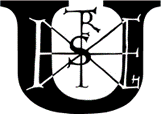
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**SZENT ISTVÁN EGYETEM**

**MEZŐGAZDASÁG ÉS KÖRNYEZETTUDOMÁNYI KAR**

**ÁLLATTENYÉSZTŐ MÉRNÖK BSC**

**A fény szerepe és hatása a brojlercsirkék termelésében**

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# Bevezetés

Az élőlények viselkedését, fiziológiai és biokémiai folyamatait, egyfajta „biológiai óra”-ként a *cirkadián* ritmus nagymértékben befolyásolja. Ezt a nagyjából 24 órát átölelő időtartamot az élőlények saját belső időmérő rendszere méri a külső *stimulusok* szinkronizációjának segítségével. Ilyen támpontok lehetnek a napfény vagy a külső körülmények szabályos váltakozása. Azonban a *cirkadián* ritmus az élőlényekben *endogén*, tehát veleszületett jelenség, amely hőmérséklet-független, külső *stimulus* hatására újraindítható és állandó körülmények között is változatlanul fennmarad, tehát nem a külső periodikus ingerekre adott válaszreakció.

Ezek a ritmusok igen nagy szerepet kapnak az állatok táplálkozási és alvási szokásainak kialakításában, ugyanúgy, ahogyan az emberek esetében. Az élőlények azon tulajdonságát, miszerint élettani reakcióval felelnek a nappalok és az éjszakák váltakozására *fotoperiodizmusnak* nevezzük. A *cirkadián* ritmusok és a *fotoperiodizmus* együttesen befolyásolják az állatok agyhullám-aktivitását, hormontermelését és számtalan más biológiai funkciót.

Ezen tulajdonságaikat számunkra előnyös módon kihasználva, zárt tartási rendszerekben, megfelelő világítási programok alkalmazásával szabályozható az ivarérés ideje és üteme, maximalizálható a tojástermelés, a növekedés, valamint számos a viselkedéssel és más értékmérőkkel összefüggő tulajdonságot is befolyásolni lehet.

## Célkitűzések

Kísérletünkben hagyományos izzóval és modern LED technológiával megvilágított pecsenyecsirkéket vizsgáltunk.

Tudjuk, hogy a madarak fényérzékenysége kifejezettebb, mint a többi emlősé, így a megvilágítás fokozott hatást gyakorol rájuk.

Dolgozatom célja, hogy feltárjam a két megvilágítás miként befolyásolja a madarakat etológiai szempontból.

A kísérlet ideje alatt non-stop videó felvételt készítettünk. Az állatok nevelésének középső periódusából egymást követő napokat választottunk ki reprezentatív mintaként, ezekből értékeltem ki az ott látott viselkedési formákat.

Feltételezéseink szerint az izzós megvilágítás, annak erősebb stroboszkóp hatása miatt negatívan befolyásolja a madaraink viselkedését. Ennek megállapítására értékeltem a táplálék felvétel gyakoriságát, a szociális viselkedési formákat és az állataink aktivitását, melyeket különböző módszerekkel elemeztem, majd táblázatokban és diagramokban ábrázoltam.

Továbbá célom még, hogy a viselkedési formák közötti eltérésekre magyarázatot találjak a megfigyeléseim és a felhasznált irodalom segítségével.

# Szakirodalmi áttekintés

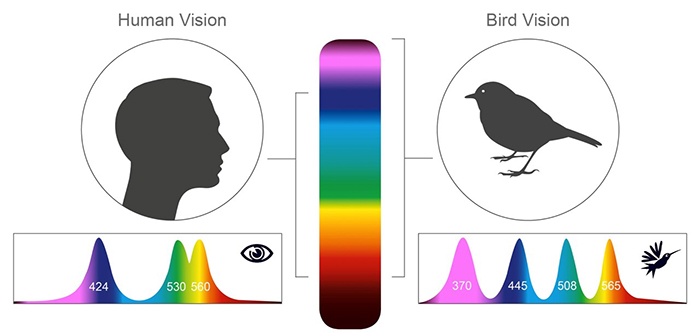
## Baromfifélék és a fény kapcsolata

A baromfifélék tenyésztésében nem csak a genetikai tervezésnek, hanem a tartástechnológiának is döntő szerepe van a végtermékek, illetve az állatok életminőségének szempontjából. A házityúk ősei a dzsungeltyúkok rendkívül félénk állatok, ha lehetőségük van, kerülik a fényárban úszó területeket. A tartástechnológiában alkalmazott fény- vagy világítási programok összhangban vannak eme vad ősök életmódjával és rekonstruálják az egykori környezeti viszonyokat is. Ha a házityúk őseinek életmódjára gondolunk, érthetővé válik, hogy azok már kései utódai miért reagálnak érzékenyen a gyenge megvilágításra is. A mesterséges világítási programok létrehozása lehetővé tette, hogy akár aszezonálisan is szaporodjanak az állatok a kialakított mesterséges környezeten belül, így a fogyasztói igényeket (tojás; hús) egész évben ki lehessen szolgálni. A gerincesek (*Vertebrata*) törzsén belül a madarak (*Aves*) osztálya az egyik legfényérzékenyebb *taxonómiai* egység az egész állatvilágban. A rendszertanilag ide tartozó fajok életében a fény hatással van szinte minden életfolyamatukra, és meghatározza napi ritmusukat. A legtöbb madár nappali életmódú. Esetükben a látás megkülönböztetett élettani fontosságát bizonyítja, hogy a madarak szeme, valamint az agy látólebenye szokatlanul és feltűnően nagy, mindkettő relatív térfogata lényegesen nagyobb, mint az emlősöknél. A szem tömege ugyanakkor szoros összefüggést mutat a madár tömegével (Horn és mtsai, 2015).

A baromfifajok fényigénye kettős, szükségük van a fényre nem csak látásukhoz, de az a belső *neuro-endokrin* rendszeren keresztül kihat az állatok anyagcsere-folyamataira és szaporodásbiológiájára. Így tehát az állatokra a szemükön keresztül nagymértékben tudunk hatni, ezért körültekintően és gondosan kell megválasztanunk a technológiai elemeket, melyeket alkalmazni kívánunk tartásuk és termelésük során. A fény nagy fontosságú környezeti tényező és egyben eszköz is a baromfitenyésztésben. A fény és annak jellemzői (pl. a világos és a sötét periódus tartama, a fényerősség, a fény színe, illetve hullámhosszúsága) jelentősen befolyásolják a tyúkfélék viselkedését, anyagcsere folyamatait, és ezeken keresztül szinte minden olyan tulajdonságot, értékmérőt, amelyek a tenyésztő számára fontosak (Wineland, 2002).

## A madarak látásának anatómiai jellemzői

A madarak szemének alsó és felső szemhéja csak alváskor záródik be. Szemük nedvesen tartására nem az ezekkel történő pislogás, hanem egy úgynevezett pislogóhártya szolgál, melyet egy vízszintesen mozgó harmadik szemhéjként is azonosíthatunk esetükben. Anatómiailag a szem legbelső rétege az ideghártya (*retina*), ami a központi idegrendszer kitüremkedésének tekinthető, és ami a fény által kiváltott inger felvételére alkalmas idegsejteket (csapokat, pálcikákat), azaz a receptorokat tartalmazza. Ezek rostjai alkotják a látóideget (Fehér, 2004). A madarak az emlősökhöz hasonlóan érzékenyek a fény hullámhosszára, egyes kutatások szerint azonban ez a tartomány kissé a vörös felé eltolódik (Lencsés, 2005), míg más eredmények szerint az is ismert, hogy sokkal érzékenyebbek az ultraibolya sugárzásra az embernél (Alphin, 2014). Nem csak a vizuális spektrum tér el látás tekintetében az ember és a baromfifélék között, hanem a látható elektromágneses spektrum is. Ennek oka, hogy az ember úgynevezett *tri-kromatikus* látású, azaz a vörös-, zöld- és kék hullámhosszra érzékeny, míg a baromfifélék látása *tetra-kromatikus*, tehát vörös-, zöld- és kék hullámhosszon kívül az ultraibolya tartományban is képesek érzékelni a fényt (Prescott és Wathes, 1999). Fontos azonban megjegyezni, hogy nem csak az alkalmazott hullámhossz, de a fényerősség is lényeges, hiszen ez határozza meg, hogy az adott hullámhosszúságú fény átlépi-e az *extra-retinális* receptorok ingerküszöbét. Megfelelő fényerősség esetén a fény színe hatással van a baromfifélék viselkedésére és egyes értékmérő tulajdonságaik kifejeződésére, természetesen a saját genetikai határaikon belül. A viselkedési és egyes termelési tulajdonságokra a vörös, a narancs, a sárga, a zöld és a kék, tehát a nagyobb hullámhosszúságú fény hat (Lewis és Morris, 2006).



ábra: Színérzékelés (http1)



ábra: Látás (http 2)

## A madarak látásának élettani jellemzői

A madarak kétféleképpen érzékelik a fényt, az agyra és a szemre jutó *extra-retinális* receptorok révén, melyek a belső elválasztású *endokrin* mirigyek működését befolyásolják. A madarak agyában aktív *extra-retinális fotoreceptorok* találhatóak, amik a fényenergiát felveszik, majd továbbítva azt a koponyán és a szöveteken keresztül eljuttatják a hipotalamusz egyik régiójába, a *szuprakiazmatikus* magba. Ezt a *szuprakiazmatikus* magot tekintik a legfontosabb szívritmus szabályozónak, mely hat a *cirkadián* ritmusra, befolyásolva ezzel a különféle élettani folyamatokat és a viselkedést a *retino-hipotalamikus* traktuson keresztül (Reppert és Weaver, 2001). A madarak retinájában 4-5 féle csapsejt található, beleértve a kettős csapsejteket is, melyek maximálisan reagálnak az ibolya, a kék, a zöld és a vörös fényre (Yoshizawa, 1992). Ezen kívül 3 fejlett fotoreceptor is található az agyukban, fontos szerepet betöltve a különböző biológiai és fiziológiai folyamatokban (Bertolucci és Foa, 2004; Wyse és Hazlerigg, 2009).

### Fiziológiai hatások

A különböző fényforrások megváltoztathatják a fiziológiai állapotot, beleértve a hormonszekréciót, például a *glükokortikoidok* termelődését (Leproult és mtsai., 2001), az *adenokortikotrop* hormont és a *kortikotropin* felszabadító hormont (Fischman és mtsai., 1988) és a *melatonint* (Schernhammer és mtsai., 2006). A *melatonin* szintézisben bekövetkező változások pedig befolyásolják az anyagcserét, az immunfunkciókat és az endokrin rendszer működését a reproduktív, a mellékvese és a pajzsmirigy hormontengelyein keresztül (Prendergast mtsai., 2002).

### Fotoreceptorok

A madarak több szövetében is megtalálhatóak a fotoreceptorok, ilyen szövet például a szemben a retina, az agy és a tobozmirigy. Ezen fotoreceptorok opszin-alapú fotopigmenteket használnak a fény felismerésére és átvitelére. Az opszinok olyan fehérjék, melyek fényelnyelésekor bekövetkező térszerkezet-változása egy úgynevezett G-fehérjét aktivál. A fény stimulálja a G-fehérjét, ami ennek hatására egy fototranszdukciónak nevezett jelátviteli kaszkádot hoz létre (Doyle és Menaker, 2007).

A legismertebb fotoreceptorok a csapok és pálcikák, ahogyan azt korábban említettem a retinában találhatóak. A pálcikák gyenge fényben is képesek közvetíteni a vizuális ingereket, érzékenyek a fotostimuluskra, de alacsony felbontású képet formálnak. Egy különleges opszint, az Opn2-t tartalmazzák, amely a gerincesekben megtalálható, igen jól jellemzett opszin. Ezzel szemben a csapok erős fényben hoznak létre képeket, ennél fogva kevésbé érzékenyek a fényerősség változásaira és nagyobb felbontású képeket alkotnak. A csapok egy másik opszin, az Opn1-et használják működésük során, amely spektrális érzékenységétől függően különböző alosztályokba tartozhat. A csapok és pálcikák által összegyűjtött információkat a retina idegsejtjei (retinális ganglionsejtek :RGC) dolgozzák fel, mielőtt azok a látóidegen keresztül elérnék az agyat. Ezek többsége nem a fényt alakítja át idegi jelekké, mint a fotoreceptorok, hanem azt az információt dolgozza fel, amit a gyűjtősejtek a fotoreceptorokból kapnak (Dominoni, 2015).

Egyes források alapján az egyik ganglionsejt típus az úgynevezett fotoreceptív típust alkotja (intrinsically photoreceptive retinal ganglion cells: ipRGC). Ezen sejtek fény behatásra lassú választ adnak, fényre depolarizálnak kationcsatorna nyitásával. Szerepük van a pupilla fényreflex irányításában, a tobozmirigy melanopszin kibocsátásnak szabályozásában, ezáltal a cirkadián ritmus fenntartásában is. Jellemzően, a többi ganglionsejttől eltérő módon, melanopszint állítanak elő, melyben maga a sejt axonja is részt vesz (a vakfoltig tartó területen). Maguk az axonok alapvetően az agy cirkadián hangoló és alvásszabályozó területei felé közvetítik az érzékelt információt (Mészáros G. 2018).

Az emlősökkel ellentétben, a madarakban a melanopszin kétféle módon is jelen van, Opn4x és Opn4m formájában (Bellingham és mtsai. 2006). Ezen fotoreceptorok válaszreakciója nagyban függ a fényerősségtől, ugyanakkor közel sem annyira fényérzékenyek, mint a csapok vagy a pálcikák, tehát a melanopszinok működésbe lépéséhez magasabb fényintenzitás küszöb elérésére van szükség. A melanopszinok válaszcsúcsa 480nm-en található (Bellingham és mtsai.2006), az ilyen nem vizuális válaszreakciók spektrális érzékenységének leírása azonban nem egyszerű, mivel a vizuális válaszreakciókat nem csak az ipRGC-k, hanem a csapok és pálcikák is közvetítik. Emlősökben valószínűsíthetően a cirkadián válaszok 440nm és 490nm között található (Berson és mtsai, 2002), de a hasonló információink még mindig hiányosak a madárfajok esetében.

## A fény élettani hatásai

A fény befolyásolja a baromfifélék viselkedését, szaporodását és nem utolsó sorban a növekedésüket. A *fotoperiodikus* rendszerek használata lehetővé teszi, hogy a brojlerek gyors növekedési ütemét valamelyest lelassítsa, ezáltal lehetővé téve számukra az élettani érettség elérését az izomtömeg maximalizálódásának ideje előtt. A fény, mint környezeti tényező három különböző aspektusból áll: intenzitás, fotoperiódus (időtartam) és spektrális tartalom (szín) (Olanrewaju és mtsai., 2006a). A madárfajok látórendszere jelentősen különbözik az emberétől, különösen színlátásuk szempontjából (Barber és mtsai., 2006). Bell és Freeman (1971) beszámolt arról, hogy a madárfajok szeme három színt különböztet meg, továbbá ismert az is, hogy csak a fényspektrum egy szűk részén (380-760nm) belül érzékelik a fényt (Prescott és Wathes, 1999).

### Az emlősök cirkadián ritmusa

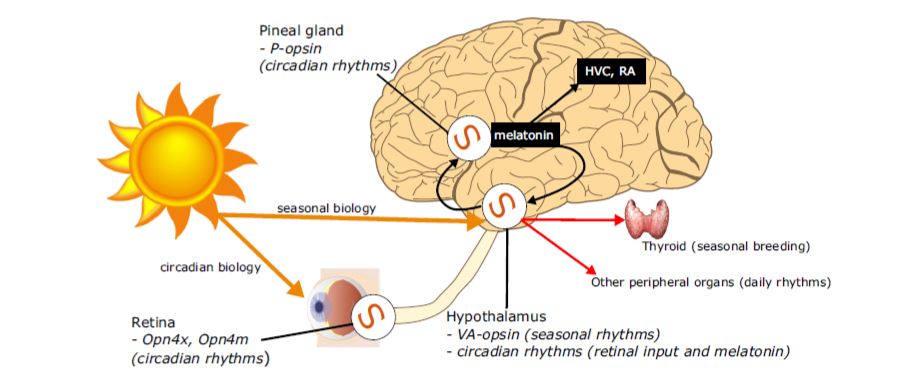
Az emlősök a *cirkadián* ritmusukat elsősorban a környezetük, a fény és a sötétség ciklikus változásának segítségével szinkronizálják. Belső órájuk a *hipotalamusz* területén található úgynevezett *szuprakiazmatikus* magvakban (továbbiakban: SCN = Suprachiasmatic Nuclei) találhatóak. Az SCN jelzései az egész testet összehangolhatják a szemből érkező információk alapján (Klein és mtsai, 1991). Az SCN ugyanis a szemen, egészen pontosan a *retinán* keresztül számtalan ingert képes feldolgozni, a *retina* ugyanis nem csak *fotoreceptorokat*, hanem fényérzékeny *retinális* *ganglionsejteket* is tartalmaz, melyeknek saját pigmentje a *melanopszin,* ami a *retinohipotalamikus* pálya segítségével létesít kapcsolatot a *szuprakiazmatikus* magvakkal (Ethan D.Buhr és Joseph S.Takahashi, 2013).

### A madarak cirkadián ritmusa

Míg az emlősök cirkadián ritmusát szabályozó, a hipotalamuszban található szuprakiazmatikus magvak nagyon jól jellemezhetőek, a madarakban ezen ritmusok szabályozásáról lényegesebben kevesebbet tudunk (Ute Aabraham, Urs Albrecht és Roland Brandstätter, 2003).

Madarakban a nem vizuális fotostimulusokat főként a retina, a hipotalamusz (a retino-hipotalamikus traktuson keresztül) és a tobozmirigy fogadja (Gwinner és Brandstatter, 2001). A madárfajok fotorecepciójának kiemelten fontos helye a tobozmirigy, mely az emlősöktől eltérően (ahol mindössze kiválasztó szerepe van, és nem fényérzékeny), a madarak mirigye saját fotoreceptorokat tartalmaz. Ezek a receptorok a pinopsinok (P-opsin), amelyek spektrumcsúcsa 460nm és 470nm között van (Max és mtsai, 1995). Ez is kiválóan mutatja, hogy belső fényérzékenységének köszönhetően tobozmirigyük kulcsszerepet játszik a cirkadián ritmusuk szabályozásában (Gwinner és Brandstatter, 2001).

A gerincesekben is megtalálható „ősi” opszin (Vertebrate ancient – VA) szintén felfedezhető a csirkék hipotalamuszában is, válaszspektrumuk pedig 460 nm-nél éri el a csúcsát (Halford és mtsai., 2009; Davies és mtsai., 2012). Úgy tűnik, hogy ezen fotoreceptorok szintén részt vesznek a biológiai szabályozásban, ezzel megmagyarázva, hogy a korábbi vizsgálatok miért találták úgy, hogy a vak madarak ugyanúgy képesek voltak követni a szezonális ritmusokat, melyek az ivarmirigy növekedését és regresszióját okozták (Dominoni, 2015).



ábra: Élettani háttér (Dominoni, 2015)

## A fény spektrumának hatása

A fény központi szerepet játszik a baromfitenyésztésben, hiszen körültekintő megválasztásuk nélkül nem biztosíthatóak a madarak teljes genetikai potenciáljának eléréséhez szükséges feltételek. A fényintenzitás, a *fotoperiodikus* rendszerek alkalmazása, a fényforrás típusa, valamint a fény hullámhossza mind befolyásolják a termelést (Manser, 1996).

A brojleristállók világítási programjait is többen vizsgálták, különösen az elmúlt 20 év során (Lewis, 2006; Lewis és mtsai., 2009). Egyes kutatások a különböző fényforrások hatását (Lewis és Morris, 1998; D’Eath és Stone, 1999; Kristensen és mtsai., 2007), valamint a fény spektrumát is vizsgálták (Prescott és mtsai.; 2003).

A baromfitenyésztők többsége lecserélte alkalmazott fényforrásait a korszerűbb LED-es technológiára. Kimutatták ugyanis, hogy az 560nm és 480nm tartományba eső LED-fény használata stimulálja a brojlercsikék testtömeg növekedését (Rozenboim és mtsai, 1999). Yang és mtsai. (2016 a) az 580nm-es LED fény használatát javasolják a brojlercsikék testtömegének növelése érdekében. Sadrzadeh és mtsai (2013) szerint, a vörös LED fény használata nem növelte az állatok tömegét, míg a zöld LED fény használata kifejezetten elnyomta a növekedés mértékét.

A külön-külön publikált eredmények azonban nem nyújtanak tudományos alapot az állatok válaszainak számszerűsített áttekintésére és összehasonlítására.

Néhány korábbi kutatás szerint a kék fénynek stressz-csökkentő és növekedést serkentő hatása lehet csirkékben, azonban aggályok merültek fel azzal kapcsolatban, hogy az állatok az egyféle hullámhosszúságú fény hatására minden őket ért vizuális információt fel tudnak-e megfelelően dolgozni (Prescott és mtsai., 2003). A fényintenzitás hatását a brojlerek viselkedésére, termelésére és jólétére már az 1960-as évek elején elkezdték kutatni ( Skoglund és Palmer, 1962).

Kimutatták, hogy amennyiben a fehér fény intenzitása nem éri el a 4 lux erősséget, az nem képes áthatolni az állat koponyáján, így nem képes stimulálni a tobozmirigyet ezzel a szerotonin és a melatonin szekréciójának csökkenését eredményezi. Ezenkívül a fény különböző hullámhosszúságai közvetlenül hatolnak be a hipotalamuszba, amely különböző hatásokat vált ki az állatban (Lewis és Morris, 2006).

A hosszú hullámhosszúságú fény közvetlenül hatol be a koponyába, illetve az agyba, így elérve a hipotalamuszt. A rövid hullámhosszúságú fénysugaraknak ezzel szemben nagyobb intenzitással kell rendelkezniük, hogy befolyásolhassák a hipotalamuszt (Benoit, 1964; Baxter és mtsai., 2014).

Az extra-retinális fotoreceptorok továbbá érzékenynek bizonyultak az elektromágneses spektrum vörös hullámhosszaival szemben (Cedden és Göğer, 1999).

A fény színét a látható spektrum különböző hullámhosszainak kimenetei határozzák meg. A fehér fény tartalmazza ugyan a látható spektrum összes hullámhosszát, azonban színhőmérséklettől függően változnak a spektrális jellemzői, azaz a különböző hullámhosszok által kibocsájtott teljesítménye. A színhőmérséklet tehát a fény színének megjelenését jelzi, melyben a melegebb színek alacsonyabb hőmérsékletűek. A baromfifélék az emberekkel ellentétben az UV-A fényt is képesek detektálni, amely a közvetlenül az emberek számára látható fény spektruma alatt található (Wortel és mtsai., 1987).

A baromfifélék számára a fény fontos, hiszen nappal aktív állatokról beszélünk. Viselkedésük nagy részét a látásuk befolyásolja (Collins és mtsai., 2011), mely erősebb megvilágításban jobb, mint gyengébb fény esetén (King-Smith, 1971). A fény színének viselkedésre, jólétre és teljesítményre gyakorolt hatásait leginkább monokromatikus fényforrás esetén vizsgálták, a különböző színhőmérsékletű fehér fény esetén kevesebb kutatás zajlott. A monokromatikus kék fényben nevelt brojlereknél a zöld, a vörös és a fehér fény volt a kedveltebb, míg a kék fényben neveltek inkább a zöld fényt részesítették előnyben (Prayitno és mtsai., 1997). A kék és a zöld fény pozitívan hat a növekedésre (Rozenboim és mtsai., 1999, 2004a). Az említett tanulmányok azt mutatják, hogy a monokromatikus kék fény használata pozitív hatással lehet a brojlerek jóllétére és teljesítményére.

# A vizsgálatok módszerei

## A vizsgálat helyszíne, az alkalmazott tartás- és takarmányozástechnológia

A vizsgálatot egy Budapest XVII. kerület, Rákoscsaba külterületén lévő állattartó telepen végeztük.

Az állatokat (n=400) egy épületben helyeztük el, azonban az izzóval és LED-el megvilágított két csoportot egy fényt át nem eresztő fallal választottuk el egymástól. Az alkalmazott tartástechnológia minden esetben a „Cobb Broiler Management Guide” (http3) ajánlásait követte. Faforgácsos almozással, mélyalmos rendszerben voltak tartva (4. ábra). A fakkok fűtésére gázüzemű műanyákat rendszeresítettünk, a hőmérsékleti paraméterek a 1. táblázatban láthatók.

Itatásra a napos állatoknál kúpos önitatókat használtunk, amelyeket a csirkék aktuális magasságához állított szelepes önitatóra cseréltünk. Etetésre teljes értékű dercés takarmányt adtunk *ad libitum* módon önetetőkben, az életkornak megfelelő nyers táplálóanyag-tartalmi paraméterekkel, a pontosan követhető takarmányfogyasztás érdekében. Az alkalmazott takarmány alapját a búza, a kukorica és az extrahált szója alkotta. A takarmányok összetételét és számított nyers táplálóanyag-tartalmát a 2. táblázatban láthatjuk.

Az izzóval megvilágított csoportokban nem, míg a LED-es világításban alkalmaztunk napkelte-napnyugta szimulációt. A világítási program a 3. táblázatban látható.



4.ábra: Kísérleti állatok (saját kép)

|  |  |
| --- | --- |
| **Nap** | **Hőmérséklet (°C ± 2)** |
| 0-7 | **33** |
| 7-14 | **30** |
| 14-21 | **27** |
| 21-28 | **24** |
| 28-35 | **21** |
| 35-42 | **19** |

*1.táblázat: Hőmérséklet*

|  |  |  |  |
| --- | --- | --- | --- |
| **A takarmány összetétele** | | | |
|  | Indító 0-14 nap | Nevelő 14-28 nap | Befejező 28-42 nap |
|  | Összetétel (%) | | |
| Kukorica | 34,00 | 38,00 | 41,00 |
| Búza | 19,00 | 16,00 | 18,00 |
| Extrahált szója (46%) | 31,00 | 23,00 | 16,00 |
| Extrahált napraforgó (37%) (unhulled) | 4,00 | 10,00 | 11,00 |
| Kukorica glutén (60%) | 4,00 | 4,00 | 5,00 |
| Napraforgóolaj | 3,50 | 5,00 | 5,30 |
| Brojler premix 0.4% | 0,40 | 0,40 | 0,40 |
| Mész | 1, 20 | 1, 10 | 0,90 |
| L-lysine | 0,50 | 0,40 | 0,40 |
| DL-Methionine | 0,30 | 0, 25 | 0, 20 |
| L-Threonine | 0, 15 | - | - |
| MCP | 1,70 | 1,60 | 1,55 |
| NaCl | 0, 25 | 0, 25 | 0, 25 |
| ∑ | 100,00 | 100,00 | 100,00 |
| **Számított nyers táplálóanyag tartalom %** | | | |
| D.m. | 88,301 | 88,344 | 88, 166 |
| AMEn MJ/kg | 12,585 | 13,095 | 13,412 |
| Nyersfehérje | 22,805 | 21, 200 | 19,455 |
| Nyerszsír | 6,679 | 8,493 | 8,721 |
| Nyersrost | 3,784 | 4,635 | 4,631 |
| Lys | 1,453 | 1, 275 | 1, 126 |
| Av Lys | 1,399 | 1, 217 | 1, 120 |
| D Lys | 1, 255 | 1, 110 | 0,999 |
| Meth | 0,712 | 0,634 | 0,611 |
| Meth+C | 1,023 | 0,961 | 0,873 |
| D Meth+C | 0,963 | 0,885 | 0,811 |
| Thre | 1,028 | 0,824 | 0,756 |
| D Thre | 0,846 | 0,756 | 0,685 |
| Tryp | 0, 286 | 0, 265 | 0, 233 |
| D tryp | 0, 215 | 0, 182 | 0, 155 |
| Arg | 1,312 | 1, 243 | 1,062 |
| Val | 1,078 | 0,998 | 0,876 |
| Ca | 0,959 | 0,885 | 0,802 |
| P | 0,889 | 0,798 | 0,761 |

2.táblázat: A takarmányok összetétele és számított nyers táplálóanyag-tartalma

|  |  |
| --- | --- |
| **Nap** | **Sötét órák száma** |
| 0 | 0 |
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6-37 | 6 |
| Vágás előtt 5. nap | 5 |
| Vágás előtt 4. nap | 4 |
| Vágás előtt 3. nap | 3 |
| Vágás előtt 2. nap | 2 |
| Vágás előtt 1. nap | 1 |

*3.táblázat: Fényprogram*

## A vizsgált állomány

A vizsgálat során a mai kor kívánalmainak teljesen megfelelő Cobb 500-as szexált kakas hibrid állományt használtunk. Ez a hibrid az egyik legelterjedtebb a jó takarmányértékesítése és kiváló növekedési erélye miatt. A vizsgálatban részt vevő állatokat két csoportra bontottuk, mindkét csoportban öt ismétléssel dolgoztunk. Ismétlésenként 40 darab madár, tehát csoportonként 200 db, összesen 400 állat vett részt a kísérletben. A vizsgálat során az egyik ismétlésről videofelvételeket készítettünk.

A szakdolgozatomban az említett állomány két csoportjának egy–egy ismétlését, egy kontroll és egy LED -es csoportot figyeltem meg (4. táblázat). A róluk készült non–stop videofelvételeket elemeztem ki.

|  |  |
| --- | --- |
| **Világítási technológia** | **Állomány (db)** |
| Hagyományos izzó (K) | 40 |
| Kísérleti LED (L) | 40 |

*4. táblázat: Állomány*

## Videofelvételek kiértékelése

A csoportokról készült videófelvételekből a vizsgált időszak közepéből képeztem reprezentatív mintákat elemzésre. A videófelvételeket VLC médialejátszó program segítségével elemeztem, az alábbi tematika szerint: a megvilágított időszakban (18 óra) 5 percenként megállítva a felvételt összeszámoltam az egyes vizsgált tevékenységeket végző állatokat. Az evés, ivás, pihenés és az interakció voltak a vizsgált paraméterek. Amennyiben szükséges volt, az adott időpillanatot pár másodperccel meghosszabbítva (maximum 5 másodperc) bizonyosodtam meg a cselekvés tényleges meglétéről (például az állatok több kisebb adagban veszik fel a vizet, így csak egyetlen időpillanatban történő értékeléssel hamis eredményeket kaptam volna). Az így kapott eredményeket napi átlagként és heti átlagként is feldolgoztam, ezekre szórás értékeket illesztettem.

Az alábbiak szerint néztek ki az egyes csoportok vizsgált felvételei (5. 6. ábra):

![A képen beltéri, étel, ülő, kicsi látható

Automatikusan generált leírás](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD0RXhpZgAATU0AKgAAAAgABAE7AAIAAAAOAAAISodpAAQAAAABAAAIWJydAAEAAAAcAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFZhcmdhIEJhcmJhcmEAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzY1AACSkgACAAAAAzY1AADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Kontroll csoport*

*![A képen fénykép, különböző, ülő, torta látható

Automatikusan generált leírás](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TM8RXhpZgAATU0AKgAAAAgACAALAAIAAAAmAAAIegESAAMAAAABAAEAAAExAAIAAAAmAAAIoAEyAAIAAAAUAAAIxgE7AAIAAAAOAAAI2odpAAQAAAABAAAI6JydAAEAAAAcAAARbOocAAcAAAgMAAAAbgAAEYgc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIwOjA1OjE0IDIxOjE3OjI2AFZhcmdhIEJhcmJhcmEAAAaQAwACAAAAFAAAEUKQBAACAAAAFAAAEVaSkQACAAAAAzcyAACSkgACAAAAAzcyAACgAQADAAAAAQABAADqHAAHAAAIDAAACTYAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ábra: LED csoport*

A videófelvételeken látható állatokat az alábbiak szerint rangsoroltam az egyes kategóriákba, vagy kategórián kívülre.

### Evés

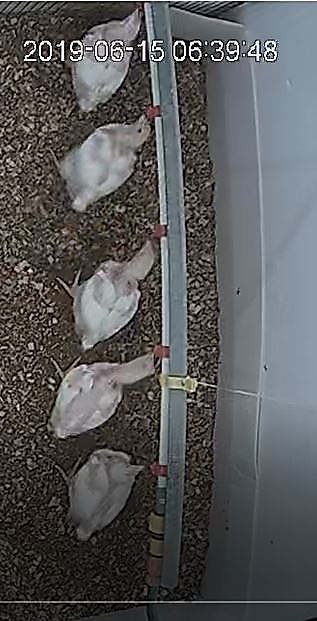
Minden olyan állatot ebbe a kategóriába soroltam, amelyik ténylegesen táplálkozott (feje az etetőben van), az etető mellett láthatóan fejüket nem az etetőben tartó állatokat nem soroltam be ezen kategória alá, ahogyan a földről válogató madarakat sem. (7. ábra)



*7. ábra: Evés*

### Ivás

Ebbe a kategóriába soroltam azokat az állatokat, akik a szelepes itatót az adott pillanatban és az azt követő néhány másodpercben használták. Ezért volt kiemelt fontosságú az időpillanat meghosszabbítása mivel így az itató alatt pihenő, vagy részlegesen kitakart állatokról is el lehetett biztosan dönteni, hogy a kategóriába tartoznak-e vagy sem. (8. ábra)



*8. ábra: Ivás*

### Pihenés

Azokat az állatokat soroltam ebbe a kategóriába, akik a földön, maguk mellé zárt szárnyakkal feküdtek, illetve akik behajtott fejjel aludtak vagy nyújtott lábbal feküdtek. Itt is kiemelt fontosságú volt az időpillanat meghosszabbítása, mivel a fekvő és mozdulatában kimerevített sétáló állatokat egy pillanat alapján nehezen lehetett elkülöníteni. Ezért, ha nem voltam biztos az állat tevékenységében, az elkövetkező szintén maximum 5 másodperces szakaszt is figyelembe vettem. Amennyiben a helyén maradt, tehát ténylegesen pihent ebbe a kategóriába soroltam, azonban, ha felkelt vagy lépések követték a megállított pillanatot természetesen nem kerülhetett be ebbe a kategóriába. (9.ábra)

![A képen állat, kicsi, étel, csoport látható

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*9.ábra: Pihenés*

### Interakció

Azok az állatok kerültek ebbe a kategóriába, akik a társaikkal bármilyen nemű kapcsolatot létesítettek, attól függetlenül, hogy milyen irányultságú volt. Amennyiben több állat vett részt aktívan a cselekményben úgy minden állatot besoroltam, azonban, ha csak az egyik állat volt aktív és a társa, aki felé irányult a cselekmény passzív maradt, úgy csak az aktív állatot kategorizáltam be. (10. 11. ábra)

![A képen beltéri, fű, juh, kicsi látható

Automatikusan generált leírás](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD0RXhpZgAATU0AKgAAAAgABAE7AAIAAAAOAAAISodpAAQAAAABAAAIWJydAAEAAAAcAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFZhcmdhIEJhcmJhcmEAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzg0AACSkgACAAAAAzg0AADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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*10. ábra: Mindkét állat aktív*

![A képen beltéri, juh, kicsi, fehér látható

Automatikusan generált leírás](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD0RXhpZgAATU0AKgAAAAgABAE7AAIAAAAOAAAISodpAAQAAAABAAAIWJydAAEAAAAcAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFZhcmdhIEJhcmJhcmEAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzY3AACSkgACAAAAAzY3AADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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*11. állat: Csak az egyik állat aktív, társa passzív*

### Kategória nélküliek

Ez az egyetlen nem ábrázolt vagy megjelenített kategória, ezekkel az állatokkal nem is végeztem számításokat. Ebbe a kategóriába ugyanis a kétes helyzetekben, például a pihenés besorolásakor arrébb sétáló madarak kerültek, akiket egyik másik kategóriába sem lehetett az adott pillanatban vagy annak meghosszabbításakor sorolni.

## Matematikai–statisztikai módszerek

Az adatok rögzítésére és kiértékelésére a Microsoft Excell és Word programokat használtam. Az értékeléshez átlagot és szórást számoltam, valamint kétmintás t–próbát végeztem.

T–próba esetében a diagramokon történő jelölésnél három szignifikancia szintet alkalmaztam, melyek a következők:

a – b ahol p < 0,05;

a – c ahol p < 0,01;

a – d ahol p < 0,001;

# Eredmények és értékelésük

Az elemzések eredményeinek megjelenítéséhez oszlopdiagrammokat alkalmaztam.

## Kategória eredmények a napi változása

### Evés kategória

A napi evési kategória adatsorainak átlagait kielemezve azt tapasztaltam, hogy az egyes napok összehasonlításában csak a 06.13-ai adatok mutattak szignifikáns (p=0,00645) eltérést. Ami azt mutatja, hogy a LED technológiával megvilágított csoport állatai bármely adott időpillanatban jelentősen többen vettek fel takarmányt az etetőből, mint a kontroll csoport egyedei. (1. diagram)

**c**

**a**

. diagram Napi evés átlagok a – c: p < 0,01

### Ivás kategória

A napi ivás kategória adatsorainak átlagait kielemezve azt tapasztaltam, hogy a LED technológiával megvilágított csoportban az állatok napi vízfelvételeinek értékei rendszerint magasabbak voltak, mint a kontroll csoport esetében: 6.13-án a különbség p=0,02964, 6.14-én p=0,01379 volt. 6.15-én nem volt szignifikánsan kimutatható különbség (p=0,48195). Ellenben 6.16-án az előző napokhoz képest is jelentősen (p=0,00269) magas volt az eltérés. Ezek az eredmények nem csak azt mutatják, hogy a LED-es csoport madarai több vizet vesznek fel, hanem azt is, hogy állandó külső körülmények (fényprogram, hőmérséklet) mellett is egyik napról a másikra jelentős eltérések mutatkoznak a csoportok között. (2. diagram)

**b**

**c**

**b**

**a**

**a**

**a**

. diagram Napi ivás átlagok a – b: p < 0,05 és a – c: p < 0,01

### Pihenés kategória

A napi pihenés kategória adatsorainak átlagait kielemezve azt tapasztaltam, hogy szignifikánsan kimutatható (p=0,00577) különbség egyedül 6.13-án volt, melyben a kontroll csoport egyedei pihentek nagyobb számban egy időpillanatban. (3. diagram). Ez az adat összhangban van a 4. diagram (lásd lejjebb) interakciókat bemutató eredményével.

**c**

**a**

. diagram Napi pihenés átlagok a – c: p < 0,01

### Interakció kategória

A napi interakció kategória adatsorainak átlagait kielemezve azt tapasztaltam, hogy az interakciók száma minden esetben magasabb volt a LED világítású csoportban. Szignifikáns különbségek voltak 6.13-án (p=0,02108), ami összhangban van a már említett aznapi pihenés eredménnyel. 6.15-én a különbség p=0,0059 volt és 6.16-án pedig p=0,04047 volt. (4. diagram) Ez arra enged következtetni, hogy a LED-el megvilágított csoport egyedei napközben feltehetően nagyobb számban voltak aktívak, mint a hagyományos izzós csoport egyedei.

**c**

**b**

**b**

**a**

**a**

**a**

. diagram Napi interakció átlagok a – b: p < 0,05 és a – c: p < 0,01

## Napi eredmények

Ebben az alfejezetben a fentebb már prezentált adatokat hasonlítom össze egymással napi bontásban.

### 6.13.

A vizsgált időszakon belül a 6.13-ai nap volt az egyetlen olyan nap amikor minden kategóriában volt szignifikáns különbség. Evés (p=0,00645) és ivás (p=0,02964) esetében is a LED csoport teljesített jobban. A pihenés különbsége (p=0,00577) és az interakciók különbsége (p=0,02108) ellentétesen hatottak egymásra. A LED csoport tagjainak alacsonyabb pihenő száma jól viszonyul a megnövekedett interakciók számához a kontroll csoporttal szemben. (5. diagram)

**a b**

**a b**

**a c**

. diagram 6.13 a – b: p < 0,05 és a – c: p < 0,01

### 6.14.

6.14-én egyedül az ivás értékekben volt szignifikáns különbség a LED csoport javára, melynek mértéke p=0,01379 volt, ez a 6. diagramban látható.

**a b**

. diagram 6.14. a – b: p < 0,05

### 6.15.

A 7. diagram mutatja a 6.15-ei eredményeket, ahol csak az interakciók mértékében volt statisztikai különbség (p=0,00598). A LED világítású egyedek nagyobb számban bizonyultak élénkebbnek a kontroll állományhoz képest.

**a c**

. diagram 6.15. a – c: p < 0,01

### 6.16.

A 8. diagramban található 6.16-ai értékek szerint a vizsgált LED technológiás csoport egyedei nagyobb számban fogyasztottak (p=0,00269) vizet, mint a kontroll csoport egyedei. További szignifikáns (p=0,04047) különbség volt az interakciókat tekintve, ahol újfent a LED csoport bizonyult élénkebbnek a kontrollhoz képest.

**a c**

**a b**

. diagram 6.16. a – b: p < 0,05 és a – c: p < 0,01

## Heti összesített átlagok

### Heti evés átlag

Az összes adat egy hétre vonatkoztatott átlaga alapján elmondható, hogy a LED technológiával megvilágított csoport egyedei közül egyszerre többen vettek fel takarmányt, mint a hagyományos izzóval megvilágított csoport egyedei. A különbség szignifikánsan kimutatható volt (p=0,00423). (9. diagram)

. diagram Heti evés átlag

### Heti ivás átlag

A heti ivás átlag eredménye nem szignifikáns (p=0,05865), de számot tevő különbséget mutat, ami nagyban befolyásolja a takarmány emésztést és értékesítést. (10. diagram)

. diagram Heti ivás átlag

### Heti pihenés átlag

A heti pihenés átlagban sem volt statisztikailag kimutatható különbség (p=0,27894). A kontroll csoport egyedei enyhén nagyobb számban pihentek, ami összhangban van a többi kategóriában elért alacsonyabb eredményekkel. (11. diagram)

. diagram Heti pihenés átlag

### Heti interakció átlag

A hét során egy időpontban egyszerre interakcióba lépő egyedek száma a LED csoportban jelentősen magasabb volt (p=0,0046) volt, mint a kontroll csoportban.

. diagram Heti interakció átlag

# Következtetések és javaslatok

Dolgozatom célja az volt, hogy feltárjam a két különböző megvilágítás etológiai hatásait a csoportokban. A tapasztalt csoportok közti eltérések pszichofiziológiai hátterét részletesen ismertetik és a tapasztalataimat tökéletesen alátámasztják az általam megjelenített szakirodalmak.

A videofelvételek elemzéséből kiderült, hogy a kontroll és LED csoportok közötti különbségek viszonylag egységesek, de a szignifikáns különbségek a kategóriákban enyhe mintát követve, de a napok váltakozását tekintve random jelentkeznek. Evés tekintetében szignifikáns (p=0,00645) különbség csak 6.13-án volt, míg az ivásban 6.13-án (p=0,02964), 6.14-én (p=0,01379) és 6.16-án is volt szignifikáns (p=0,00269) különbség. Ezek az eredmények egyértelműen az új világítási technológia okozta fokozott takarmányfelvételre és a többlet vízfogyasztás okozta takarmány emésztés javulására utalhatnak. Pihenő egyedek számában csak 6.13-án volt szignifikáns (p=0,00577) különbség, ahol a kontroll állomány állatai mutattak magasabb értékeket. Ezzel összhangban vannak az interakciók számában magasabb eredményt kapó LED csoportok, vagyis a LED világításnak köszönhetően – nem teljesen tisztázott, hogy mi okból – de a madarak sokkal élénkebbek voltak. 6.13-án a különbség p=0,02108 volt, 6.15-én a különbség p=0,0059 volt, 6.16-án pedig a különbség p=0,04047 volt. A vizsgált időszak eredményeit átlagolva érdekes módon az evésben volt szignifikáns (p=0,00423) különbség, míg a vízfogyasztás különbségéről (p=0,058) nem volt ugyanez elmondható. Az interakciókban is jelentős volt a különbség (p=0,00469).

A kapott eredményeket összegezve kijelenthető, hogy a LED technológia alkalmazása a brojlerek nevelése során számos termelést javító paraméterrel rendelkezik, melyek megfelelnek a várakozásoknak. Ellenben fontos szempont, hogy fokozott aktivitást is eredményezhetett, de ennek a pontos hátterét további vizsgálatokkal még fel kell tárni. További, nagyobb mintákon alapuló kutatások szükségesek a témában.

# Összefoglalás

A fény központi szerepet játszik a baromfitenyésztésben, hiszen körültekintő megválasztásuk nélkül nem biztosíthatóak a madarak teljes genetikai potenciáljának eléréséhez szükséges feltételek. A fényintenzitás, a *fotoperiodikus* rendszerek alkalmazása, a fényforrás típusa, valamint a fény hullámhossza mind befolyásolják a termelést (Manser, 1996). A baromfitenyésztők többsége lecserélte alkalmazott fényforrásait a korszerűbb LED-es technológiára. Kimutatták ugyanis, hogy az 560nm és 480nm tartományba eső LED-fény használata stimulálja a brojlercsikék testtömeg növekedését (Rozenboim és mtsai, 1999).

A kielemzett felvételek adatsorai alapján elmondható, hogy a LED technológiával megvilágított fakkokban nevelt állatok a kontrollcsoport állataihoz képest magasabb takarmányfogyasztást, nagyobb vízfelvételt és magasabb aktivitást mutattak. Érdekes különbség volt az állatok viselkedése a csoportokban. A kontrollcsoport állatainak takarmány és vízfelvétele közti idő egy-egy állatra vetítve a felvételek vizsgálatakor szemmel láthatóan hosszabb volt, mint a LED csoport egyedeié. Ugyanakkor a kontroll csoport állatai, habár többet pihentek, a LED csoportban az állatok sokkal aktívabbak voltak. Amikor nem lehetett őket kategóriába sorolni többnyire mozgatták szárnyaikat és szaladgáltak nem csak az etető és itató között, hanem sokszor „céltalanul” csupán a vélhetően magasabb mozgásigényük miatt. Összességében sokkal energikusabbnak mutatkoztak a kontroll csoportban nevelt társaiknál, akiknél jelentősen ritkábban, de szintén megfigyelhető volt a szárnyak nyújtóztatása, ugyanakkor csak elvétve szaladgáltak, és sokkal rövidebb távokon társaiknál. A grafikonokon is jól látszik, hogy hiába voltak azonosak a körülmények egy-egy csoporton belül, így is szignifikáns eltérések mutatkoztak meg az egymást követő napokban is, tehát mindenképpen érdemes lehet egy nagyobb, vagy több kisebb mintát véve, több vizsgálati paramétert alkalmazva kielemezni a csoportokat és összevetni egymással. A célkitűzésben foglaltakat tehát számításaim szerint alátámasztotta a kísérlet és annak eredményei. Ugyanakkor az eltérések további vizsgálatokat tehetnek indokolttá nagyobb egyedszám bevonásával és több alkalmazott mérési mutatóval.

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http1: <https://photographyoftheinvisibleworld.blogspot.com/search?q=bird+vision> (2017. szeptember)

http2: https://www.demilked.com/bird-vs-human-vision/ (2020 május)

http4: [https://cobbstorage.blob.core.windows.net/guides/5fc96620-0aba-11e9-9c88-c51e407c53ab (2020](https://cobbstorage.blob.core.windows.net/guides/5fc96620-0aba-11e9-9c88-c51e407c53ab%20(2020). május)

# Nyilatkozat

Alulírott Varga Barbara a Szent István Egyetem Mezőgazdaság- és Környezettudományi Kar Állattenyésztő mérnöki szak nappali tagozat végzős hallgatója nyilatkozom, hogy a dolgozat saját munkám, melynek elkészítése során a felhasznált irodalmat korrekt módon, a jogi és etikai szabályok betartásával kezeltem. Hozzájárulok ahhoz, hogy szakdolgozatom egyoldalas összefoglalója felkerüljön a Mezőgazdaság- és Környezettudományi Kar Állattenyésztés- tudományi Intézet honlapjára. A digitális verzióban (pdf formátumban) leadott dolgozatom elérhető legyen a témát vezető intézetben, illetve a kialakításra kerülő Kari központi nyilvántartásában, a jogi és etikai szabályok teljes körű betartása mellett.

A dolgozat állam- vagy szolgálati titkot tartalmaz: igen nem.

Gödöllő, 2020. május 15.

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Varga Barbara

A dolgozat készítőjének konzulense nyilatkozom arról, hogy a szakdolgozatot/diplomadolgozatot áttekintettem, a hallgatót az irodalmak korrekt kezelésének követelményeiről, jogi és etikai szabályairól tájékoztattam.

A szakdolgozatot záróvizsgán történő védésre javaslom / nem javaslom.

A dolgozat állam- vagy szolgálati titkot tartalmaz: igen nem.

Gödöllő, 2020. május 15.

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Dr. Kovács-Weber Mária Dr. Póti Péter

Papp Tibor István