the result of farming after several generations).

Behavioural changes are vital: in farmed birds, some hereditary traits essential **Crop rotation and crop plots:** for survival in the wild can be altered On this land, crop rotation is usually or eliminated in a few generations in a three-year rotation of sugar beet or

captivity.

aeruginosus) have made an appearance One other major cause of declining in force after the release of farmed birds

primarily conservation of existing

the only solution is repopulating with

### Example of managing of a territory in Brabant

an area of one block of 800ha in the middle of a 1500ha plain, surrounded by 3 villages, slightly undulating, without poles, fences, power lines, rich in partridge and hares until the late 1970s (the usual harvest at the opening of the hunting season was over 600 partridges in two days - 0.75 partridge / ha!).

winter barley (25-30%) and alternating against the weather and predators). potato or peas (15%). There is fortunately little or no maize or rapeseed Intercalary bands culture (1-2%). Green manure (mustard, Several bands of intercalary hunting ryegrass ...) seeded after the harvest cultures, planted in the direction of of winter crops (July) to fix nitrogen, prevailing wind, in strategic locations in provides food for game and cover with the territory. These strips have a corn protection from predators in autumn, narrow width (8 to 10m) and a length at a time when no other land provides corresponding to the length of the cover. Two rows of fifty meter hedge are parcel along which they are positioned the only persistent natural habitat in the (175 to 300m). The purpose of these area (they are attended daily in fall and strips is to break the monotony of large winter by migrating thrushes).

# the territory with partridge.

census of wild populations: all coveys have been identified and recorded on a generatebyofferingthemfoodandshelter map. This map has been kept updated throughout the season and has led, for example, to identify young couples without young and helped determining the exact number of birds of each covey, of released birds, we must 'educate' which is an important element for good the birds and give them the opportunity management practices. A spring census to shelter from predators. One of the provided gravely harrowing results: thirty partridge remained (4 patridges/ 100ha)!

It was necessary to determine the find a pantry well stocked! capacity of the territory and ensure its Grass strips of fallow land fauna

er 2010 • International Journal of Falc

chicory (25-30%), wheat (25-30%), development (variety of food, shelter

parcels (often 40 to 50 ha) and in the case of maize, to recreate a "hedge" **The objectives were to repopulate** in a few months. These hurdles are of course artificial and miss the rich fauna The work initially started by an accurate of natural hedges, but they can attract the partridge, with the edge effect they against bad weather or predators. The anti-predator behaviour being taught by parents, which inevitably has a strong impact on the successful resettlement main predations on my territory is that by the harriers, numerous during the migration and often wintering as they





These are grass strips located on the feeders are placed at fixed locations edge of cultivated fields to establish accessible by 4x4 along the road or transition zones between crops and their along the edges between cultures and near environment (fences, streams, visited once a week. This makes for slope ...). They are planted with a mixture made from 70% grass and 30% legume. Their width is 8 to 10 meters. They are maintained till harrowing in **Restocking** spring. These bands are of interest by Wild populations being close to the amount of insects they contain and by the addition of green food in winter.

### **Establishing feeders**

For partridges, modern agricultural Wild couples without young are identified practices provide limited available food and a covey of partridges is placed close resources: few natural plants other to where they are usually held in a than those grown, less grain left on the cage. If the pair starts hanging around ground after harvest, earlier ploughing the cage, it is just opened and usually or disking burying any food. To address the pair adopts young. These wild the scarcity of food, artificial feeding is a pairs are very helpful in protecting and good example of simple and inexpensive defending the partridges and teaching management.

The system I use for artificial feeding is The best way to establish farmed birds made of a hung plastic bucket with a lid is rearing partridges under bantams tightly closed as a hopper with access and to release them with their adoptive to the grain arising at the bottom of the mothers. bucket. The feeder is suspended 25cm from the ground on an iron or wood support to limit access to rodents such small cages to release with two adults. as rats and to prevent the germination After a few days, the cages are open and of wheat. Type of food: wheat, oats, partridges can leave the cage while the barley and cracked corn. Thirty feeders adults are held in one half of the cage as are spread over the territory. The 'callers'. Releasing cages are placed in

ease of handling, time saving and least disturbing for the fauna.

extinction, we had to deal with the repopulation by farmed birds.

Farmed partridges are released early in the season (August) in different ways:

anti-predator behaviour.

Otherwise, partridges of 10 to 12 weeks are placed in coveys of a dozen birds in



strips or hunting cultures).

are provided and spread over the whole the sky as starlings and disappear!) territory.

### Hawking farmed partridge

The reactions and behaviour of farmed partridges are not the same as those of making high mounting falcons. their wild counterparts. As said above, The manoeuvres are also somewhat wild partridges are gregarious birds, different from those adopted for wild living in coveys; they stand on their quard and fly away as soon as danger threatened. The indigenous birds always on a assumption flight, it's purely come back near the place that gave speculative: the falconer takes the risk them birth.

and they have not the same concept almost certain to present an opportunity of territoriality and leave the country to attack the guarry. When using a dog, if hunting pressure is too high or if it is released after the placing the falcon their flight takes them into uncharted on the wing and when it is high enough territory.

'packs' of 50 birds or more.

Less attached to locality, they also often check. have higher but also longer flights (1.5km Once the falcon has reached its pitch, or 2km!) which take them sometimes cover is searched to flush coveys that outside the country without coming fly in groups and will often land in

er 2010 • International Journal of Falc

sheltered areas (edges of crops, fallow back! It must therefore be taken into account and avoid flying in strong wind. Of course, points of feeding and watering (I have seen coveys climbing as high in

> The falconer must seek to limit the number of services to one single flush for one covey which maintains the double advantage of preserving the game and

partridges. Early in the season, the hawk is flown on supposition. When of flying over familiar territory because This is not true of the farmed partridge he knows the density of game and is to dominate the game on the ground. The farmed partridge bond to places This implies a high flying bird and where they find shelter and food or near patience since the flight is often delayed where they were released if the cages with the risk, firstly, not to reward the retain the 'callers'. Coveys of farmed bird and, secondly, to flush the game at partridge have less intolerance towards an inopportune moment – also of course others and often come together to form there is a danger that young hawks get bored and take the opportunity for

several neighbouring fields. In cover I also have the opportunity to fly twice such as a field of maize, especially if it is a week on another ground in Flanders flushed by a dog, the flight of partridges where there are only wild partridges. is almost always uncertain and, in most These partridges are particularly difficult cases, occurs when the hawk is in a to fly as most of the ground is covered bad position. This forces the falcon to by maize fields in which partridges tend anticipate the flight and compensate by to hide. Besides this, the ground is gaining a higher pitch (300m to 500m) to 'control' its territory. If the falcon high pitches are dangerous with landing misses her attack, she is called down planes. Nevertheless, my falcons mostly to the lure. The first flight is generally perform in the same way as they do on reserved for the highest flying falcons farmed partridges and regularly catch and for the ones who cover the broadest the wild ones. territory (the ones which have the best efficiency cone).

The following of flights are usually Attitudes have changed, the modern achieved over a dog on point: groups of hunter had to adapt and become partridges tend to disperse into coveys primarily a manager; the falconer in neighbouring fields (beets, chicory or also had to become a manager. This green manure). In ground cover, the management task is obviously very work of a pointer is the basis of the time, energy and labour demanding. waiting on flight; it is the key element Currently, the falconer spends 70% of of the floor show and the guarantor his time managing his territory and only of the quality of the flight. The flight 30% flying his falcons! implies perfect knowledge of the dog The 'purist' falconer that I am also ... and total confidence in his qualities: regrets the replacement of the flight the falconer must be sure that the over a pointing dog by a 'spotting' flight game pointed is of the 'feather' and not or flight on assumption. The long car-'fur'. The dog must also be of perfect drives and hours of spotting will never obedience in order to avoid premature replace the thrill of the quest for the dog, flushing.

Once a dog is on point, the tactic is to partridge in the nose. walk towards the dog without worrying It is certainly regrettable, but in the about the position of the falcon or evolution of time! 'O tempora, o mores' the wind, the hawk quickly learns to - other times, other manners! be well placed upwind and at its best How times have changed, our pitch! Partridge often fly towards their behaviour as a falconer also has favourite shelter. As mentioned above, adapted considerably. Twenty years it is important to avoid following them ago, densities of wild partridge were and to reflush them several times - for important and allowed many flights without fail you will soon see the game every day and large 'scores'. It was also leave the territory.

Defences of farmed partridges are several times, often at the expense of obviously lower than their wild the pitch and quality of flights. Since counterparts who know the least part the 1990's, the falconer also had to of their territory and have an amazing adjust the focus and quality of flights, record of feints and delaying tactics.

It is tempting to believe that flights flight per bird, and except in the case of on released partridge are always young or inexperienced hawks, not to easier than those on wild ones, but I reflush the quarry. noticed that in many cases, the falcons Farmed partridge never will replace wild of visitors are confused by this flight ones, but I noticed, unexpectedly, that different and often longer from that of the reduction of wild partridge and their their wild counterparts, which leaves replacement by bred birds has, in some them empty-handed more often than ways, been beneficial for the quality of they wish!

### Conclusion

flights! 🔫

located adjacent to Brussels airport and

frozen on point in alfalfa, with scent of a

normal to flush and reflush the partridge he forced himself to make only one